California High-Speed Train Project

Request for Proposal for Design-Build Services

RFP No.: HSR 11-16
Geotechnical Data Report
Clinton Ave to East American Ave

Appendix A
Available Geotechnical Data from Previous Investigations

Prepared for
CALIFORNIA High-Speed Rail Authority

Appendix A

Available Geotechnical Data from Previous Investigations

For gINT Database, see CD

Table A-1
Summary of Available Geotechnical Data Collected from Previous Investigations

Report Name	File Name	Date Drilled	Caltrans Structure No.	Designated Hole ID	Original Hole ID	Hole Depth (ft)
South Fresno Viaduct	42 0226L As Builts_South Fresno Viaduct.pdf	6/6/1963	42-226 R/L	FBA0284h	B-4	35.0
South Fresno Viaduct	42 0226L As Builts_South Fresno Viaduct.pdf	6/6/1963	42-226 R/L	FBA0285h	B-3	46.0
South Fresno Viaduct	42 0226L As Builts_South Fresno Viaduct.pdf	6/27/1963	42-226 R/L	FBA0286h	B-28	41.0
South Fresno Viaduct	42 0226L As Builts_South Fresno Viaduct.pdf	6/11/1963	42-226 R/L	FBA0287h	B-6	46.0
South Fresno Viaduct	42 0226L As Builts_South Fresno Viaduct.pdf	6/27/1963	42-226 R/L	FBA0288h	B-29	43.0
South Fresno Viaduct	42 0226L As Builts_South Fresno Viaduct.pdf	6/26/1963	42-226 R/L	FBA0289h	B-26	2.0
South Fresno Viaduct	42 0226L As Builts_South Fresno Viaduct.pdf	6/26/1963	42-226 R/L	FBA0290h	B-27	50.0
South Fresno Viaduct	42 0226L As Builts_South Fresno Viaduct.pdf	6/12/1963	42-226 R/L	FBA0291h	B-7	57.0
South Fresno Viaduct	42 0226L As Builts_South Fresno Viaduct.pdf	6/26/1963	42-226 R/L	FBA0292h	B-23	21.0
South Fresno Viaduct	42 0226L As Builts_South Fresno Viaduct.pdf	6/12/1963	42-226 R/L	FBA0293h	B-8	52.0
South Fresno Viaduct	42 0226L As Builts_South Fresno Viaduct.pdf	6/25/1963	42-226 R/L	FBA0294h	B-22	7.0
South Fresno Viaduct	42 0226L As Builts_South Fresno Viaduct.pdf	6/25/1963	42-226 R/L	FBA0295h	B-21	7.0
South Fresno Viaduct	42 0226L As Builts_South Fresno Viaduct.pdf	6/25/1963	42-226 R/L	FBA0296h	B-20	4.0
South Fresno Viaduct	42 0226L As Builts_South Fresno Viaduct.pdf	6/25/1963	42-226 R/L	FBA0297h	B-19	7.0
South Fresno Viaduct	42 0226L As Builts_South Fresno Viaduct.pdf	6/25/1963	42-226 R/L	FBA0298h	B-18	45.0
South Fresno Viaduct	42 0226L As Builts_South Fresno Viaduct.pdf	6/26/1963	42-226 R/L	FBA0299h	B-24	40.0
South Fresno Viaduct	42 0226L As Builts_South Fresno Viaduct.pdf	6/26/1963	42-226 R/L	FBA0300h	B-25	47.0
South Fresno Viaduct	42 0226L As Builts_South Fresno Viaduct.pdf	6/7/1963	42-226 R/L	FBA0301h	B-5	26.0
South Fresno Viaduct	42 0226L As Builts_South Fresno Viaduct.pdf	6/21/1963	42-226 R/L	FBA0302h	B-17	56.0
South Fresno Viaduct	42 0226L As Builts_South Fresno Viaduct.pdf	6/20/1963	42-226 R/L	FBA0303h	B-13	27.0
South Fresno Viaduct	42 0226L As Builts_South Fresno Viaduct.pdf	6/20/1963	42-226 R/L	FBA0304h	B-16	60.0
South Fresno Viaduct	42 0226L As Builts_South Fresno Viaduct.pdf	6/20/1963	42-226 R/L	FBA0305h	B-14	6.0
South Fresno Viaduct	42 0226L As Builts_South Fresno Viaduct.pdf	6/14/1963	42-226 R/L	FBA0306h	B-9	43.0
South Fresno Viaduct	42 0226L As Builts_South Fresno Viaduct.pdf	6/20/1963	42-226 R/L	FBA0307h	B-15	13.7
South Fresno Viaduct	42 0226L As Builts_South Fresno Viaduct.pdf	6/20/1963	42-226 R/L	FBA0308h	B-12	42.0
South Fresno Viaduct	42 0226L As Builts_South Fresno Viaduct.pdf	6/18/1963	42-226 R/L	FBA0309h	B-10	70.2
South Fresno Viaduct	42 0226L As Builts_South Fresno Viaduct.pdf	6/19/1963	42-226 R/L	FBA0310h	B-11	65.0
South Fresno Viaduct	42 0226L As Builts_South Fresno Viaduct.pdf	12/11/1963	42-226 R/L	FBA0311h	B-30	121.8
South Fresno Viaduct	42 0226L As Builts_South Fresno Viaduct.pdf	6/5/1963	42-226 R/L	FBA0312h	B-1	46.4
South Fresno Viaduct	42 0226L As Builts_South Fresno Viaduct.pdf	6/5/1963	42-226 R/L	FBA0313h	B-2	27.4

Table A-1
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Report Name	File Name	Date Drilled	Caltrans Structure No.	Designated Hole ID	Original Hole ID	Hole Depth (ft)
Van Ness Avenue Undercrossing	42 0227L As Builts_Van Ness Avenue UC.pdf	12/18/1969	42-227 R/L	FBA0319h	B-1	67.1
Van Ness Avenue Undercrossing	42 0227L As Builts_Van Ness Avenue UC.pdf	12/18/1969	42-227 R/L	FBA0320h	B-2	63.3
Van Ness Avenue Undercrossing	42 0227L As Builts_Van Ness Avenue UC.pdf	12/18/1969	42-227 R/L	FBA0321h	B-3	33.3
Van Ness Avenue Undercrossing	42 0227L As Builts_Van Ness Avenue UC.pdf	12/18/1969	42-227 R/L	FBA0322h	B-4	57.7
Van Ness Avenue Undercrossing	42 0227S As Builts_Van Ness Avenue UC.pdf	10/16/1969	42-227 QR	FBA0323h	B-1 (42-227QR)	55.6
"M" Street Undercrossing	42 0228K As Builts_M-Street Undercrossing.pdf	10/10/1969	42-228 R/L & QL	FBA0324h	B-1 (42-228QL)	13.5
"M" Street Undercrossing	42 0228K As Builts_M-Street Undercrossing.pdf	10/10/1969	42-228 R/L & QL	FBA0325h	B-1A (42-228QL)	52.1
"M" Street Undercrossing	42 0228K As Builts_M-Street Undercrossing.pdf	12/19/1963	42-228 R/L & QL	FBA0326h	B-3 (42-228R/L)	45.0
"M" Street Undercrossing	42 0228K As Builts_M-Street Undercrossing.pdf	12/18/1963	42-228 R/L & QL	FBA0327h	B-1 (42-228R/L)	51.1
"M" Street Undercrossing	42 0228K As Builts_M-Street Undercrossing.pdf	12/19/1963	42-228 R/L & QL	FBA0328h	B-2 (42-228R/L)	35.3
"M" Street Undercrossing	42 0228K As Builts_M-Street Undercrossing.pdf	10/15/1969	42-228 R/L & QL	FBA0329h	B-3 (42-228QL)	51.0
"M" Street Undercrossing	42 0228K As Builts_M-Street Undercrossing.pdf	10/14/1969	42-228 R/L & QL	FBA0330h	B-2A (42-228QL)	8.8
"M" Street Undercrossing	42 0228K As Builts_M-Street Undercrossing.pdf	10/14/1969	42-228 R/L & QL	FBA0331h	B-2 (42-228QL)	8.9
Broadway On-Ramp OC & Retaining Walls 2 & 4	42 0229K As Builts_San Benito Street UC.pdf	12/17/1963	42-229	FBA0332h	B-1	69.7
Broadway On-Ramp OC & Retaining Walls 2 & 4	42 0229K As Builts_San Benito Street UC.pdf	12/17/1963	42-229	FBA0333h	B-2	40.0
Broadway On-Ramp OC & Retaining Walls 2 & 4	42 0229K As Builts_San Benito Street UC.pdf	12/17/1963	42-229	FBA0334h	B-3	45.6
Broadway On-Ramp OC & Retaining Walls 2 & 4	42 0229K As Builts_San Benito Street UC.pdf	12/17/1963	42-229	FBA0335h	B-4	35.8
Broadway On-Ramp OC & Retaining Walls 2 & 4	42 0229K As Builts_San Benito Street UC.pdf	12/18/1963	42-229	FBA0336h	B-5	65.9
North Avenue Undercrossing	42 0264L As Builts_North Avenue UC.pdf	1/7/1965	42-264R/L	FBA0337h	B-1	41.5
North Avenue Undercrossing	42 0264L As Builts_North Avenue UC.pdf	1/7/1965	42-264R/L	FBA0338h	B-2	31.1
North Avenue Undercrossing	42 0264L As Builts_North Avenue UC.pdf	1/7/1965	42-264R/L	FBA0339h	B-3	12.9
North Avenue Undercrossing	42 0264L As Builts_North Avenue UC.pdf	1/7/1965	42-264R/L	FBA0340h	B-4	5
Church Avenue Undercrossing	42 0265L As Builts_Church Avenue UC.pdf	1/7/1965	42-265 R/L	FBA0341h	B-1	40.4
Church Avenue Undercrossing	42 0265L As Builts_Church Avenue UC.pdf	1/7/1965	42-265 R/L	FBA0342h	B-2	40.4
Church Avenue Undercrossing	42 0265L As Builts_Church Avenue UC.pdf	1/7/1965	42-265 R/L	FBA0343h	B-3	5.85
Church Avenue Undercrossing	42 0265L As Builts_Church Avenue UC.pdf	1/7/1965	42-265 R/L	FBA0344h	B-4	46.42
Jensen Ave. OC	42 0268 As Builts_Jensen Avenue OC.pdf	1/7/1965	42-268	FBA0345h	B-1	49.26
Jensen Ave. OC	42 0268 As Builts_Jensen Avenue OC.pdf	1/7/1965	42-268	FBA0346h	B-2	36
Jensen Ave. OC	42 0268 As Builts_Jensen Avenue OC.pdf	1/7/1965	42-268	FBA0347h	B-3	55
Jensen Ave. OC	42 0268 As Builts_Jensen Avenue OC.pdf	1/7/1965	42-268	FBA0348h	B-4	76.2

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Report Name	File Name	Date Drilled	Caltrans Structure No.	Designated Hole ID	Original Hole ID	Hole Depth (ft)
Jensen Ave. OC	42 0268 As Builts_Jensen Avenue OC.pdf	1/7/1965	42-268	FBA0349h	B-5	56.2
Route 41/99 Separation	42 0266L As Builts_Route 41-99 Separation.pdf	1/7/1965	42-266 R/L	FBA0350h	B-1	45.26
Route 41/99 Separation	42 0266L As Builts_Route 41-99 Separation.pdf	1/7/1965	42-266 R/L	FBA0351h	B-16	38.34
Route 41/99 Separation	42 0266L As Builts_Route 41-99 Separation.pdf	1/7/1965	42-266 R/L	FBA0352h	B-3	60
Route 41/99 Separation	42 0266L As Builts_Route 41-99 Separation.pdf	1/7/1965	42-266 R/L	FBA0353h	B-20	76.7
Route 41/99 Separation	42 0266L As Builts_Route 41-99 Separation.pdf	1/7/1965	42-266 R/L	FBA0354h	B-15	50.7
Route 41/99 Separation	42 0266L As Builts_Route 41-99 Separation.pdf	1/7/1965	42-266 R/L	FBA0355h	B-2	41.3
Route 41/99 Separation	42 0266L As Builts_Route 41-99 Separation.pdf	1/7/1965	42-266 R/L	FBA0356h	B-19	35.18
Route 41/99 Separation	42 0266L As Builts_Route 41-99 Separation.pdf	1/7/1965	42-266 R/L	FBA0357h	B-7	23.12
Route 41/99 Separation	42 0266L As Builts_Route 41-99 Separation.pdf	1/7/1965	42-266 R/L	FBA0358h	B-22	81.5
Route 41/99 Separation	42 0266L As Builts_Route 41-99 Separation.pdf	1/7/1965	42-266 R/L	FBA0359h	B-17	43.48
Route 41/99 Separation	42 0266L As Builts_Route 41-99 Separation.pdf	1/7/1965	42-266 R/L	FBA0360h	B-14	20.9
Route 41/99 Separation	42 0266L As Builts_Route 41-99 Separation.pdf	1/7/1965	42-266 R/L	FBA0361h	B-8	41.6
Route 41/99 Separation	42 0266L As Builts_Route 41-99 Separation.pdf	1/7/1965	42-266 R/L	FBA0362h	B-21	76.5
Route 41/99 Separation	42 0266L As Builts_Route 41-99 Separation.pdf	1/7/1965	42-266 R/L	FBA0363h	B-6	48.7
Route 41/99 Separation	42 0266L As Builts_Route 41-99 Separation.pdf	1/7/1965	42-266 R/L	FBA0364h	B-18	61.4
Route 41/99 Separation	42 0266L As Builts_Route 41-99 Separation.pdf	1/7/1965	42-266 R/L	FBA0365h	B-11	27.1
Route 41/99 Separation	42 0266L As Builts_Route 41-99 Separation.pdf	1/7/1965	42-266 R/L	FBA0366h	B-9	28.8
Route 41/99 Separation	42 0266L As Builts_Route 41-99 Separation.pdf	1/7/1965	42-266 R/L	FBA0367h	B-23	74.5
Route 41/99 Separation	42 0266L As Builts_Route 41-99 Separation.pdf	1/7/1965	42-266 R/L	FBA0368h	B-10	69.8
Route 41/99 Separation	42 0266L As Builts_Route 41-99 Separation.pdf	1/7/1965	42-266 R/L	FBA0369h	B-13	29.2
Route 41/99 Separation	42 0266L As Builts_Route 41-99 Separation.pdf	1/7/1965	42-266 R/L	FBA0370h	B-12	33.56
Route 41/99 Separation	42 0266L As Builts_Route 41-99 Separation.pdf	1/7/1965	42-266 R/L	FBA0371h	B-5	9.9
Route 41/99 Separation	42 0266L As Builts_Route 41-99 Separation.pdf	1/7/1965	42-266 R/L	FBA0372h	B-4	34.9
Route 41/99 Separation	42 0266L As Builts_Route 41-99 Separation.pdf	1/2/1995	42-266 R/L	FBA0373h	B-24	74.3
Route 41/99 Separation	42 0266L As Builts_Route 41-99 Separation.pdf	1/2/1995	42-266 R/L	FBA0374h	B-25	88.8
Route 41/99 Separation	42 0266L As Builts_Route 41-99 Separation.pdf	1/2/1995	42-266 R/L	FBA0375h	B-26	98.57
"O" Street Undercrossing	42 0282 As Builts_O-Street Undercrossing.pdf	1/6/1970	42-282	FBA0376h	B-1	46.0
"O" Street Undercrossing	42 0282 As Builts_O-Street Undercrossing.pdf	1/5/1970	42-282	FBA0377h	B-2	37.4
"O" Street Undercrossing	42 0282 As Builts_O-Street Undercrossing.pdf	1/5/1970	42-282	FBA0378h	B-3	64.0

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Report Name	File Name	Date Drilled	Caltrans Structure No.	Designated Hole ID	Original Hole ID	Hole Depth (ft)
"O" Street Undercrossing	42 0282 As Builts_O-Street Undercrossing.pdf	1/6/1970	42-282	FBA0379h	B-4	9.8
"O" Street Undercrossing	42 0282 As Builts_O-Street Undercrossing.pdf	1/7/1970	42-282	FBA0380h	B-4A	60.0
"O" Street Undercrossing	42 0282 As Builts_O-Street Undercrossing.pdf	1/6/1970	42-282	FBA0381h	B-5	35.8
"O" Street Undercrossing	42 0282 As Builts_O-Street Undercrossing.pdf	1/6/1970	42-282	FBA0382h	B-6	45.5
"O" Street Undercrossing	42 0282 As Builts_O-Street Undercrossing.pdf	1/6/1970	42-282	FBA0383h	B-7	53.2
"O" Street Undercrossing	42 0282 As Builts_O-Street Undercrossing.pdf	1/7/1970	42-282	FBA0384h	B-8	35.8
Route 180/41 Separation	42 0288L As Builts_Route 180-41 Separation.pdf	4/8/1972	42-288K	FBA0385h	B-1	92.5
Route 180/41 Separation	42 0288L As Builts_Route 180-41 Separation.pdf	5/2/1972	42-288K	FBA0386h	B-2	32.3
Route 180/41 Separation	42 0288L As Builts_Route 180-41 Separation.pdf	5/3/1972	42-288K	FBA0387h	B-3	7.5
Route 180/41 Separation	42 0288L As Builts_Route 180-41 Separation.pdf	5/3/1972	42-288K	FBA0388h	B-4	5.5
Route 180/41 Separation	42 0288L As Builts_Route 180-41 Separation.pdf	5/3/1972	42-288K	FBA0389h	B-5	55.5
Route 180/41 Separation	42 0288L As Builts_Route 180-41 Separation.pdf	5/3/1972	42-288K	FBA0390h	B-6	47.5
Route 180/41 Separation	42 0288L As Builts_Route 180-41 Separation.pdf	5/2/1972	42-288K	FBA0391h	B-7	41.8
Route 180/41 Separation	42 0288L As Builts_Route 180-41 Separation.pdf	5/4/1972	42-288K	FBA0392h	B-8	102.0
Route 180/41 Separation	42 0288L As Builts_Route 180-41 Separation.pdf	9/12/1972	42-288K	FBA0393h	B-9	57.0
North Connector Overcrossing	42 0288L As Builts_Route 180-41 Separation.pdf	5/9/1972	42-289	FBA0394h	B-5	7.2
North Connector Overcrossing	42 0288L As Builts_Route 180-41 Separation.pdf	5/3/1972	42-289	FBA0395h	B-6	37.1
North Connector Overcrossing	42 0288L As Builts_Route 180-41 Separation.pdf	5/4/1972	42-289	FBA0396h	B-7	6.7
North Connector Overcrossing	42 0288L As Builts_Route 180-41 Separation.pdf	5/9/1972	42-289	FBA0397h	B-8	6.0
North Connector Overcrossing	42 0288L As Builts_Route 180-41 Separation.pdf	5/9/1972	42-289	FBA0398h	B-9	5.2
North Connector Overcrossing	42 0288L As Builts_Route 180-41 Separation.pdf	5/9/1972	42-289	FBA0399h	B-10	8.8
North Connector Overcrossing	42 0288L As Builts_Route 180-41 Separation.pdf	5/12/1972	42-289	FBA0400h	B-12	102.1
North Connector Overcrossing	42 0288L As Builts_Route 180-41 Separation.pdf	5/10/1972	42-289	FBA0401h	B-13	103.0
North Connector Overcrossing	42 0288L As Builts_Route 180-41 Separation.pdf	9/13/1972	42-289	FBA0402h	B-15	42.5
North Connector Overcrossing	42 0288L As Builts_Route 180-41 Separation.pdf	5/10/1972	42-289	FBA0403h	B-1	5.3
North Connector Overcrossing	42 0288L As Builts_Route 180-41 Separation.pdf	5/10/1972	42-289	FBA0404h	B-2	3.6
North Connector Overcrossing	42 0288L As Builts_Route 180-41 Separation.pdf	5/9/1972	42-289	FBA0405h	B-3	47.8
North Connector Overcrossing	42 0288L As Builts_Route 180-41 Separation.pdf	5/4/1972	42-289	FBA0406h	B-4	34.5
North Connector Overcrossing	42 0288L As Builts_Route 180-41 Separation.pdf	5/9/1972	42-289	FBA0407h	B-5	7.2
North Connector Overcrossing	42 0288L As Builts_Route 180-41 Separation.pdf	5/11/1972	42-289	FBA0408h	B-11	100.7

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Report Name	File Name	Date Drilled	Caltrans Structure No.	Designated Hole ID	Original Hole ID	Hole Depth (ft)
North Connector Overcrossing	42 0288L As Builts_Route 180-41 Separation.pdf	5/16/1972	42-289	FBA0409h	B-14	100.5
North Connector Overcrossing	42 0288L As Builts_Route 180-41 Separation.pdf	9/14/1972	42-289	FBA0410h	B-16	43.0
Route 180/41 Separation	42 0288L As Builts_Route 180-41 Separation.pdf	5/24/1995	42-288R/L	FBA0411h	B-2 (BR#42-287)	91.0
Route 180/41 Separation	42 0288L As Builts_Route 180-41 Separation.pdf	6/1/1995	42-288R/L	FBA0412h	B-7 (BR#42-290)	91.0
Ashlan Ave. Overcrossing	42 0140 As Builts_Ashlan Avenue OC.pdf	2/20/1957	42-140	FBA0674h	B-1	75.8
Ashlan Ave. Overcrossing	42 0140 As Builts_Ashlan Avenue OC.pdf	2/20/1957	42-140	FBA0675h	B-2	28.9
Ashlan Ave. Overcrossing	42 0140 As Builts_Ashlan Avenue OC.pdf	2/20/1957	42-140	FBA0676h	B-3	40.8
Ashlan Ave. Overcrossing	42 0140 As Builts_Ashlan Avenue OC.pdf	2/20/1957	42-140	FBA0677h	B-4	1.6
Ashlan Ave. Overcrossing	42 0140 As Builts_Ashlan Avenue OC.pdf	2/20/1957	42-140	FBA0678h	B-5	51.1
Ashlan Ave. Overcrossing	42 0140 As Builts_Ashlan Avenue OC.pdf	2/21/1957	42-140	FBA0679h	B-6	46.3
Ashlan Ave. Overcrossing	42 0140 As Builts_Ashlan Avenue OC.pdf	2/26/1957	42-140	FBA0680h	B-7	39.6
Dakota Overcrossing	42 0148 As Builts_SB99 on-ramp by Dakota Ave-99 SEP.pdf	2/22/1957	42-148	FBA0681h	B-1	71.8
Dakota Overcrossing	42 0148 As Builts_SB99 on-ramp by Dakota Ave-99 SEP.pdf	2/22/1957	42-148	FBA0682h	B-2	108.3
Dakota Overcrossing	42 0148 As Builts_SB99 on-ramp by Dakota Ave-99 SEP.pdf	2/25/1957	42-148	FBA0683h	B-3	46.6
Dakota Overcrossing	42 0148 As Builts_SB99 on-ramp by Dakota Ave-99 SEP.pdf	2/22/1957	42-148	FBA0684h	B-4	90.9
Dakota Overcrossing	42 0148 As Builts_SB99 on-ramp by Dakota Ave-99 SEP.pdf	2/22/1957	42-148	FBA0685h	B-5	108.4
Dakota Overcrossing	42 0148 As Builts_SB99 on-ramp by Dakota Ave-99 SEP.pdf	2/22/1957	42-148	FBA0686h	Logged Pile	23.6
Ventura Street Overcrossing	42 0158E As Builts_Ventura Street OC.pdf	11/9/1960	42-158	FBA0687h	B-1	52.0
Ventura Street Overcrossing	42 0158E As Builts_Ventura Street OC.pdf	11/10/1960	42-158	FBA0688h	B-2	51.0
Ventura Street Overcrossing	42 0158E As Builts_Ventura Street OC.pdf	11/?/1960	42-158	FBA0689h	B-3	41.0
Ventura Street Overcrossing	42 0158E As Builts_Ventura Street OC.pdf	11/10/1960	42-158	FBA0690h	B-4	30.0
Kern Street Overcrossing	42 0159 As Builts_Kern Street OC.pdf	1/25/1955	42-159	FBA0691h	B-1	29.4
Kern Street Overcrossing	42 0159 As Builts_Kern Street OC.pdf	1/25/1955	42-159	FBA0692h	B-2	35.1
Kern Street Overcrossing	42 0159 As Builts_Kern Street OC.pdf	1/25/1955	42-159	FBA0693h	B-3	30.0
Kern Street Overcrossing	42 0159 As Builts_Kern Street OC.pdf	1/26/1955	42-159	FBA0694h	B-4	29.6
Tulare Street Overcrossing	42 0169 As Builts_Tulare Street OC.pdf	1/23/1955	42-169	FBA0695h	B-1	34.2
Tulare Street Overcrossing	42 0169 As Builts_Tulare Street OC.pdf	1/25/1955	42-169	FBA0696h	B-2	41.2
Tulare Street Overcrossing	42 0169 As Builts_Tulare Street OC.pdf	1/25/1955	42-169	FBA0697h	B-3	34.3
Tulare Street Overcrossing	42 0169 As Builts_Tulare Street OC.pdf	1/27/1955	42-169	FBA0698h	B-4	40.0
Tulare Street Overcrossing	42 0169 As Builts_Tulare Street OC.pdf	1/27/1955	42-169	FBA0699h	B-5	35.1

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Summary of Available Geotechnical Data Collected from Previous Investigations

Report Name	File Name	Date Drilled	Caltrans Structure No.	Designated Hole ID	Original Hole ID	Hole Depth (ft)
Fresno Street Separation	42 0170 As Builts_Fresno Street OC.pdf	1/29/1955	42-170	FBA0700h	B-1	31.6
Fresno Street Separation	42 0170 As Builts_Fresno Street OC.pdf	1/29/1955	42-170	FBA0701h	B-2	32.5
Fresno Street Separation	42 0170 As Builts_Fresno Street OC.pdf	1/29/1955	42-170	FBA0702h	B-3	46.0
Fresno Street Separation	42 0170 As Builts_Fresno Street OC.pdf	1/29/1955	42-170	FBA0703h	B-4	35.5
Tuolumne Street Overcrossing	42 0171 As Builts_Tuolumne Street OC.pdf	1/28/1955	42-171	FBA0704h	B-1	38.7
Tuolumne Street Overcrossing	42 0171 As Builts_Tuolumne Street OC.pdf	1/28/1955	42-171	FBA0705h	B-2	39.3
Tuolumne Street Overcrossing	42 0171 As Builts_Tuolumne Street OC.pdf	1/28/1955	42-171	FBA0706h	B-3	6.8
Tuolumne Street Overcrossing	42 0171 As Builts_Tuolumne Street OC.pdf	1/28/1955	42-171	FBA0707h	B-4	19.1
Tuolumne Street Overcrossing	42 0171 As Builts_Tuolumne Street OC.pdf	1/28/1955	42-171	FBA0708h	B-5	27.2
Tuolumne Street Overcrossing	42 0171 As Builts_Tuolumne Street OC.pdf	1/28/1955	42-171	FBA0709h	B-6	40.0
Stanislaus Street Overcrossing	42 0172 As Builts_Staislaus Street OC.pdf	1/26/1955	42-172	FBA0710h	B-1	37.5
Stanislaus Street Overcrossing	42 0172 As Builts_Staislaus Street OC.pdf	1/29/1955	42-172	FBA0711h	B-2	36.7
Stanislaus Street Overcrossing	42 0172 As Builts_Staislaus Street OC.pdf	1/29/1955	42-172	FBA0712h	B-3	5.6
Stanislaus Street Overcrossing	42 0172 As Builts_Staislaus Street OC.pdf	1/31/1955	42-172	FBA0713h	B-4	39.7
Stanislaus Street Overcrossing	42 0172 As Builts_Staislaus Street OC.pdf	2/1/1955	42-172	FBA0714h	B-5	36.5
McKinley Avenue Undercrossing	42 0181 As Builts_McKinley Avenue UC.pdf	9/24/1953	42-181	FBA0715h	B-1	24.0
McKinley Avenue Undercrossing	42 0181 As Builts_McKinley Avenue UC.pdf	9/25/1953	42-181	FBA0716h	B-2	33.7
McKinley Avenue Undercrossing	42 0181 As Builts_McKinley Avenue UC.pdf	9/28/1953	42-181	FBA0717h	B-3	20.4
McKinley Avenue Undercrossing	42 0181 As Builts_McKinley Avenue UC.pdf	9/28/1953	42-181	FBA0718h	B-4	32.6
McKinley Avenue Undercrossing	42 0181 As Builts_McKinley Avenue UC.pdf	9/28/1953	42-181	FBA0719h	B-4A	29.4
McKinley Avenue Undercrossing	42 0181 As Builts_McKinley Avenue UC.pdf	9/28/1953	42-181	FBA0720h	B-5	25.3
McKinley Avenue Undercrossing	42 0181 As Builts_McKinley Avenue UC.pdf	9/29/1953	42-181	FBA0721h	B-6	30.2
McKinley Avenue Undercrossing	42 0181 As Builts_McKinley Avenue UC.pdf	9/30/1953	42-181	FBA0722h	B-7	30.0
North Fresno Undercrossing	42 0182 As Builts_SB 99 off-ramp to Motel Drive SEP.pdf	9/23/1953	42-182	FBA0723h	B-1	40.1
North Fresno Undercrossing	42 0182 As Builts_SB 99 off-ramp to Motel Drive SEP.pdf	9/23/1953	42-182	FBA0724h	B-2	75.0
North Fresno Undercrossing	42 0182 As Builts_SB 99 off-ramp to Motel Drive SEP.pdf	9/23/1953	42-182	FBA0725h	B-3	60.1
North Fresno Undercrossing	42 0182 As Builts_SB 99 off-ramp to Motel Drive SEP.pdf	9/24/1953	42-182	FBA0726h	B-4	38.7
North Fresno Undercrossing	42 0182 As Builts_SB 99 off-ramp to Motel Drive SEP.pdf	9/24/1953	42-182	FBA0727h	B-5	40.1
North Fresno Undercrossing	42 0182 As Builts_SB 99 off-ramp to Motel Drive SEP.pdf	10/6/1953	42-182	FBA0728h	B-6	85.0
Clinton Avenue Overcrossing & Fresno Yard Overcrossing	42 0183 As Builts_Clinton Avenue OC.pdf	9/21/1953	42-191	FBA0729h	B-5	34.8

Table A-1
Summary of Available Geotechnical Data Collected from Previous Investigations

Report Name	File Name	Date Drilled	Caltrans Structure No.	Designated Hole ID	Original Hole ID	Hole Depth (ft)
Clinton Avenue Overcrossing & Fresno Yard Overcrossing	42 0183 As Builts_Clinton Avenue OC.pdf	9/21/1953	42-191	FBA0730h	B-7	29.3
Clinton Avenue Overcrossing & Fresno Yard Overcrossing	42 0183 As Builts_Clinton Avenue OC.pdf	10/6/1953	42-191	FBA0731h	B-8	55.5
Clinton Avenue Overcrossing & Fresno Yard Overcrossing	42 0183 As Builts_Clinton Avenue OC.pdf	9/21/1953	42-191	FBA0732h	B-9	36.0
Clinton Avenue Overcrossing & Fresno Yard Overcrossing	42 0183 As Builts_Clinton Avenue OC.pdf	9/22/1953	42-191	FBA0733h	B-10	49.6
Clinton Avenue Overcrossing & Fresno Yard Overcrossing	42 0183 As Builts_Clinton Avenue OC.pdf	9/22/1953	42-191	FBA0734h	B-11	31.0
Clinton Avenue Overcrossing (Widen)	42 0183 As Builts_Clinton Avenue OC.pdf	3/21/1990	42-183	FBA0735h	B-1	46.2
Clinton Avenue Overcrossing (Widen)	42 0183 As Builts_Clinton Avenue OC.pdf	3/22/1990	42-183	FBA0736h	B-2	71.2
Clinton Avenue Overcrossing (Widen)	42 0183 As Builts_Clinton Avenue OC.pdf	3/22/1990	42-183	FBA0737h	B-3	41.2
Clinton Avenue Overcrossing (Widen)	42 0183 As Builts_Clinton Avenue OC.pdf	3/16/1990	42-183	FBA0738h	B-1	46.4
Clinton Avenue Overcrossing (Widen)	42 0183 As Builts_Clinton Avenue OC.pdf	3/19/1990	42-183	FBA0739h	B-2	46.4
Clinton Avenue Overcrossing (Widen)	42 0183 As Builts_Clinton Avenue OC.pdf	3/21/1990	42-183	FBA0740h	B-3	51.5
Clinton Avenue Overcrossing	42 0183 As Builts_Clinton Avenue OC.pdf	9/19/1953	42-183, 42-191	FBA0741h	B-1	26.8
Clinton Avenue Overcrossing	42 0183 As Builts_Clinton Avenue OC.pdf	9/20/1953	42-183, 42-191	FBA0742h	B-2	31.2
Clinton Avenue Overcrossing	42 0183 As Builts_Clinton Avenue OC.pdf	9/21/1953	42-183, 42-191	FBA0743h	B-3	26.8
Clinton Avenue Overcrossing	42 0183 As Builts_Clinton Avenue OC.pdf	9/21/1953	42-183, 42-191	FBA0744h	B-4	27.8
Clinton Avenue Overcrossing	42 0183 As Builts_Clinton Avenue OC.pdf	9/21/1953	42-183, 42-191	FBA0745h	B-6	36.2
Clinton Avenue Overcrossing	42 0183 As Builts_Clinton Avenue OC.pdf	9/23/1953	42-183, 42-191	FBA0746h	B-14	2.0
Clinton Avenue Overcrossing	42 0183 As Builts_Clinton Avenue OC.pdf	9/23/1953	42-183, 42-191	FBA0747h	B-15	28.6
Clinton Avenue Overcrossing	42 0183 As Builts_Clinton Avenue OC.pdf	9/23/1953	42-183, 42-191	FBA0748h	B-16	27.5
Clinton Avenue Overcrossing	42 0183 As Builts_Clinton Avenue OC.pdf	9/24/1953	42-183, 42-191	FBA0749h	B-17	45.0
Clinton Avenue Overcrossing	42 0183 As Builts_Clinton Avenue OC.pdf	10/9/1953	42-183, 42-191	FBA0750h	B-18	16.7
Clinton Avenue Overcrossing	42 0183 As Builts_Clinton Avenue OC.pdf	10/9/1953	42-183, 42-191	FBA0751h	B-19	11.6
El Dorado Street Overcrossing	42 0184 As Builts_El Dorado Street OC.pdf	10/8/1953	42-184	FBA0752h	B-1	45.3
El Dorado Street Overcrossing	42 0184 As Builts_El Dorado Street OC.pdf	10/8/1953	42-184	FBA0753h	B-2	40.1
El Dorado Street Overcrossing	42 0184 As Builts_El Dorado Street OC.pdf	10/8/1953	42-184	FBA0754h	B-3	50.1
El Dorado Street Overcrossing	42 0184 As Builts_El Dorado Street OC.pdf	10/8/1953	42-184	FBA0755h	B-4	50.0
El Dorado Street Overcrossing	42 0184 As Builts_El Dorado Street OC.pdf	10/8/1953	42-184	FBA0756h	B-5	50.2
Belmont Avenue Undercrossing	42 0186 As Builts_Belmont Avenue OC.pdf	9/9/1953	42-186	FBA0757h	B-1	15.7
Belmont Avenue Undercrossing	42 0186 As Builts_Belmont Avenue OC.pdf	9/9/1953	42-186	FBA0758h	B-2	15.1
Belmont Avenue Undercrossing	42 0186 As Builts_Belmont Avenue OC.pdf	9/10/1953	42-186	FBA0759h	B-3	66.7

Table A-1
Summary of Available Geotechnical Data Collected from Previous Investigations

Report Name	File Name	Date Drilled	Caltrans Structure No.	Designated Hole ID	Original Hole ID	Hole Depth (ft)
Belmont Avenue Undercrossing	42 0186 As Builts_Belmont Avenue OC.pdf	9/11/1953	42-186	FBA0760h	B-4	40.6
Belmont Avenue Undercrossing	42 0186 As Builts_Belmont Avenue OC.pdf	9/15/1953	42-186	FBA0761h	B-5	34.8
Olive Avenue Overcrossing - Widening	42 0187 As Builts_Olive Avenue OC.pdf	9/10/1953	42-187	FBA0762h	B-1	60.0
Olive Avenue Overcrossing - Widening	42 0187 As Builts_Olive Avenue OC.pdf	9/17/1953	42-187	FBA0763h	B-2	2.5
Olive Avenue Overcrossing - Widening	42 0187 As Builts_Olive Avenue OC.pdf	9/17/1953	42-187	FBA0764h	B-3	23.8
Olive Avenue Overcrossing - Widening	42 0187 As Builts_Olive Avenue OC.pdf	9/17/1953	42-187	FBA0765h	B-4	30.5
Olive Avenue Overcrossing - Widening	42 0187 As Builts_Olive Avenue OC.pdf	9/18/1953	42-187	FBA0766h	B-5	36.7
Nielsen Avenue Undercrossing	42 0188 As Builts_Nielsen Avenue UC.pdf	6/18/1975	42-188 R/L	FBA0767h	B-1	71.8
Nielsen Avenue Undercrossing	42 0188 As Builts_Nielsen Avenue UC.pdf	6/19/1975	42-188 R/L	FBA0768h	B-2	71.9
Nielsen Avenue Undercrossing	42 0188 As Builts_Nielsen Avenue UC.pdf	6/24/1975	42-188 R/L	FBA0769h	B-3	70.8
Nielsen Avenue Undercrossing	42 0188 As Builts_Nielsen Avenue UC.pdf	2/21/1975	42-188 R/L	FBA0770h	B-4	41.3
Nielsen Avenue Undercrossing (Widen)	42 0188 As Builts_Nielsen Avenue UC.pdf	10/31/1989	42-188R	FBA0771h	B-1	46.9
Nielsen Avenue Undercrossing (Widen)	42 0188 As Builts_Nielsen Avenue UC.pdf	10/31/1989	42-188R	FBA0772h	B-2	21.5
Nielsen Avenue Undercrossing (Widen)	42 0188 As Builts_Nielsen Avenue UC.pdf	11/1/1989	42-188R	FBA0773h	B-3	41.7
Nielsen Avenue Undercrossing	42 0188 As Builts_Nielsen Avenue UC.pdf	9/29/1953	42-188	FBA0774h	B-1	42.3
Nielsen Avenue Undercrossing	42 0188 As Builts_Nielsen Avenue UC.pdf	9/29/1953	42-188	FBA0775h	B-2	40.5
Nielsen Avenue Undercrossing	42 0188 As Builts_Nielsen Avenue UC.pdf	9/29/1953	42-188	FBA0776h	B-3	4.5
Nielsen Avenue Undercrossing	42 0188 As Builts_Nielsen Avenue UC.pdf	9/30/1953	42-188	FBA0777h	B-4	7.3
Nielsen Avenue Undercrossing	42 0188 As Builts_Nielsen Avenue UC.pdf	9/30/1953	42-188	FBA0778h	B-5	30.4
Nielsen Avenue Undercrossing	42 0188 As Builts_Nielsen Avenue UC.pdf	9/30/1953	42-188	FBA0779h	B-6	8.5
Nielsen Avenue Undercrossing	42 0188 As Builts_Nielsen Avenue UC.pdf	9/30/1953	42-188	FBA0780h	B-7	6.3
Nielsen Avenue Undercrossing	42 0188 As Builts_Nielsen Avenue UC.pdf	9/30/1953	42-188	FBA0781h	B-8	25.0
Nielsen Avenue Undercrossing	42 0188 As Builts_Nielsen Avenue UC.pdf	10/30/1953	42-188	FBA0782h	B-9	12.3
Nielsen Avenue Undercrossing	42 0188 As Builts_Nielsen Avenue UC.pdf	10/6/1953	42-188	FBA0783h	B-10	9.1
Nielsen Avenue Undercrossing	42 0188 As Builts_Nielsen Avenue UC.pdf	10/7/1953	42-188	FBA0784h	B-11	6.5
Nielsen Avenue Undercrossing	42 0188 As Builts_Nielsen Avenue UC.pdf	10/7/1953	42-188	FBA0785h	B-12	9.3
Pacific Avenue Overcrossing	42 0189 As Builts_Pacific Avenue OC.pdf	9/15/1953	42-189	FBA0786h	B-1	8.7
Pacific Avenue Overcrossing	42 0189 As Builts_Pacific Avenue OC.pdf	9/15/1953	42-189	FBA0787h	B-2	25.3
Pacific Avenue Overcrossing	42 0189 As Builts_Pacific Avenue OC.pdf	9/16/1953	42-189	FBA0788h	B-3	37.2
Pacific Avenue Overcrossing	42 0189 As Builts_Pacific Avenue OC.pdf	9/16/1953	42-189	FBA0789h	B-4	35.0

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Report Name	File Name	Date Drilled	Caltrans Structure No.	Designated Hole ID	Original Hole ID	Hole Depth (ft)
Pacific Avenue Overcrossing	42 0189 As Builts_Pacific Avenue OC.pdf	9/17/1953	42-189	FBA0790h	B-5	35.0
Kerman Branch Underpass	42 0190 As Builts_Kerman Branch UP.pdf	9/10/1953	42-190	FBA0791h	B-1	21.8
Kerman Branch Underpass	42 0190 As Builts_Kerman Branch UP.pdf	9/11/1953	42-190	FBA0792h	B-2	24.0
Kerman Branch Underpass	42 0190 As Builts_Kerman Branch UP.pdf	9/15/1953	42-190	FBA0793h	B-3	29.8
Kerman Branch Underpass	42 0190 As Builts_Kerman Branch UP.pdf	9/15/1953	42-190	FBA0794h	B-4	42.9
Kerman Branch Underpass	42 0190 As Builts_Kerman Branch UP.pdf	9/17/1953	42-190	FBA0795h	B-5	50.5
Central Avenue Overcrossing	42 0207 As Builts_Central Avenue OC.pdf	1/10/1959	42-207	FBA0809h	B-1	56.1
Central Avenue Overcrossing	42 0207 As Builts_Central Avenue OC.pdf	1/10/1959	42-207	FBA0810h	B-2	43.6
Central Avenue Overcrossing	42 0207 As Builts_Central Avenue OC.pdf	1/10/1959	42-207	FBA0811h	B-3	4.6
Central Avenue Overcrossing	42 0207 As Builts_Central Avenue OC.pdf	1/10/1959	42-207	FBA0812h	B-4	40
Central Avenue Overcrossing	42 0207 As Builts_Central Avenue OC.pdf	1/10/1959	42-207	FBA0813h	B-5	7.7
Central Avenue Overcrossing	42 0207 As Builts_Central Avenue OC.pdf	1/10/1959	42-207	FBA0814h	B-6	52.5
South Calwa Overhead	42 0208L As Builts_South Calwa OH.pdf	1/10/1959	42-208 R/L	FBA0815h	B-1	51.8
South Calwa Overhead	42 0208L As Builts_South Calwa OH.pdf	1/10/1959	42-208 R/L	FBA0816h	B-2	54.2
South Calwa Overhead	42 0208L As Builts_South Calwa OH.pdf	1/10/1959	42-208 R/L	FBA0817h	B-3	15.8
South Calwa Overhead	42 0208L As Builts_South Calwa OH.pdf	1/10/1959	42-208 R/L	FBA0818h	B-4	57.4
South Calwa Overhead	42 0208L As Builts_South Calwa OH.pdf	1/10/1959	42-208 R/L	FBA0819h	B-5	59.6
South Calwa Overhead	42 0208L As Builts_South Calwa OH.pdf	1/10/1959	42-208 R/L	FBA0820h	B-6	16.4
South Calwa Overhead	42 0208L As Builts_South Calwa OH.pdf	1/10/1959	42-208 R/L	FBA0821h	B-7	56.9
Cedar Avenue Overcrossing	42 0209 As Builts_Cedar Avenue OC.pdf	1/10/1959	42-209	FBA0822h	B-1	56.5
Cedar Avenue Overcrossing	42 0209 As Builts_Cedar Avenue OC.pdf	1/10/1959	42-209	FBA0823h	B-2	43
Cedar Avenue Overcrossing	42 0209 As Builts_Cedar Avenue OC.pdf	1/10/1959	42-209	FBA0824h	B-3	50
Cedar Avenue Overcrossing	42 0209 As Builts_Cedar Avenue OC.pdf	1/10/1959	42-209	FBA0825h	B-4	56.4
Cedar Avenue Overcrossing	42 0209 As Builts_Cedar Avenue OC.pdf	1/10/1959	42-209	FBA0826h	B-5	45
Cedar Avenue Overcrossing	42 0209 As Builts_Cedar Avenue OC.pdf	1/10/1959	42-209	FBA0827h	B-6	20
North Avenue Overcrossing	42 0210 As Builts_North Avenue OC.pdf	1/10/1959	42-210	FBA0828h	B-1	48.4
North Avenue Overcrossing	42 0210 As Builts_North Avenue OC.pdf	1/10/1959	42-210	FBA0829h	B-2	55.8
North Avenue Overcrossing	42 0210 As Builts_North Avenue OC.pdf	1/10/1959	42-210	FBA0830h	B-3	41.8
North Avenue Overcrossing	42 0210 As Builts_North Avenue OC.pdf	1/10/1959	42-210	FBA0831h	B-4	45
North Avenue Overcrossing	42 0210 As Builts_North Avenue OC.pdf	1/10/1959	42-210	FBA0832h	B-5	47.5

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Report Name	File Name	Date Drilled	Caltrans Structure No.	Designated Hole ID	Original Hole ID	Hole Depth (ft)
Orange Avenue Overcrossing	42 0211 As Builts_Orange Avenue OC.pdf	1/10/1959	42-211	FBA0833h	B-1	47.4
Orange Avenue Overcrossing	42 0211 As Builts_Orange Avenue OC.pdf	1/10/1959	42-211	FBA0834h	B-2	52
Orange Avenue Overcrossing	42 0211 As Builts_Orange Avenue OC.pdf	1/10/1959	42-211	FBA0835h	B-3	8.3
Orange Avenue Overcrossing	42 0211 As Builts_Orange Avenue OC.pdf	1/10/1959	42-211	FBA0836h	B-4	31.7
Orange Avenue Overcrossing	42 0211 As Builts_Orange Avenue OC.pdf	1/10/1959	42-211	FBA0837h	B-5	7.5
Orange Avenue Overcrossing	42 0211 As Builts_Orange Avenue OC.pdf	1/10/1959	42-211	FBA0838h	B-6	8.3
West Calwa Spur Underpass	42 0212 As Builts_West Calwa UP.pdf	1/10/1959	42-212	FBA0839h	B-1	67
West Calwa Spur Underpass	42 0212 As Builts_West Calwa UP.pdf	1/10/1959	42-212	FBA0840h	B-2	66.6
West Calwa Spur Underpass	42 0212 As Builts_West Calwa UP.pdf	1/10/1959	42-212	FBA0841h	B-3	66.2
Jensen Ave Undercrossing	42 0213 As Builts_Jensen Avenue UC.pdf	1/10/1959	42-213	FBA0842h	B-1	52.9
Jensen Ave Undercrossing	42 0213 As Builts_Jensen Avenue UC.pdf	1/10/1959	42-213	FBA0843h	B-2	52
Jensen Ave Undercrossing	42 0213 As Builts_Jensen Avenue UC.pdf	1/10/1959	42-213	FBA0844h	B-3	11.6
Jensen Ave Undercrossing	42 0213 As Builts_Jensen Avenue UC.pdf	1/10/1959	42-213	FBA0845h	B-4	53.8
Jensen Ave Undercrossing	42 0213 As Builts_Jensen Avenue UC.pdf	1/10/1959	42-213	FBA0846h	B-5	62.5
Jensen Ave Undercrossing	42 0213 As Builts_Jensen Avenue UC.pdf	1/10/1959	42-213	FBA0847h	B-6	19.5
Jensen Ave Undercrossing	42 0213 As Builts_Jensen Avenue UC.pdf	1/10/1959	42-213	FBA0848h	B-7	9.1
Jensen Ave Undercrossing	42 0213 As Builts_Jensen Avenue UC.pdf	1/10/1959	42-213	FBA0849h	B-8	9.5
Jensen Ave Undercrossing	42 0213 As Builts_Jensen Avenue UC.pdf	1/10/1959	42-213	FBA0850h	B-9	11.4
Church Avenue Overcrossing	42 0214 As Builts_Church Avenue OC.pdf	1/10/1959	42-214	FBA0851h	B-1	52
Church Avenue Overcrossing	42 0214 As Builts_Church Avenue OC.pdf	1/10/1959	42-214	FBA0852h	B-2	7.3
Church Avenue Overcrossing	42 0214 As Builts_Church Avenue OC.pdf	1/10/1959	42-214	FBA0853h	B-3	56.8
Cosmos Playground Pedestrian O.C.	42 0215 As Builts_Cosmos Playground POC.pdf	1/10/1960	42-215	FBA0854h	B-1	61.9
Cosmos Playground Pedestrian O.C.	42 0215 As Builts_Cosmos Playground POC.pdf	1/10/1960	42-215	FBA0855h	B-2	51.5
Cosmos Playground Pedestrian O.C.	42 0215 As Builts_Cosmos Playground POC.pdf	1/10/1960	42-215	FBA0856h	B-3	56.5
Cosmos Playground Pedestrian O.C.	42 0215 As Builts_Cosmos Playground POC.pdf	1/10/1960	42-215	FBA0857h	B-4	51.8
Cosmos Playground Pedestrian O.C.	42 0215 As Builts_Cosmos Playground POC.pdf	1/10/1960	42-215	FBA0858h	B-5	31.7
Cosmos Playground Pedestrian O.C.	42 0215 As Builts_Cosmos Playground POC.pdf	1/10/1960	42-215	FBA0859h	B-6	56.5
Route 99 On-Ramp Overcrossing	42 0216F As Builts_S41-S99 Connector Separation.pdf	1/10/1960	42-216	FBA0860h	B-1	46.5
Route 99 On-Ramp Overcrossing	42 0216F As Builts_S41-S99 Connector Separation.pdf	1/10/1960	42-216	FBA0861h	B-2	66.5
Route 99 On-Ramp Overcrossing	42 0216F As Builts_S41-S99 Connector Separation.pdf	1/10/1960	42-216	FBA0862h	B-3	29.5

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Report Name	File Name	Date Drilled	Caltrans Structure No.	Designated Hole ID	Original Hole ID	Hole Depth (ft)
Route 99 On-Ramp Overcrossing	42 0216F As Builts_S41-S99 Connector Separation.pdf	1/10/1960	42-216	FBA0863h	B-4	51.5
Route 99 On-Ramp Overcrossing	42 0216F As Builts_S41-S99 Connector Separation.pdf	1/10/1960	42-216	FBA0864h	B-5	37.7
Route 99 On-Ramp Overcrossing	42 0216F As Builts_S41-S99 Connector Separation.pdf	1/10/1960	42-216	FBA0865h	B-6	26.5
California Avenue Overcrossing	42 0217 As Builts_California Avenue OC.pdf	1/11/1960	42-217	FBA0866h	B-1	51
California Avenue Overcrossing	43 0217 As Builts_California Avenue OC.pdf	1/11/1960	42-217	FBA0867h	B-2	49
California Avenue Overcrossing	44 0217 As Builts_California Avenue OC.pdf	1/11/1960	42-217	FBA0868h	B-3	46.5
California Avenue Overcrossing	45 0217 As Builts_California Avenue OC.pdf	1/11/1960	42-217	FBA0869h	B-4	51.5
Route 99 Off-Ramp Overcrossing	42 0218K As Builts_Route 99 SB off-ramp-Route 99 Separation	11/8/1960	42-218	FBA0870h	B-1	51.5
Route 99 Off-Ramp Overcrossing	42 0218K As Builts_Route 99 SB off-ramp-Route 99 Separation	11/8/1960	42-218	FBA0871h	B-2	46.5
Route 99 Off-Ramp Overcrossing	42 0218K As Builts_Route 99 SB off-ramp-Route 99 Separation	11/8/1960	42-218	FBA0872h	B-3	51.5
E180-N99 Connector Separation	42 0299G As Builts_E180-N99-99 Connector OC.pdf	6/18/1997	42-299G	FBA0873h	R7B-2	51.5
E180-N99 Connector Separation	42 0299G As Builts_E180-N99-99 Connector OC.pdf	6/24/1997	42-299G	FBA0874h	R7B-3	81.4
E180-N99 Connector Separation	42 0299G As Builts_E180-N99-99 Connector OC.pdf	6/18/1997	42-299G	FBA0875h	R7B-4	50.6
Route 180/99 Separation	42 0299L As Builts_Route 180-99 Separation.pdf	7/8/1997	42-299 L/R	FBA0876h	GSB-1	55.4
Route 180/99 Separation	42 0299L As Builts_Route 180-99 Separation.pdf	6/30/1997	42-299 L/R	FBA0877h	GSB-2	81.4
Route 180/99 Separation	42 0299L As Builts_Route 180-99 Separation.pdf	6/18/1997	42-299 L/R	FBA0878h	GSB-3	56.4
East Connector Overcrossing	42 0311F As Builts_S99-E180, E180-S99, 99, N99-W180SEP.pdf	7/1/1975	42-311	FBA0879h	B-3	71.5
East Connector Overcrossing	42 0311F As Builts_S99-E180, E180-S99, 99, N99-W180SEP.pdf	10/21/1975	42-311	FBA0880h	B-4	71.0
East Connector Overcrossing	42 0311F As Builts_S99-E180, E180-S99, 99, N99-W180SEP.pdf	10/22/1975	42-311	FBA0881h	B-5	70.5
East Connector Overcrossing	42 0311F As Builts_S99-E180, E180-S99, 99, N99-W180SEP.pdf	11/29/1989	42-311	FBA0882h	B-2	41.5
East Connector Overcrossing	42 0311F As Builts_S99-E180, E180-S99, 99, N99-W180SEP.pdf	3/28/1990	42-311	FBA0883h	B-6	47.0
East Connector Overcrossing	42 0311F As Builts_S99-E180, E180-S99, 99, N99-W180SEP.pdf	5/1/1990	42-311	FBA0884h	B-7	67.2
East Connector Overcrossing	42 0311F As Builts_S99-E180, E180-S99, 99, N99-W180SEP.pdf	11/29/1989	42-311	FBA0885h	B-1	81.7
East Connector Overcrossing	42 0311F As Builts_S99-E180, E180-S99, 99, N99-W180SEP.pdf	11/30/1989	42-311	FBA0886h	B-3	46.7
East Connector Overcrossing	42 0311F As Builts_S99-E180, E180-S99, 99, N99-W180SEP.pdf	11/30/1989	42-311	FBA0887h	B-4	81.5
East Connector Overcrossing	42 0311F As Builts_S99-E180, E180-S99, 99, N99-W180SEP.pdf	3/20/1990	42-311	FBA0888h	B-5	92.0
East Connector Overcrossing	42 0311F As Builts_S99-E180, E180-S99, 99, N99-W180SEP.pdf	6/26/1975	42-311	FBA0889h	B-1	71.3
East Connector Overcrossing	42 0311F As Builts_S99-E180, E180-S99, 99, N99-W180SEP.pdf	6/25/1975	42-311	FBA0890h	B-2	71.5
East Connector Overcrossing	42 0311F As Builts_S99-E180, E180-S99, 99, N99-W180SEP.pdf	7/23/1975	42-311	FBA0891h	B-6	71.3
East Connector Overcrossing	42 0311F As Builts_S99-E180, E180-S99, 99, N99-W180SEP.pdf	3/27/1990	42-311	FBA0892h	B-7	16.8

Table A-1
Summary of Available Geotechnical Data Collected from Previous Investigations

Report Name	File Name	Date Drilled	Caltrans Structure No.	Designated Hole ID	Original Hole ID	Hole Depth (ft)
N99-W180 Connector Undercrossing	42 0312L As Builts_E180 N99-W180 Connector UC.pdf	6/17/1997	42-312L/R	FBA0893h	WCB-1	55.6
N99-W180 Connector Undercrossing	42 0312L As Builts_E180 N99-W180 Connector UC.pdf	6/17/1997	42-312L/R	FBA0894h	WCB-2	51.5
N99-W180 Connector Undercrossing	42 0312L As Builts_E180 N99-W180 Connector UC.pdf	6/17/1997	42-312L/R	FBA0895h	WCB-3	56.3
N99-W180 Connector Undercrossing	42 0312L As Builts_E180 N99-W180 Connector UC.pdf	6/17/1997	42-312L/R	FBA0896h	WCB-4	51.3
E180-N99 Connector Overcrossings	42 0391G As Builts_E180-N99 S99-E180 Connector OC.pdf	6/19/1997	42-391G	FBA0897h	ECB-1	51.6
E180-N99 Connector Overcrossings	42 0391G As Builts_E180-N99 S99-E180 Connector OC.pdf	6/24/1997	42-391G	FBA0898h	ECB-2	51.5
E180-N99 Connector Overcrossings	42 0391G As Builts_E180-N99 S99-E180 Connector OC.pdf	6/20/1997	42-391G	FBA0899h	ECB-3	56.5
E180-N99 Connector Overcrossings	42 0391G As Builts_E180-N99 S99-E180 Connector OC.pdf	6/20/1997	42-391G	FBA0900h	ECB-4	56.0
E180-N99 Connector Overcrossings	42 0391G As Builts_E180-N99 S99-E180 Connector OC.pdf	6/24/1997	42-391G	FBA0901h	R3B-1	50.7
E180-N99 Connector Overcrossings	42 0391G As Builts_E180-N99 S99-E180 Connector OC.pdf	6/20/1997	42-391G	FBA0902h	R7B-1	51.5
N99-W180 Connector Separation	42 0393G As Builts_N99-W180 S99-E180, 99, E180-N99 Connector SEP.pdf	6/26/1997	42-393G	FBA0903h	R1B-4	81.7
N99-W180 Connector Separation	42 0393G As Builts_N99-W180 S99-E180, 99, E180-N99 Connector SEP.pdf	6/19/1997	42-393G	FBA0904h	R1B-5	51.2
N99-W180 Connector Separation	42 0393G As Builts_N99-W180 S99-E180, 99, E180-N99 Connector SEP.pdf	6/19/1997	42-393G	FBA0905h	R1B-1	52.0
N99-W180 Connector Separation	42 0393G As Builts_N99-W180 S99-E180, 99, E180-N99 Connector SEP.pdf	6/26/1997	42-393G	FBA0906h	R1B-2	81.7
N99-W180 Connector Separation	42 0393G As Builts_N99-W180 S99-E180, 99, E180-N99 Connector SEP.pdf	6/23/1997	42-393G	FBA0907h	R1B-3	81.7
H St Overcrossing	42 313RL As Builts H St Overhead.PDF	4/22/1975	42-314RL	FBA0908h	B-3-H	70.0
H St Overcrossing	42 313RL As Builts H St Overhead.PDF	4/24/1975	42-314RL	FBA0909h	B-8-H	70.0
G St Overcrossing	42 314RL As Builts G St Overcrossing	6/30/1992	42-313 R/L	FBA0910h	B-4-G	75.0
G St Overcrossing	42 314RL As Builts G St Overcrossing	1/30/1975	42-313 R/L	FBA0911h	B-6-G	60.0
H St Overcrossing	42 313RL As Builts H St Overhead.PDF	4/23/1975	42-314RL	FBA0912h	B-4-H	70.0
H St Overcrossing	42 313RL As Builts H St Overhead.PDF	2/4/1975	42-314RL	FBA0913h	B-2-H	70.0
H St Overcrossing	42 313RL As Builts H St Overhead.PDF	2/19/1975	42-314RL	FBA0914h	B-9-H	40.0
H St Overcrossing	42 313RL As Builts H St Overhead.PDF	2/11/1975	42-314RL	FBA0915h	B-5-H	70.0
H St Overcrossing	42 313RL As Builts H St Overhead.PDF	2/12/1975	42-314RL	FBA0916h	B-7-H	70.0
G St Overcrossing	42 314RL As Builts G St Overcrossing	1/28/1975	42-313R/L	FBA0917h	B-1-G	65.0
G St Overcrossing	42 314RL As Builts G St Overcrossing	1/28/1975	42-313R/L	FBA0918h	B-2-G	10.0
G St Overcrossing	42 314RL As Builts G St Overcrossing	5/3/1990	42-313R/L	FBA0919h	B-7-G	45.0
G St Overcrossing	42 314RL As Builts G St Overcrossing	1/29/1975	42-313R/L	FBA0920h	B-5-G	70.0
G St Overcrossing	42 314RL As Builts G St Overcrossing	1/29/1975	42-313R/L	FBA0921h	B-3-G	40.0
American Avenue Overcrossing	42 0205 As Builts_American Avenue OC.pdf	1/10/1959	42-205	FBB0796h	B-1	75.1

Table A-1
Summary of Available Geotechnical Data Collected from Previous Investigations

Report Name	File Name	Date Drilled	Caltrans Structure No.	Designated Hole ID	Original Hole ID	Hole Depth (ft)
American Avenue Overcrossing	42 0205 As Builts_American Avenue OC.pdf	1/10/1959	42-205	FBB0797h	B-2	52.2
American Avenue Overcrossing	42 0205 As Builts_American Avenue OC.pdf	1/10/1959	42-205	FBB0798h	B-3	53.5
American Avenue Overcrossing	42 0205 As Builts_American Avenue OC.pdf	1/10/1959	42-205	FBB0799h	B-4	46.4
American Avenue Overcrossing	42 0205 As Builts_American Avenue OC.pdf	1/10/1959	42-205	FBB0800h	B-5	55.2
Chestnut Avenue Overcrossing	42 0206 As Builts_Chestnut Avenue OC.pdf	1/10/1959	42-206	FBB0801h	B-1	50
Chestnut Avenue Overcrossing	42 0206 As Builts_Chestnut Avenue OC.pdf	1/10/1959	42-206	FBB0802h	B-2	11.3
Chestnut Avenue Overcrossing	42 0206 As Builts_Chestnut Avenue OC.pdf	1/10/1959	42-206	FBB0803h	B-3	60.1
Chestnut Avenue Overcrossing	42 0206 As Builts_Chestnut Avenue OC.pdf	1/10/1959	42-206	FBB0804h	B-4	10.6
Chestnut Avenue Overcrossing	42 0206 As Builts_Chestnut Avenue OC.pdf	1/10/1959	42-206	FBB0805h	B-5	12.3
Chestnut Avenue Overcrossing	42 0206 As Builts_Chestnut Avenue OC.pdf	1/10/1959	42-206	FBB0806h	B-6	75.2
Chestnut Avenue Overcrossing	42 0206 As Builts_Chestnut Avenue OC.pdf	1/10/1959	42-206	FBB0807h	B-7	11.5
Chestnut Avenue Overcrossing	42 0206 As Builts_Chestnut Avenue OC.pdf	1/10/1959	42-206	FBB0808h	B-8	65.4

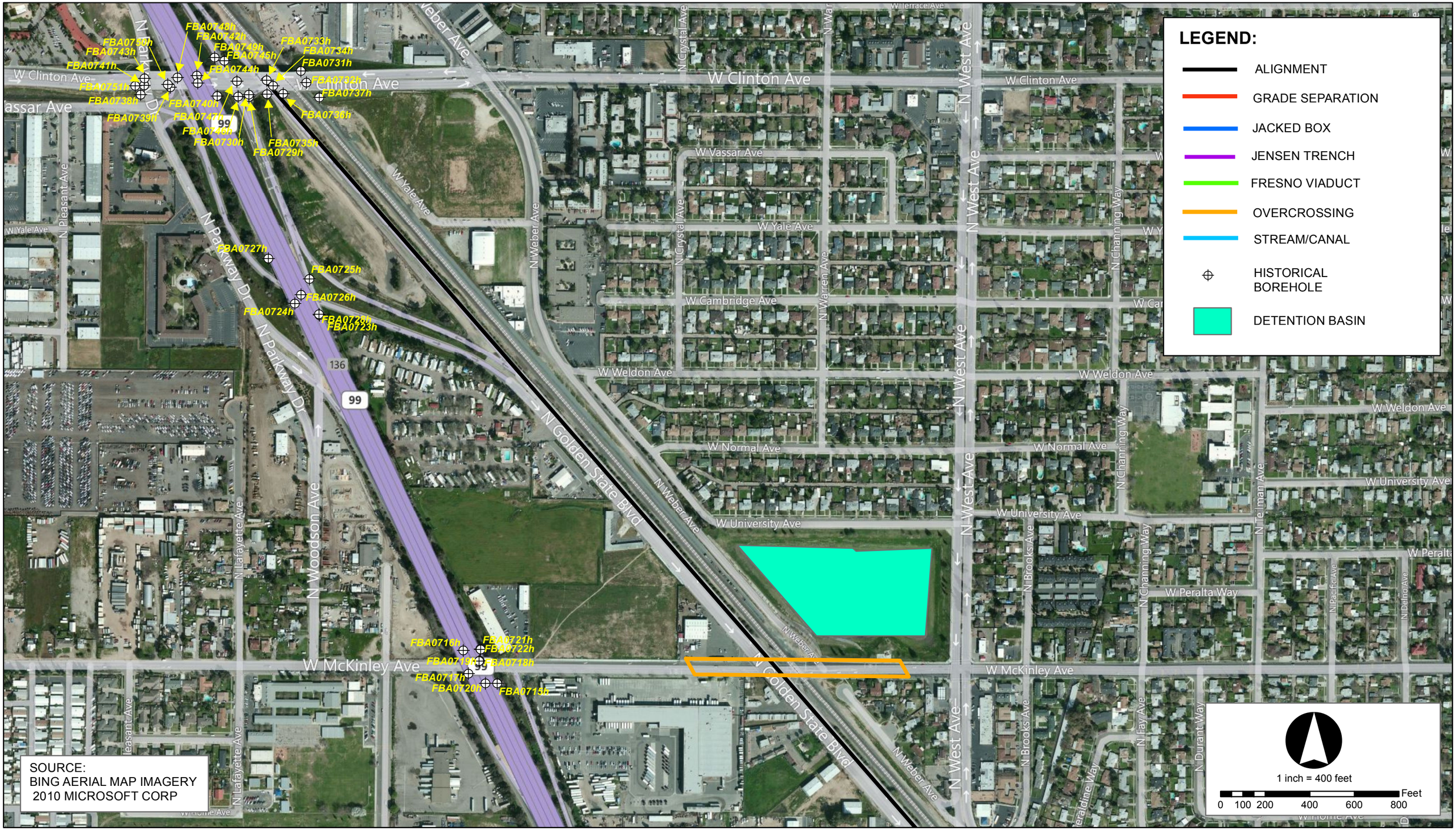


AVAILABLE GEOTECHNICAL DATA FROM PREVIOUS INVESTIGATIONS
California High Speed Train
Fresno to Bakersfield
Geotechnical Data Report - Package 1

Figure No. A1
February 2012

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA
High-Speed Rail Authority

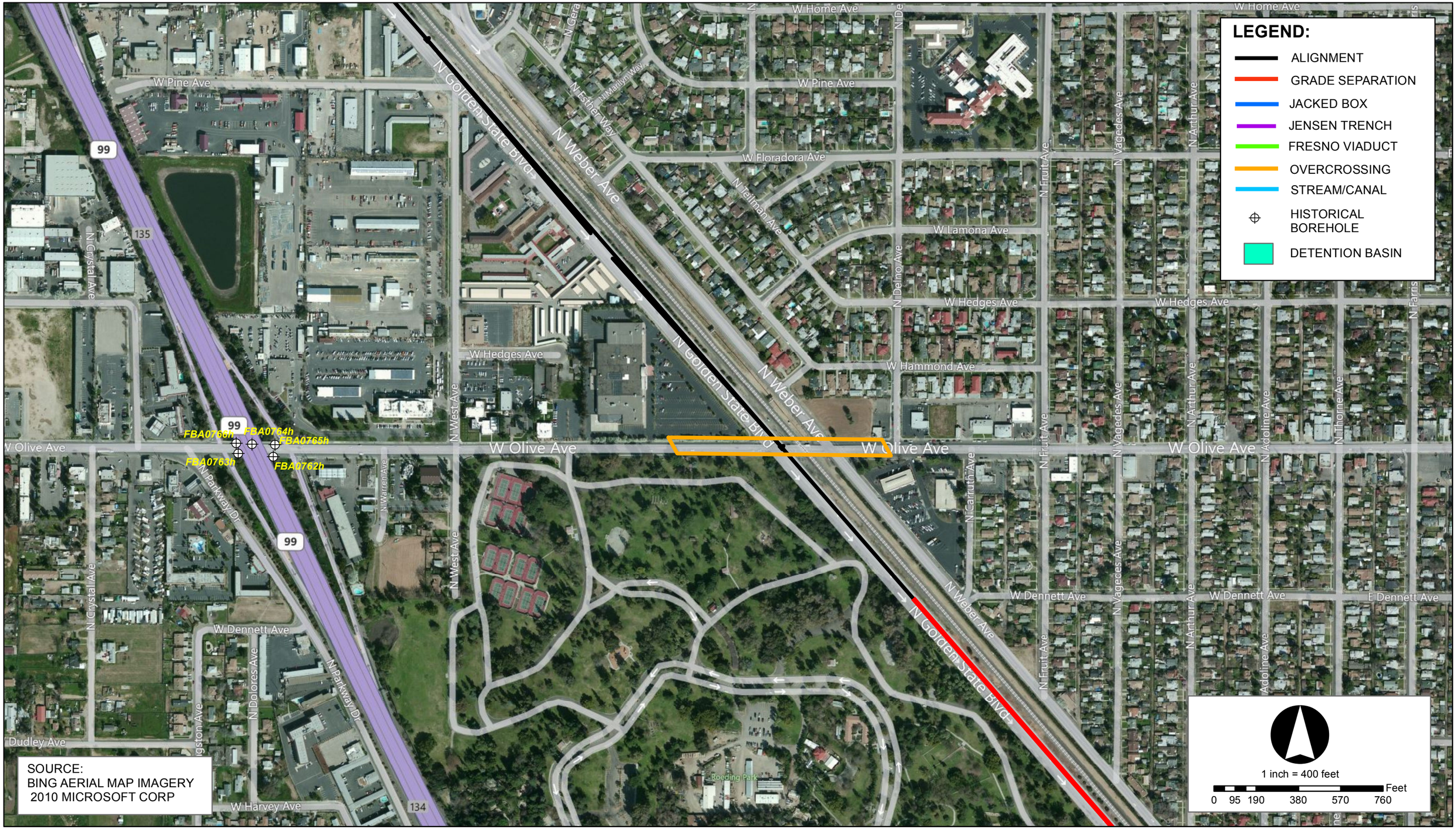


AVAILABLE GEOTECHNICAL DATA FROM PREVIOUS INVESTIGATIONS
California High Speed Train
Fresno to Bakersfield
Geotechnical Data Report - Package 1

Figure No. A2
February 2012

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA
High-Speed Rail Authority

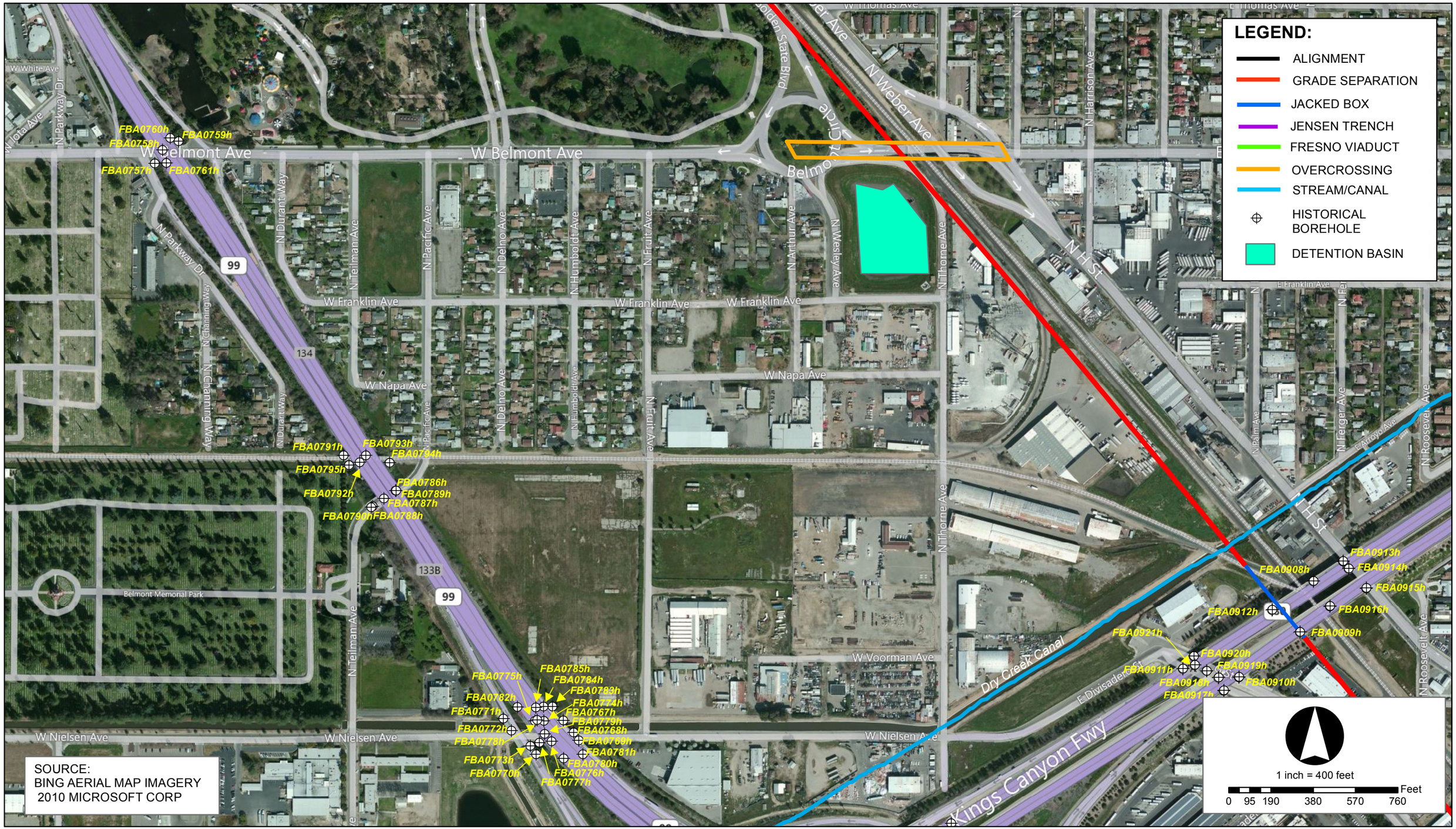


AVAILABLE GEOTECHNICAL DATA FROM PREVIOUS INVESTIGATIONS
California High Speed Train
Fresno to Bakersfield
Geotechnical Data Report - Package 1

Figure No. A3
February 2012

URS | HMM | ARUP
California High-Speed Train

CALIFORNIA
High-Speed Rail Authority

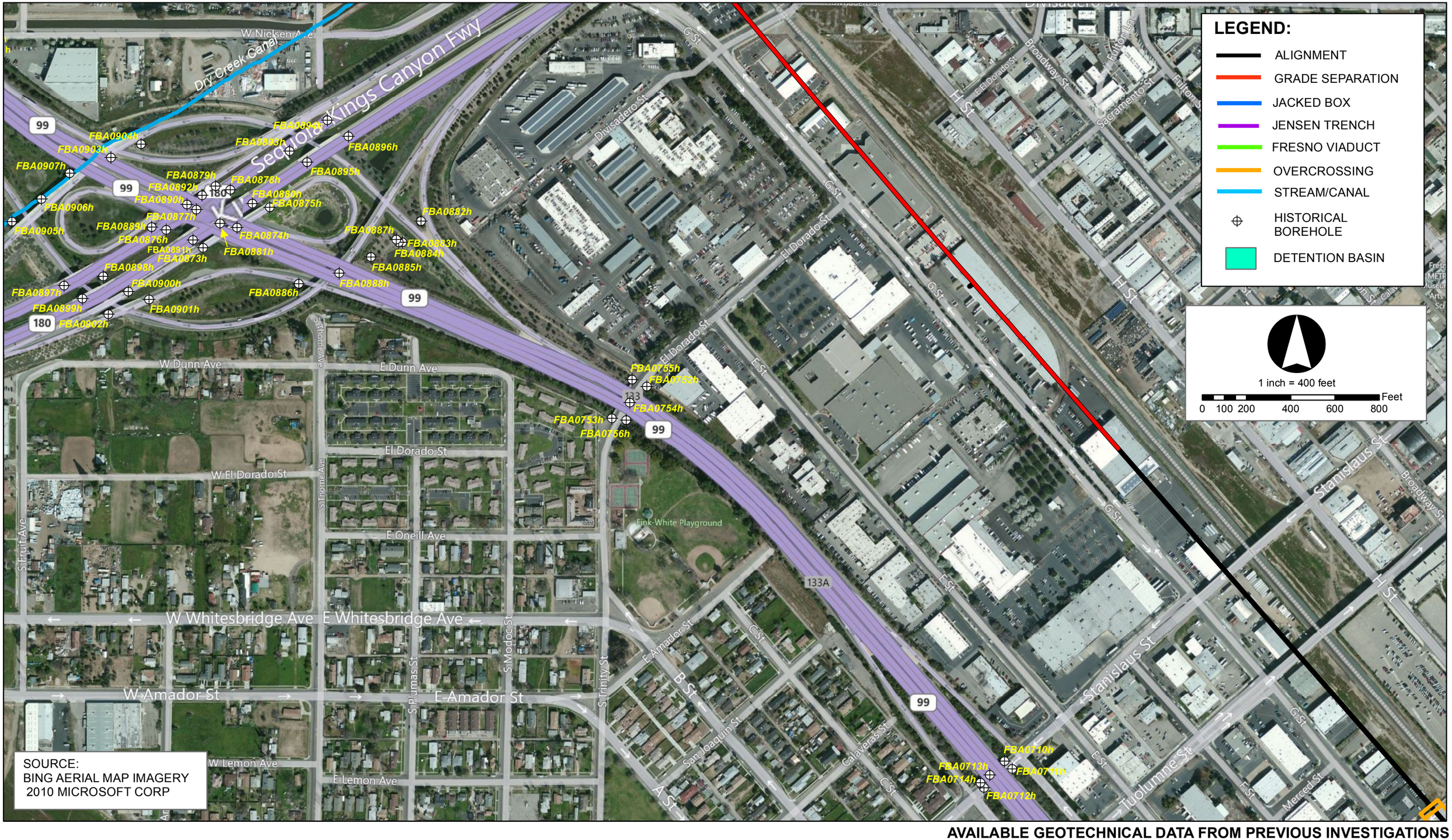


AVAILABLE GEOTECHNICAL DATA FROM PREVIOUS INVESTIGATIONS
California High Speed Train
Fresno to Bakersfield
Geotechnical Data Report - Package 1

Figure No. A4
February 2012

URS | HMM | ARUP
California High-Speed Train

CALIFORNIA
High-Speed Rail Authority

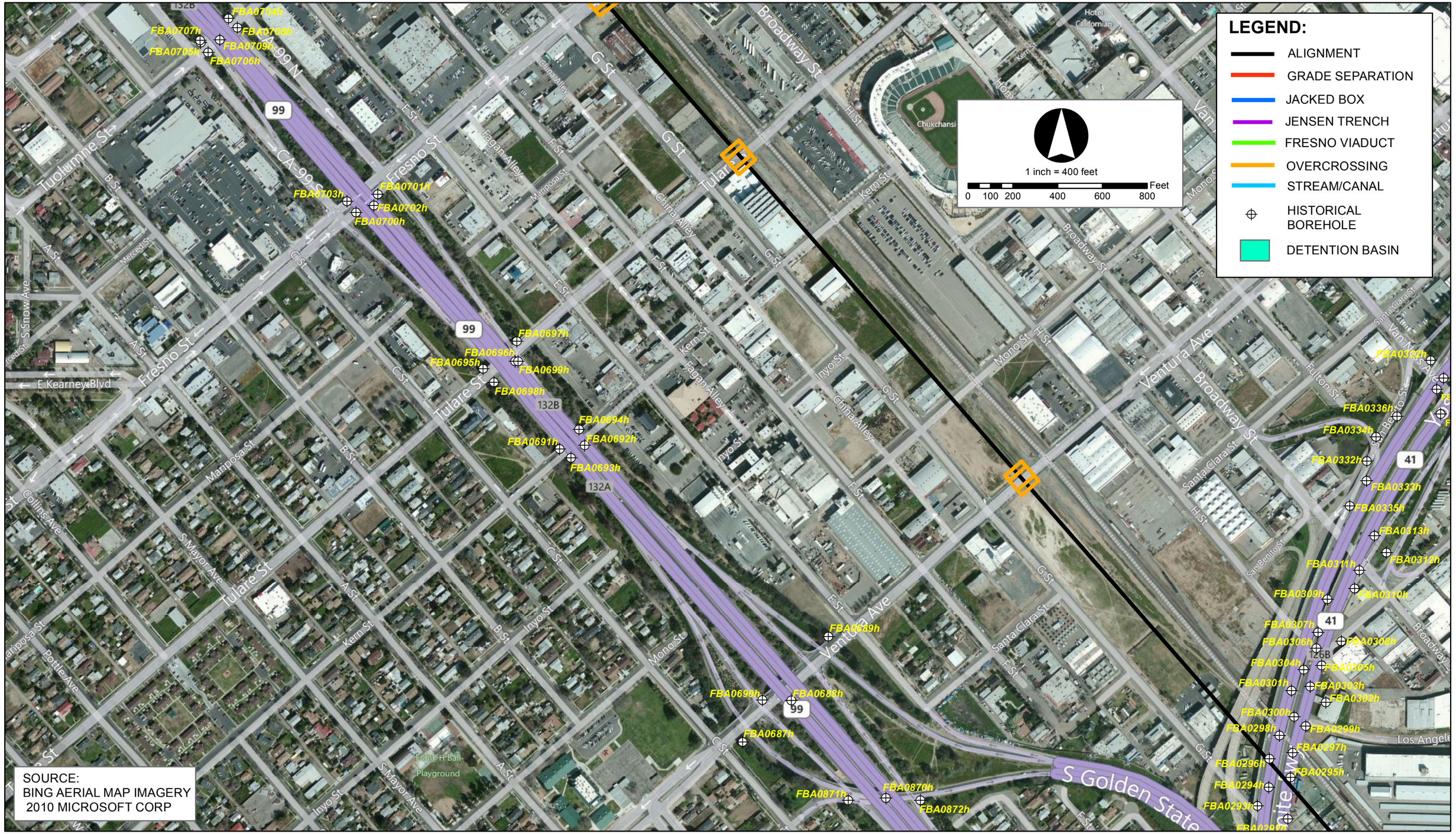


AVAILABLE GEOTECHNICAL DATA FROM PREVIOUS INVESTIGATIONS
California High Speed Train
Fresno to Bakersfield
Geotechnical Data Report - Package 1

Figure No. A5
February 2012

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California High-Speed Train

CALIFORNIA
High-Speed Rail Authority



AVAILABLE GEOTECHNICAL DATA FROM PREVIOUS INVESTIGATIONS
California High Speed Train
Fresno to Bakersfield
Geotechnical Data Report - Package 1
Figure No. A6
February 2012

URS | HMM | ARUP
California High-Speed Train

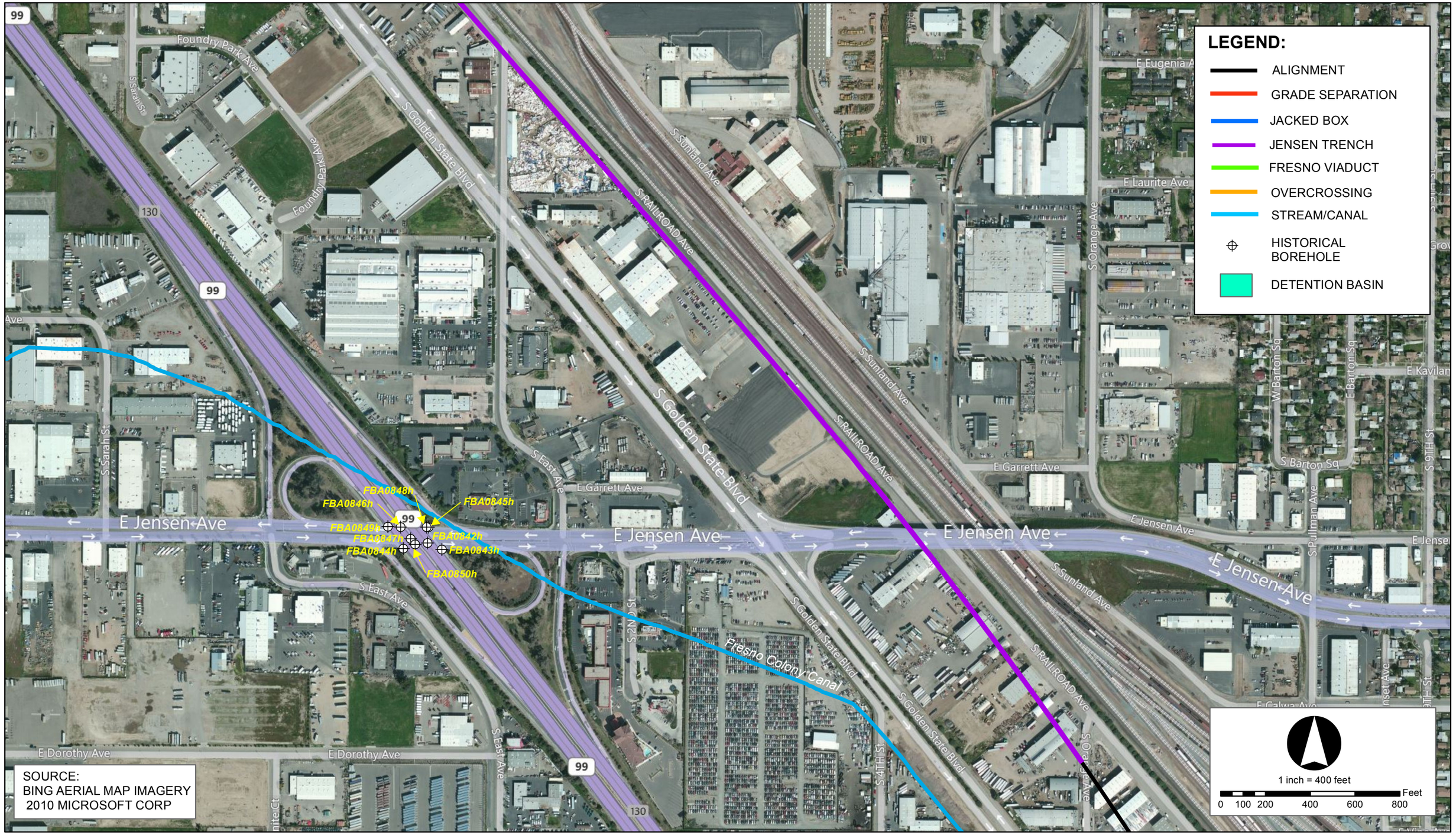
CALIFORNIA
High-Speed Rail Authority



AVAILABLE GEOTECHNICAL DATA FROM PREVIOUS INVESTIGATIONS
California High Speed Train
Fresno to Bakersfield
Geotechnical Data Report - Package 1
Figure No. A7
February 2012

URS | HMM | ARUP
California High-Speed Train

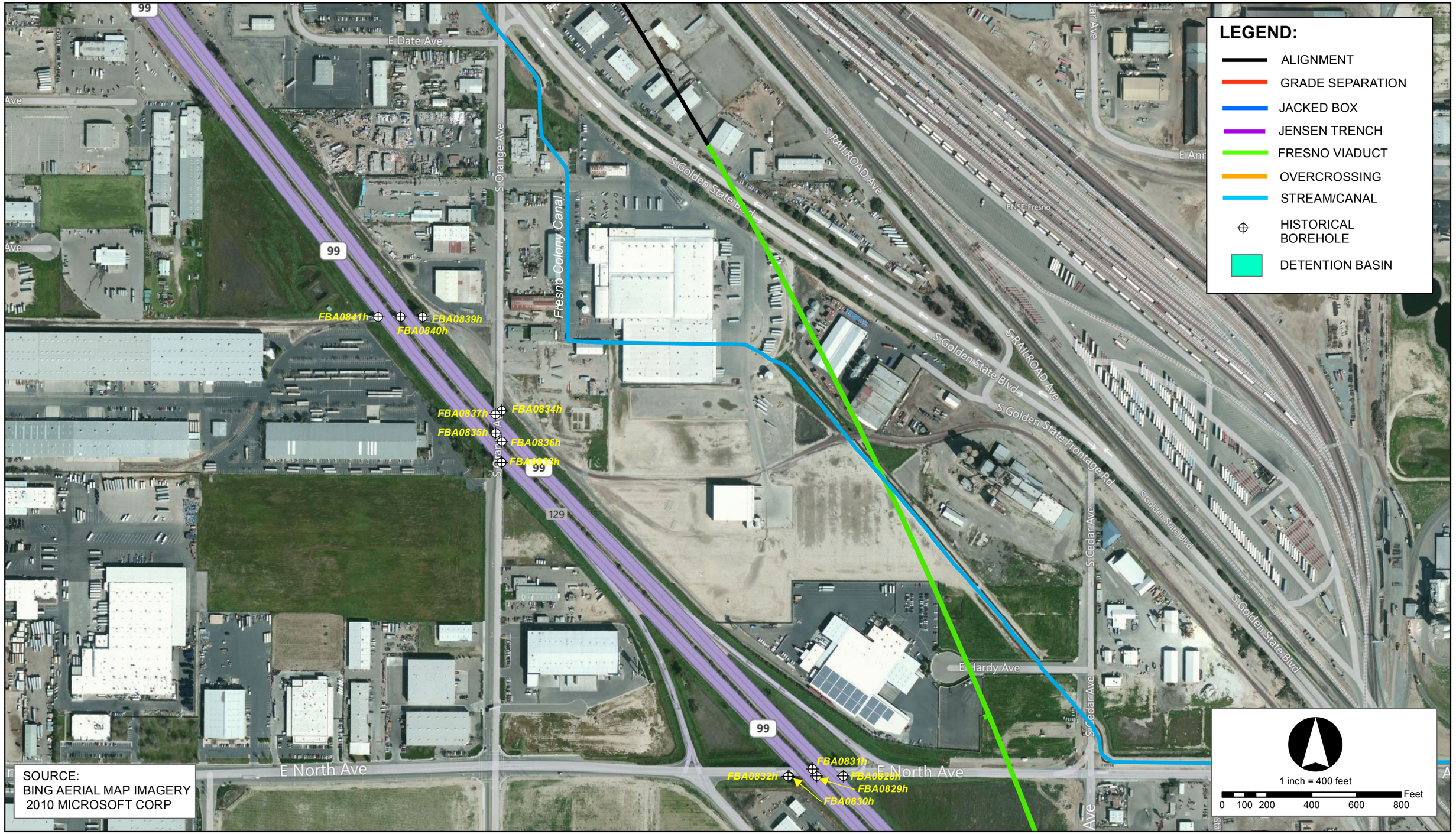
CALIFORNIA High-Speed Rail Authority



URS | HMM | ARUP
California High-Speed Train

CALIFORNIA
High-Speed Rail Authority

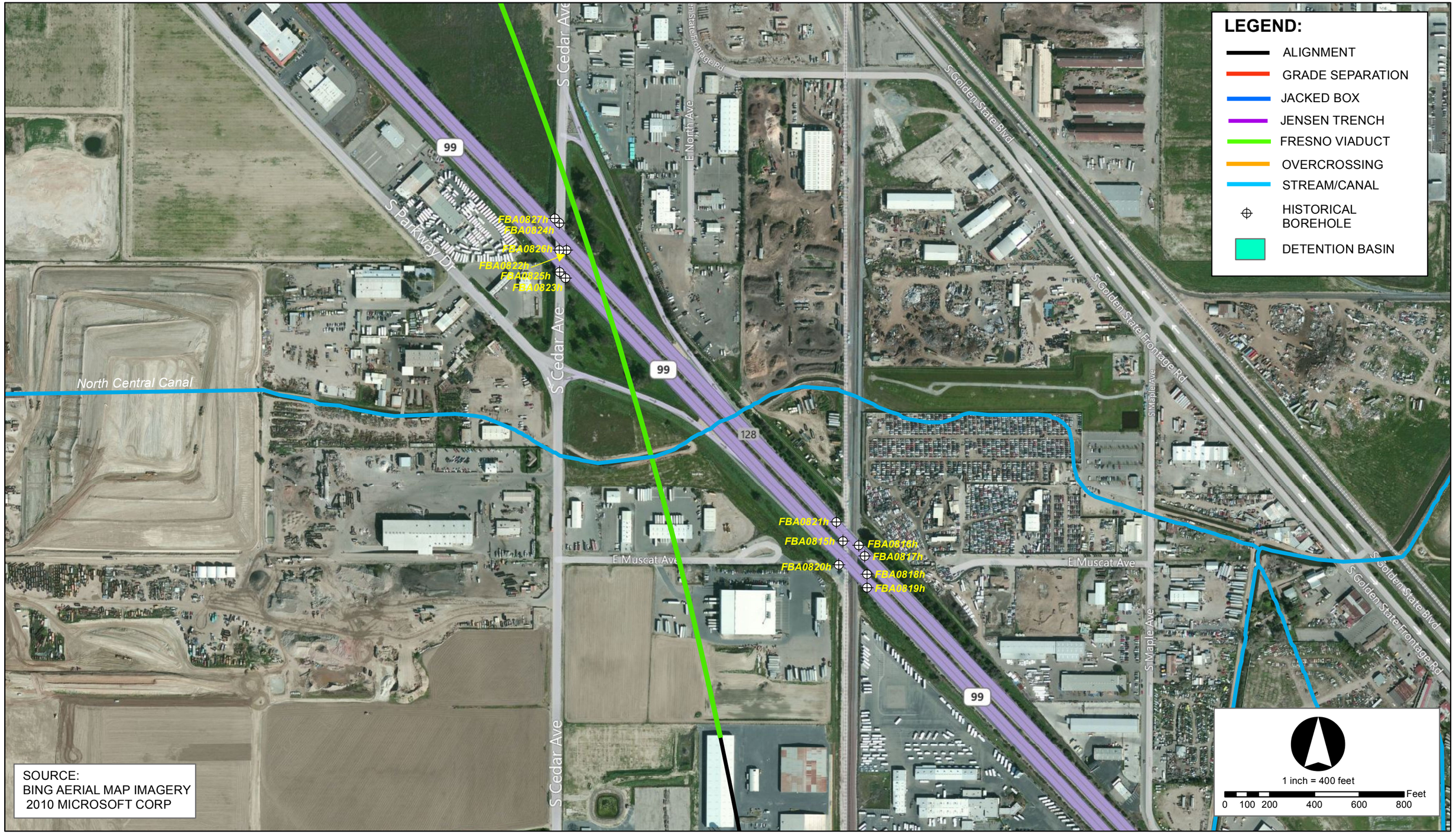
AVAILABLE GEOTECHNICAL DATA FROM PREVIOUS INVESTIGATIONS
California High Speed Train
Fresno to Bakersfield
Geotechnical Data Report - Package 1
Figure No. A8
February 2012



AVAILABLE GEOTECHNICAL DATA FROM PREVIOUS INVESTIGATIONS
California High Speed Train
Fresno to Bakersfield
Geotechnical Data Report - Package 1
Figure No. A9
February 2012

URS | HMM | ARUP
California High-Speed Train

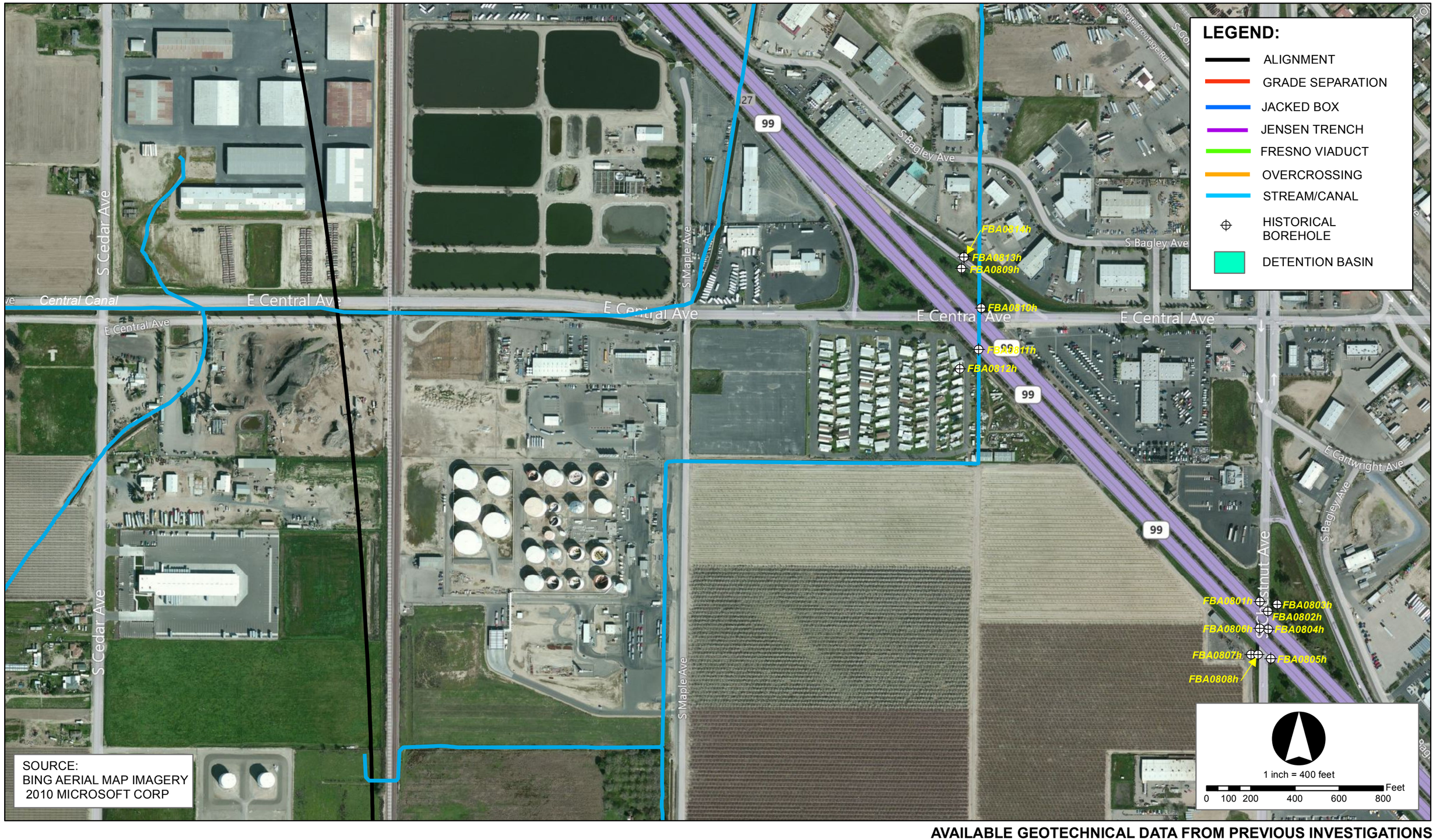
CALIFORNIA
High-Speed Rail Authority



AVAILABLE GEOTECHNICAL DATA FROM PREVIOUS INVESTIGATIONS
California High Speed Train
Fresno to Bakersfield
Geotechnical Data Report - Package 1
Figure No. A10
February 2012

URS | HMM | ARUP
California High-Speed Train

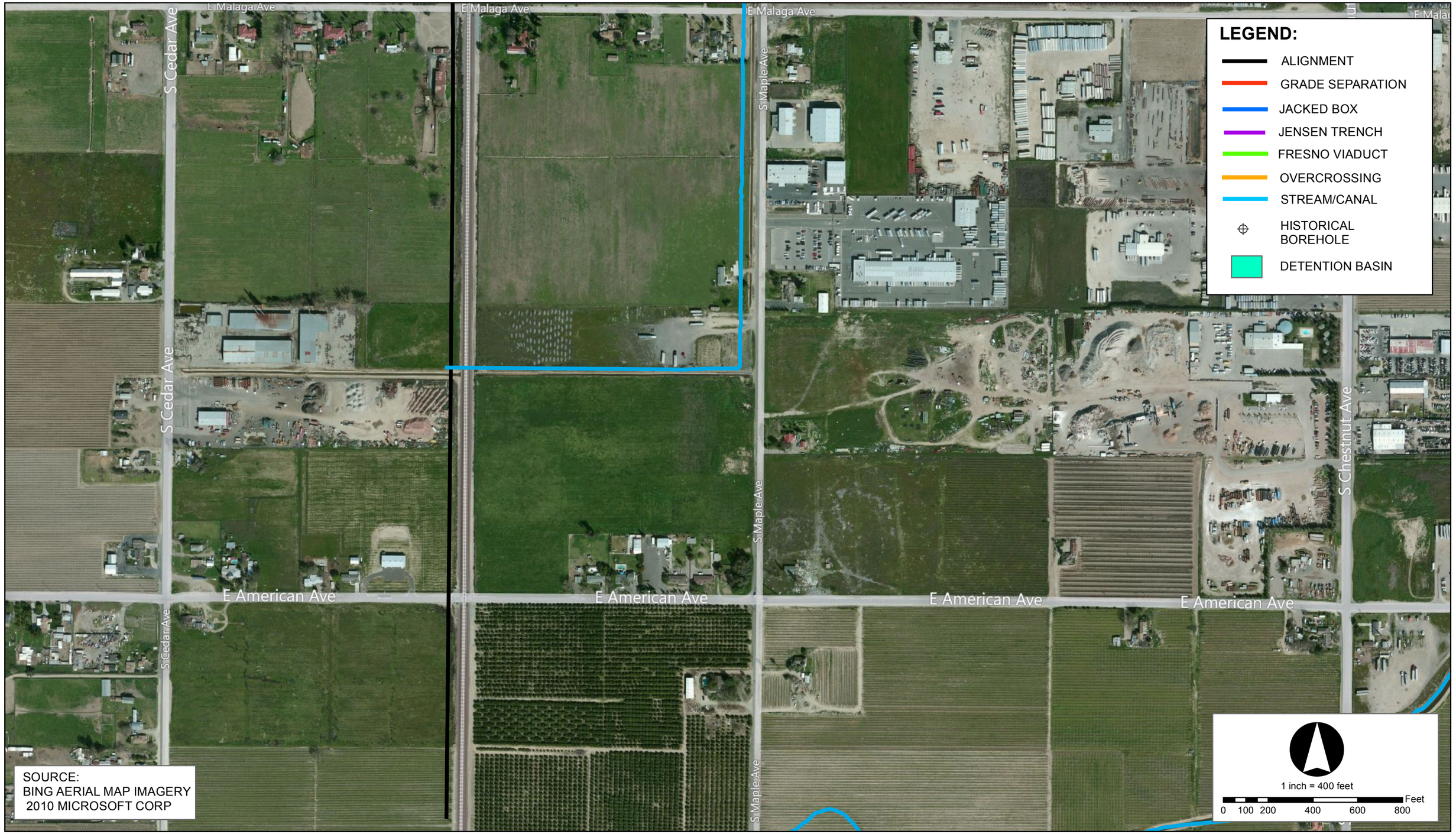
CALIFORNIA
High-Speed Rail Authority



URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA
High-Speed Rail Authority

AVAILABLE GEOTECHNICAL DATA FROM PREVIOUS INVESTIGATIONS
California High Speed Train
Fresno to Bakersfield
Geotechnical Data Report - Package 1
Figure No. A11
February 2012



URS | HMM | ARUP
California High-Speed Train

CALIFORNIA High-Speed Rail Authority

AVAILABLE GEOTECHNICAL DATA FROM PREVIOUS INVESTIGATIONS
California High Speed Train
Fresno to Bakersfield
Geotechnical Data Report - Package 1
Figure No. A12
February 2012

California Department of Transportation
Division of Maintenance

Structure Maintenance and Investigations

BRIDGE

INSPECTION

RECORDS

INFORMATION

SYSTEM

The requested documents have been generated by BIRIS.

These documents are the property of the California Department of Transportation and should be handled in accordance with Deputy Directive 55 and the State Administrative Manual.

Records for “Confidential” bridges may only be released outside the Department of Transportation upon execution of a confidentiality agreement.

ClibPDF - www.fastio.com

650' V.C. - R = 1176.7' Sag

PROFILE GRADE

Total Length of Bridge = 301'-3½"

B.B.

3-6¾ | 46'-0 | @ Brg. | 01-0' | 10'-0 | 40'-0 | @ Brg. | 3-6¾ | E.B.

E. 304.0 | 15'-4" Min. Cr. | E. 304.0

Ac. ø

Far Side | Near Side

Bent #2 | El. 285.0 | Bent #3 | Bent #4 | Abut #5

5 | 19 | 20 | 21

ELEVATION

Scale: 1" = 20'-0"

1 = Point Bridge No. & Date
2 = Point Crescent Ave. C.L.

B.M. Cn-1-S
Chiseled mark on wheel guard at Abut #1 Lt. Ahead
Elev. 316.264

Z

Top of Fill

E=43,43 B.B.
E. 315.24

℄ Bent #2
8-99.00
El 316.57

20-00.00 Crescent
633+96.99 ℄ Line
El 317.18

℄ Bent #4
21+01.00
El 316.57

21+10.51 E.B.
El. 317.34

℄ CRESCENT AVE
(Bearings)
E 38.54

TO BAKERSFIELD

TO FRESNO

Future Lane

Future Lane

Top of Fill

PLAN

Scale: 1" = 20'-0"

AS BUILT PLANS
Contract No. 61-6T1207
Date Completed _____
Document No. 6000 1055

L.L. = H20-S16-44
E Allowable

BRIDGE DEPARTMENT
··· DESIGN SECTION ···
Project Designer Ray E. Gower
Chief Designer

DESIGN	Ray E. Gower '63	Checked	
DETAILS		Checked	
QUANTITIES		Checked	
SPECIFICATIONS		Checked	

4

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CRESCENT AVENUE OVER RR IN
STATE ROUTE 4 WEST OF BAKERSFIELD
IN THE LIMIT OF FRESNO COUNTY

GENERAL PLAN

SCALE | BRIDGE | FILE | DRAWING

Designed prior bearing earlier numbers → PREL. DRAWING NO P-

06 Fre 99 PM

Rte 99

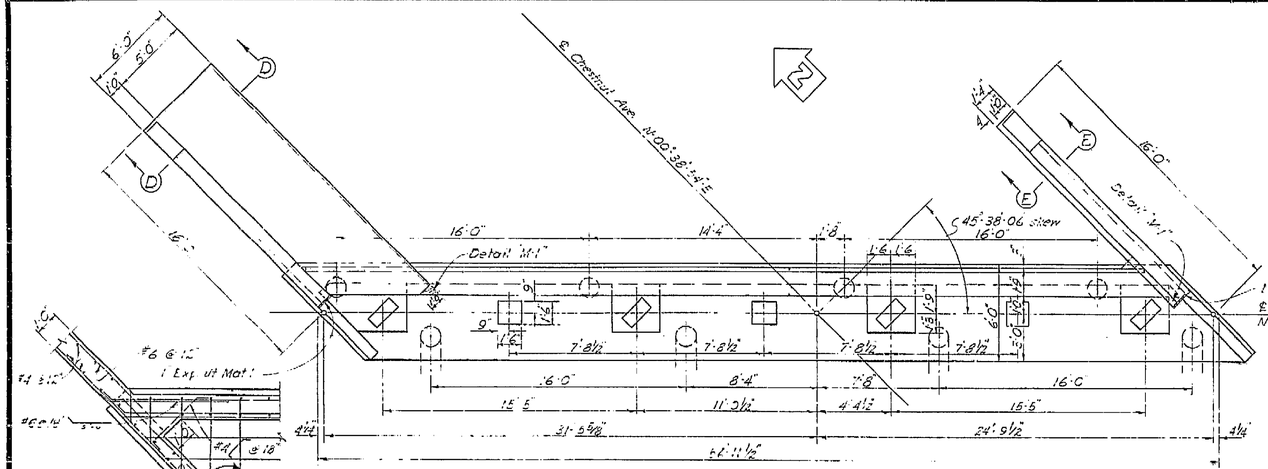
042206 JM 7-12-73

FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
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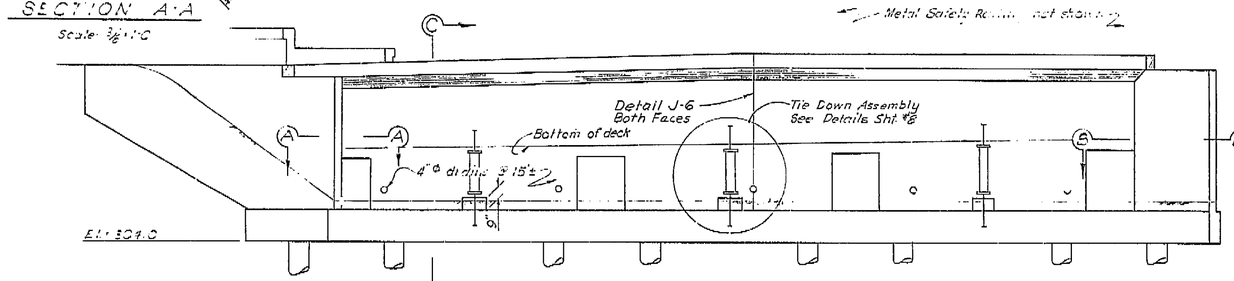
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
11	Fre	[illegible]	[illegible]	[illegible]	[illegible]

REGISTERED CIVIL ENGINEER — LICENSE NO. 5565

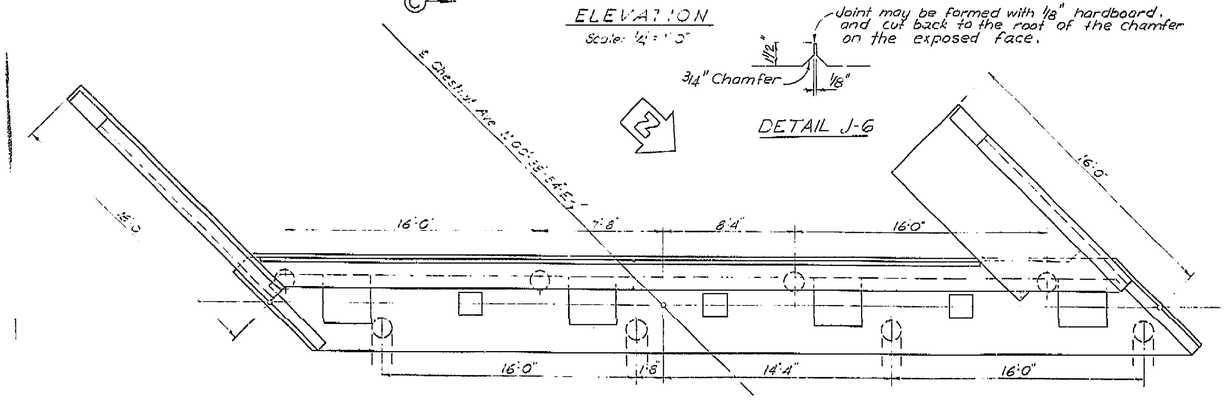
DATE APPROVED



PLAN ABUT. NO. 5
Scale 1/4" = 1'-0"



ELEVATION
Scale: 1/4" = 1'-0"



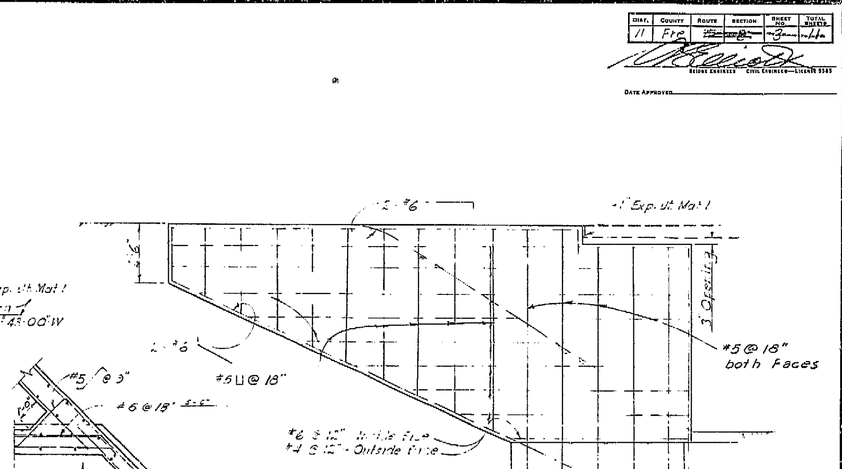
PLAN ABUT. NO. 1
Scale: 1/4" = 1'-0"

Note: Abut. No. 1 similar to Abut. No. 5 except as shown.

Joint may be formed with 1/8" hardboard, and cut back to the root of the chamfer on the exposed face.

DETAIL J-6

SECTION A-A
Scale: 3/8" = 1'-0"

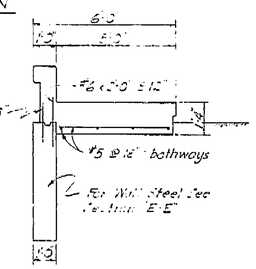


SECTION B-B
Scale: 3/8" = 1'-0"

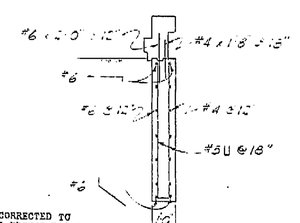
WINGWALL ELEVATION
Scale: 3/8" = 1'-0"

SECTION C-C
Scale: 3/8" = 1'-0"

Note: For Barrier Railing Details not shown see Sht. #9



SECTION D-D
Scale: 3/8" = 1'-0"



SECTION E-E
Scale: 3/8" = 1'-0"

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 11-62 AS SUBMITTED BY RESIDENT ENGINEER [illegible]
TRACINGS CORRECTED BY [illegible] DATE 12-62

AS BUILT PLANS
Contract No. 61-671307
Date Completed
Document No. 1000 1055

254

BRIDGE DEPARTMENT
DESIGN SECTION 4

Project Designer	Ray E. Glover		
Chief Designer	R. L. Tudor		
DESIGN	By Ray E. Glover	Checked	J. A. Strunk
DETAILS	By J. A. Strunk	Checked	J. A. Strunk
QUANTITIES	By T. H. Lowe	Checked	M. Arndt
SPECIFICATIONS	By	Plans and Spec. Checked	

Approval Recommended by [illegible] Engineer of Design — Civil Engr. License No. [illegible]

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CHESTNUT AVENUE OVERCROSSING

ABUTMENT DETAILS

SCALE AS SHOWN	BRIDGE 42-206	FILE	DRAWING 11-6696-3

Disregard prints bearing earlier numbers →

PREL. DRAWING No. P- 6696 | 3 | 14

414

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 12-5-67 SIGNATURE [illegible] TITLE [illegible]

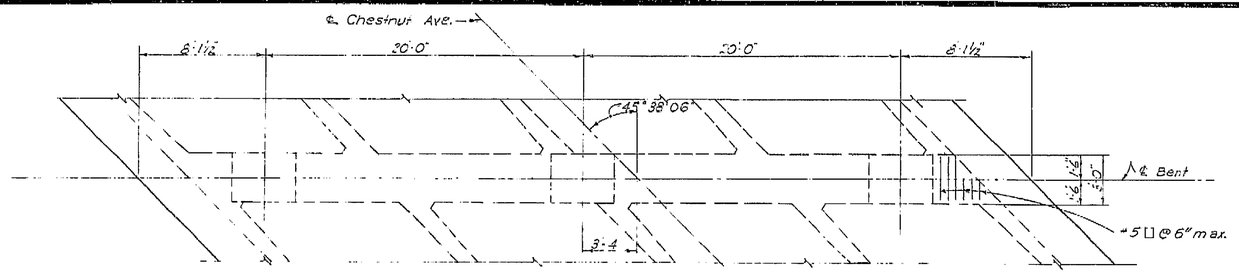
ClibPDF - www.fastio.com

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SCALE 1" = 20' 0 50 100 50 200 50 300

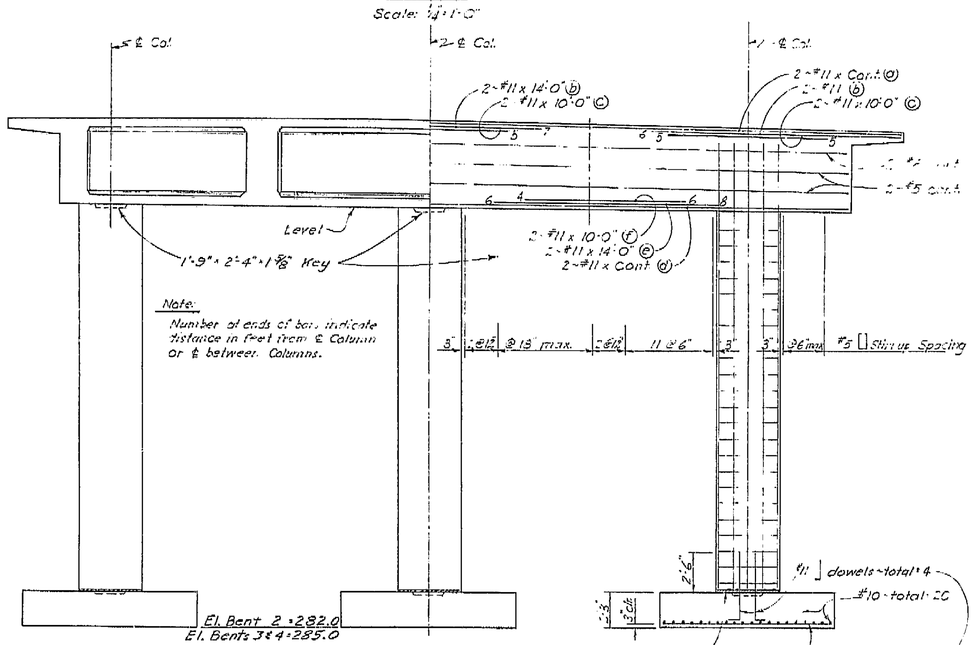
FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
7	CALIF.		255	262

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre				

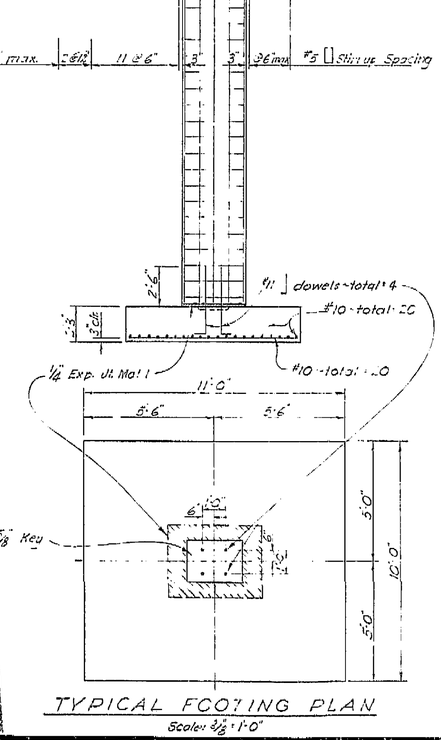
DATE APPROVED



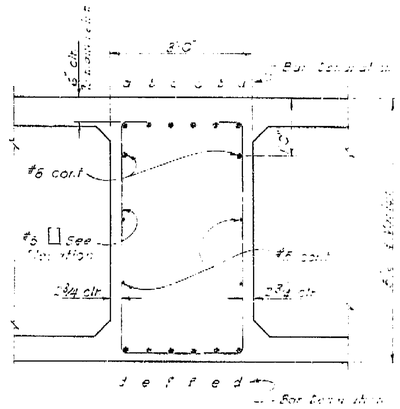
PLAN
Scale: ¼"=1'-0"



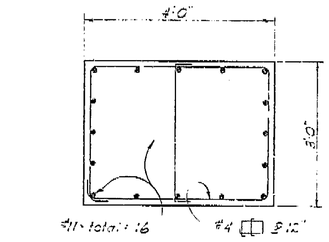
ELEVATION
Scale: ¼"=1'-0"



TYPICAL FOOTING PLAN
Scale: ¾"=1'-0"



CAF SECTION
Scale ¾"=1'-0"



TYPICAL COLUMN SECTION
Scale: ¾"=1'-0"

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 11-6-72 AS SUBMITTED BY RESIDENT ENGINEER. TRACINGS CORRECTED BY: DJC DATE: 12-6-72

AS BUILT PLANS
Contract No. 61-671367
Date Completed
Document No. 6000 1055

255

BRIDGE DEPARTMENT			
DESIGN SECTION 4			
Project Designer: Ray E. Glover			
Chief Designer: R.E. Fulton			
DESIGN	by Ray E. Glover 6/70	Checked J.D. Young 6/70	
DETAILS	by M.J. Viana 6/70	Checked J.D. Young 6/70	
QUANTITIES	by Jay F. Tour 6/70	Checked M. Arndt 6/70	
SPECIFICATIONS	by	Plans and Specs. Checked	
Approval Recommended by: Bert Hall Johnson, Engineer of Design		Civil Engr. License No. 6435	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CHESTNUT AVENUE OVERCROSSING

BENT DETAILS

SCALE AS SHOWN	BRIDGE 42-206	FILE	DRAWING C-6696-4

Disregard prints bearing earlier numbers → PREL. DRAWING No. P- 6696 #15

415

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DATE 12-20-72 SIGNATURE [illegible] TITLE [illegible]

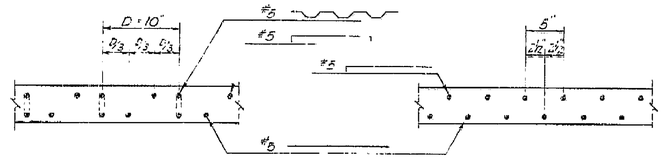
SCALE 1"= 50' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"= 50' SCALE 1"= 20' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"= 20'
0 100 200 300 400 500 600 700 0 50 100 200 50 300
ClibPDF - www.fastio.com

AS BUILT PLANS
Contract No. 61-617207
Date Completed
Document No. 6000 1055

FED. ROAD DIV. No.	STATE	PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
7	CALIF.			256	262

DIST	COUNTY	ROUTE	SECTION	SHEET No.	Total Sheets
VI	Fre				

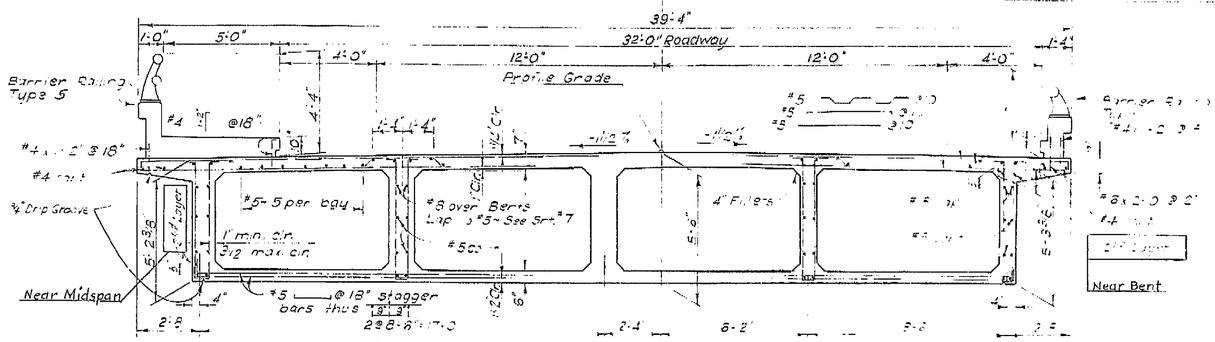
Notes
For Girder Reinf not shown See Sht #6
For Railing Details not shown See Sht #9



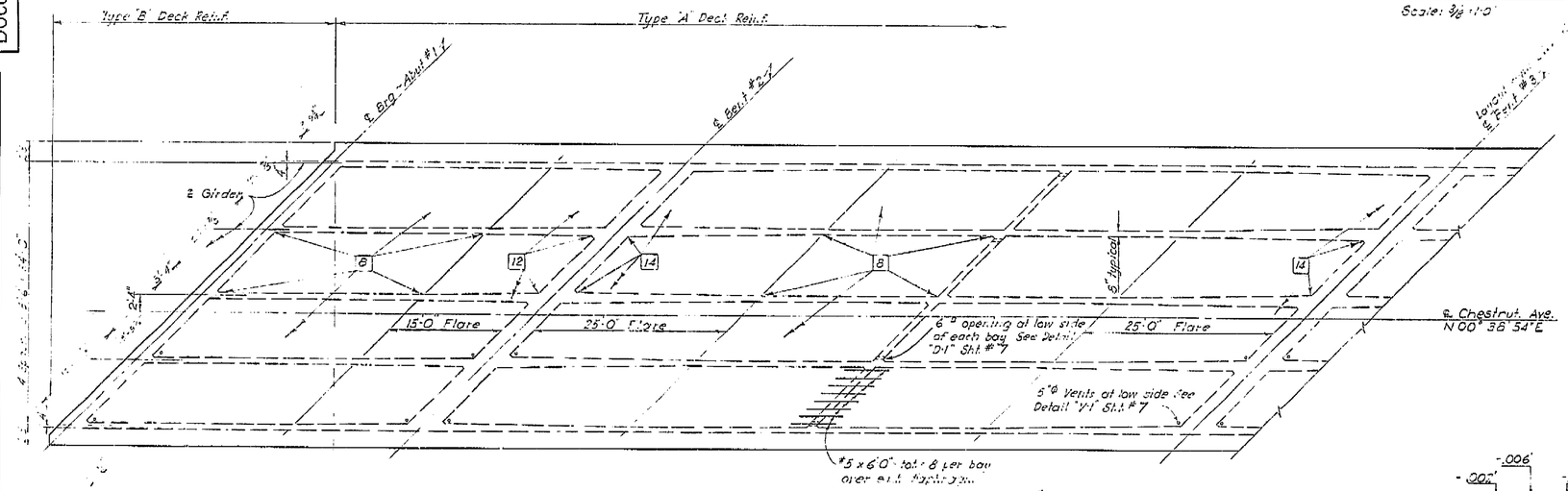
TYPE 'A' DECK REINF. TYPE B DECK REINF.

No Scale:

Distribution & Temperature steel not shown.
Place transverse Deck Reinf normal to ℄ Girders.

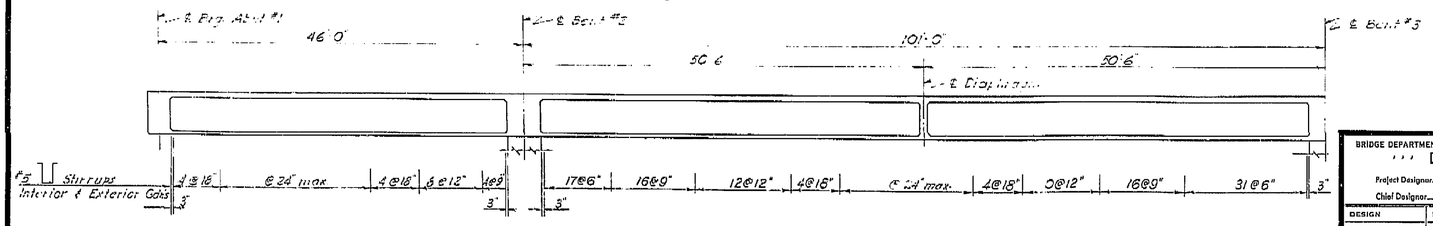


TYPICAL SECTION
Scale: ¾"=1'-0"

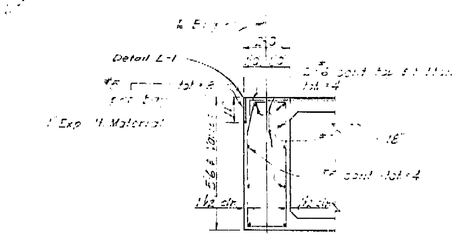


GIRDER LAYOUT
Scale: ½"=1'-0"

Note: □" designates flare width in inches.
See page "6 for Flare diagram.



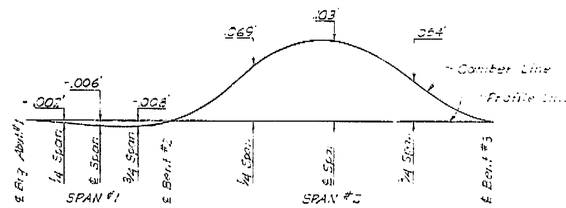
LONGITUDINAL SECTION
Scale: ½"=1'-0"



END DIAPHRAGM
Scale: 3/8"=1'-0"

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 11-6-72, AS SUBMITTED BY RESIDENT ENGINEER O.T.P.
WAS NOT CORRECTED BY FIELD, DATED 12-6-72

℄ Chestnut Ave.
N00° 38' 54"E



CAMBER DIAGRAM FOR TOTAL GIRDER DEFLECTION DUE TO DEAD LOADS

THE TOTAL DEFLECTION WILL BE REACHED ABOUT 4 YEARS AFTER FALSEWORK REMOVAL. FOR VALUES AT TIME OF FALSEWORK REMOVAL DIVIDE THOSE SHOWN BY 4.
THE AMOUNT OF CAMBER FOR CONSTRUCTION WILL BE DETERMINED BY THE ENGINEER.

BRIDGE DEPARTMENT
DESIGN SECTION 4
Project Designer: Ray E. Glover
Chief Designer: R. E. Kasler

DESIGN	By Ray E. Glover 3-10	Checked J. D. Dewey 4-10
DETAILS	By [illegible]	Checked J. D. Dewey 4-10
QUANTITIES	By [illegible]	Checked M. Arnold 3-10
SPECIFICATIONS	By	Plans and Specs. Completed

Approval Recommended by [illegible] Chief and Structural Engineer

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CHESTNUT AVENUE OVERCROSSING

GIRDER LAYOUT & TYPICAL SECTION

SCALE AS SHOWN	BRIDGE 42-208	FILE	DRAWING C-6696-5

PREL. DRAWING No. P- 6696 | 5 | 16

256

416

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DATE [illegible] SIGNATURE [illegible] TITLE [illegible]

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"= 50' 0 100 200 300 400 500 600
SCALE 1"= 50' 0 700
SCALE 1"= 20' 0 50 100
MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"= 20' 50 100 200 300
ClibPDF - www.fastio.com

BRIDGE DEPARTMENT

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	SHEET TOTAL
7	CAL.		262	262

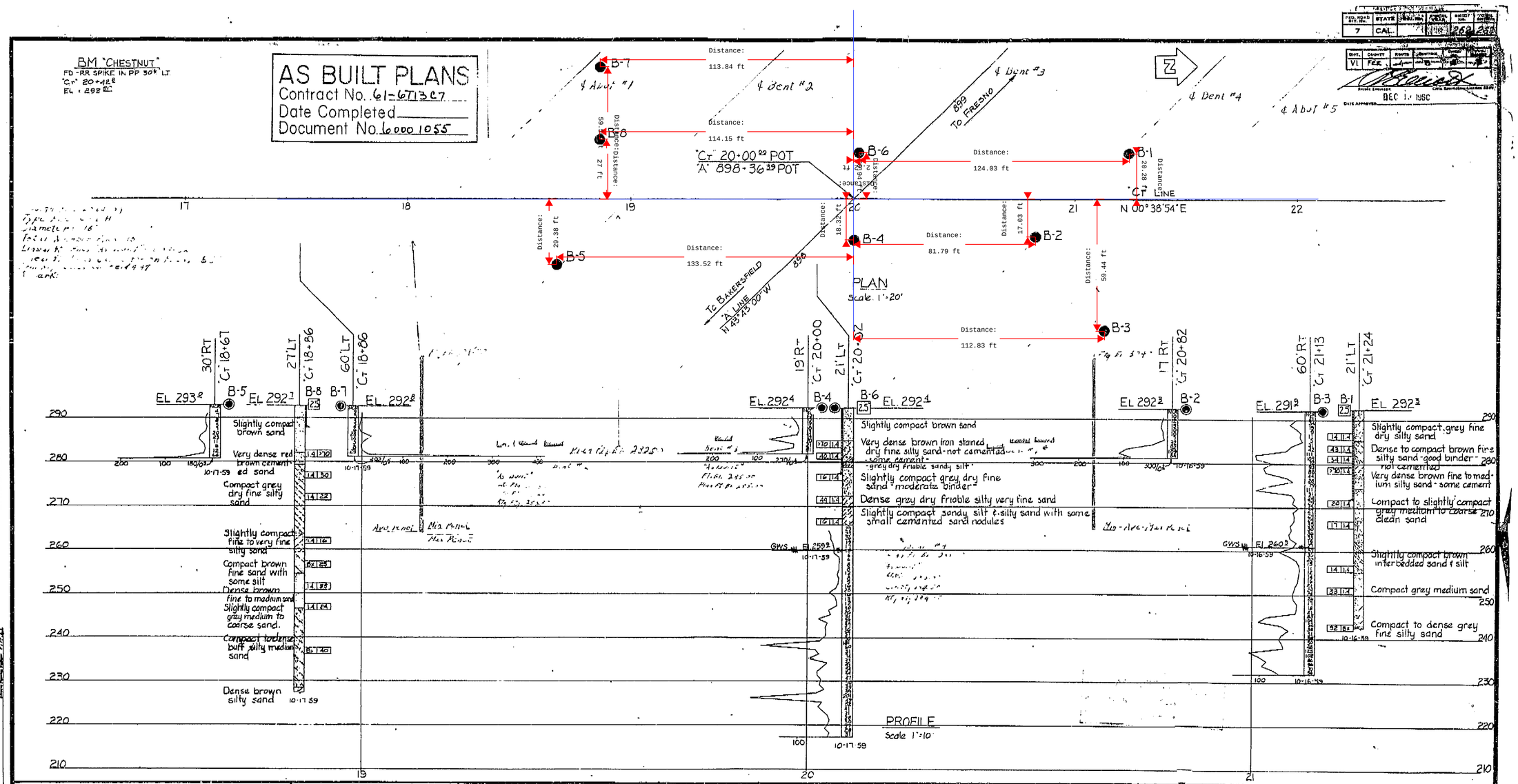
DIST.	COUNTY	ROUTE	POST MILES	SHEET NO.	TOTAL SHEETS
VI	FRE.				

DEC 1 1960

DATE APPROVED

BM "CHESTNUT"
FD - RR SPIKE IN PP 30' LT
"Cr" 20+12.2
EL = 293.21

AS BUILT PLANS
Contract No. 61-671367
Date Completed
Document No. 6000 1055



	R. YAGER	10-59
FIELD STUDY BY	J. E. [illegible]	12-59
DRAWN BY	M. White	12-59
CHECKED		

Approved Recommended by [signature] Chief Bridge Engineer

CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS

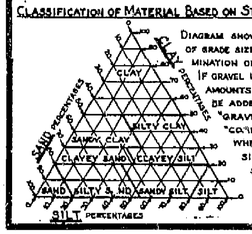


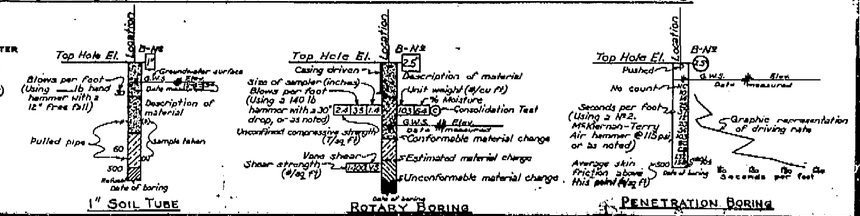
DIAGRAM SHOWING THE BASIS FOR ESTIMATES OF GRADE SIZE DISTRIBUTION USED IN DETERMINATION OF CLASS NAMES. IF GRAVEL IS PRESENT IN APPRECIABLE AMOUNTS THE TERM "GRAVELLY" MAY BE ADDED TO THE CLASS NAME, VIZ. "GRAVELLY SAND". THE TERMS "COARSE", "MEDIUM" AND "FINE" WHEN USED TO DESCRIBE SAND, SILT AND GRAVEL REFER TO STANDARD GRADE SIZE LIMITS.

LEGEND OF EARTH MATERIALS

- GRAVEL
- SAND
- SILT
- CLAY
- SANDY CLAY OR CLAYEY SAND
- SANDY SILT OR SILTY SAND
- SILTY CLAY OR CLAYEY SILT
- PEAT AND/OR ORGANIC MATTER
- FILL MATERIAL
- IGNEOUS ROCK
- SEDIMENTARY ROCK
- METAMORPHIC ROCK

LEGEND OF BORING OPERATIONS

- PLAN OF ANY BORING
- PENETROMETER
- 2½" CONE PENETROMETER
- SAMPLER BORING (DRY)
- ROTARY BORING (WET)
- AUGER BORING (DRY)
- JET BORING
- CORE BORING
- TEST PIT



NOTES

~~The contractor's attention is directed to Section 2, Article (a) of the Standard Specifications and to the Special Provisions governing this project.~~

Classification of earth materials as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CHESTNUT AVENUE OVERCROSSING

LOG OF TEST BORINGS

SCALE	AS SHOWN	BRIDGE 42 206	FILE	DRAWING C-6696-1F

PREP. DRAWING NO. P-6696 11

262

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

ClibPDF - www.fastio.com

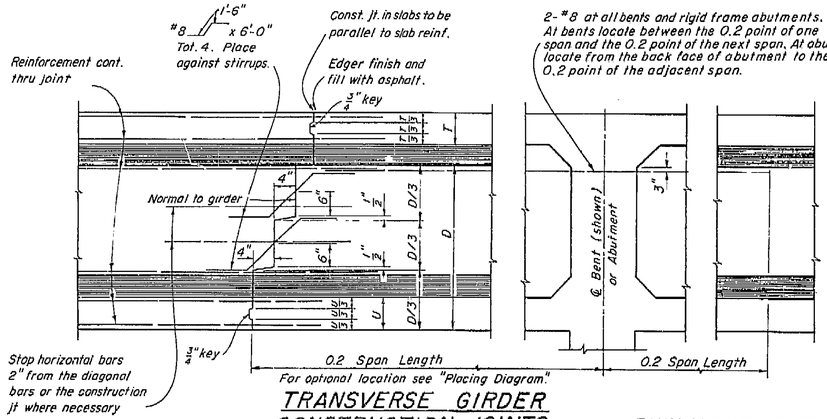
MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"=50' SCALE 1"=20' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"=20'

FED. ROAD DIV NO	STATE	PROJ NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			258	262

DIST	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Ric			7	

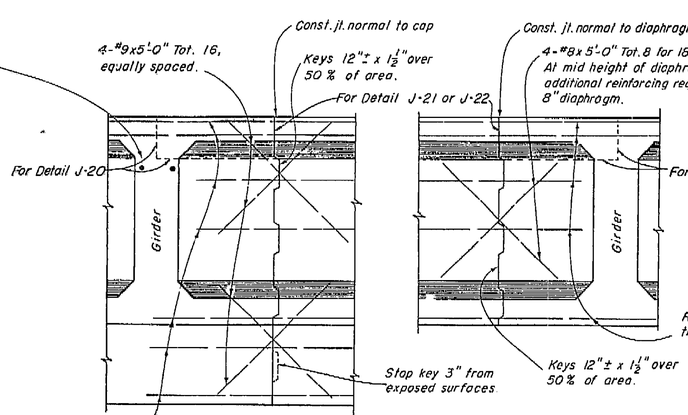
BRIDGE ENGINEER — CIVIL ENGINEER - LICENSE 5593

DATE APPROVED

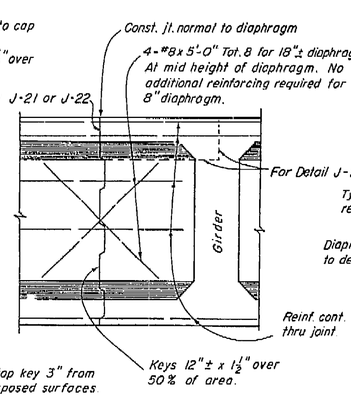


TRANSVERSE GIRDER CONSTRUCTION JOINTS
DETAIL J-3

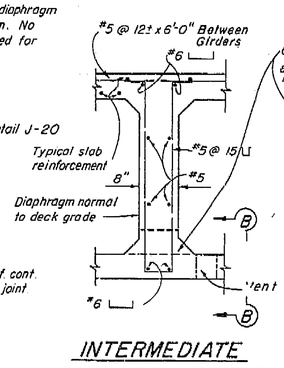
REINFORCEMENT
DETAIL J-1



BENT CAP

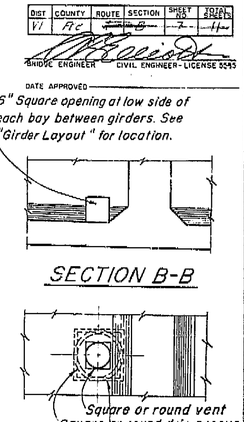


DIAPHRAGMS
LONGITUDINAL CONSTRUCTION JOINT
DETAIL J-4



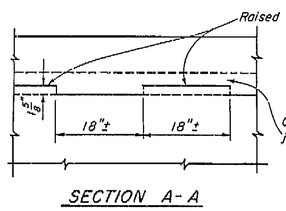
INTERMEDIATE DIAPHRAGM SECTION
DETAIL D-1

Note:
5"ϕ Vent in lower slab.
Min. of two vents per span in each bay between girders. One vent to be located at low point of span and other vent to be located at far end of span @ 1'-6" from face of Abut. or Bent. See "Girder Layout."



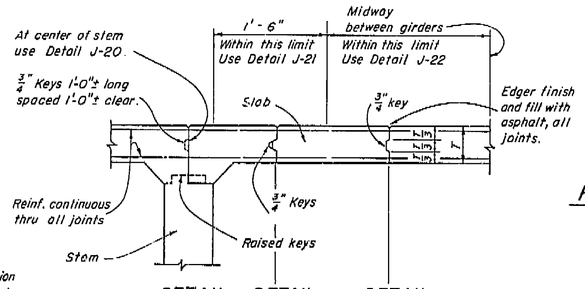
SECTION B-B

VENT
DETAIL V-1

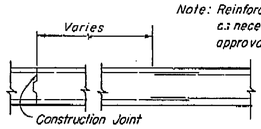


SECTION A-A

PART SECTION INTERIOR GIRDER

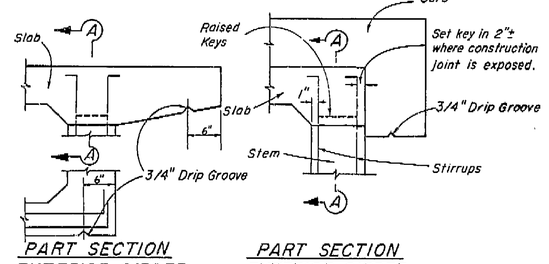


DETAIL J-20 — DETAIL J-21 — DETAIL J-22



REINFORCEMENT SPLICE IN DECK SLAB
DETAIL S-1

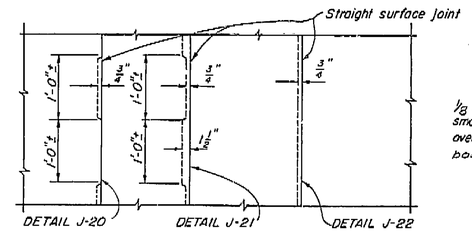
Note: Reinforcement may be spliced as necessary, subject to approval by the Engineer.



PART SECTION EXTERIOR GIRDER WITH SLAB CANTILEVER

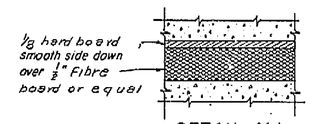
PART SECTION EXTERIOR GIRDER WITH CURB

KEY-GIRDER STEM TO SLAB
DETAIL J-5

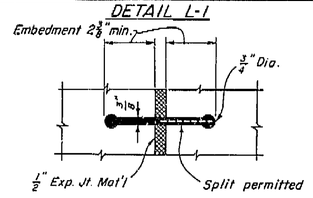


DECK SLAB
LONGITUDINAL CONSTRUCTION JOINT

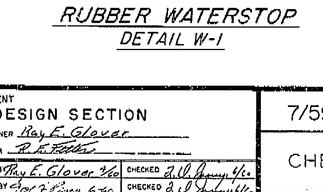
Note: Longitudinal construction joints in slab, if required, are to be located at edge of traffic lanes except as approved by the Engineer.



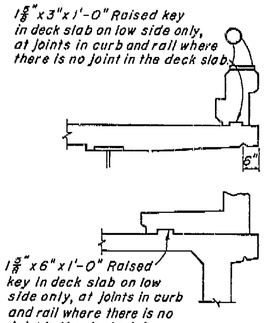
DETAIL M-1



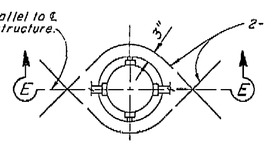
SEALED EXPANSION JOINT
DETAIL L-1



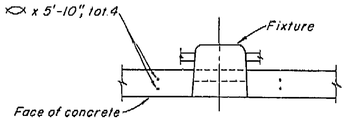
RUBBER WATERSTOP
DETAIL W-1



CURB AND SIDEWALK EXPANSION JOINT
DETAIL C-1



ADDED REINFORCEMENT



SECTION E-E

RECESSED SOFFIT LIGHT

BRIDGE DEPARTMENT	DESIGN SECTION		
PROJECT DESIGNER	Ray E. Glover		
CHIEF DESIGNER	R. E. Foster		
DESIGN	BY Ray E. Glover Jr.	CHECKED J. B. Gray Jr.	
DETAILS	BY Ray E. Glover Jr.	CHECKED J. B. Gray Jr.	
QUANTITIES	BY Lyle Lowe Jr.	CHECKED H. Poole Jr.	
SPECIFICATIONS	BY	PLANS AND SPECS. COMPARED	
APPROVAL RECOMMENDED	R. E. Foster ENGINEER OF DESIGN	CIVIL & STRUCTURAL REGISTRATION NO. 5421	

7/59 — STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS — 4A, 7.13.10

CHESTNUT AVENUE OVERCROSSING

STANDARD DETAILS NO. 1 (BOX GIRDER)

SCALE - None | BRIDGE 42-206 | XS-16-22 | DRAWING C-6696-7

PREL. DRAWING NO. P- 6696 | 7

418

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 11-62, AS SUBMITTED BY RESIDENT ENGINEER O.T.P.
TRACINGS CORRECTED BY VL DATE 12-62

AS BUILT PLANS
Contract No. 61-667307
Date Completed
Document No. 60001055

258

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

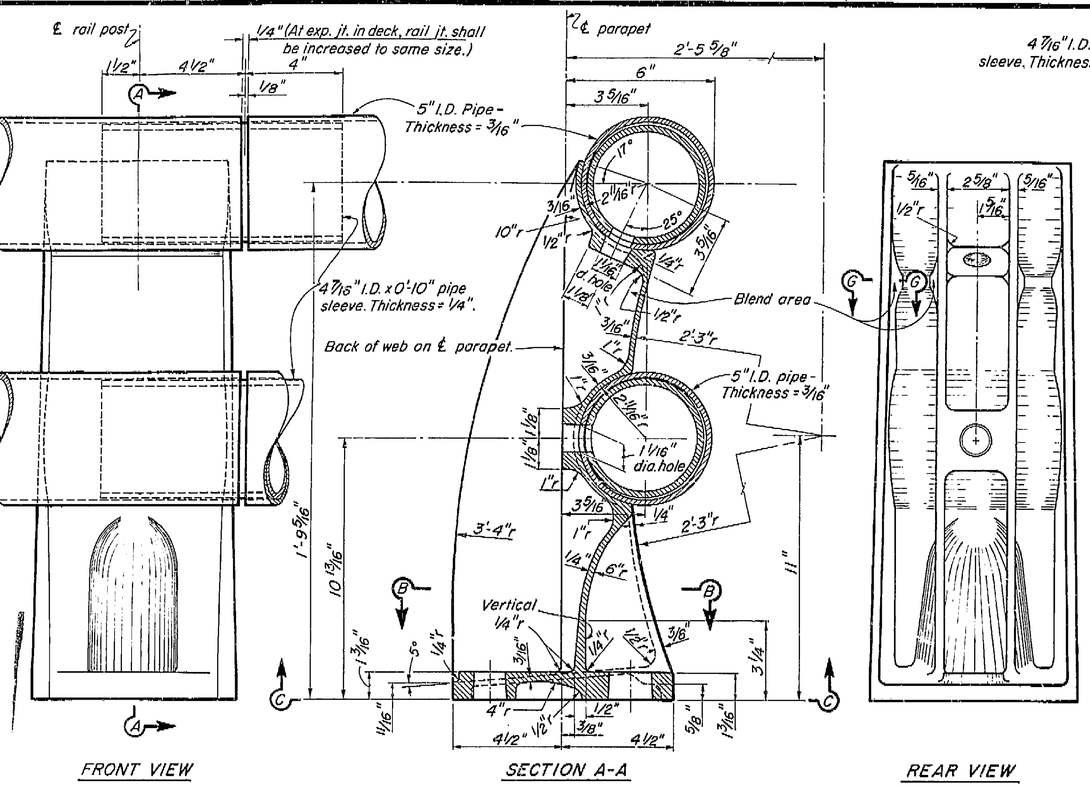
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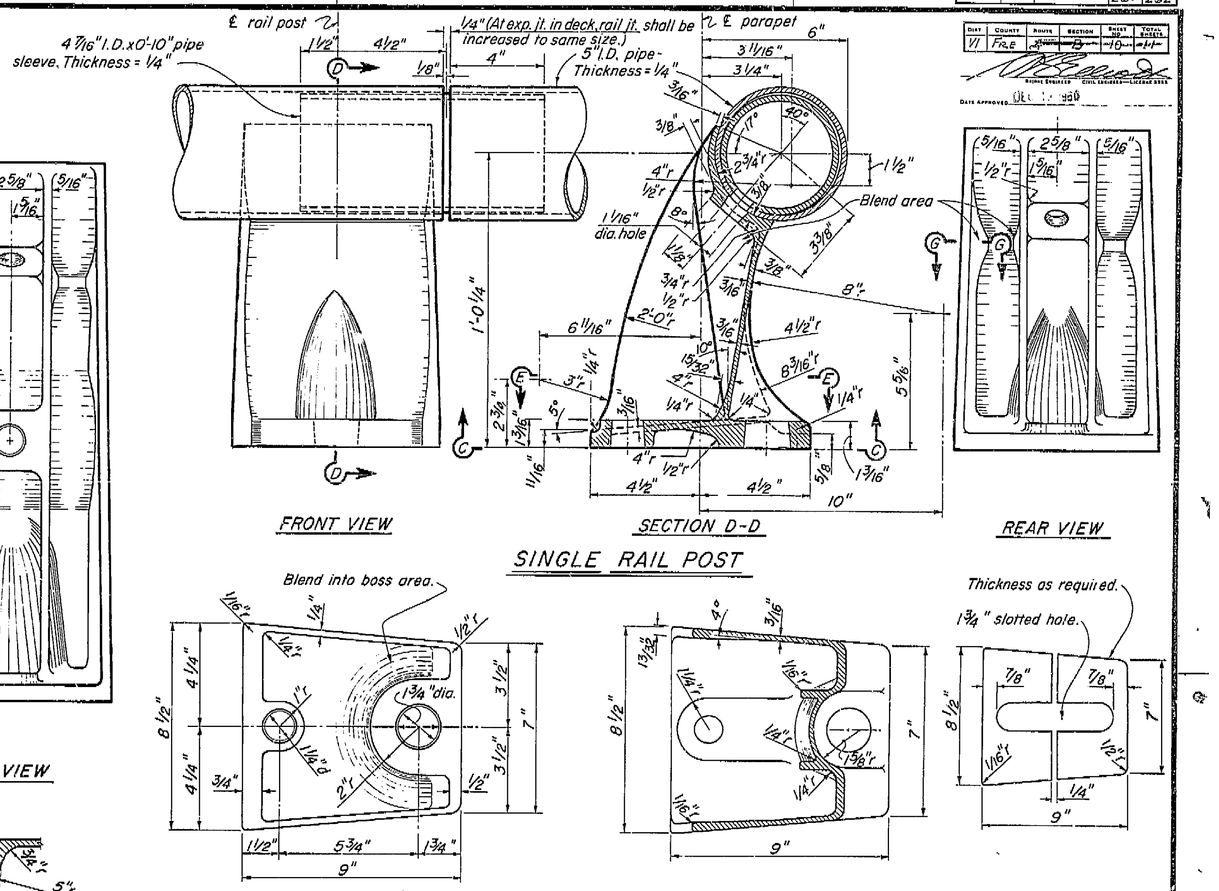
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SCALE 1"= 50' 300 400 500 600
SCALE 1"= 20' 0 50 100
MICROFILM STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"= 20' 150 200 250 300

FED. ROAD DIV. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.		261	262

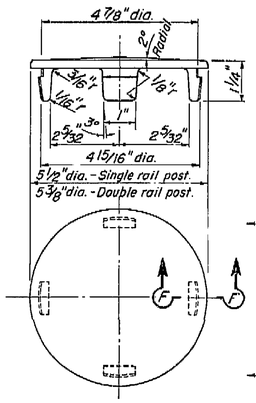
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
11	FRE	8	B	16	44

DATE APPROVED: Oct. 1, 1960

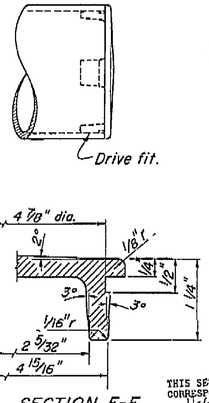




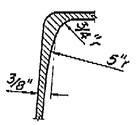
SECTION B-B



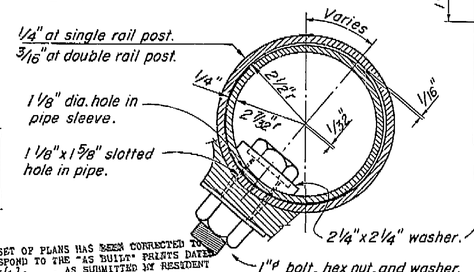
RAIL CAP
1/2" = 1"



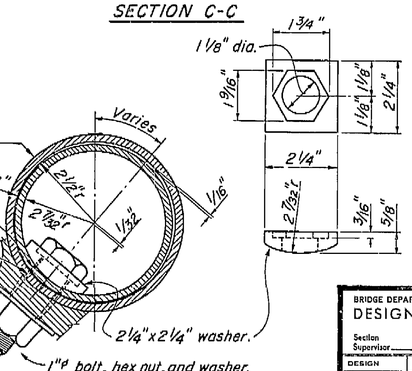
SECTION F-F
1" = 1"



SECTION G-G
1/2" = 1'



RAIL CONNECTION
1/2" = 1"



SECTION C-C

SECTION E-E

SHIM DETAIL
1/4" = 1'-0"

Notes:

1. At the option of the contractor, material for the railing shall be one of the following:
   a. Aluminum pipe rail and cast aluminum post.
   b. Steel pipe rail and cast steel post. Rail and posts to be galvanized. Steel pipe rail shall be 3/16" thick with 5" I.D.. Rail post dimensions shall be revised as necessary to fit the steel pipe.
2. Shims are to be of asbestos sheet packing.
3. For railing on a horizontal curve the pipe rail shall be bent to the curve or the spacing of posts adjusted so that the middle ordinate between posts will not exceed 1'.

AS BUILT PLANS
Contract No. 61-697207
Date Completed
Document No 6000 1055

STANDARD
Caltrans no. 2 Dec. 59
Approved for use
Division of Highways
M. J. Amold

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 11-2-62, AS SUBMITTED BY RESIDENT ENGINEER. TRACINGS CORRECTED BY: JE DATE: 12-6-62

BRIDGE DEPARTMENT
DESIGN SECTION
Section Supervisor R. E. Fuller

DESIGN	by	R. E. GLOVER
	Checked	T. D. INOUYE
DETAILS	by	J. F. FINA
	Checked	T. D. INOUYE
QUANTITIES	by	L. G. LOW
	Checked	N. ANASE

10/60

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CHESTNUT AVENUE OVERCROSSING

BARRIER RAILING SHEET 2

Except as noted SCALE 3/8" = 1" | BRIDGE 42-206 | XS-9-71 FILE | DRAWING C-669D-1J

Disregard prints bearing earlier numbers → PREL. DRAWING No. P-

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE ... / ... / ... SIGNATURE ... TITLE ...

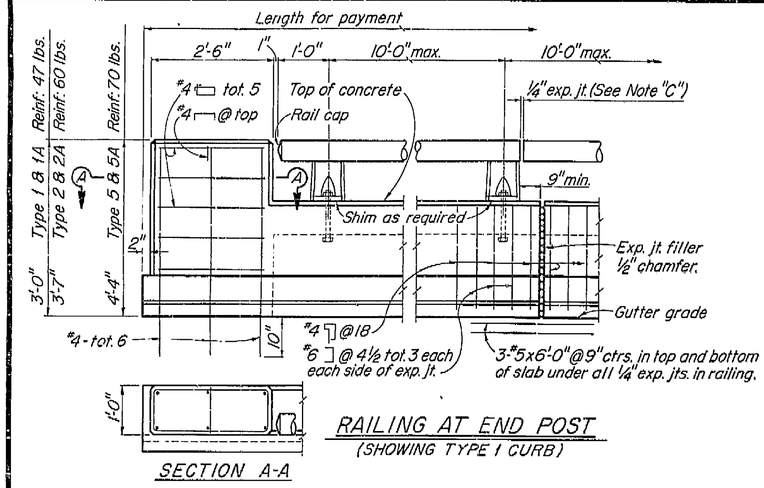
ClibPDF - www.fastio.com

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50' 0 200 400 600
SCALE 1" = 50' 0
SCALE 1" = 20' 0 100 200 300
MICROFILM - STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 20' 0 50 100

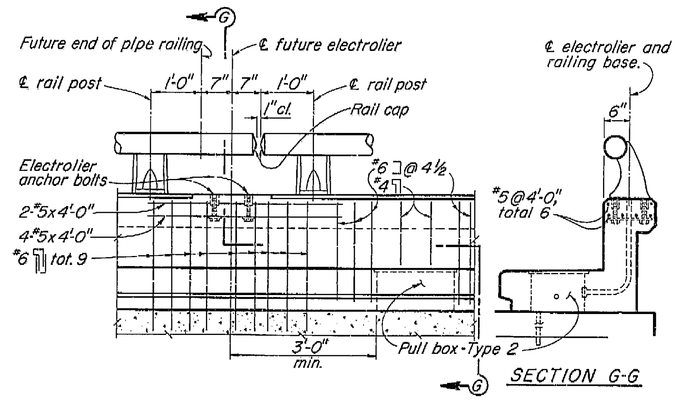
FED. ROAD DIV. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.		260	262

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE				

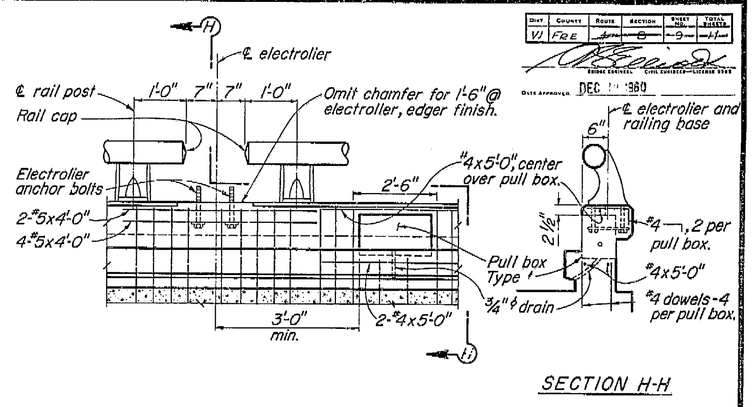
DATE APPROVED DEC 19 1960



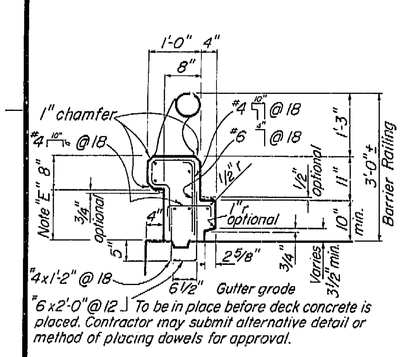
RAILING AT END POST
(SHOWING TYPE 1 CURB)



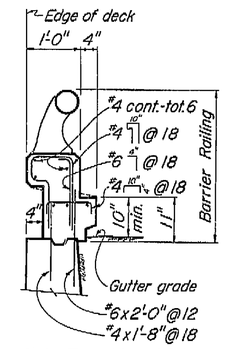
RAILING CLOSURE AT ELECTROLIER
(SHOWING TYPE 2 CURB)



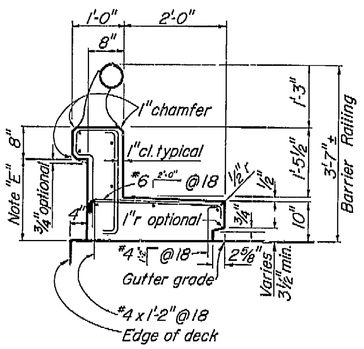
RAILING AT ELECTROLIER
(SHOWING TYPE 1 CURB)



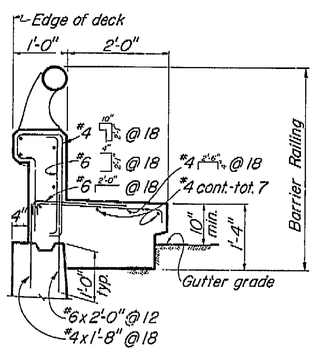
TYPE 1
Conc. 1.61 cu. ft. / lin. ft.
Reinf. 11.8 lbs. / lin. ft.



TYPE 1A
Conc. 1.61 cu. ft. / lin. ft.
Reinf. 12.0 lbs. / lin. ft.

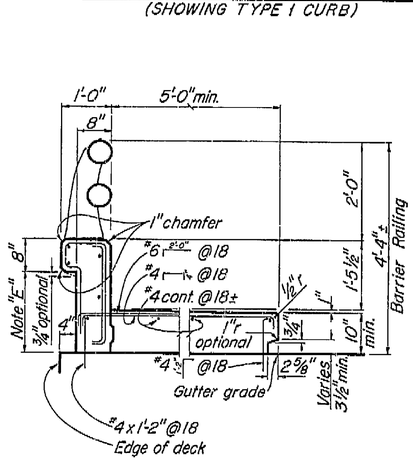


TYPE 2
Conc. 3.43 cu. ft. / lin. ft.
Reinf. 14.7 lbs. / lin. ft.



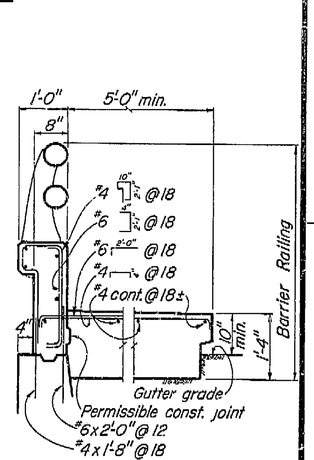
TYPE 2A
Conc. 4.30 cu. ft. / lin. ft.
Reinf. 17.3 lbs. / lin. ft.

Note: Type 1A and 2A are similar to Type 1 and 2 except as noted.



TYPE 5
Conc. 6.10 cu. ft. / lin. ft.
Reinf. 17.2 lbs. / lin. ft.
For 5'-0" width

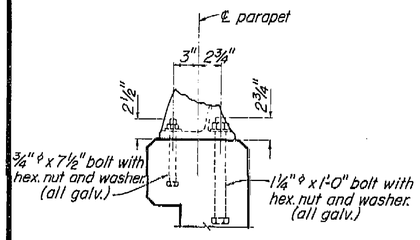
Conc. 0.84 cu. ft. / lin. ft.
Reinf. 2.1 lbs. / lin. ft.
Per additional ft. (width)



TYPE 5A
Conc. 8.35 cu. ft. / lin. ft.
Reinf. 19.7 lbs. / lin. ft.

Conc. 1.34 cu. ft. / lin. ft.
Reinf. 2.1 lbs. / lin. ft.

TYPICAL CURB AND RAIL SECTIONS



RAIL POST ANCHOR BOLT DETAIL
Scale: 1 1/2" = 1'-0"

AS BUILT PLANS
Contract No. 61-671367
Date Completed
Document No. 6000 1055

Note:
A. Railing shall conform to horizontal and vertical alignment.
B. Posts shall be normal to railing.
C. Curb and wall exp. jts. to be located at all deck joints, at ℄ piers or bents and at uniform spacing (40' max.) between those specified. Joint size to be 1/4" min. and increased to match deck joints.
D. Construct 3" deep x 12" wide overflow scupper 2" above deck at low points in grade.
E. Dimension will vary with cross-slope of deck.
F. Walls are to be backfilled before railing is placed.
G. Clearance to reinforcing steel in curb and railing to be 1".

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 11-2-62 AS SUBMITTED BY RESIDENT ENGINEER [illegible]
TRACINGS CORRECTED BY DJL DATE 12-6-62

BRIDGE DEPARTMENT DESIGN SECTION		10/60	STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS
Section Supervisor R.E. Fiedler		CHESTNUT AVENUE OVERCROSSING	
DESIGN	By R.E. GLOVER	BARRIER RAILING SHEET 1	
	Checked T.D. INOUYE		
DETAILS	By J.F. PINA		
	Checked T.D. INOUYE		
QUANTITIES	By L.G. LOW		
	Checked N. RAABE		
Except as noted SCALE 3/4" = 1'-0"	BRIDGE 42-208	XS-9-63 FILE	DRAWING C-6696-9
Disregard prints bearing earlier numbers →	PREL. DRAWING No. P-		

420

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

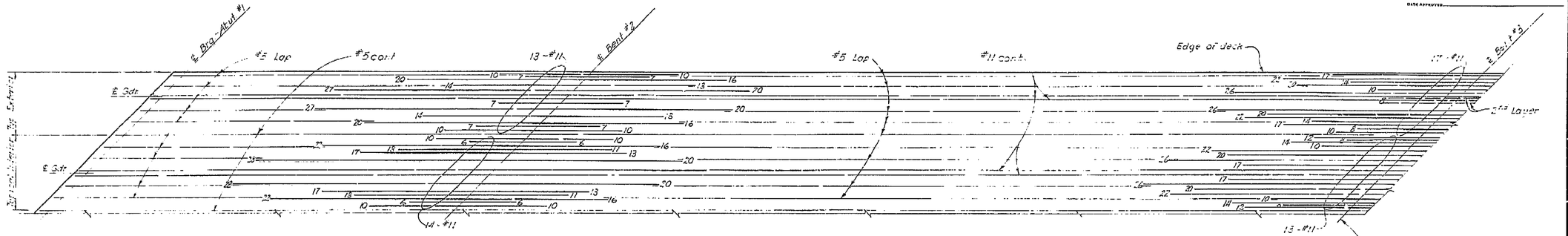
ClipPDF - www.fastio.com
MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50' 0 200 400 600
SCALE 1" = 20' 0 100 200 300

FED. ROAD DIST. NO.	STATE	F. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
7	CALIF.		257	262

DIST	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
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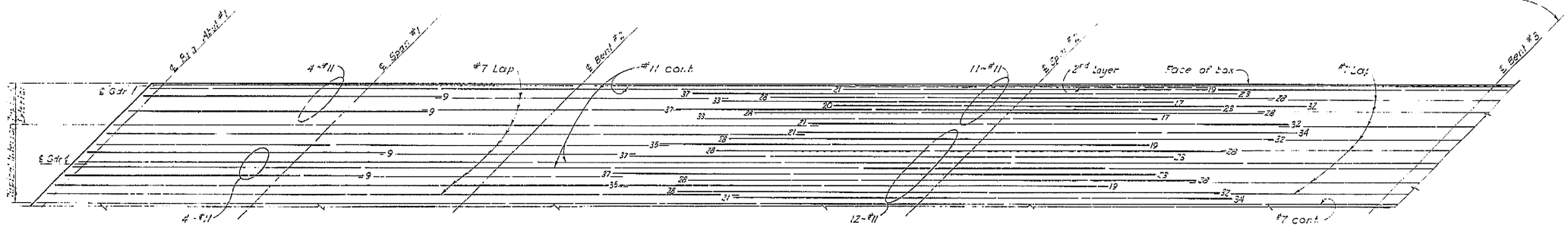
BRIDGE ENGINEER — CIVIL ENGINEER — LICENSE 5595

DATE APPROVED



TOP REINFORCEMENT

Scale: 3/16" = 1'-0"

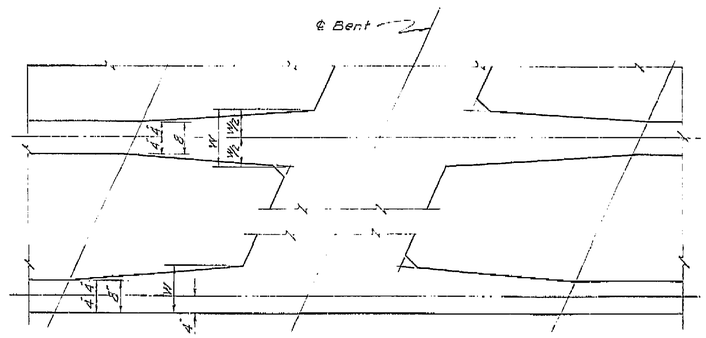


BOTTOM REINFORCEMENT

Scale: 3/16" = 1'-0"

Notes:

Number at end of bars indicate distance in feet from ℄ Bent for Top Reinf & from ℄ Span for Bottom Reinf.



TYPICAL GIRDER FLARE DIAGRAM

AS BUILT PLANS
Contract No. 61-671307
Date Completed
Document No. 6000 1055

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 11-2-72 AS SUBMITTED BY RESIDENT ENGINEER O.T.P.
TRACINGS CORRECTED BY: DTL DATE: 12-6-72

BRIDGE DEPARTMENT
*** DESIGN SECTION *** 4
Project Designer: Ray E. Glover
Chief Designer: R. F. Fetter

DESIGN	By Ray E. Glover 7/60	Checked	J. D. Hannah 4/61
DETAILS	By Carl Jensen 6/60	Checked	J. D. Hannah 4/61
QUANTITIES	By J. A. Gow 4/61	Checked	M. Curtis 4/61
SPECIFICATIONS	By	Checked as to Rules, Ordinances	

Approval Recommended by: [signature] Engineer of Design — Civil Engr. License No. 8439

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CHESTNUT AVENUE OVERCROSSING

GIRDER REINFORCEMENT

SCALE AS SHOWN	BRIDGE 42-206	FILE	DRAWING C-6696-6

Disregard prints bearing earlier numbers → PREL. DRAWING No. P- 6696 | 16 | 17

417

257

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 11-2-72 SIGNATURE [signature] TITLE [illegible]

ClibPDF - www.fastio.com

SCALE 1"= 50' 0 200 MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM 400 600 SCALE 1"= 50' 0 SCALE 1"= 20' 100 MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM 200 SCALE 1"= 20' 300

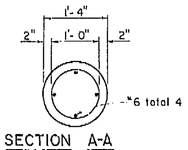
FED. ROAD DIV NO	STATE	PROJ NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
.7	CALIF.			259	262

DIST	COUNTY	ROUTE	SECTION	SHEET NO	TOTAL SHEETS
VI	Fre	41	B	3	44

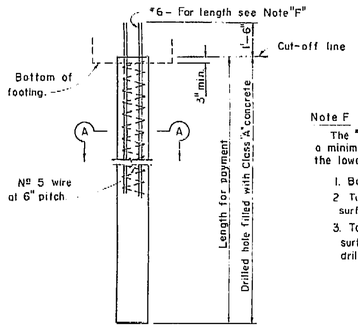
BRIDGE ENGINEER — CIVIL ENGINEER — LICENSE 6885

DATE APPROVED: JAN 1960

AS BUILT PLANS
Contract No. 61-671367
Date Completed
Document No. 1000 1055

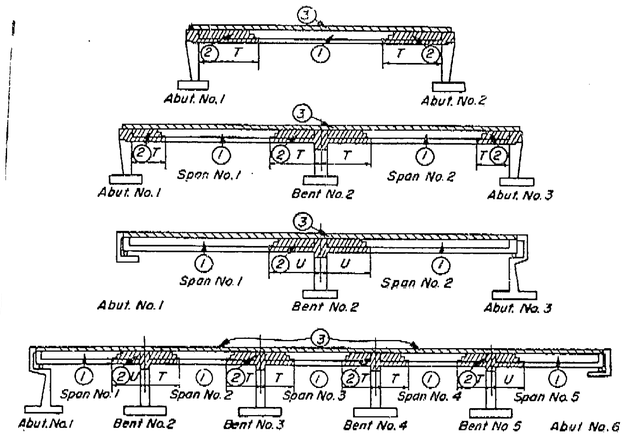


SECTION A-A



CAST-IN-DRILLED HOLE
CONCRETE PILE
Concrete to be placed in dry hole

Note F
The #6 bars shall extend a minimum of 12'-0" below the lowest of the following:
1. Bottom of footing.
2. Top of final ground surface.
3. Top of original ground surface when piles are drilled through fill.



BOX GIRDER SUPERSTRUCTURE PLACING DIAGRAM

Numbers (1) and (2) indicate sequence of placing bottom slab and girder stem concrete. (2) may be placed simultaneously with (1) when approved by the Engineer, and provided that the (1) sections are placed in adjoining spans.

Top slab concrete (3) shall be placed separately from (1) and (2). (3) may be placed continuously or in parts as approved by the Engineer, however the only joints permitted shall be located within 2'-0" of the girder joints between (1) and (2).

$T = \frac{1}{8}$ span length

$U = \frac{1}{4}$ span length

For any deviation from the above the contractor shall submit a diagram to the Engineer.

GENERAL NOTES

Specifications:
Design: A.A.S.H.O. dated 1957 with revisions and as supplemented by Bridge Planning and Design Manual.
Construction: Standard Specifications, Division of Highways, dated January 1960 and the Special Provisions.

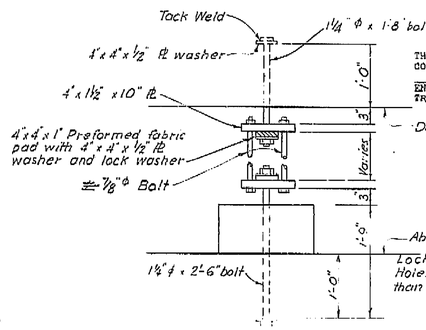
Live Loading: H20-S16-44 and alternative.

Unit Stresses:
Reinforced Concrete:
$f_s = 20{,}000$ p.s.i.
$n = 10$
$f_c = 1{,}200$ p.s.i.

Structural Steel:
$f_s = 18{,}000$ p.s.i.

Footing Pressure. 4 tons p.s.f.

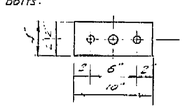
Pile Loading: 45 tons. Type. Concrete



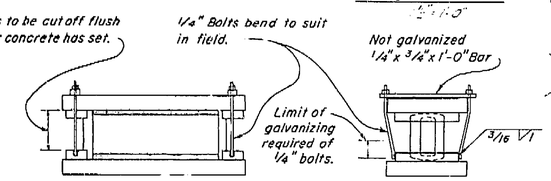
TIE DOWN ASSEMBLY

All metal parts to be galv after fabrication. Bottom half similar to top. To be located on ℄ Bearing.
Scale: 1"=1'-0"

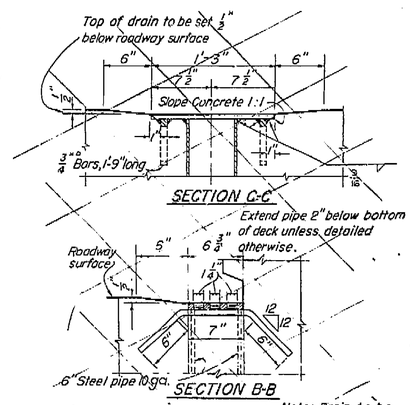
Lock washers under all nuts. Holes in plates to be ⅛ larger than bolts.



4-1½x10" PLATE
½"=1'-0"

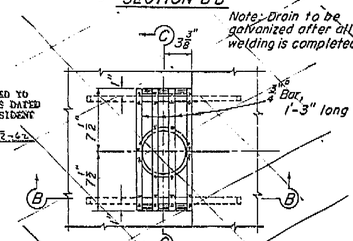


DETAIL OF ERECTION BOLTS
Scale 1½"=1'-0"



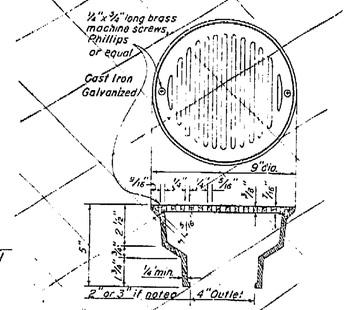
SECTION C-C

SECTION B-B

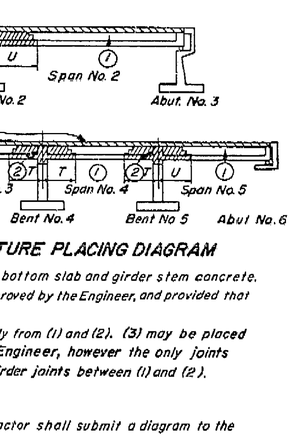


PLAN

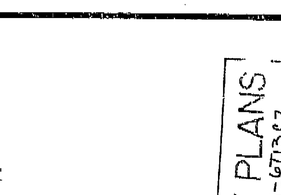
DRAIN DETAIL TYPE "A"
Required
Scale 1½"=1'-0"



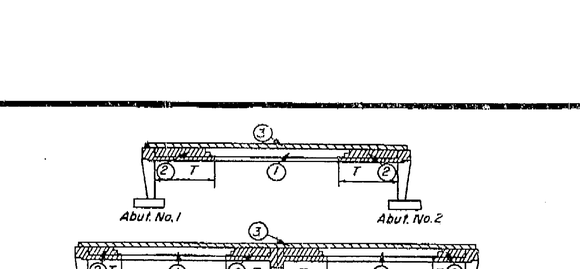
AREA DRAIN
Required



TOP PLATE



BOTTOM PLATE PLAN



BOTTOM PLATE PLAN

END VIEW OF ROCKER
Scale: 6"=1'-0"

10"x22" FIXED BEARING ASSEMBLY
None Required Scale 1½"=1'-0"

NOTE: Set bottom plate in forms. Place concrete directly against bottom plate. All bearing assemblies to be galvanized after fabrication.

10"x22" EXPANSION BEARING ASSEMBLY
8 Required Scale 1½"=1'-0"

BRIDGE DEPARTMENT	DESIGN SECTION		
Project Designer	Ray E. Glover		
Chief Designer	R. F. Pittis		
DESIGN	Ray E. Glover 9/60	Checked	J.D. Shirey 9/60
DETAILS	" Geo. T. Rivera 9/60	Checked	J.D. Shirey 9/60
QUANTITIES	" L. Foster 9/60	Checked	M. Ault 9/60
SPECIFICATIONS	"	Checked and Approved	
Approval Recommended by		Chief of Structural Design	5435

9/59

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CHESTNUT AVENUE OVERCROSSING

STANDARD DETAILS NO. 2 (BOX GIRDER)

SCALE	As Noted	BRIDGE	42-206	05-16-40 FILE	DRAWING	C-6696-B

PIREL. DRAWING No. P- 6696 | 8 | 18

259

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

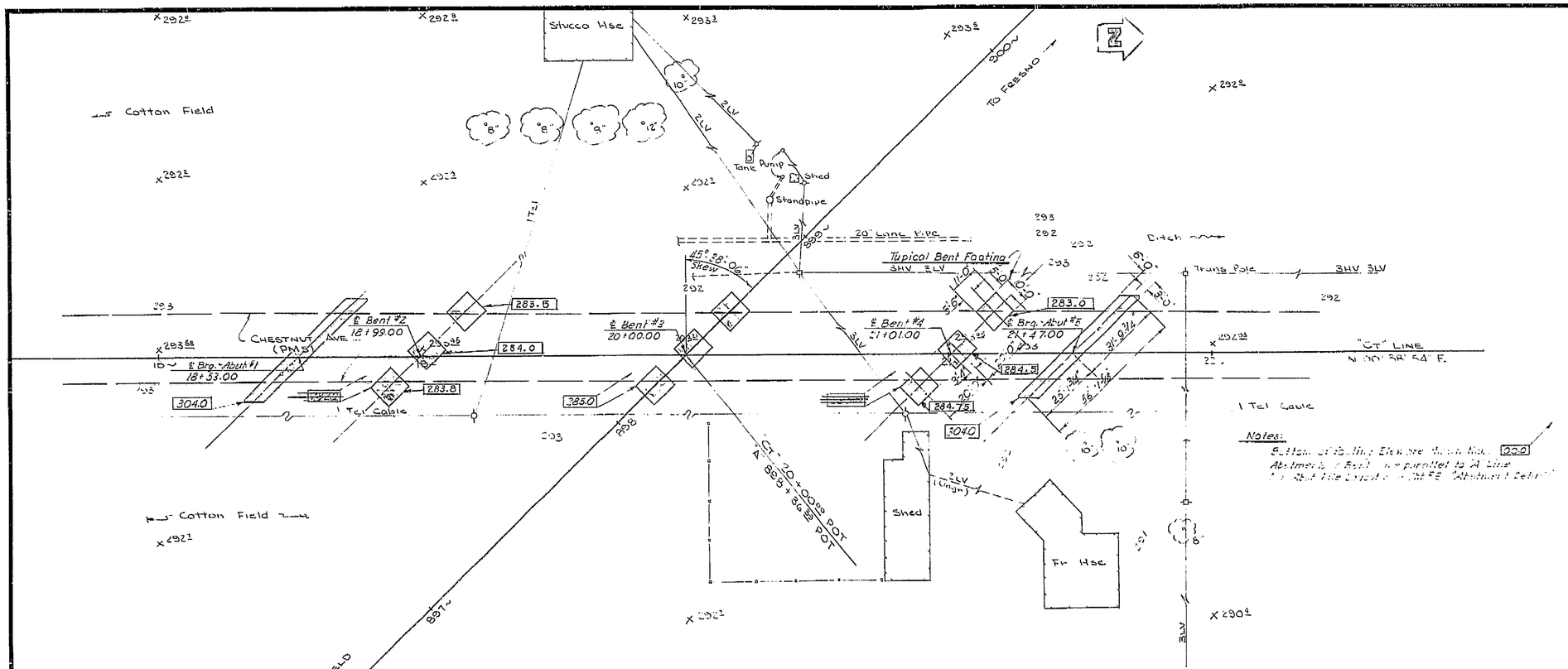
DATE _____ SIGNATURE _____ / TITLE _____

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"= 50'
SCALE 1"= 20'
ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
7	CALIF.			253	262

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	Fre				

DATE APPROVED:



BM "CHESTNUT"
F.I. RR spike in PP 302 Lt
of ℄ Bent #2
Sta 18+42
EL 302.92

BM #2.52
F.I. RR spike in PP 301 Lt
of ℄ Brg. Abut #1
Sta 18+22
EL 292.88

LEVEL DATUM: USC&GS MSL
FOR ALIGNMENT TIES SEE DR 6696-2
CONTOURS AS OF 5-59
SITE PLAN TO SUPPLEMENT DISTRICT DATA.
SURVEY BY WDB DATE 9-59
DRAWN BY WDB DATE 9-59
TRACED BY JS DATE 9-28-59

253

AS BUILT PLANS
Contract No. 61-671367
Date Completed
Document No. 6000 1055

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 11-3-62, AS SUBMITTED BY RESIDENT ENGINEER D.T. Painter
TRACINGS CORRECTED BY JRC DATE 12-13-62

BRIDGE DEPARTMENT
DESIGN SECTION
Project Designer Ray E. Glover
Chief Designer Ray E. Glover

DESIGN	Ray E. Glover 4/60	Checked J.L. Degnan 4/60
DETAILS	By [illegible] 4/60	Checked J.L. Degnan 4/60
QUANTITIES	By [illegible] 4/60	Checked M. Daniel 4/60
SPECIFICATIONS	By	Plans and Memo. Compared

Approval Recommended by B. W. Thurman, Engineer of Design — Civil and Structural Engr. License No. 5429

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CHESTNUT AVENUE OVERCROSSING

FOUNDATION PLAN

SCALE 1" = 20' | BRIDGE 42-206 | FILE | DRAWING 6696-2

PPI DRAWING NO. P. 6696 2 13

PR 6696-3 413

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 12-28-71 SIGNATURE James E. Corvi TITLE SR ENGR

ClibPDF - www.fastio.com

SCALE 1" = 60 0 100 200 MICROFILM STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS MICROFILM 300 400 500 600 SCALE 1" = 50 700 SCALE 1" = 20 MICROFILM STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS MICROFILM 200 SCALE 1" = 20 300

FED. ROAD DIV. NO.	STATE	PROJ. NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
7	CALIF.			252	262

DIST.	COUNTY	ROUTE	SECTION	SHEET NO	TOTAL SHEETS
VI	Fre			99	

RM. 15.5

APPROXIMATE QUANTITIES

*STRUCTURE EXCAVATION (BRIDGE)	930 C.Y.
*STRUCTURE BACKFILL (BRIDGE)	550 C.Y.
C.I.O.H CONCRETE PILES	630 L.F.
*CLASS "A" CONCRETE (BRIDGE)	1,090 C.Y.
*BAR REINFORCING STEEL (BRIDGE)	290,000 LBS.
MISCELLANEOUS METAL (BRIDGE)	1,800 LBS.
BARRIER RAILING (TYPE 1)	330 L.F.
BARRIER RAILING (TYPE 5)	328 L.F.

*FINAL QUANTITIES

18+75.00 B.V.C. El. 306.55 +5.0%

850' V.C. - R/C = 1.176 %/Sta.

24+25.00 E.V.C. El. 306.55 -5.0%

C.I.O.H Concrete Piles in Abt. #5 Specified Tip Elev. = 265.0

PROFILE GRADE

B.B. — Total Length of Bridge = 301' - 1 3/4" — E.B.

3'-6 7/8" | 46'-0" | 101'-0" | 101'-0" | 46'-0" | 3'-6 7/8"

℄ Brg. — ℄ Brg.

El. 304.0 — El. 304.0

15'-4" Min. Clr.

Approx. Orig. Ground @ Rt. Edge of Deck

Abut. #1 — Bent #2 — Bent #3 — Bent #4 — Abut #5

Datum Line El. 270.0

El. 285.0

① Far Side ② Far Side

① Near Side ② Near Side

18 — 19 — 20 — 21

ELEVATION

Scale: 1" = 20'-0"

① = Paint Bridge No. & Date.

② = Paint Chestnut Ave. O.C.

1'-0" | 5'-0" | 32'-0" Roadway | 4"

4'-0" | 12'-0" | 2'-3" | 2'-3"

Barrier Railing Type 5

℄ Chestnut Ave — Profile Grade

-1 1/2% — -1 1/2%

Barrier Railing Type S 1

5'-2 3/8" — 5'-2 3/8"

Level

TYPICAL SECTION

Scale: 1/8" = 1'-0"

B.M. Ch-1-S
Chiseled mark on wheel guard at Abut #1 Lt. W.W.
Elev. 316.364

Toe of Fill

Top of Fill

1 1/2:1

316.620 | 316.782 | 317.184 | 317.442 | 317.710 | 317.844 | 317.748 | 317.472 | 316.980 | 316.527 | 316.140 | 316.770

45° 38' 06" | N 43° 43' 00" W 699 | A Line | TO FRESNO

3' | 6' | 12' | 12' | 8' | 3'

18+49.43 B.B. El. 315.84 — ℄ Bent #2 18+99.00 — El 316.57 — 20+00.00 Chestnut 698+36.39 "A" Line — El. 317.18 — ℄ Bent #4 21+01.00 — El 316.57 — 21+50.57 E.B. El. 315.84 — ℄ CHESTNUT AVE. N 00° 38' 54" E

18 — 19 — 20 — 21 — 22

32'-0" Roadway

316.236 | 316.862 | 317.068 | 317.130 | 317.130 | 317.114 | 317.015 | 316.809 | 316.345 | 316.314 | 317.140 | 317.420

El. 316.770 | El. 317.035 | El. 316.382 | 12" CMP El. 316.382 | 36" CMP El. 316.862 | 36" CMP El. 317.130 | 36" CMP El. 316.809 | 36" CMP El. 316.345

1 1/2:1 | 5' | 36' | 5' | 12' | 11' | Future Lane | 11' | 12' | 5' | 36' | ℄ L2

Top of Fill | Toe of fill | TO BAKERSFIELD

PLAN

Scale: 1" = 20'-0"

INDEX TO PLANS

Sheet No.	Title
1	General Plan
2	Foundation Plan
3	Abutment Details
4	Bent Details
5	Girder Layout & Typical Section
6	Girder Reinforcement
7	Standard Details No. 1
8	Standard Details No. 2
9	Barrier Railing 1
10	Barrier Railing 2
11	Log of Test Borings

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 11-8-62, AS SUBMITTED BY RESIDENT ENGINEER O. T. PAINTER
TRACINGS CORRECTED BY: DJL DATE: 12-14-62

AS BUILT PLANS
Contract No. 61-6T13C7
Date Completed _____
Document No. 6000 1055

L.L. = H20-S16-44
℄ Alternative

For General Notes See Sheet No. 6

BRIDGE DEPARTMENT
DESIGN SECTION 4
Project Designer: Ray E. Glover
Chief Designer: R. E. Fellers

DESIGN	*Ray E. Glover 7/60	Checked R.E.F. 7/60	
DETAILS	By Parker, Du Puis 12-59	Checked R.E.F. 7/60	
QUANTITIES	By L. L. Lee 4/60	Checked M. Bond 6/60	
SPECIFICATIONS	By	Plans and Specs. Compared	

Approval Recommended by: [illegible] Assistant Chief of Design — Civil Engr. License No. 6939

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

61-6T13C7

CHESTNUT AVENUE OVERCROSSING
LOCATED ABOUT 4.0 MILES SOUTHEAST OF THE SOUTH CITY LIMIT OF FRESNO IN FRESNO COUNTY

GENERAL PLAN

SCALE AS NOTED	BRIDGE 42-206	FILE	DRAWING 2-6696-1

Disregard prints bearing earlier numbers → PREL. DRAWING NO. P-6616

252

412

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DATE 12-31-71 SIGNATURE _____ TITLE _____

SCALE 1" = 50' 0 200 400 600 MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50' 0 100 200 300 MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 20' 0 50 100 200 MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 20' 0 50 100 300 MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
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California Department of Transportation
Division of Maintenance

Structure Maintenance and Investigations

BRIDGE

INSPECTION

RECORDS

INFORMATION

SYSTEM

The requested documents have been generated by BIRIS.

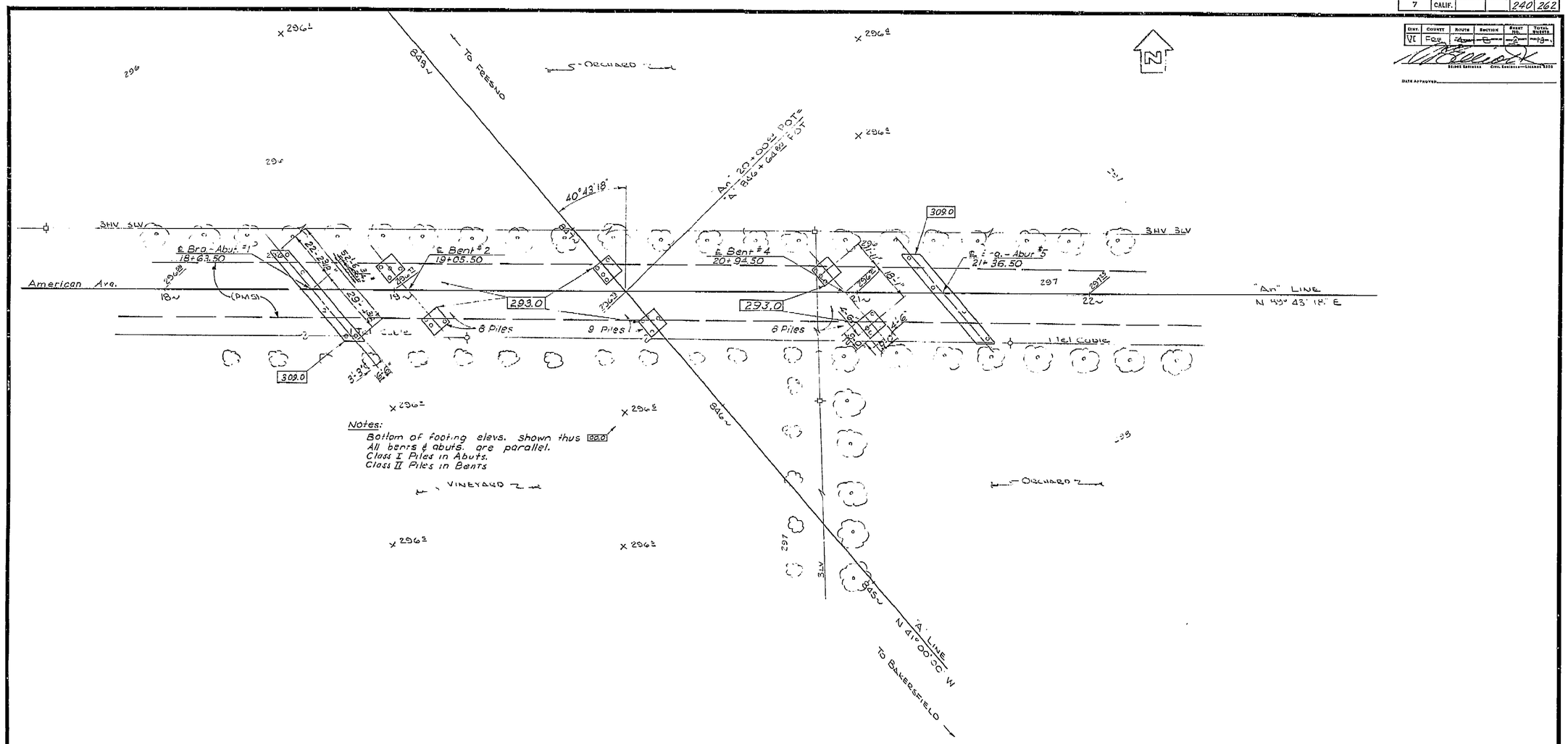
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Records for “Confidential” bridges may only be released outside the Department of Transportation upon execution of a confidentiality agreement.

FED. ROAD DIST. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			240	262

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
06	Fre	41	B	2	13

DATE APPROVED



Notes:
Bottom of footing elevs. shown thus 22.0
All bents & abuts. are parallel.
Class I Piles in Abuts.
Class II Piles in Bents

EL "American"
F.H. - R.R. spike in T.P.
20'Rt Ahd 12+31.2
EL 296.25

F.H. "A"
Cut + R.R. spike in H.H.
Ahd 4Rt Ahd 20+84
EL 299.21

LEVEL DATUM USC & GS MSL
FOR ALIGNMENT SEE PR 6685-2
CONTOURS AS OF 9-59
SITE PLAN TO SUPPLEMENT DISTRICT DATA.
SURVEY BY RDR DATE 9-59.
DRAWN BY JFH DATE 9-59.
TRACED BY JS DATE 9-30-59

AS BUILT PLANS
Contract No. 61-671307
Date Completed
Document No. 6000 1055

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED
ENGINEER AS SUBMITTED BY RESIDENT
MARKINGS CORRECTED BY DATE

BRIDGE DEPARTMENT
DESIGN SECTION
Project Designer
Chief Designer

DESIGN	By	Checked J.O. Maxwell 7/60
DETAILS	By Charles D. Dow 1/60	Checked J.O. Maxwell 7/60
QUANTITIES	By	Checked J.O. Maxwell 7/60
SPECIFICATIONS	By	Plans and Specs. Compared

Approval Recommended by Engineer of Design — Civil and Structural Engr. License No. 5415

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

AMERICAN AVENUE OVERCROSSING

FOUNDATION PLAN

SCALE 1" = 20' | BRIDGE 42-205 | FILE L-12 | DRAWING C-6695-2

PREL. DRAWING NO. P- 8 22

4011 PR 6695-2

240

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DATE 12-28-71 SIGNATURE James E. Ward TITLE SR ENGR

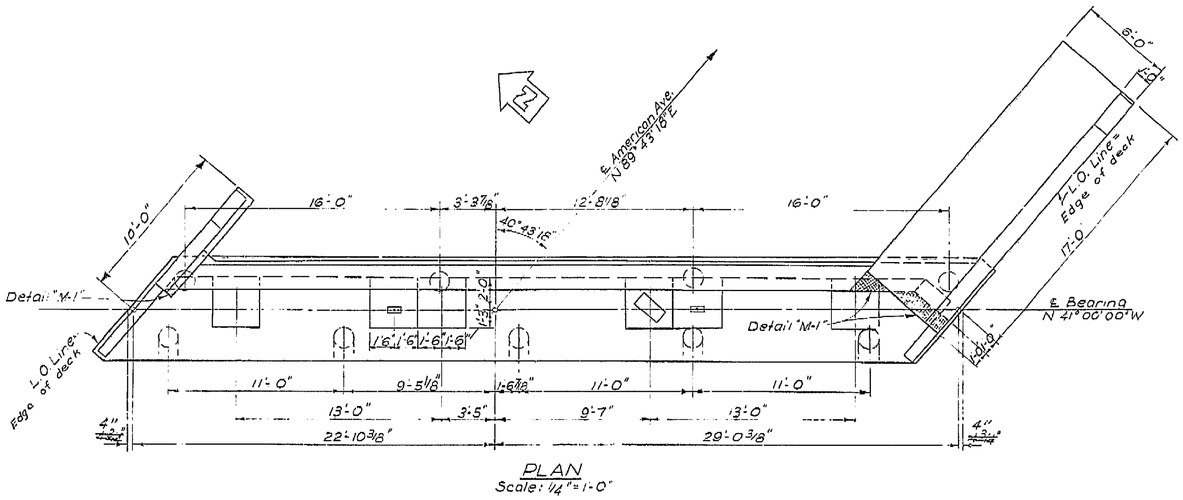
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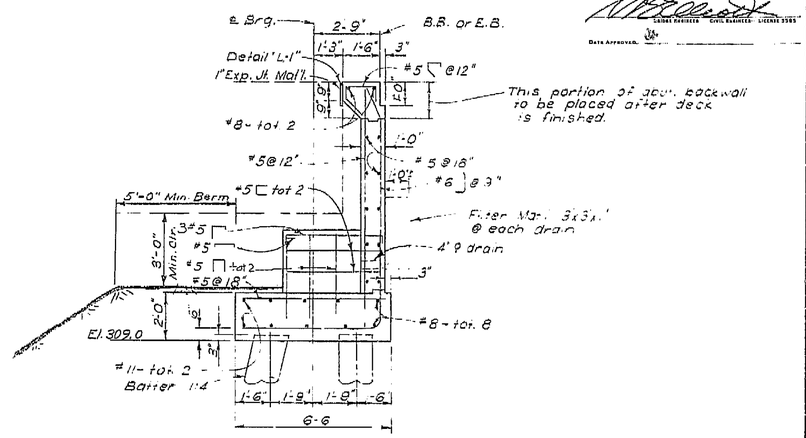
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7	CALIF.			242	362

DIST.	COUNTY	ROUTE	SECTION	SHEET NO	TOTAL SHEETS
VI	Fre				

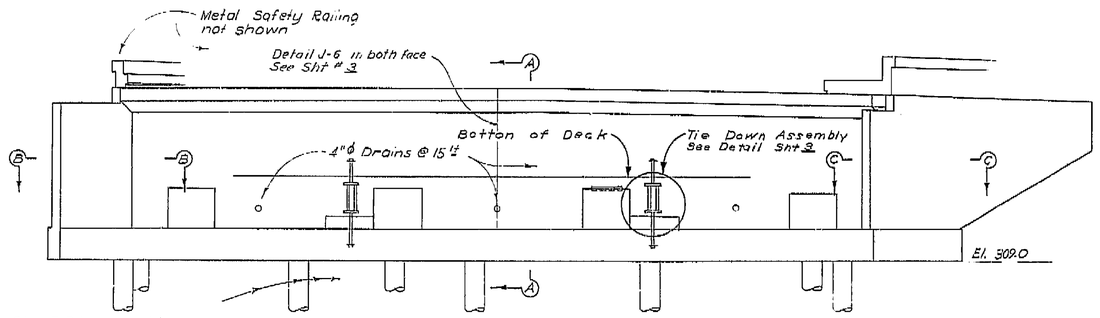
Date Approved: [illegible]



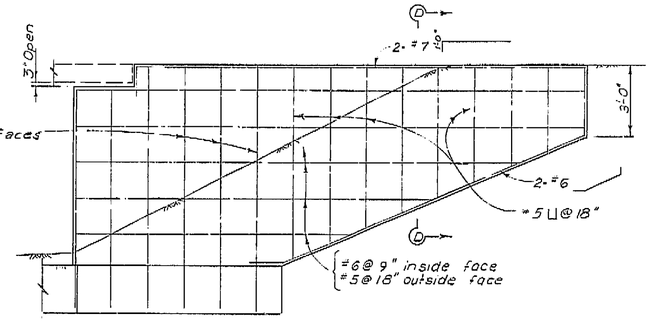
PLAN
Scale: 1/4"=1'-0"



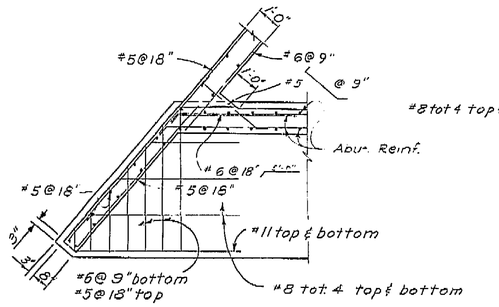
SECTION A-A
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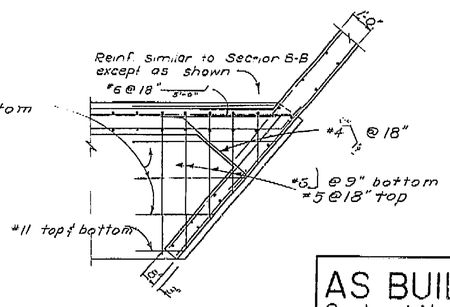
ELEVATION
Scale: 1/4"=1'-0"



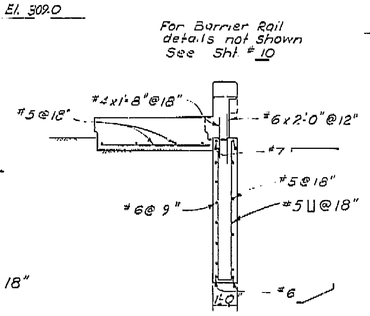
WINGWALL ELEVATION
Scale: 3/8"=1'-0"



SECTION B-B
Scale: 3/8"=1'-0"



SECTION C-C
Scale: 3/8"=1'-0"



SECTION D-D
Scale: 3/8"=1'-0"

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED _____, AS SUBMITTED BY RESIDENT ENGINEER _____
ENGINEER'S CORRECTION BY _____ DATED _____

AS BUILT PLANS
Contract No. 61-6T1307
Date Completed _____
Document No. 6000 1055

BRIDGE DEPARTMENT
''' DESIGN SECTION ''' 4
Project Designer: [illegible]
Chief Designer: R. L. Fields

DESIGN	By [illegible]	Checked	10 Mylars 10 Pos
DETAILS	By Charles De Soo 1160	Checked	10 Mylars
QUANTITIES	By [illegible]	Checked	10 Mylars
SPECIFICATIONS	By	Plans and Revns. Completed	

Approved Recommended by: [illegible] Engineer of Design — Civil Engr. License No. 5439

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

AMERICAN AVENUE OVERCROSSING

ABUTMENT NO. 5

SCALE AS NOTED	BRIDGE 42-205	FILE	DRAWING C-6695-4

Disregard prints bearing earlier numbers → PREL. DRAWING No. P- 6695 | 8 | 74 | 24

242

402

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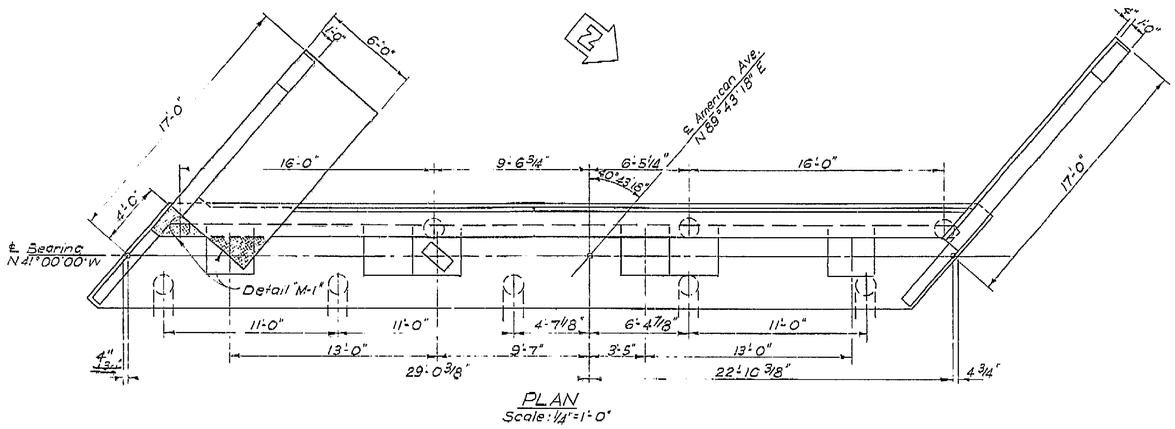
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0 100 200 300 400 500 600 0 50 100 50 200 50 300
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FED. ROAD DIV. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			241	262

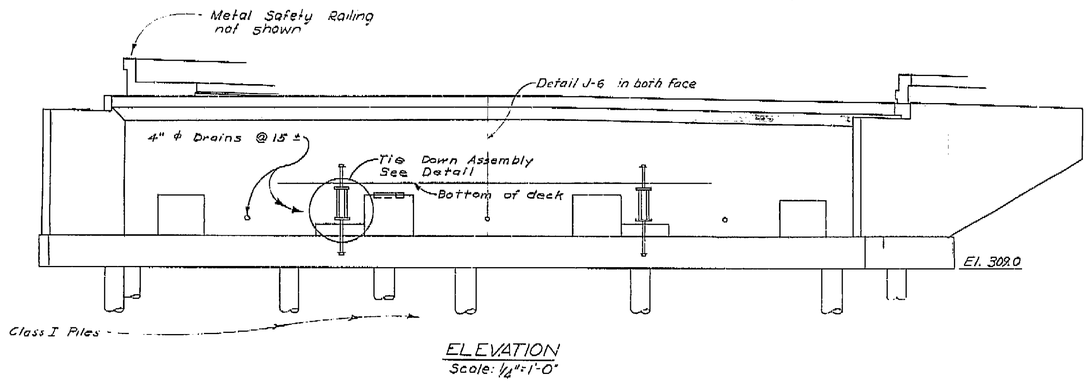
DIST	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
V	Fre			3	4

DATE APPROVED

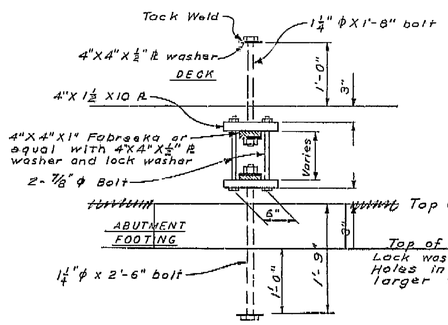


PLAN
Scale: 1/4"=1'-0"

Note:
For details not shown
See Abutment No. 5

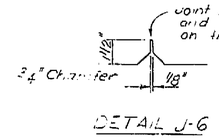


ELEVATION
Scale: 1/4"=1'-0"



TIE DOWN ASSEMBLY

All metal parts to be galv. after fabrication. Bottom half similar to top. To be located on ℄ Bridge



DETAIL J-6

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED _____, AS SUBMITTED BY RESIDENT ENGINEER

FEATURES CORRECTED BY _____ DATE _____

AS BUILT PLANS
Contract No. 61-6T1307
Date Completed _____
Document No. 6000 1055

BRIDGE DEPARTMENT
DESIGN SECTION 4

Project Designer	Gork Nielsen		
Chief Designer	R.E. Smith		
DESIGN	By R.E. Smith	Checked	J.O. Mitchell
DETAILS	By Charles O. Carrillo	Checked	J.O.M.
QUANTITIES	By R.E. Smith	Checked	J.O.M.
SPECIFICATIONS	By	Plans and Procs. Engineer	
Approved Recommended by	Asst. Engineer of Design	Chief Engr. License No. 5439	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

AMERICAN AVENUE OVERCROSSING

ABUTMENT NO. 1

SCALE AS NOTED	BRIDGE 42-205	FILE	DRAWING 2-6695-3

Disregard prints bearing earlier numbers → PREL. DRAWING No. P- 26-5 | 7 | 75 | 23

241

401

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

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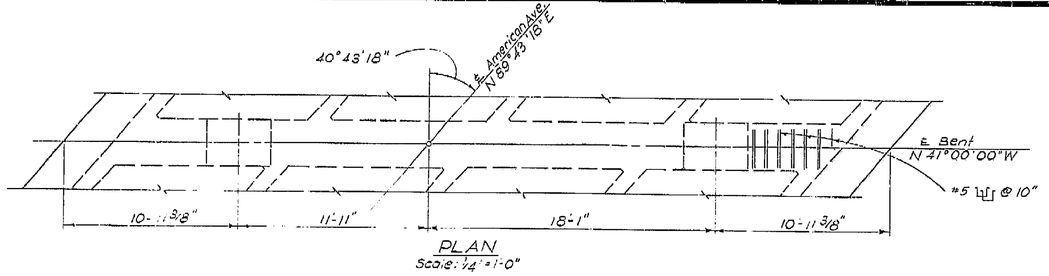
MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"= 50' 0 200 SCALE 1"= 50' 400 600 SCALE 1"= 20' 0 100 MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM 200 SCALE 1"=20' 300

FED. ROAD DIV. No.	STATE	PROJ. No.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			243	262

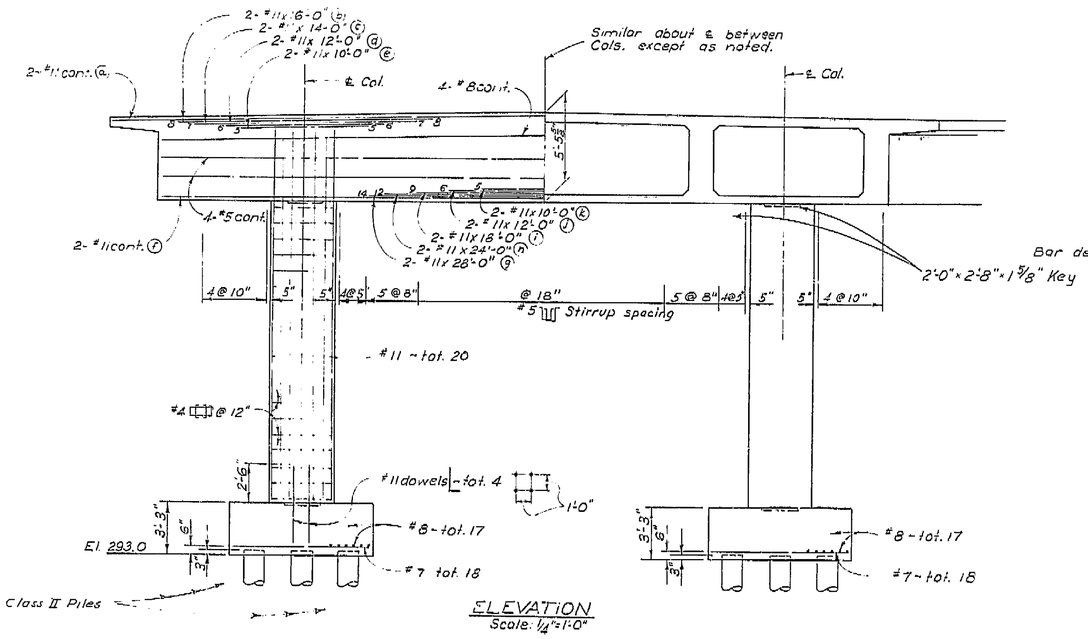
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	[illegible]	[illegible]	[illegible]	[illegible]

BRIDGE ENGINEER — CIVIL ENGINEER—LICENSE 5088

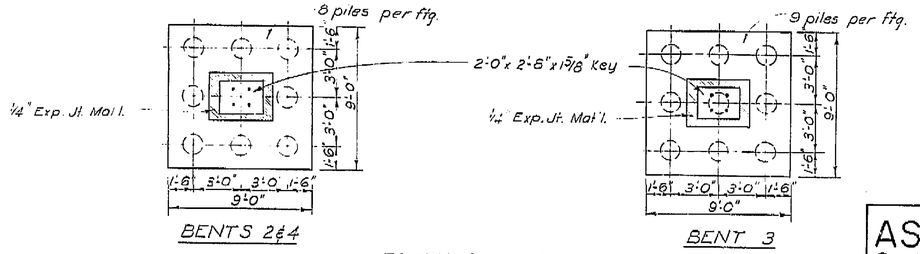
DATE APPROVED _____



PLAN
Scale: 1/4"=1'-0"



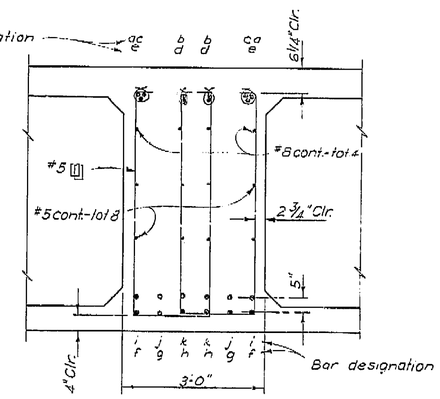
ELEVATION
Scale: 1/4"=1'-0"



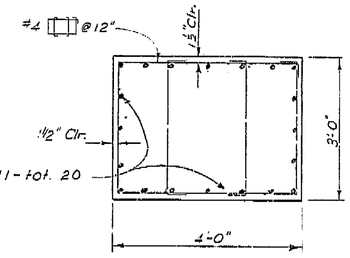
BENTS 2 & 4

BENT 3

FOOTING PLAN
Scale: 1/4"=1'-0"



CAP SECTION
Scale: 3/4"=1'-0"



COL. SECTION
Scale: 3/4"=1'-0"

THIS SET OF PLANS WAS REVISED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED _____, AS SUBMITTED BY RESIDENT ENGINEER _____.
DRAWINGS CORRECTED BY: _____ DATE: _____

AS BUILT PLANS
Contract No. 61-6T13C7
Date Completed _____
Document No. 6000 1055

BRIDGE DEPARTMENT
DESIGN SECTION 4
Project Designer: Gene R. Mitchell
Chief Designer: R. K. Fuller

DESIGN	By S.P. Hsu	Checked J.D. Mitchell
DETAILS	By Charles Du Pont	Checked [illegible]
QUANTITIES	By [illegible]	Checked [illegible]
SPECIFICATIONS	By	Plans and Specs. Compared

Approval Recommended by _____ Chief Engr. License No. 5439

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

AMERICAN AVENUE OVERCROSSING

BENT DETAILS

SCALE AS NOTED | BRIDGE 42-205 | FILE | DRAWING C-6695-5

Disregard prints bearing earlier numbers → PREL. DRAWING No. P- [illegible] 18 25

243

403

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 12-20-71 SIGNATURE [illegible] TITLE [illegible]

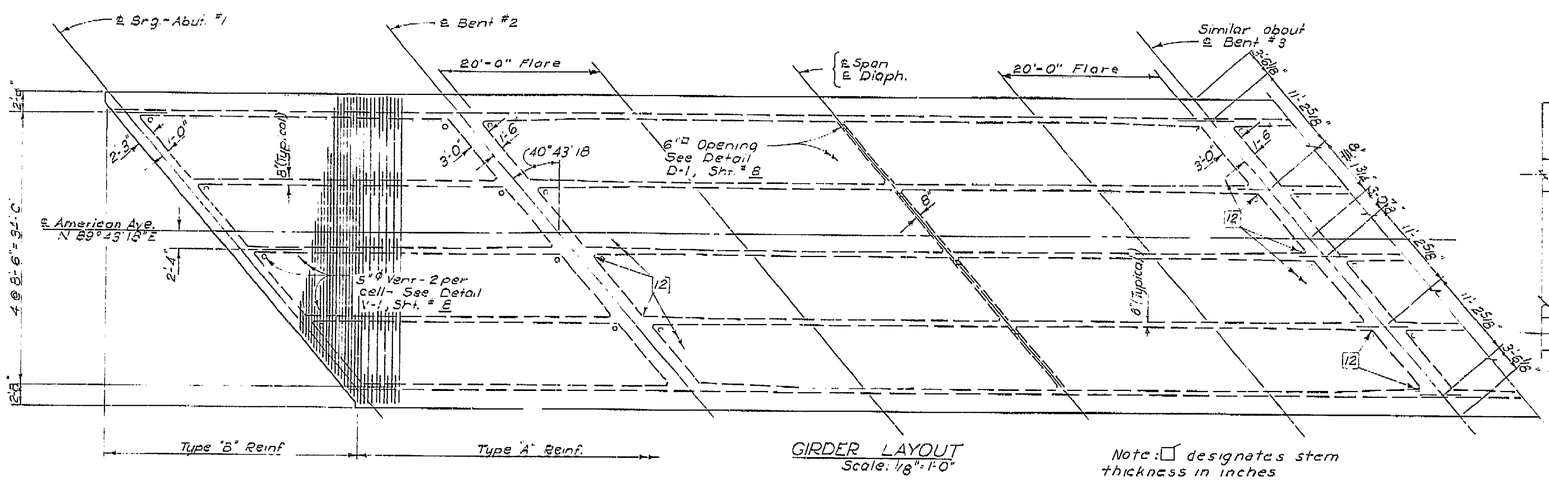
MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"= 50' 0 100 200 300 400 500 600 700
SCALE 1"= 50'
SCALE 1"= 20' 0 50 100
MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"= 20' 0 50 100 200 300
ClibPDF - www.fastio.com

FED. ROAD DIV. NO	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO	TOTAL SHEETS
7	CALIF.			244	262

DIST	COUNTY	ROUTE	SECTION	SHEET NO	TOTAL SHEETS
VI	Fre	[illegible]	[illegible]	8	[illegible]

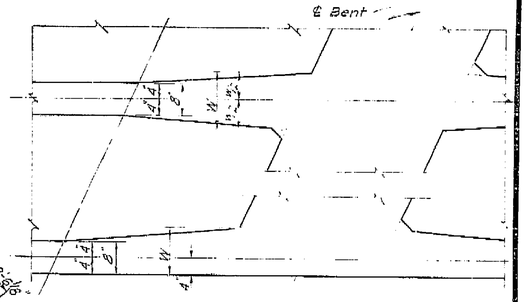
BRIDGE ENGINEER CIVIL ENG. - I.D. - LICENSE 5565

DATE APPROVED

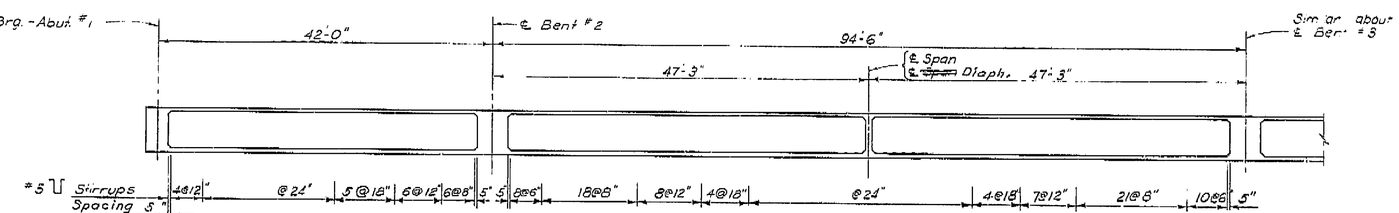


GIRDER LAYOUT
Scale: 1/8" = 1'-0"

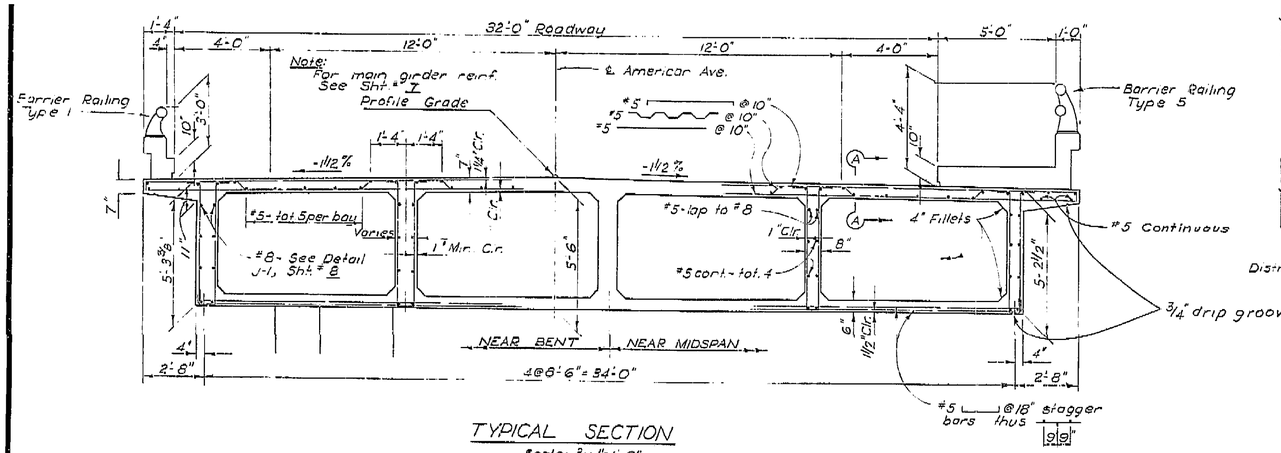
Note: □ designates stem thickness in inches



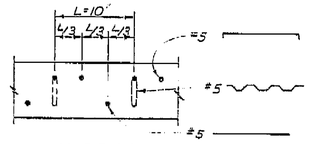
TYPICAL GIRDER FLARE DIAGRAM.



LONGITUDINAL SECTION
Scale: 1/8" = 1'-0"

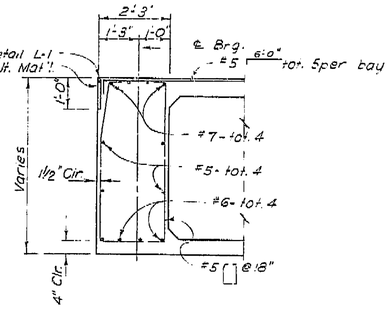


TYPICAL SECTION
Scale: 3/8" = 1'-0"



Distributor & temperature steel not shown

SECTION A-A
Scale: 1/2" = 1'-0"



END DIAPHRAGM
Scale: 1/2" = 1'-0"

BRIDGE DEPARTMENT *** DESIGN SECTION *** 4		
Project Designer: [illegible]		
Chief Designer: [illegible]		
DESIGN	By [illegible]	Checked [illegible]
DETAILS	By [illegible]	Checked [illegible]
QUANTITIES	By [illegible]	Checked [illegible]
SPECIFICATIONS	By	Title and Form [illegible]
Approval Recommended by: [illegible] Engineer of Bridge		Civil Engr. License No. [illegible]

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

AMERICAN AVENUE OVERCROSSING

GIRDER LAYOUT & TYPICAL SECTION

SCALE AS NOTED	BRIDGE 42-205	FILE	DRAWING C-6695-6

Disregard prints bearing earlier numbers → PREL. DRAWING No. P- [illegible]

404

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED _____, AS SUBMITTED BY RESIDENT ENGINEER _____. TRACING CORRECTED BY: _____ DATE: _____

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 12-23-71 SIGNATURE [illegible] TITLE [illegible]

AS BUILT PLANS
Contract No. 61-671307
Date Completed _____
Document No. 6000 1055

244

ClibPDF - www.fastio.com

SCALE 1" = 50' 0 200 MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM 400 600 SCALE 1" = 50' 0 SCALE 1" = 20' 100 200 MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM 300 SCALE 1" = 20'

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.			251	262

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
07	Fre.	Alameda Ave.	B	13	19

CIVIL ENGINEER—LICENSE NO.

BRIDGE ENGINEER

DATE APPROVED

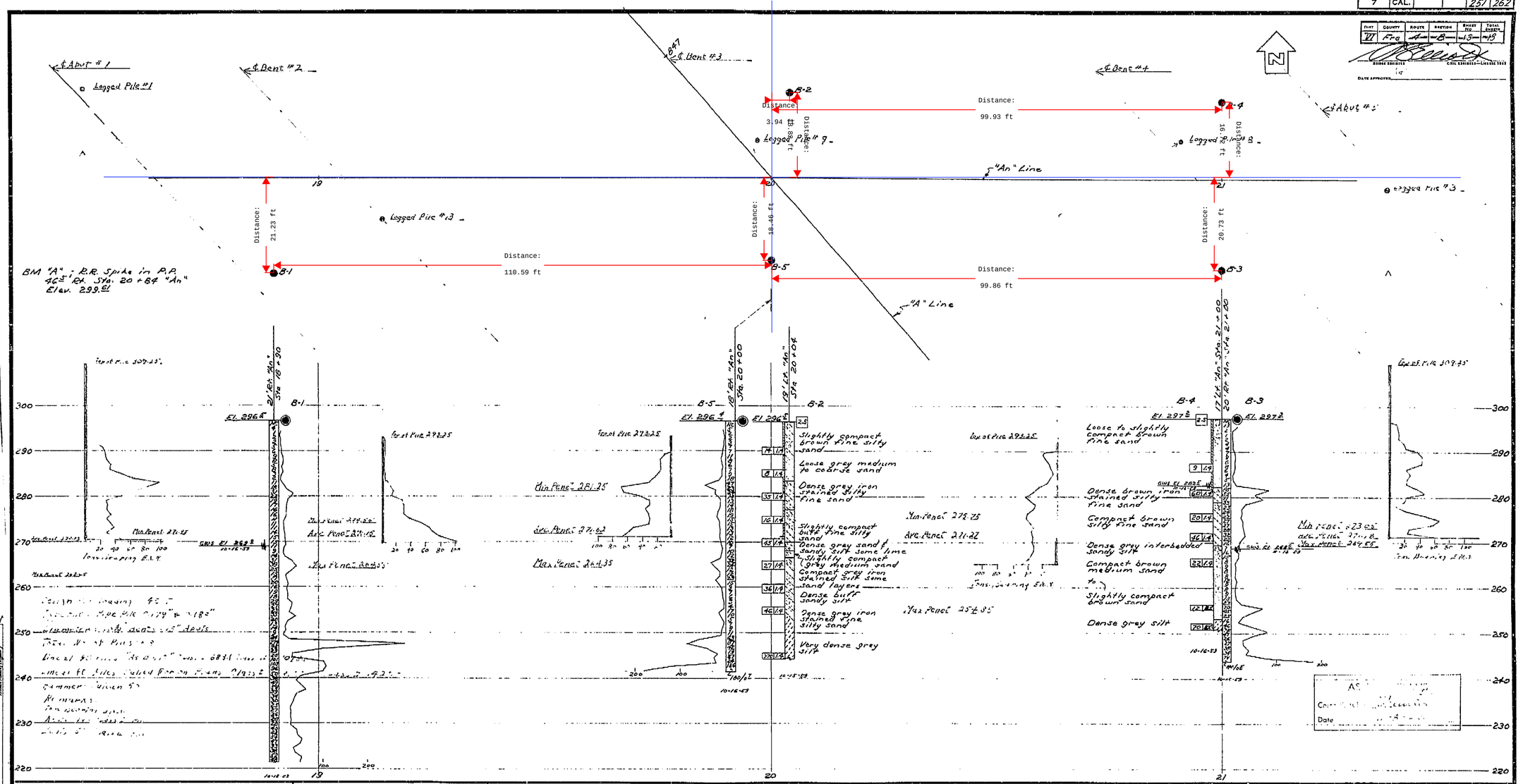
AS BUILT PLANS
Contract No. 61-671367
Date Completed
Document No. 16000 1055

FIELD STUDY	H. R. Hoose	11-18-59
DRAWN	H. M. Mackey	11-18-59
CHECKED	H. R. Hoose	11-18-59

Approved Recommended by

Chief, Bridge Department

251



CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS

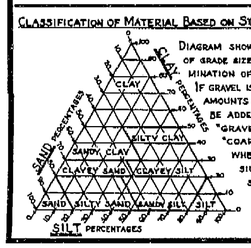


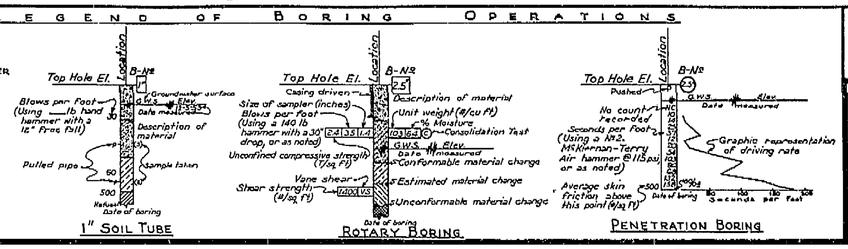
DIAGRAM SHOWING THE BASIS FOR ESTIMATES OF GRADE SIZE DISTRIBUTION USED IN DETERMINATION OF CLASS NAMES. IF GRAVEL IS PRESENT IN APPRECIABLE AMOUNTS THE TERM "GRAVELLY" MAY BE ADDED TO THE CLASS NAME, VIZ. "GRAVELLY SAND." THE TERMS "COARSE", "MEDIUM" AND "FINE" WHEN USED TO DESCRIBE SAND, SILT AND GRAVEL REFER TO STANDARD GRADE SIZE LIMITS.

LEGEND OF EARTH MATERIALS

- GRAVEL
- SAND
- SILT
- CLAY
- SANDY CLAY OR CLAYEY SAND
- SANDY SILT OR SILTY SAND
- SILTY CLAY OR CLAYEY SILT
- PEAT AND/OR ORGANIC MATTER
- FILL MATERIAL
- IGNEOUS ROCK
- SEDIMENTARY ROCK
- METAMORPHIC ROCK

LEGEND OF BORING OPERATIONS

- PLAN OF ANY BORING
- PENETROMETER
- 2½" CORE PENETROMETER
- SAMPLER BORING (DRY)
- ROTARY BORING (WET)
- AUGER BORING (DRY)
- JET BORING
- CORE BORING
- TEST PIT



NOTES

Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

AMERICAN AVENUE OVERCROSSING

LOG OF TEST BORINGS

SCALE	BRIDGE	FILE	DRAWING
1" = 10'	42-205	6-Fre-42	C-6695-13

PR-6695-4

PREL. DRAWING NO. P-6695 13

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"= 50'
SCALE 1"= 20'
ClibPDF - www.fastio.com

stop Revised KRB

"Detail J-1 etc. 7-56 KRB

1 J-5" exterior section. 1-57 KRB 2-57 RTK

il V-1 Rev. 7 RTK sed Detail 10-57 Chrysler

V-1 Note 58 RT

5, Soffit Light, or Det. J-1 and V-1. -58 RTE

oove + Detail 3/31/59 JFJ

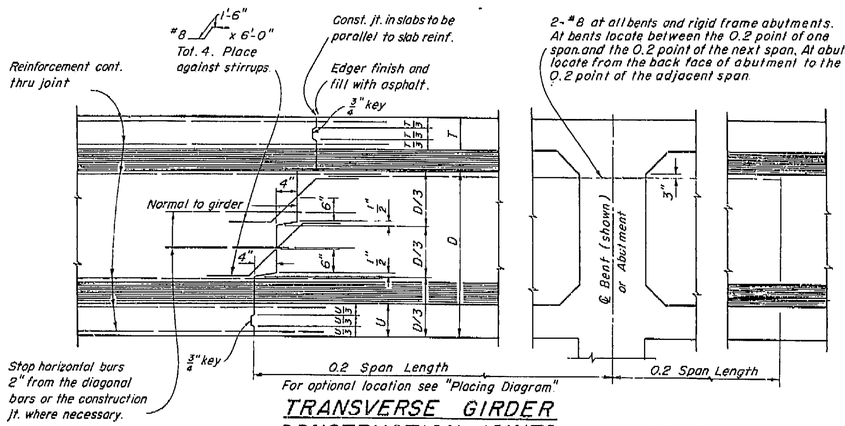
J-1, & V-1 -59 K

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF			246	262

DIST	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre			3	13

BRIDGE ENGINEER — CIVIL ENGINEER- LICENSE 5565

DATE APPROVED DEC 2 1959

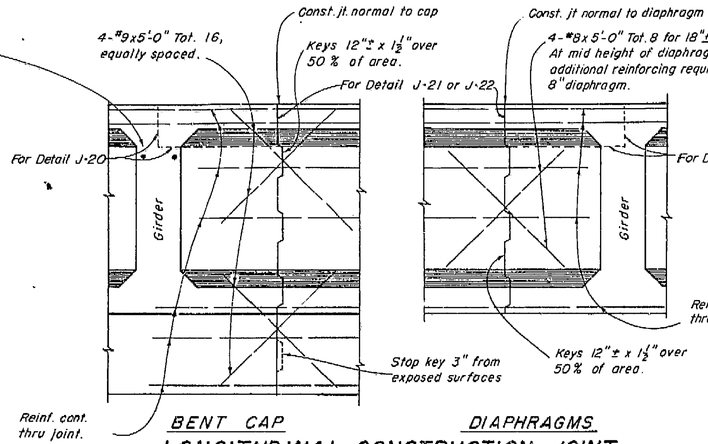


TRANSVERSE GIRDER CONSTRUCTION JOINTS

DETAIL J-3

REINFORCEMENT

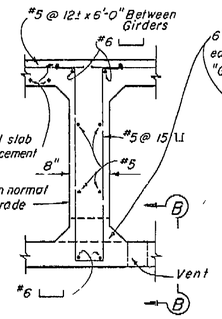
DETAIL J-1



BENT CAP DIAPHRAGMS

LONGITUDINAL CONSTRUCTION JOINT

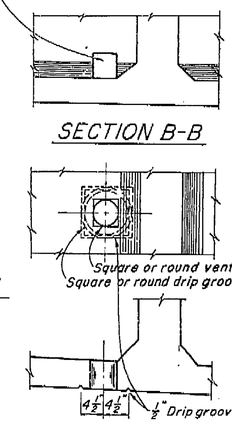
DETAIL J-4



INTERMEDIATE DIAPHRAGM SECTION

DETAIL D-1

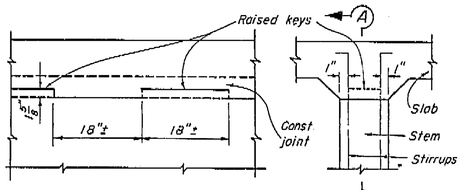
Note:
5"ϕ Vent in lower slab.
Min. of two vents per span in each bay between girders. One vent to be located at low point of span and other vent to be located at for end of span @ 1'-6" from face of Abut. or Bent. See "Girder Layout."



SECTION B-B

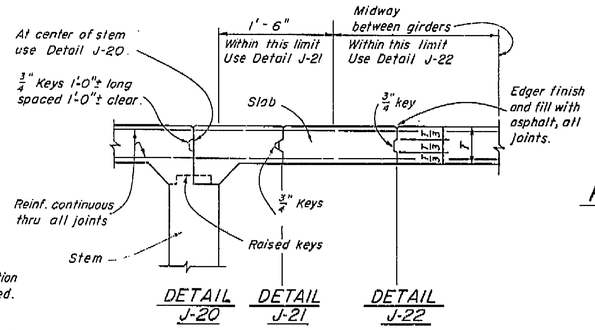
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DETAIL V-1

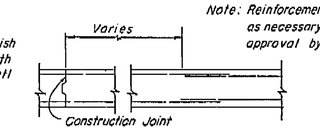


SECTION A-A

PART SECTION INTERIOR GIRDER



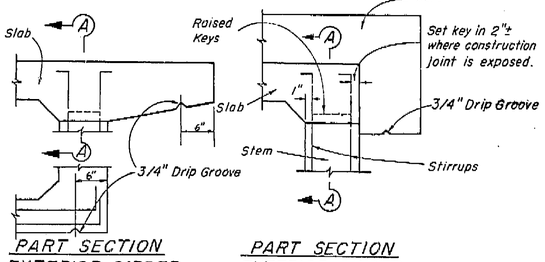
DETAIL J-20 DETAIL J-21 DETAIL J-22



REINFORCEMENT SPLICE IN DECK SLAB

DETAIL S-1

Note: Reinforcement may be spliced as necessary, subject to approval by the Engineer.

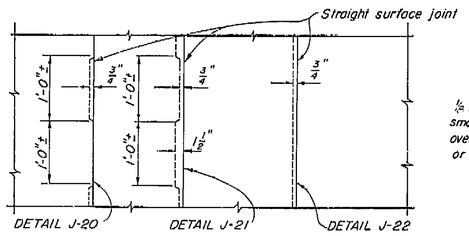


PART SECTION EXTERIOR GIRDER WITH SLAB CANTILEVER

PART SECTION EXTERIOR GIRDER WITH CURB

KEY-GIRDER STEM TO SLAB

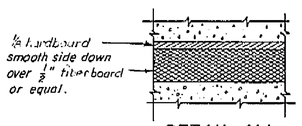
DETAIL J-5



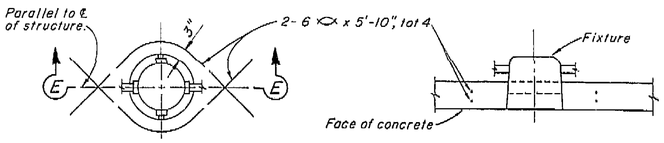
DECK SLAB

LONGITUDINAL CONSTRUCTION JOINT

Note: Longitudinal construction joints in slab, if required, are to be located at edge of traffic lanes except as approved by the Engineer.



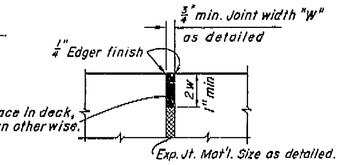
DETAIL M-1



ADDED REINFORCEMENT

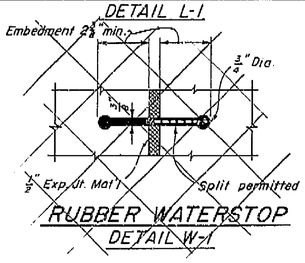
SECTION E-E

RECESSED SOFFIT LIGHT



SEALED EXPANSION JOINT

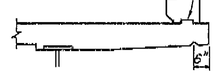
DETAIL L-1

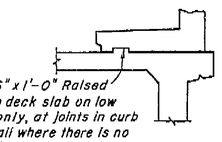


RUBBER WATERSTOP

DETAIL W-1

1⅝" x 3" x 1'-0" Raised key in deck slab on low side only, at joints in curb and rail where there is no joint in the deck slab.





CURB AND SIDEWALK EXPANSION JOINT

DETAIL C-1

246

AS BUILT PLANS
Contract No. 61-671307
Date Completed
Document No. 60001055

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED AS SUBMITTED BY RESIDENT ENGINEER.
ENGINEER
DRAWING CORRECTED BY: DATE

BRIDGE DEPARTMENT
DESIGN SECTION
PROJECT DESIGNER Don R. Woulfton
CHIEF DESIGNER R.E. Fiffer

DESIGN	BY D.R.Woulfton	CHECKED	
DETAILS	BY Charles De Bell	CHECKED	
QUANTITIES	BY R.E. Fiffer	CHECKED	
SPECIFICATIONS	BY	PLANS AND SPECS. COMPARED.	
APPROVAL RECOMMENDED BY	CHIEF OF DESIGN	CIVIL & STRUCTURAL EAGLE LICENSE NO. 5425	

7/59

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

AMERICAN AVENUE OVERCROSSING

STANDARD DETAILS NO. 1 (BOX GIRDER)

SCALE - None | BRIDGE 42-205 | XS-16-22 | DRAWING C-6695-8

PREL. DRAWING NO. P- 9

406

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE / / SIGNATURE TITLE

ClibPDF - www.fastio.com

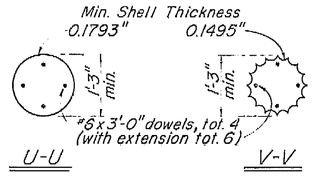
MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM
0 100 200 300 400 500 600 700 SCALE 1" = 50'
0 50 100 200 300 SCALE 1" = 20'
MICROFILM STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

FED. ROAD DIV. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.		250	262

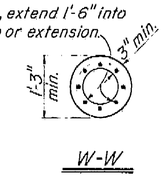
DIST.	COUNTY	ROUTE	SECTION	PROJECT NO.	TOTAL SHEETS
VI	Fre				

DEC 13 1960

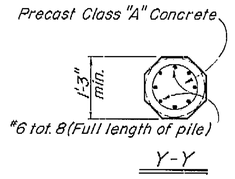
Min. Shell Thickness 0.1793" 0.1495"



#5 tot. 8, extend 1'-6" into pile cap or extension.

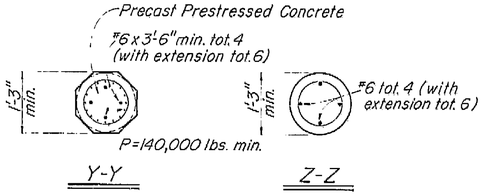


Precast Class "A" Concrete



Precast Prestressed Concrete

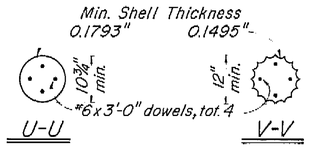
#6 x 3'-6" min. tot. 4 (with extension tot. 6)



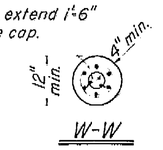
CLASS I PILES

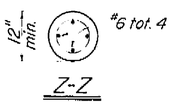
Scale: 3/4"=1'-0"

Min. Shell Thickness 0.1793" 0.1495"



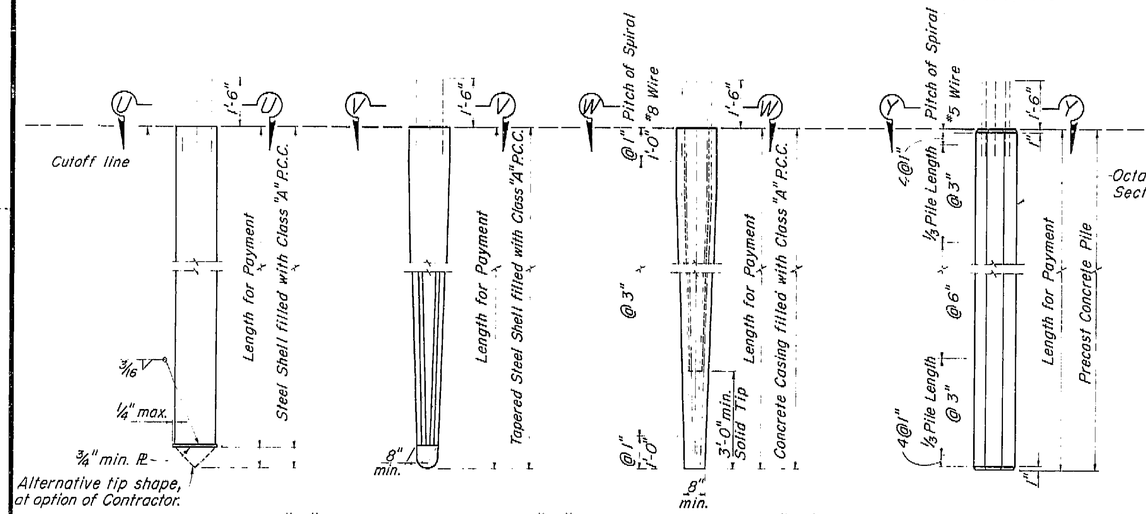
#5 tot. 6, extend 1'-6" into pile cap.





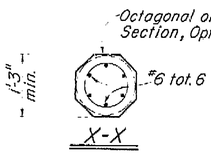
CLASS II PILES

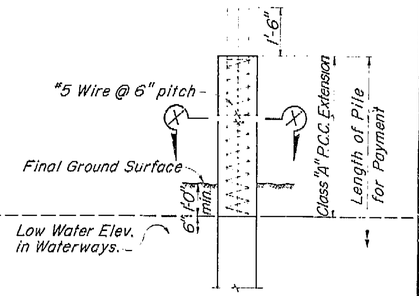
Scale: 3/4"=1'-0"



10"min. dia. pipe extension may be used when step taper is 30' or more in length.
Minimum length of extension is 15'.
Minimum thickness of pipe extension=0.1793".

Octagonal or Circular Section, Optional.





PILE EXTENSION

Permitted with Class I Piles only.

PILE NOTES

Alternative "W" & "Y" may be driven full length and cutoff without extension or may be extended. All exposed piles or pile extensions shall be consistent in cross-section throughout the project.

Alternative "Y" (Precast Prestressed)
P=Prestressing Force (after losses)
Concrete stress:
f'c = 4500 p.s.i. @ 28 days
f'ci = 3500 p.s.i. @ transfer (3/8 strand)
f'ci = 4000 p.s.i. @ transfer (7/16 strand)

Note "F": In Alternative "Z" the #6 bars shall extend a minimum of 12' below the lowest of the following:
1. Bottom of footing
2. Top of final ground surface
3. Top of original ground surface when piles are driven through fills.

Class I piles may be substituted for Class II piles. Unless indicated to the contrary all piles shall be Class I piles.

DESIGN LOADING = 45 TONS

AS BUILT PLANS
Contract No. 61-671307
Date Completed
Document No. 6000 1055

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED _____, AS SUBMITTED BY RESIDENT ENGINEER
TRACINGS CORRECTED BY: _____ DATE: _____

BRIDGE DEPARTMENT DESIGN SECTION			
Section Supervisor			
DESIGN	By	DRM	7/60
	Check	SDM	7/60
DETAILS	By	CDuB	7/60
	Check	SDM	7/60
QUANTITIES	By	DRM	7/60
	Check	SDM	7/60

9/60

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

AMERICAN AVENUE OVERCROSSING

CONCRETE PILE DETAILS

SCALE 1/2"=1'-0" or as noted | BRIDGE 42-205 | XS-10-17 FILE | DRAWING

Disregard prints bearing earlier numbers → PREL. DRAWING No. P- 6695

410

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

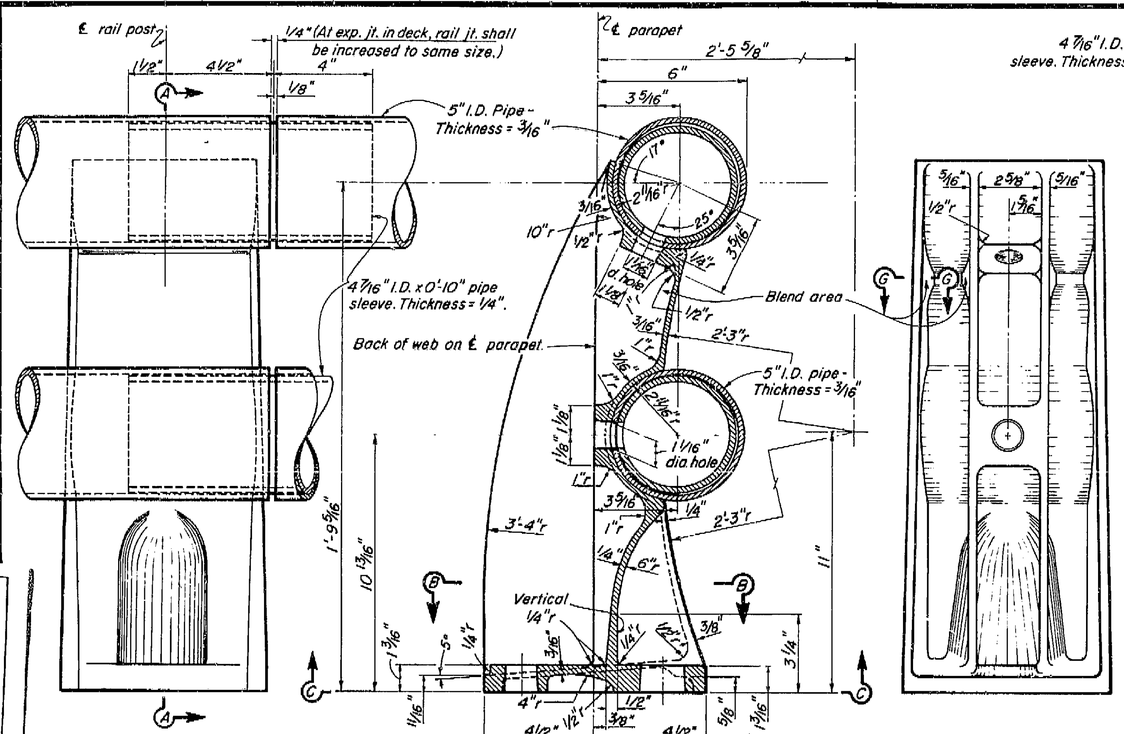
Corr. 2 nos. 1/2 B.A. Frost 6-12-69 Bridge Engr. 250

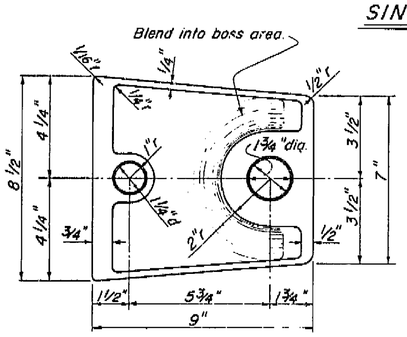
MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50' 0 100 200 300 400 500 600 700
SCALE 1" = 50' 0 50 100
SCALE 1" = 20' 0 50 100 200
MICROFILM STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 20' 50 300
ClibPDF - www.fastio.com

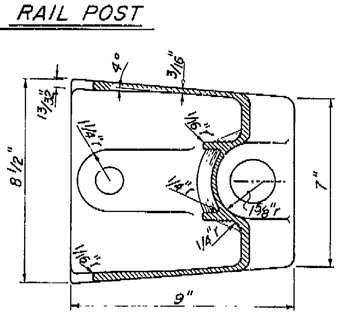
FED. ROAD DIV. No.	STATE	F. A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.		249	262

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	Fre			11	18

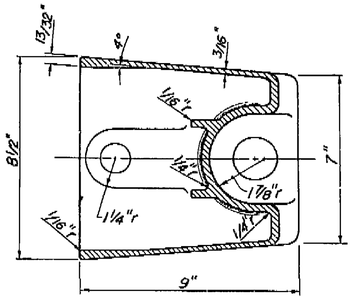
DATE APPROVED DEC 1960



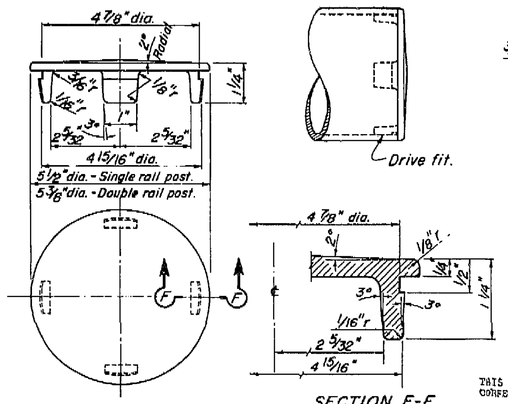




SHIM DETAIL
1/4" = 1'-0"

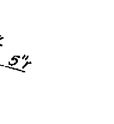


SECTION B-B

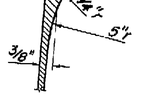


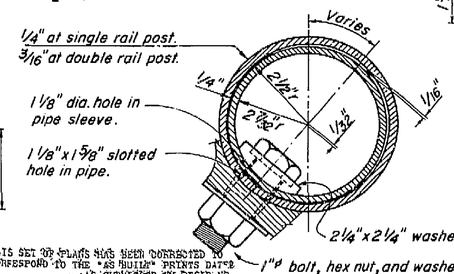
RAIL CAP
1/2" = 1"

SECTION F-F
1" = 1"

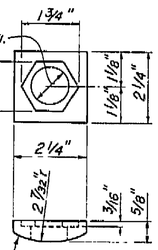


SECTION G-G
1/2" = 1'





RAIL CONNECTION
1/2" = 1"



Notes:

1. At the option of the contractor, material for the railing shall be one of the following:
   a. Aluminum pipe rail and cast aluminum post.
   b. Steel pipe rail and cast steel post. Rail and posts to be galvanized. Steel pipe rail shall be 3/16" thick with 5" I.D.. Rail post dimensions shall be revised as necessary to fit the steel pipe.
2. Shims are to be of asbestos sheet packing.
3. For railing on a horizontal curve the pipe rail shall be bent to the curve or the spacing of posts adjusted so that the middle ordinate between posts will not exceed 1".

BRIDGE DEPARTMENT
DESIGN SECTION
Section Supervisor R.E. Fette

DESIGN	By	D.R. MOULTON
	Checked	J.O. MAXWELL
DETAILS	By	C. DU BOIS
	Checked	S. MAXWELL
QUANTITIES	By	D.R. MOULTON
	Checked	S. MAXWELL

10/60

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

AMERICAN AVENUE OVRCROSSING

BARRIER RAILING SHEET 2

Except as noted SCALE 3/8" = 1" | BRIDGE 42-205 | XS-9-71 FILE | DRAWING C-5695-11

Disregard prints bearing earlier numbers → PREL. DRAWING No. P-

409

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED ____, AS SUBMITTED BY RESIDENT ENGINEER.
TRACINGS CORRECTED BY: ____ DATED ____

AS BUILT PLANS
Contract No. 61-671307
Date Completed
Document No. 6000 1955

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE ____ SIGNATURE ____ TITLE ____

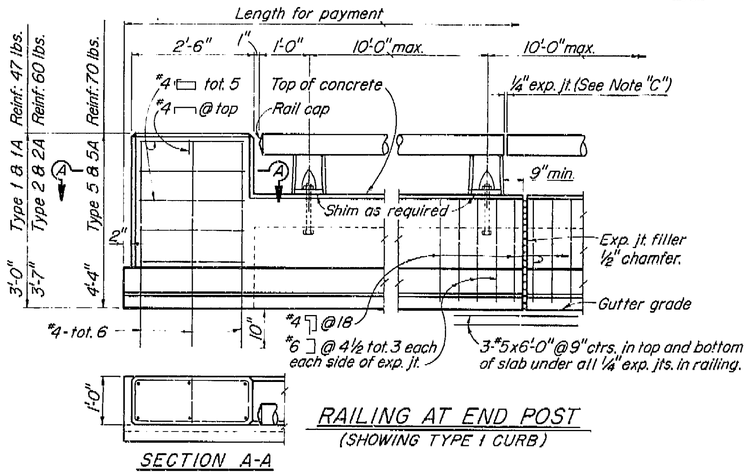
MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM
SCALE 1" = 50'
SCALE 1" = 20'
ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.		248	262

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre.	[illegible]		10	13

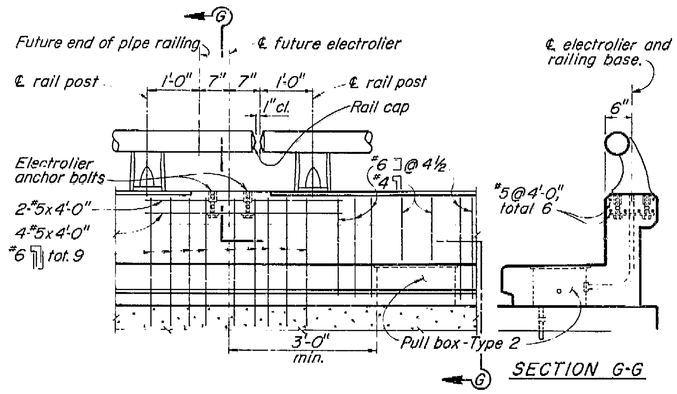
DRE

Date Approved



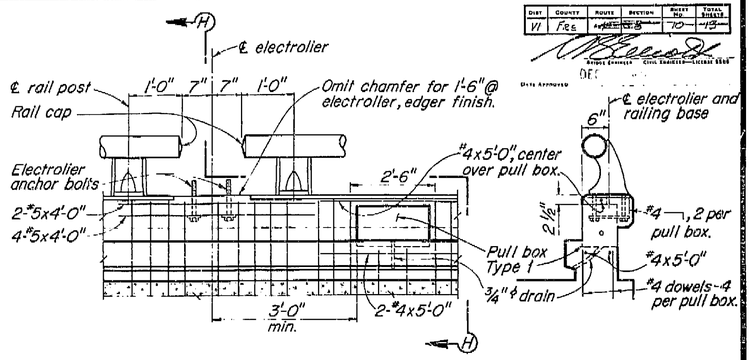
RAILING AT END POST
(SHOWING TYPE 1 CURB)

SECTION A-A



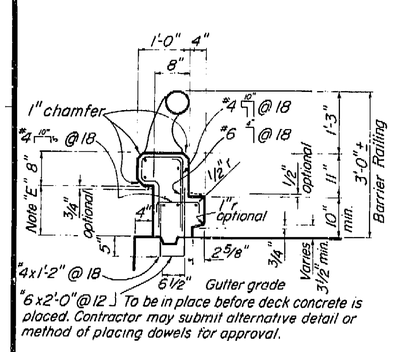
RAILING CLOSURE AT ELECTROLIER
(SHOWING TYPE 2 CURB)

SECTION G-G

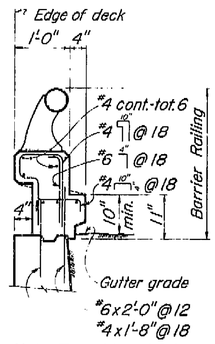


SECTION H-H

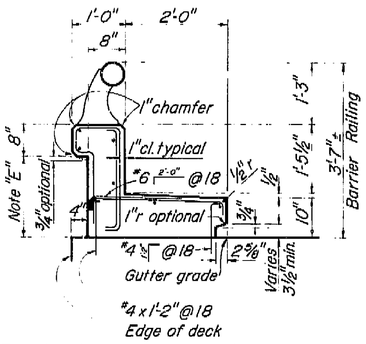
RAILING AT ELECTROLIER
(SHOWING TYPE 1 CURB)



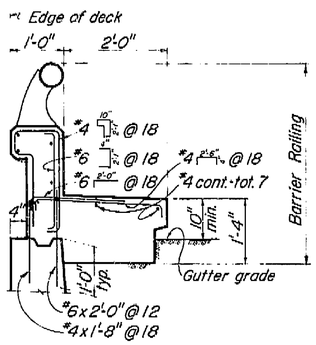
TYPE 1
Conc. 1.61 cu.ft./lin.ft.
Reinf. 11.8 lbs./lin.ft.



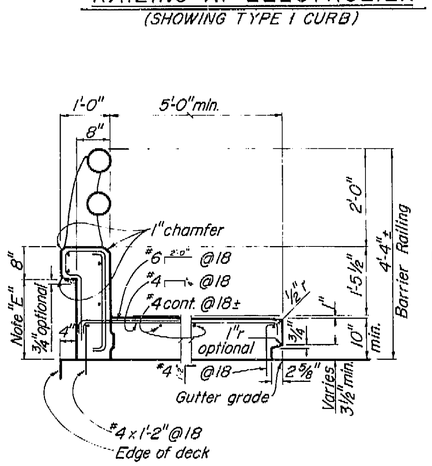
TYPE 1A
Conc. 1.61 cu.ft./lin.ft.
Reinf. 12.0 lbs./lin.ft.



TYPE 2
Conc. 3.43 cu.ft./lin.ft.
Reinf. 14.7 lbs./lin.ft.



TYPE 2A
Conc. 4.30 cu.ft./lin.ft.
Reinf. 17.3 lbs./lin.ft.

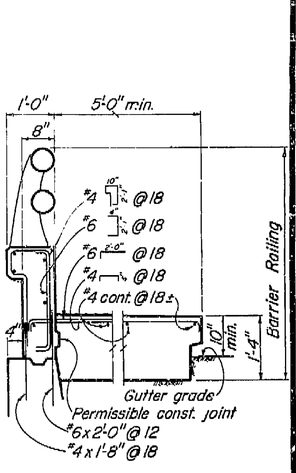


TYPE 5
Conc. 6.10 cu.ft./lin.ft.
Reinf. 17.2 lbs./lin.ft.
— For 5'-0" width —

TYPE 5A
Conc. 8.35 cu.ft./lin.ft.
Reinf. 19.7 lbs./lin.ft.

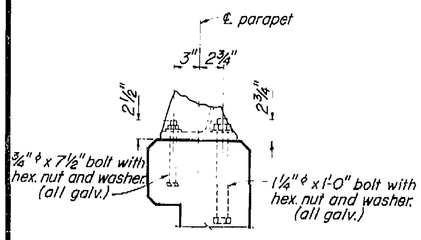
Conc. 0.84 cu.ft./lin.ft.
Reinf. 2.1 lbs./lin.ft.
— Per additional ft. (width) —

Conc. 1.34 cu.ft./lin.ft.
Reinf. 2.1 lbs./lin.ft.



Note: Type 1A and 2A are similar to Type 1 and 2 except as noted.

TYPICAL CURB AND RAIL SECTIONS



RAIL POST ANCHOR BOLT DETAIL
Scale: 1½"=1'-0"

Note:
A. Railing shall conform to horizontal and vertical alignment.
B. Posts shall be normal to railing.
C. Curb and wall exp. jts. to be located at all deck joints, at ℄ piers or bents and at uniform spacing (40' max.) between those specified. Joint size to be ¼" min. and increased to match deck joints.
D. Construct 3" deep x 12" wide overflow scupper 2" above deck at low points in grade.
E. Dimension will vary with cross-slope of deck.
F. Walls are to be backfilled before railing is placed.
G. Clearance to reinforcing steel in curb and railing to be 1".

AS BUILT PLANS
Contract No. 61-607307
Date Completed
Document No. 6000 1055

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED _____, AS SUBMITTED BY RESIDENT ENGINEER
TRACINGS CORRECTED BY: _____ DATE: _____

BRIDGE DEPARTMENT		
DESIGN SECTION		
Section Supervisor: R.L. Foster		
DESIGN	By: D. MOULTON	
	Checked: S. MAXWELL	
DETAILS	By: C. DuBOIS	
	Checked: S. MAXWELL	
QUANTITIES	By: D. MOULTON	
	Checked: S. MAXWELL	

10/60
STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

AMERICAN AVENUE OVERCROSSING

BARRIER RAILING SHEET 1

Except as noted SCALE 3/4"=1'-0" | BRIDGE 42-205 | XS-9-63 FILE | DRAWING C-6695-10

Disregard prints bearing earlier numbers → PREL. DRAWING No. P-

408

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

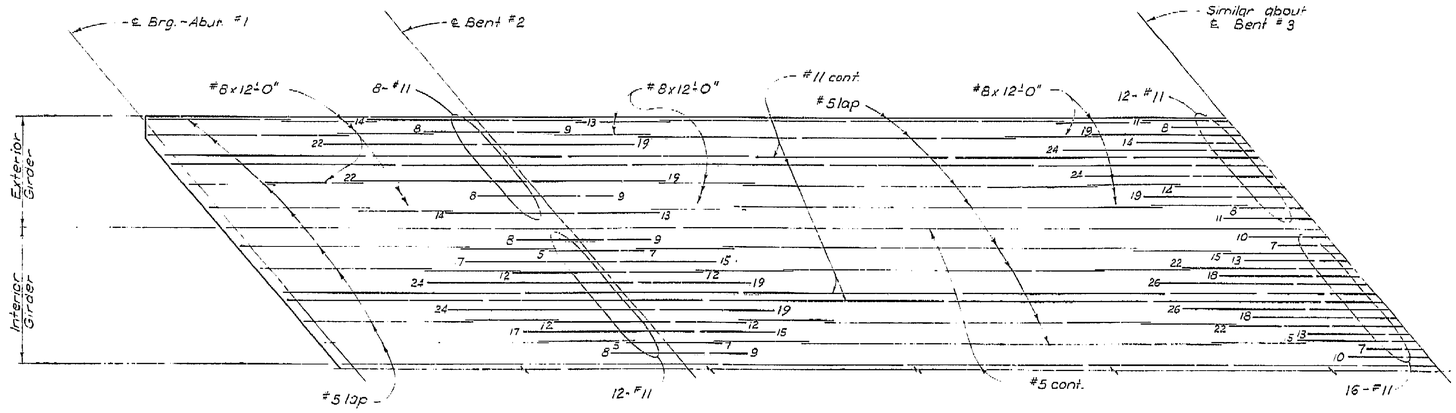
MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"= 50'
SCALE 1"= 20'
ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			245	262

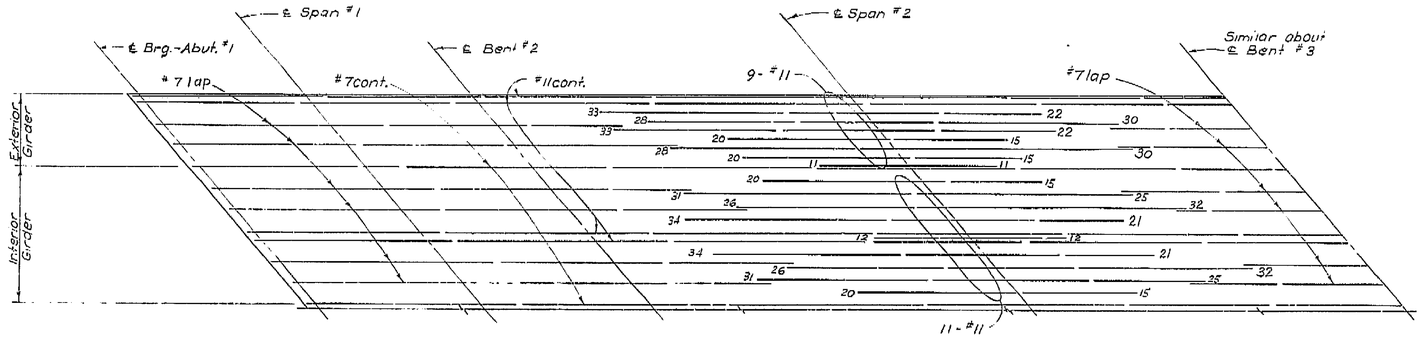
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	~~4~~ 5	~~B~~	~~7~~	~~9~~

STATE ENGINEER — CIVIL ENGINEER — LICENSE 8585

DATE APPROVED: _____

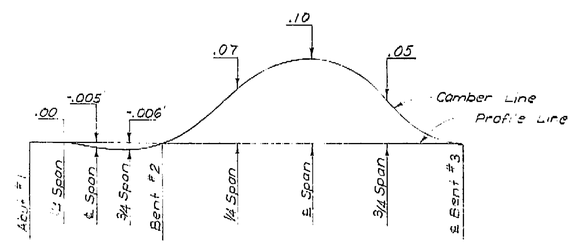


TOP REINFORCEMENT
No Scale



BOTTOM REINFORCEMENT
No Scale

Note: Number at end of bars indicates distance from ℄ bent or ℄ span.



CAMBER DIAGRAM FOR TOTAL GIRDER DEFLECTION DUE TO DEAD LOADS

Notes:
The total deflection will be reached about 2 years after falsework removal. For values at time of falsework removal divide those shown by 4. The amount of camber for construction will be determined by the Engineer.

245

AS BUILT PLANS
Contract No. 61-671307
Date Completed _____
Document No. 6000 1055

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED _____, AS SUBMITTED BY RESIDENT ENGINEER _____.
THE CHANGES CORRECTED BY: _____ DATE: _____

BRIDGE DEPARTMENT
··· DESIGN SECTION ··· 4
Project Designer: Jan C. Hsu
Chief Designer: R. E. Fish

DESIGN	By K. Hsu Jan	Checked	J.D. Maxwell
DETAILS	By Charley Du Du 1/60	Checked	J.D.M.
QUANTITIES	By [illegible]	Checked	J.D.M.
SPECIFICATIONS	By	Plans and Estim. Compared	

Approval Recommended by: _____ Engineer of Design
Field and Structural Plans Approved: 5-29

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

AMERICAN AVENUE OVERCROSSING

GIRDER REINFORCEMENT

SCALE NONE | BRIDGE 42-205 | FILE | DRAWING 2-6695-7

PREL. DRAWING No. P- 00 25 27

405

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

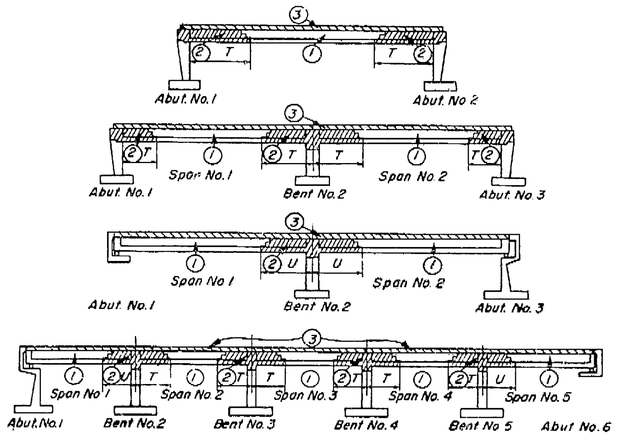
DATE 12-27-71 SIGNATURE _____ TITLE _____

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"= 50' 0 100 200 300 400 500 600
SCALE 1"= 50' 0 50 100
SCALE 1"= 20' 0 50 100 200
SCALE 1"= 20' 0 50 300
ClibPDF - www.fastio.com

FED ROAD DIS. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
.7	CALIF.			247	262

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	4	B	9	19

DEL ... 1960



BOX GIRDER SUPERSTRUCTURE PLACING DIAGRAM

Numbers (1) and (2) indicate sequence of placing bottom slab and girder stem concrete. (2) may be placed simultaneously with (1) when approved by the Engineer, and provided that the (1) sections are placed in adjoining spans.

Top slab concrete (3) shall be placed separately from (1) and (2). (3) may be placed continuously or in parts as approved by the Engineer, however the only joints permitted shall be located within 2'-0" of the girder joints between (1) and (2).

$T = \frac{1}{8}$ span length

$U = \frac{1}{4}$ span length

For any deviation from the above the contractor shall submit a diagram to the Engineer.

GENERAL NOTES

Specifications:

Design: A.A.S.H.O. dated 1957 with revisions and as supplemented by Bridge Planning and Design Manual.

Construction: Standard Specifications, Division of Highways, dated January 1960 and the Special Provisions.

Live Loading: H20-S16-44 and alternative.

Unit Stresses:

Reinforced Concrete:

$f_s = 20{,}000$ p.s.i.

$n = 10$

$f_c = 1{,}200$ p.s.i.

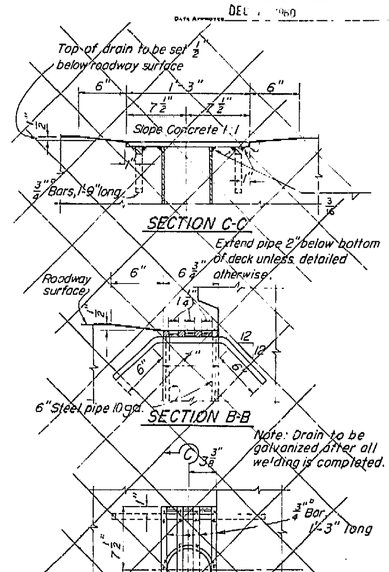
Structural Steel:

$f_s = 18{,}000$ p.s.i.

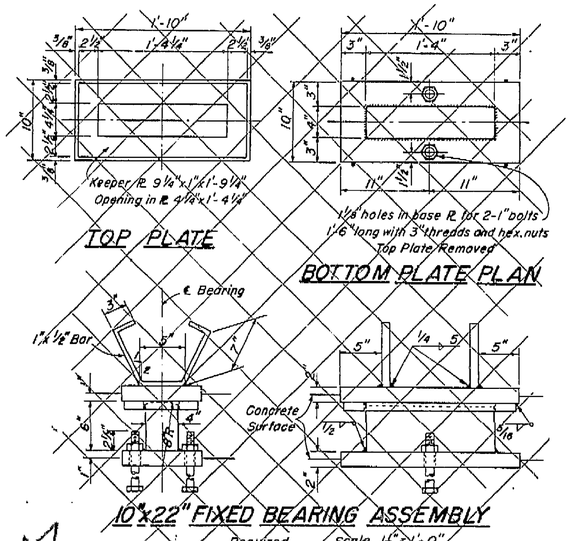
~~Footing Pressure _____ tons p.s.f.~~

Pile Loading: 45 tons Type: Conc.
Class I Piles in Abuts.
Class II Piles in Bents

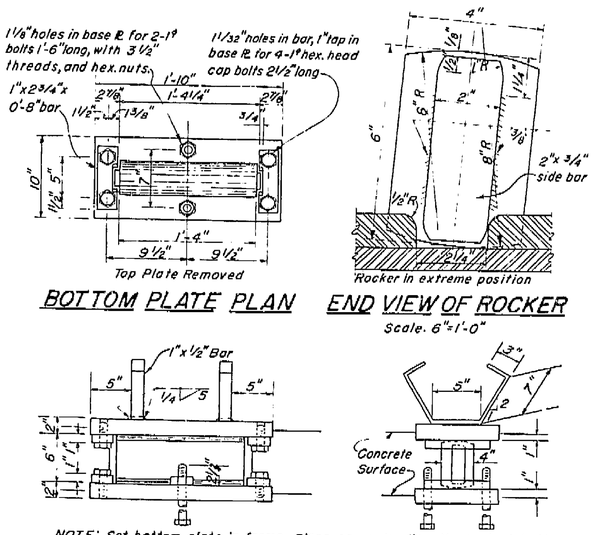
AS BUILT PLANS
Contract No. 61-671307
Date Completed _____
Document No. 6000 1055



DRAIN DETAIL TYPE "A"
Required
Scale 1½"=1'-0"



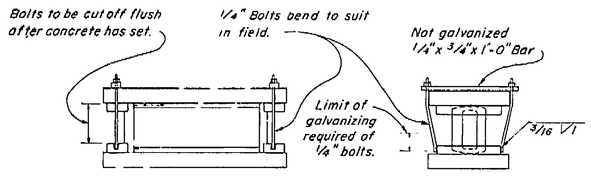
10"x22" FIXED BEARING ASSEMBLY
1 Required
Scale 1½"=1'-0"



END VIEW OF ROCKER
Scale 6"=1'-0"

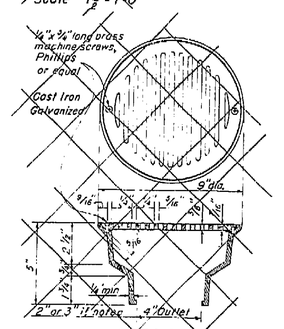
NOTE: Set bottom plate in forms. Place concrete directly against bottom plate. All bearing assemblies to be galvanized after fabrication.

10"x22" EXPANSION BEARING ASSEMBLY
8 Required
Scale 1½"=1'-0"



DETAIL OF ERECTION BOLTS
Scale 1½"=1'-0"

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED _____ AS SUBMITTED BY RESIDENT ENGINEER _____
TRACINGS CORRECTED BY _____ DATED _____



AREA DRAIN
Required

BRIDGE DEPARTMENT
DESIGN SECTION
Project Designer: Don R. Hamilton
Chief Designer: R.E. Peters

DESIGN	By: D.R. Hamilton 1/60	Checked: A.D. Mackwell 7/60
DETAILS	By: Charles DeDeo 11/60	Checked: dcm
QUANTITIES	By: J.P. Moulton 1/60	Checked: dcm
SPECIFICATIONS	By:	Checked:

Approved & Recommended by: [signature] Engineer of Design — Chief of Bureau of Design and Highways — 5425

9/59

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

AMERICAN AVENUE OVERCROSSING

STANDARD DETAILS NO. 2 (BOX GIRDER)

SCALE	BRIDGE	XS-16-40 FILE	DRAWING
As Noted	42-205		C-6695-9

PREL. DRAWING No. P- 3675 | 10

407

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50'
SCALE 1" = 20'
ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			239	262

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	[illegible]	[illegible]	[illegible]	19

PM. 14.5

99

DATE APPROVED

ASSISTANT STATE HIGHWAY ENGINEER — CIVIL ENGINEER — LICENSE NO. [illegible]

STATE HIGHWAY ENGINEER — CIVIL ENGINEER — LICENSE NO. [illegible]

APPROXIMATE QUANTITIES

*STRUCTURE EXCAVATION (BRIDGE)	450 C.Y.
*STRUCTURE BACKFILL (BRIDGE)	110 C.Y.
FURNISHING CONCRETE PILING - CLASS II	1,420 L.F.
DRIVING CONCRETE PILES	68 EA.
*CLASS "A" CONCRETE (BRIDGE)	900 C.Y.
*BAR REINFORCING STEEL (BRIDGE)	235,000 LBS.
MISCELLANEOUS METAL (BRIDGE)	3,200 LBS.
BARRIER RAILING (TYPE 1)	300 L.F.
BARRIER RAILING (TYPE 5)	308 L.F.
FURNISHING CONCRETE PILING - CLASS I	810 L.F.

*FINAL QUANTITIES

PROFILE GRADE

15+75.00 B.V.C. El. 310.26 — +5.0% — 850' V.C. - R/C = 1.1765%/Sta. — -5.0% — 24+25.00 E.V.C. El. 310.28

Concrete Piles
Specified Tip El. 270.0
Estimated Tip El. 265.0
Class I Piles in Abuts.
Class II Piles in Bents

B.B. 3'-7 1/2" — 42'-0" — 94'-6" — 94'-6" — 42'-0" — 3'-7 1/2" — E.B.
Total Length of Bridge = 280'-3"
℄ Brg. — ℄ Brg.
Future Lanes
15'-0" Min. Clr.
El. 309.0 — El. 309.0
Approx. Orig. Ground along Rt. Edge of Deck
Abut. #1 — Abut. #5
El. 293.0 — El. 293.0 — El. 293.0
Bent #2 — Bent #3 — Bent #4
① Far Side ② Near Side
Datum Line El. 270.0
19 — 20 — 21 — 22

ELEVATION
Scale: 1" = 20'-0"

TYPICAL SECTION
Scale: 3/8" = 1'-0"

Barrier Railing Type 1 — Barrier Railing Type 5
1'-4" — 4'-0" — 32'-0" Roadway — 5:0
12:0 — 2:0
℄ American Ave. - Profile Grade
-1 1/2% — -1 1/2%
5'-3" — 5'-6" — 2'-9"
Level

① = Paint Bridge No. & Date
② = Paint American Ave. O.C.

B.M. An-1-S
Chiseled mark on end of wheel guard at 11L + 4', Lr. W.W.
Elev. 319.799

PLAN
Scale: 1" = 20'-0"

INDEX TO PLANS

Sheet No.	Title
1	General Plan
2	Foundation Plan
3	Abutment No. 1
4	Abutment No. 5
5	Bent Details
6	Girder Layout & Typical Section
7	Girder Reinforcement
8	Standard Details No. 1
9	Standard Details No. 2
10	Barrier Railing Sheet 1
11	Barrier Railing Sheet 2
12	Pile Details
13	Log of Test Borings

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 11-8-61 AS SUBMITTED BY RESIDENT ENGINEER J.T. Painter
CHANGES CORRECTED BY _____ DATE _____

AS BUILT PLANS
Contract No. 61-6T13C7
Date Completed
Document No. 6000 1055

L.L. = H20-S16-44 & Alternative

For General Notes See Sheet No. 9

BRIDGE DEPARTMENT
DESIGN SECTION 4
Project Designer: [illegible]
Chief Designer: R.F. Fiedler

DESIGN	By [illegible]	Checked 10 Marshall 2/60
DETAILS	By Charles A. Cano 11-59	Checked 10 Marshall 2/60
QUANTITIES	By [illegible]	Checked 10 Marshall 2/60
SPECIFICATIONS	By	Plans and Specs. Completed

Approval Recommended by [illegible] Assistant Bridge Engineer — Civil Engr. License No. [illegible]

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

61-6T13C7

AMERICAN AVENUE OVERCROSSING

LOCATED ABOUT 4.8 MILES SOUTHEAST OF THE SOUTH CITY LIMIT OF FRESNO IN FRESNO COUNTY

GENERAL PLAN

SCALE AS NOTED | BRIDGE 42-205 | FILE | DRAWING 3-6695-1

Disregard prints bearing earlier numbers → PREL. DRAWING No. P-66 [illegible]

239

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE [illegible] SIGNATURE [illegible] TITLE [illegible]

ClibPDF - www.fastio.com

SCALE 1"= 50' 0 200 400 600 MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"= 50' 0
SCALE 1"= 20' 100 200 300 MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"= 20'

California Department of Transportation
Division of Maintenance

Structure Maintenance and Investigations

BRIDGE

INSPECTION

RECORDS

INFORMATION

SYSTEM

The requested documents have been generated by BIRIS.

These documents are the property of the California Department of Transportation and should be handled in accordance with Deputy Directive 55 and the State Administrative Manual.

Records for “Confidential” bridges may only be released outside the Department of Transportation upon execution of a confidentiality agreement.

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	384	461

Caltrans Metric

Michael Scott Traffalis
REGISTERED CIVIL ENGINEER

7-2-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL SCOTT TRAFFALIS — No. C46883 — Exp. 06/30/03 — CIVIL — STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA. 95834

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GENERAL NOTES

LOAD FACTOR DESIGN

DESIGN: BRIDGE DESIGN SPECIFICATIONS (1983 AASHTO with Interims and Revisions by CALTRANS)

DEAD LOAD : Includes 1.68 KPa for future wearing surface

LIVE LOADING: HS20-44 and alternative and permit design load

REINFORCED CONCRETE: f'c = 28 MPa, unless otherwise noted
fy = 420 MPa
n = 8
Transverse deck slab (Working Stress Design)
fc = 8.3 MPa
fs = 138 MPa
n = 10

PRESTRESS CONCRETE : See "Prestressing Notes" on "Girder Layout No. 1" sheet

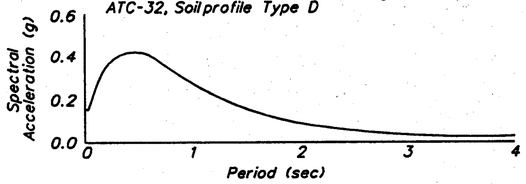
FOOTING PRESSURE: (SERVICE LOADS)

	ALLOWABLE (KPa)	DESIGN (KPa)
Abut 1	190	187
Abut 7	190	187

Ultimate bearing capacities may be taken as three (3) times the allowable capacities.

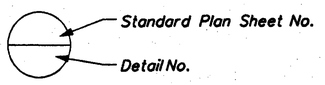
SEISMIC LOADING: The following ARS Curve was used in evaluating the structure seismic response

Magnitude: 7.25 ± 0.25
Peak Bed Rock Acceleration = 0.1 g
ATC-32, Soil profile Type D



STANDARD PLANS DATED JULY 1999

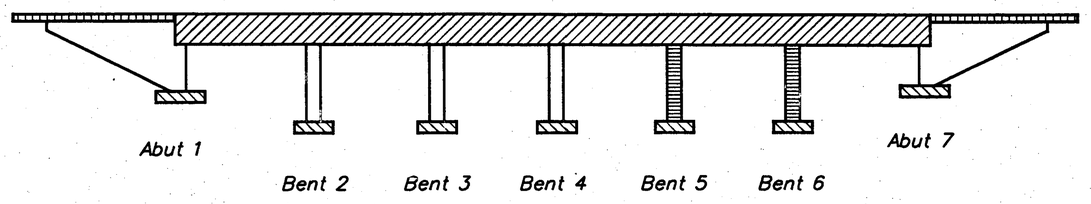
A10A	ABBREVIATIONS
A10B	SYMBOLS
A62-C	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL-BRIDGE
B0-1	BRIDGE DETAILS
B0-3	BRIDGE DETAILS
B0-5	BRIDGE DETAILS
B0-13	BRIDGE DETAILS
B7-1	BOX GIRDER DETAILS
B7-10	UTILITY OPENING BOX GIRDER
B8-5	CAST-IN-PLACE PRESTRESSED GIRDER DETAILS
B11-53	CONCRETE BARRIER TYPE 25
B14-3	COMMUNICATION AND SPRINKLER CONTROL CONDUITS (CONDUIT LESS THAN 103 mm)
B14-5	WATER SUPPLY LINE DETAILS



PILE DATA - CIDH CONCRETE PILES

Location	Pile Type	Nominal Resistance		Design Tip Elevation (Meters)	Specified Tip Elevation (Meters)
		Compression	Tension		
Bent 2	900 mm	4440 kN	2180 kN	69.80 (1)(2)	69.80
Bent 3	900 mm	4440 kN	2180 kN	71.30 (1)(2)	71.30
Bent 4	900 mm	4440 kN	2180 kN	71.30 (1)(2)	71.30
Bent 5	900 mm	4440 kN	2180 kN	71.30 (1)(2)	71.30
Bent 6	900 mm	4440 kN	2180 kN	70.00 (1)(2)	70.00

Design tip elevations are controlled by the following demands:
(1) Compression; (2) Tension



Structural Concrete, Bridge (See Prestressing Notes on "Girder Layout No. 1 sheet)

Structural Concrete, Bridge

Structural Concrete, Bridge Footing

Structural Concrete, Bridge (35 MPa @ 28 days)

Structural Concrete, Structure Approach

CONCRETE STRENGTH AND TYPE LIMITS

No Scale

AS BUILT VL 7/19/04

CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-29-03

INDEX TO PLANS

Sheet	Title
1	General Plan No. 1 of 2
2	General Plan No. 2 of 2
3	Index To Plans
4	Deck Contours
5	Foundation Plan No. 1
6	Foundation Plan No. 2
7	Abutment Layout
8	Abutment Details No. 1
9	Abutment Details No. 2
10	Abutment Details No. 3
11	Bent 2
12	Bent 3
13	Bent 4
14	Bent 5 - 1 of 2
15	Bent 5 - 2 of 2
16	Bent 6 - 1 of 2
17	Bent 6 - 2 of 2
18	Bent Details No. 1
19	Bent Details No. 2
20	Typical Section
21	Girder Layout No. 1
22	Girder Layout No. 2
23	Miscellaneous Details
24	Structure Approach Type N(9S)
25	Structure Approach Drainage Details
26	Slope Paving - Full Slope
27	Abutment Joint Seal Details Movement Rating Greater Than 100mm
28	Deck Drain Type D-2 Modified
29	Log of Test Borings 1 of 2
30	Log of Test Borings 2 of 2

NO AS BUILT CHANGES

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

FILE: p:\12227o\chts\wespip01.dgn 17-apr-01

B2 Marsey for Joel Escobar
DESIGN OVERSIGHT
4-18-01
SIGN OFF DATE

DESIGN	A.T. Dubovik II	E. Jao	
DETAILS	T. Burns	S. Kazmi	
QUANTITIES	A.T. Dubovik II	E. Jao	

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

M. Traffalis
PROJECT ENGINEER

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

CU 06222
EA 342321

BRIDGE NO.	42-393G
KILOMETER POST	90.51

N99-W180 CONNECTOR SEPARATION
INDEX TO PLANS

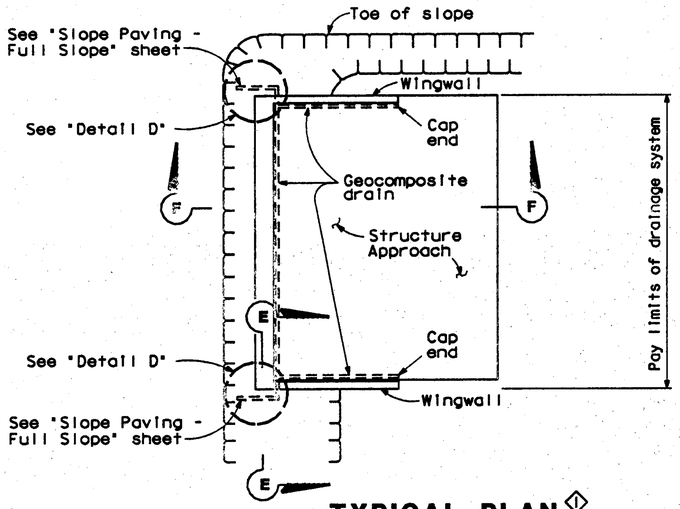
DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)										SHEET	OF
6/19/00	6/19/00	12/29/00	6/29/00	12/30/00	3/27/01					3	30

br42393G#3of30.tif

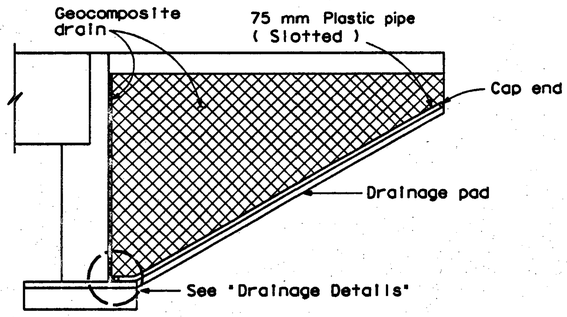
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RELEASED 3-25-97

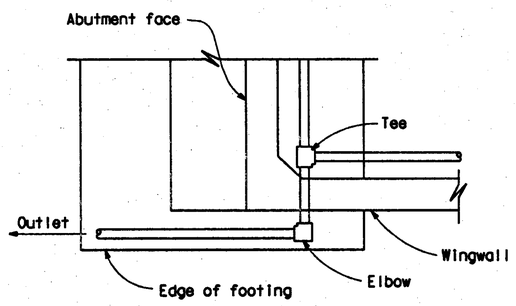


TYPICAL PLAN ①

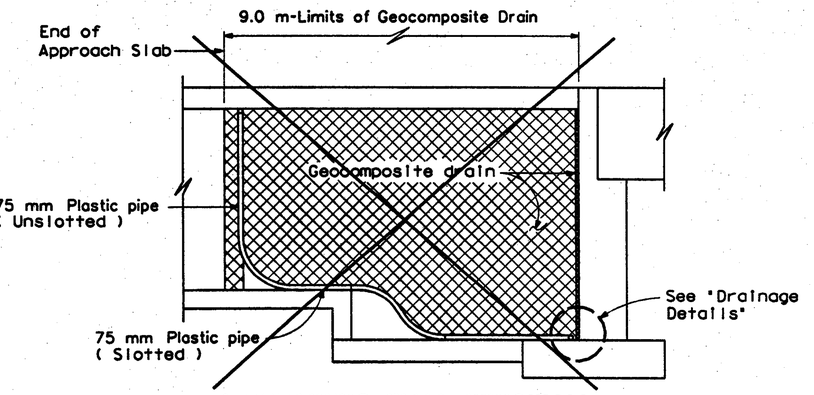
Abutment 2 - Left Structure Shown, Others Similar



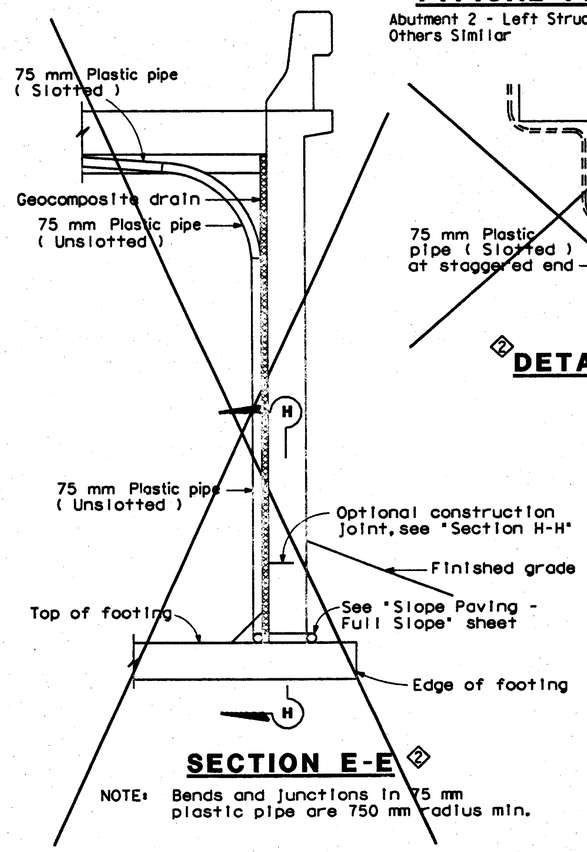
CANTILEVER WINGWALL SECTION F-F



DETAIL D



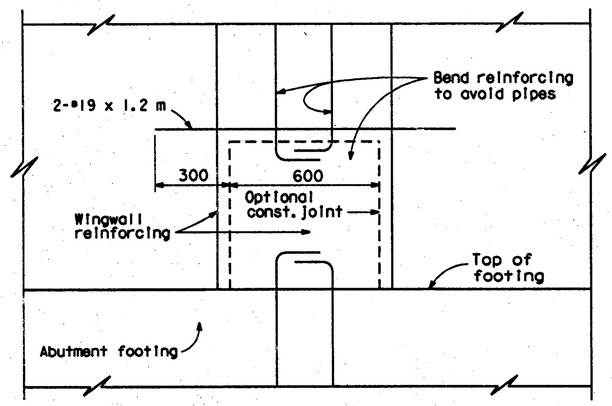
② RETAINING WALL WINGWALL SECTION G-G



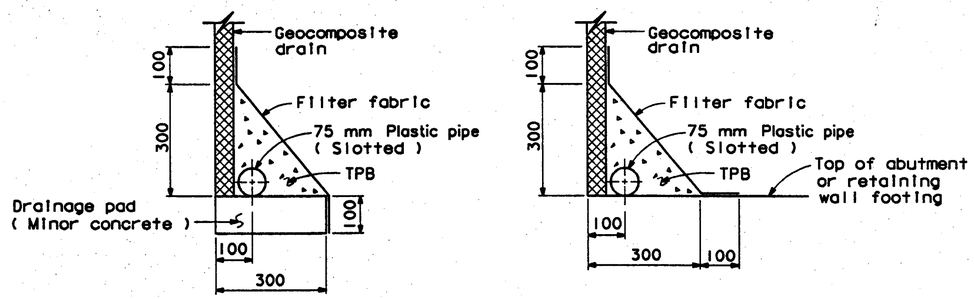
② DETAIL B

② SECTION E-E

NOTE: Bends and junctions in 75 mm plastic pipe are 750 mm radius min.



SECTION H-H ①



WITHOUT FOOTING — WITH FOOTING

DRAINAGE DETAILS

NO AS BUILT CHANGES

"SPECIAL DETAILS"
NO SCALE
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	406	461

REGISTERED ENGINEER - CIVIL
MICHAEL SCOTT TRAFFALIS, No. C46883, Exp. 06/30/03, CIVIL, REGISTERED PROFESSIONAL ENGINEER, STATE OF CALIFORNIA
7-2-01
PLANS APPROVAL DATE

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA 95834

AS BUILT — VL 7/19/04
CORRECTIONS BY Peter Mora
CONTRACT NO. 06-342324
DATE 9-29-03

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STANDARD DRAWING

FILE NO. XS 22-17 | DESIGN BY M. TRAFFALIS | CHECKED E. THORKILDSEN | APPROVAL RECOMMENDED BY
DRAWING DATE REVISED | DETAILS BY R. YEE | CHECKED E. THORKILDSEN | DESIGN SUPERVISOR
SUBMITTED BY M. HA

OS OSD 2147A (METRIC) (REV. 2/25/97)

① Revised Detail
② Detail Not Needed

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN

CU 06222
EA 342321

BRIDGE NO. 42-393G
KILOMETER POST 90.51

N99-W180 CONNECTOR SEPARATION

STRUCTURE APPROACH DRAINAGE DETAILS

DISREGARD PRINTS BEARING EARLIER REVISION DATES →
REVISION DATES (PRELIMINARY STAGE ONLY): 1/30/98 | 2/06/98 | 6/19/98 | 2/25/99 | 6/21/99 | 12/30/99 | 3/27/0

SHEET 25 OF 30

USERNAME => USER
*REQUEST

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5 R89.1/R91.0	387RI	461

Caltrans Metric

REGISTERED CIVIL ENGINEER — MICHAEL SCOTT TRAFFALIS, No. C46883, Exp. 06/30/03, CIVIL, REGISTERED PROFESSIONAL ENGINEER, STATE OF CALIFORNIA

7-2-01
PLANS APPROVAL DATE

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, SUITE 200
SACRAMENTO, CA. 95834

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Curve Data

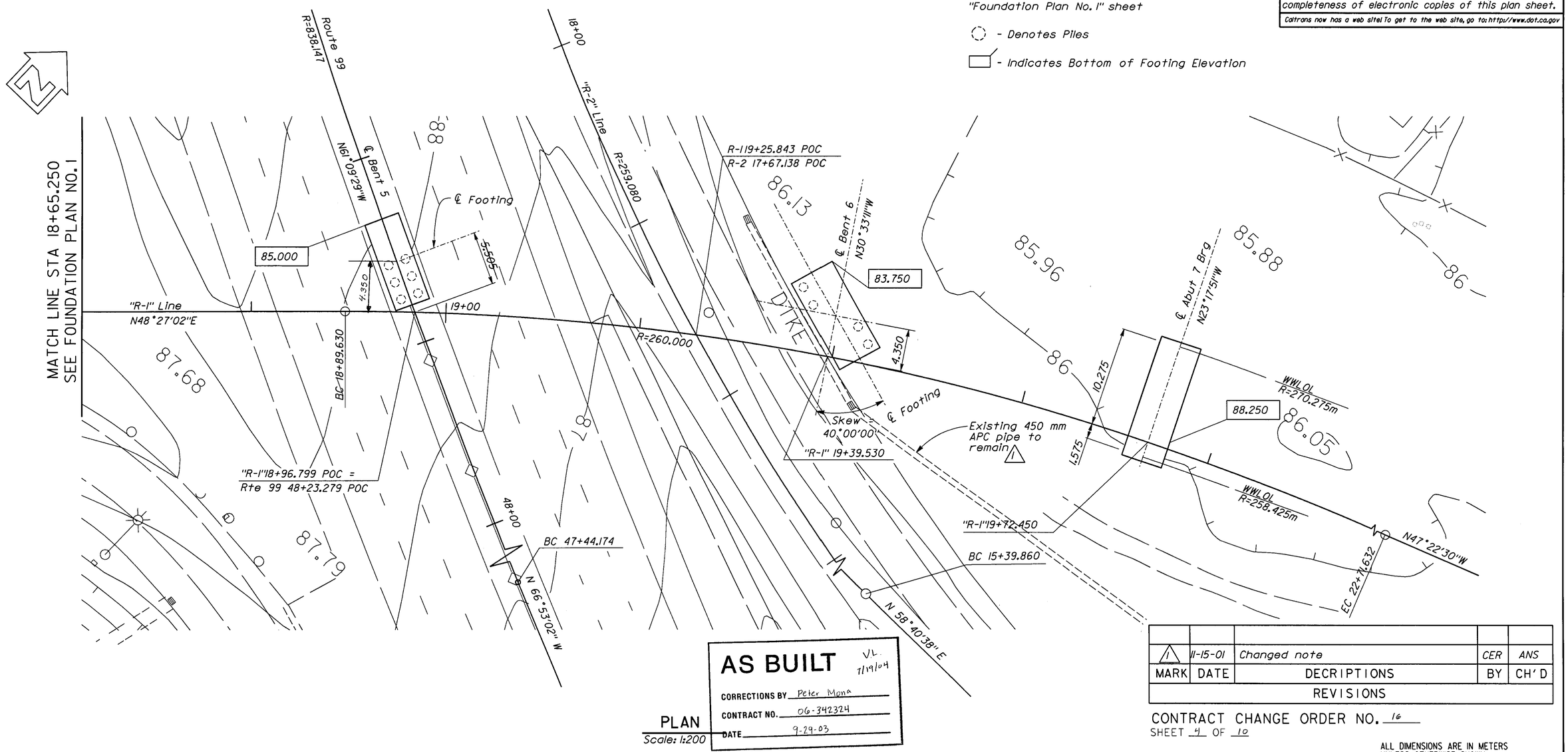
"R-1"	"R-2"	℄ Rte 99
R = 260.000	R = 259.080	R = 838.147
Δ = 84°10'52"	Δ = 61°32'01"	Δ = 34°04'00"
T = 234.850	T = 154.234	T = 256.780
L = 382.002	L = 278.243	L = 498.341

NOTES

For Bench Marks see "Foundation Plan No. 1" sheet

⌀ - Denotes Piles

▭ - Indicates Bottom of Footing Elevation



PLAN
Scale: 1:200

AS BUILT VL 7/19/04
CORRECTIONS BY Peter Mpn^
CONTRACT NO. 06-342324
DATE 9-29-03

MARK	DATE	DECRIPTIONS	BY	CH'D
		REVISIONS		
1	11-15-01	Changed note	CER	ANS

CONTRACT CHANGE ORDER NO. 16
SHEET 4 OF 10

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

FILE: I:/I2272A/DGN/FRM PORTLAND/WCONSEP/WCSPFN02-RI.DGN 19-NOV-01

George P. Hattiangadi — GEOTECHNICAL PROFESSIONAL — APPROVAL DATE

John Symmonds for Joel Escabar
DESIGN OVERSIGHT
12/3/01
SIGNOFF DATE

PHOTOGRAMMETRY AS OF: 4-16-97		DRAWN	BY Radman Aerial Survey	DESIGN	BY A.T. Dubovik II	CHECKED	E. Jao
SURVEYED	BY Psomas & Assoc.	TRACED	BY Intergraph	DETAILS	BY T. Burns	CHECKED	S. Kazmi
FIELD CHECKED	BY Psomas & Assoc.	CHECKED	BY	QUANTITIES	BY A.T. Dubovik II	CHECKED	E. Jao

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

M. Traffalis
PROJECT ENGINEER

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

CU 06222
EA 342321

BRIDGE NO. 42-393G
KILOMETER POST 90.51

N99-WI80 CONNECTOR SEPARATION
FOUNDATION PLAN NO. 2

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)									SHEET	OF
9/15/97	2/05/98	1/21/98	2/05/98	6/1/98	6/19/98	6/29/98	6/29/98	12/28/99	1/7/01	6	30

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	386	461

Caltrans Metric

Michael Scott Traffalis
REGISTERED CIVIL ENGINEER

7-2-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL SCOTT TRAFFALIS — No. C46883 — Exp. 06/30/03 — CIVIL — STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, SUITE 200
SACRAMENTO, CA. 95834

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Bench Marks

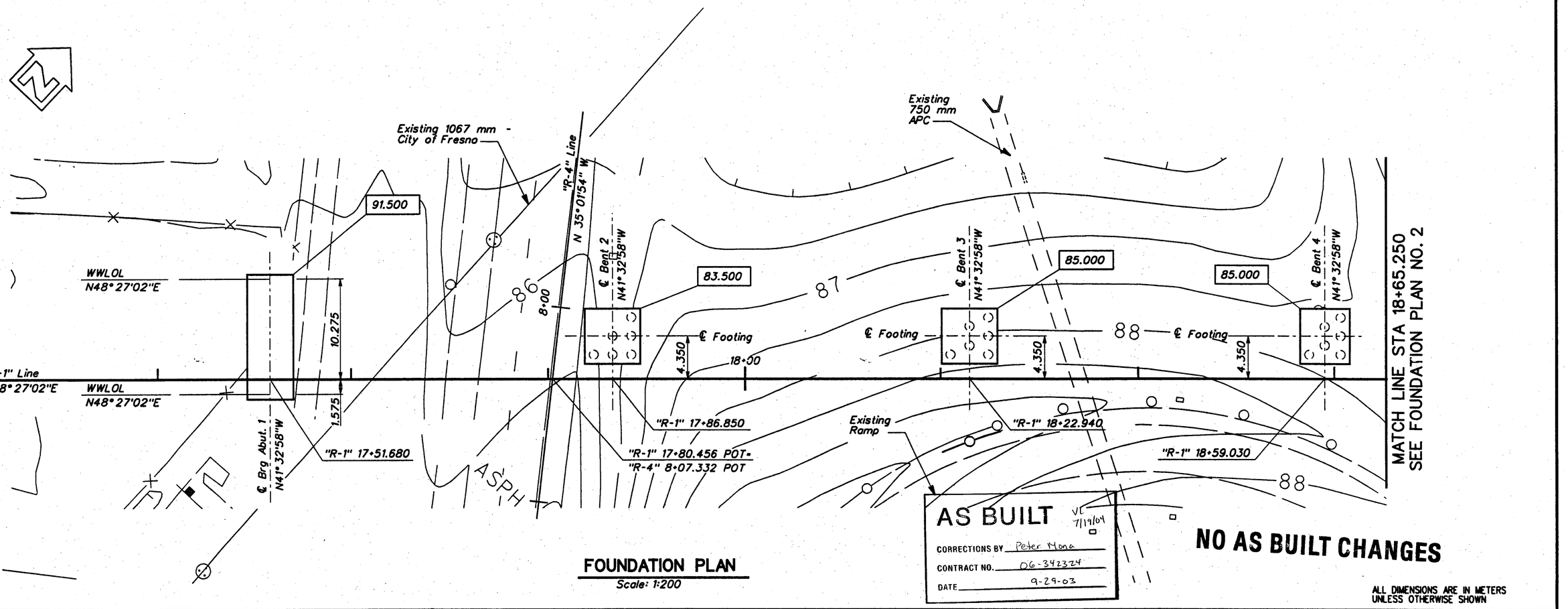
"BM" F180 56.2 Elev 84.682
0.686 m brass cap embossed "California Department of Transportation" stamped "BM" "F180 56.2" in the west curb of Fruit Ave. Approx 73.17 m south of the centerline of Dunn Ave. and approx 118.9 m right of centerline Sta 216+60±.
N 656213.497, E 1926981.531

"BM" F180 56.4 Elev 85.610
0.686 m brass cap embossed "California Department of Transportation" stamped "BM" "F180 56.4" at the southwest corner of Thorne Ave. and Dunn Ave. In the west curb of Thorne Ave. approx 1.52 m south of the ECR of Dunn Ave. at the street light approx 262.2 m right of the centerline Sta 220+13+.
N 656276.592, E 1927389.000

NOTES

( ) - Denotes Piles

□ - Indicates Bottom of Footing Elevation



FOUNDATION PLAN
Scale: 1:200

AS BUILT VC 7/19/04
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-29-03

NO AS BUILT CHANGES

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

BE Marcy Hoel Escabar, DESIGN OVERSIGHT, 4-18-01, SIGNOFF DATE	PHOTOGRAMMETRY AS OF: 4-16-97	DRAWN	BY Radman Aerial Survey	DESIGN	BY A.T. Dubovik II	CHECKED E. Jao
	SURVEYED BY Psomas & Assoc.	TRACED	BY Intergraph	DETAILS	BY T. Burns	CHECKED S. Kazmi
	FIELD CHECKED BY Psomas & Assoc.	CHECKED	BY	QUANTITIES	BY A.T. Dubovik II	CHECKED E. Jao

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

M. Traffalis, PROJECT ENGINEER

BRIDGE NO.	N99-W180 CONNECTOR SEPARATION
42-393G	
KILOMETER POST 90.51	FOUNDATION PLAN NO. 1

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

CU 06222
EA 342321

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)								SHEET	OF
9/15/97	12/05/97	1/9/98	2/05/98	8/14/98	8/26/98	12/29/98	6/24/99	5	30

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vfr dgn FILE:\12227\DGN\WCONSEP\WCSPFN01.DGN 17-apr-01
Marcy P. Hoel Escabar REGISTERED PROFESSIONAL ENGINEER APPROVAL DATE

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	391	461

Caltrans Metric

REGISTERED CIVIL ENGINEER

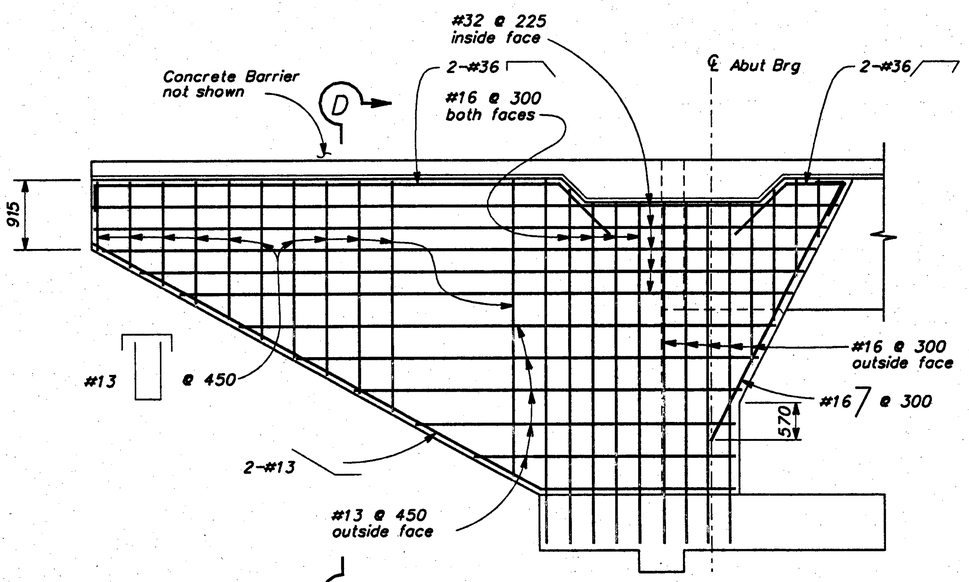
7-2-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL SCOTT TRAFFALIS — No. C46883 — Exp. 06/30/03 — CIVIL — STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA 95834

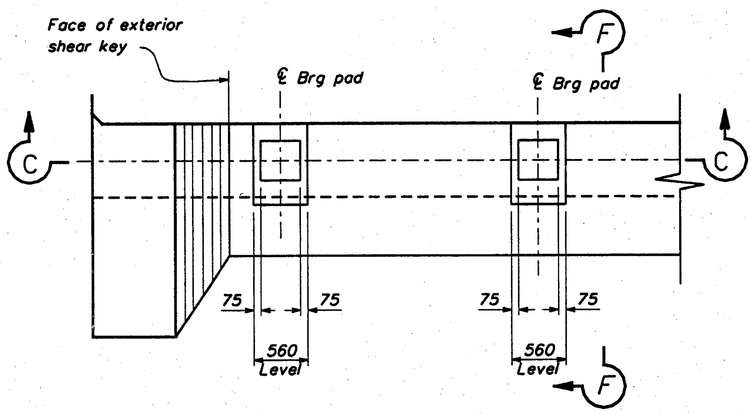
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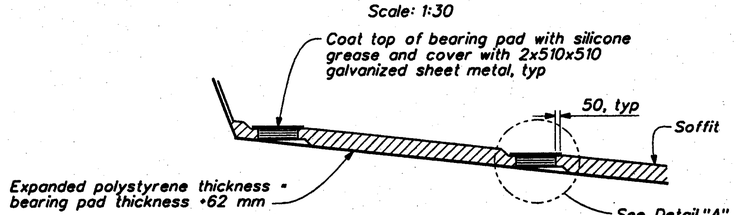
WINGWALL ELEVATION

No Scale



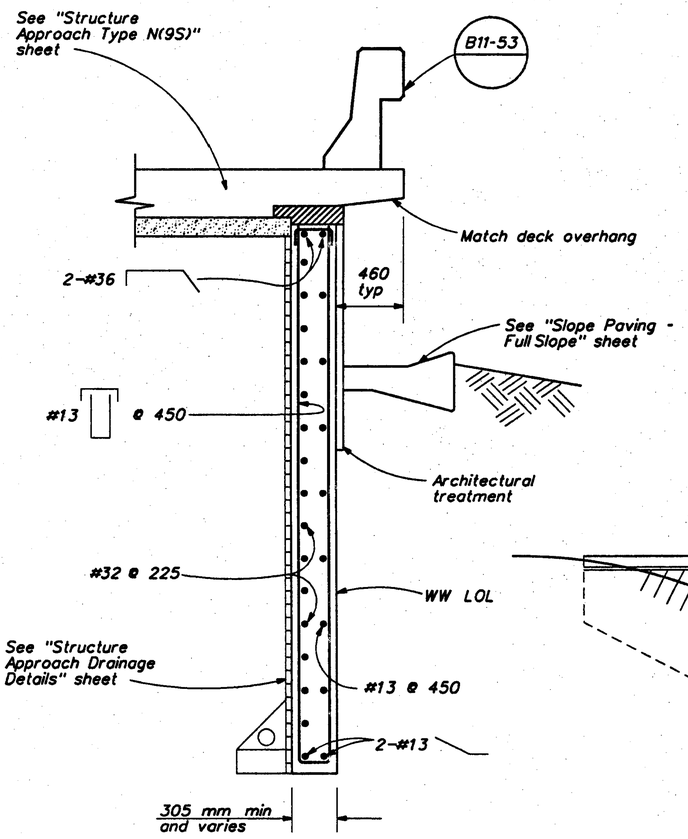
ABUTMENT 7 BEARING PAD PLAN

Scale: 1:30



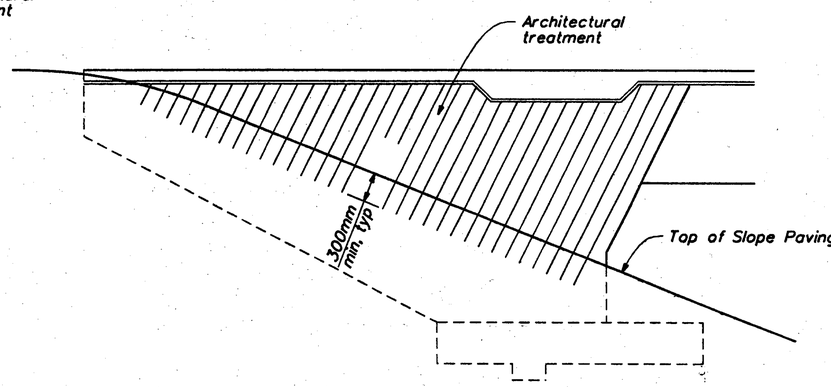
SECTION C-C

Scale: 1:30



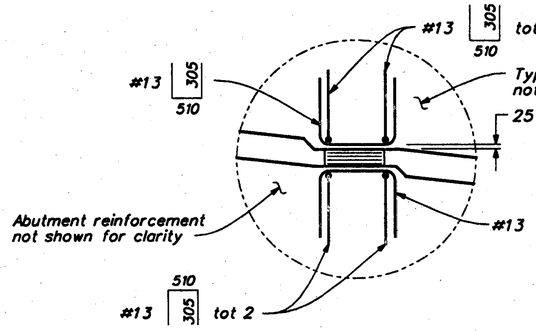
SECTION D-D

Scale: 1:20



LIMITS OF ARCHITECTURAL TREATMENT

No Scale

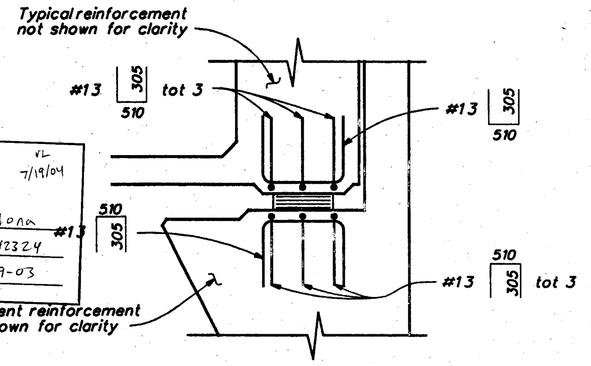


DETAIL "A"

Scale: 1:20

AS BUILT 7/19/04 VL
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-29-03

NO AS BUILT CHANGES



SECTION F-F

Scale: 1:20

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

B Marsey for Joel Escabar
DESIGN OVERSIGHT
4-18-01
SIGN OFF DATE

	BY	CHECKED
DESIGN	A.T. Dubovik II	E. Jao
DETAILS	T. Burns	S. Kazmi
QUANTITIES	A.T. Dubovik II	E. Jao

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

M. Traffalis
PROJECT ENGINEER

CU 06222
EA 342321

BRIDGE NO. 42-393G
KILOMETER POST 90.51

N99-W180 CONNECTOR SEPARATION

ABUTMENT DETAILS NO. 3

FOR REDUCED PLANS
ORIGINAL SCALE IS IN MILLIMETERS
0 20 40 60 80 100

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)										SHEET	OF
7/9/98	1/30/98	2/05/98	6/14/98	6/19/98	12/22/98	6/24/99	12/30/99	3/27/01		10	30

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	390	461

Caltrans Metric

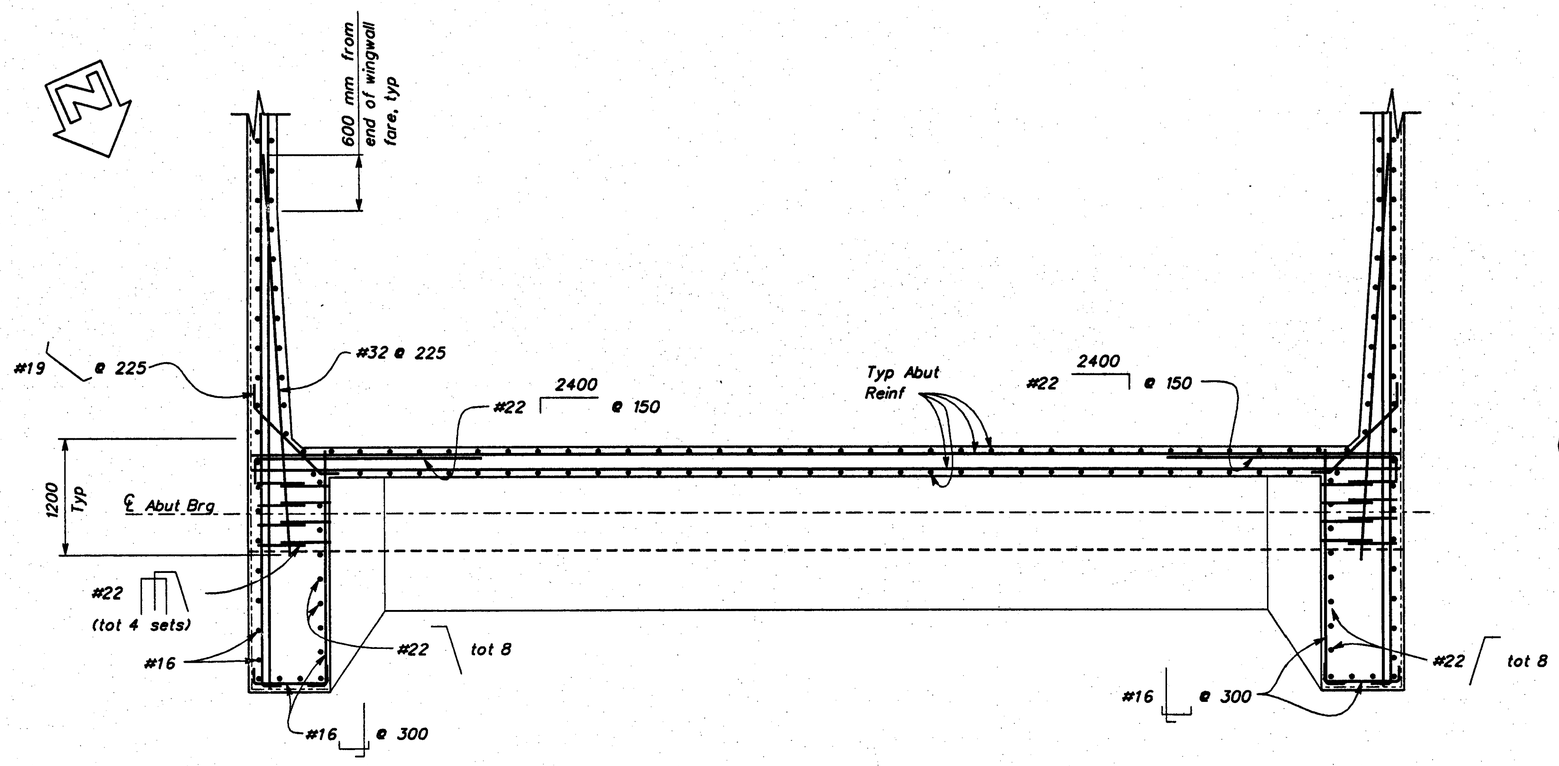
REGISTERED CIVIL ENGINEER — MICHAEL SCOTT TRAFFALIS, No. C46883, Exp. 06/30/03, CIVIL, REGISTERED PROFESSIONAL ENGINEER, STATE OF CALIFORNIA

7-2-01
PLANS APPROVAL DATE

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA. 95834

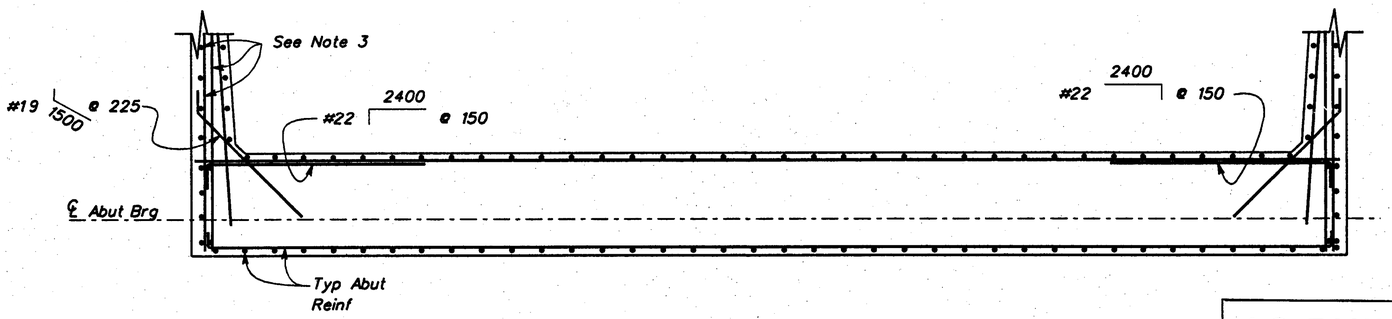
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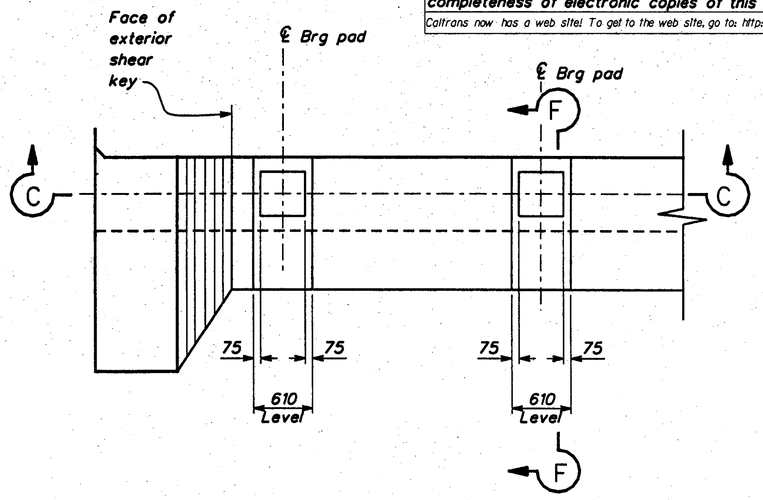
SECTION A–A

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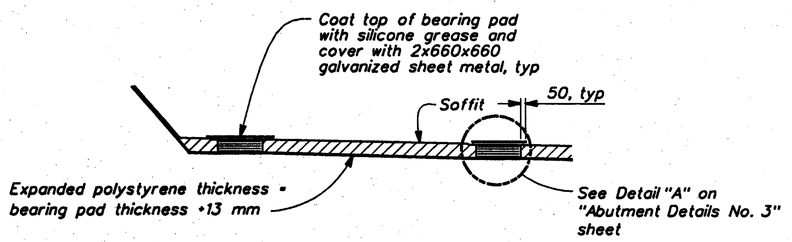
SECTION B–B

Scale: 1:30



ABUTMENT 1 BEARING PAD PLAN

Scale: 1:30



SECTION C–C

Scale: 1:30

AS BUILT — VL 7/19/04
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-29-03

NO AS BUILT CHANGES

NOTES:

1. *For location of "Section A-A" and "Section B-B" see "Abutment Layout" sheet.*
2. *"Section A-A" and "Section B-B" are shown for Abutment 1, Abutment 3 similar.*
3. *For size and spacing see "Abutment Details No. 3" sheet.*
4. *For "Section F-F" and "Abutment 7 Bearing Pad Plan" see "Abutment Details No. 3" sheet*

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

B.Z. Massey Jr. Joel Escabar — DESIGN OVERSIGHT — 4-18-01 SIGN OFF DATE	DESIGN BY A.T. Dubovik II	CHECKED E. Jao	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	M. Traffalis — PROJECT ENGINEER	BRIDGE NO. 42-393G
	DETAILS BY T. Burns	CHECKED S. Kazmi			KILOMETER POST 90.51
	QUANTITIES BY A.T. Dubovik II	CHECKED E. Jao		CU 06222 EA 342321	N99-W180 CONNECTOR SEPARATION
	FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100				ABUTMENT DETAILS NO. 2

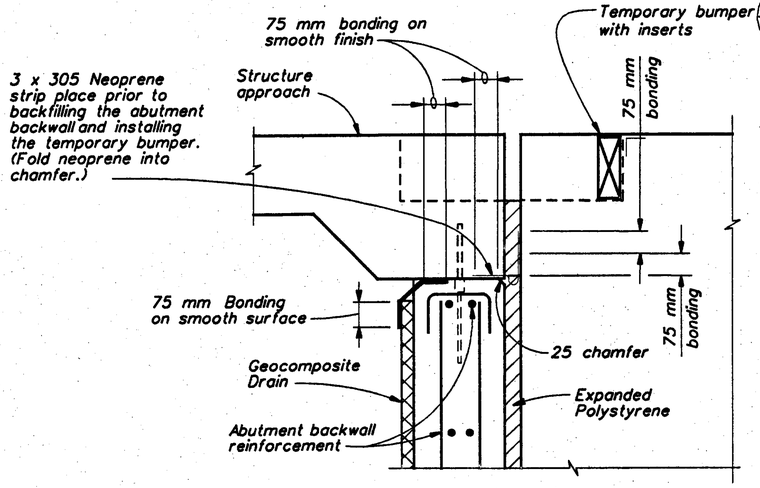
DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)								SHEET	OF
1/8/98	1/30/98	2/05/98	6/19/98	6/19/98	12/29/98	6/24/99	12/30/99	9	30
3/27/01									

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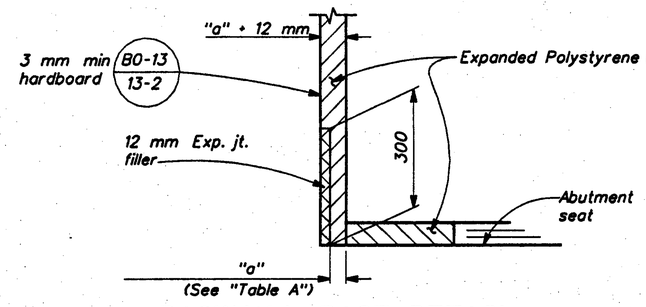
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JOINT PROTECTION DETAIL

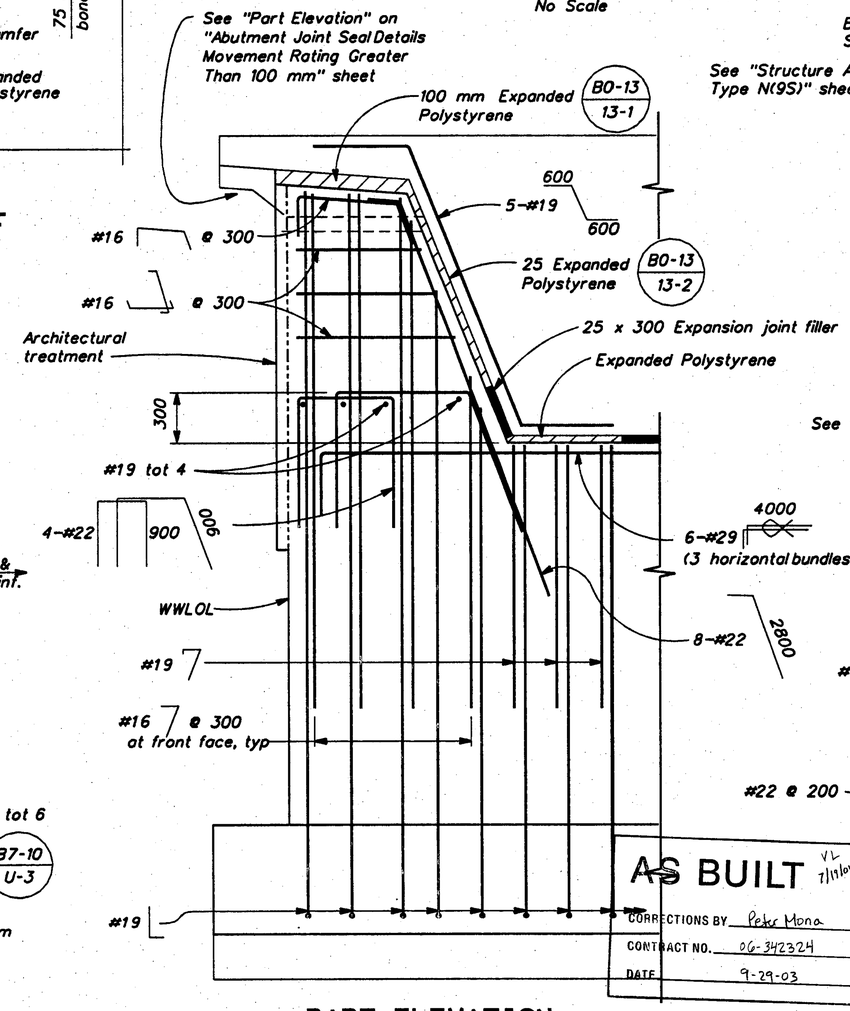
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BACKWALL BASE DETAIL

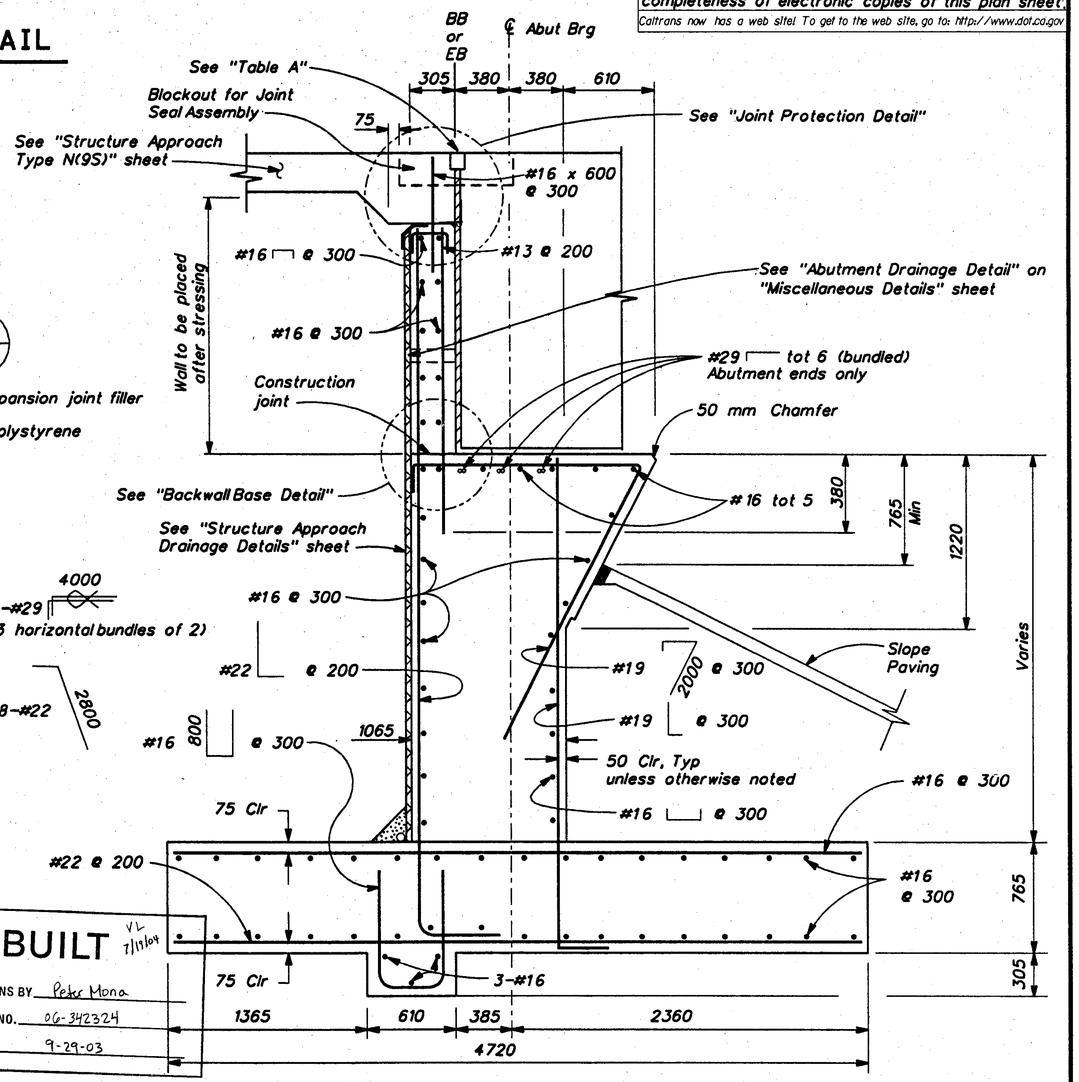
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Table A				
Location	MR	"a" dimensions		
		Winter	Summer	Spring/Fall
Abut 1	155 mm	72	36	54
Abut 7	130 mm	62	31	46



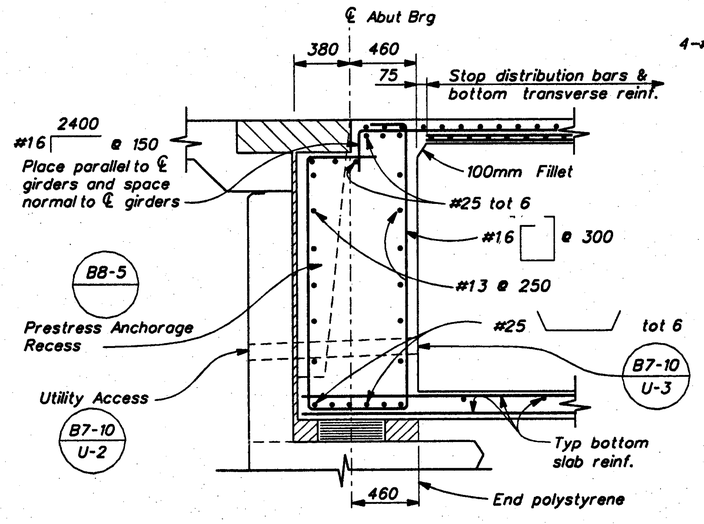
PART ELEVATION

Scale: 1:20



ABUTMENT SECTION

Scale: 1:20



END DIAPHRAGM SECTION

Scale 1:20

AS BUILT VL 7/19/04
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-29-03

NO AS BUILT CHANGES

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	389	461

REGISTERED CIVIL ENGINEER — MICHAEL SCOTT TRAFFALIS, No. C46883, Exp. 06/30/03, CIVIL, STATE OF CALIFORNIA

7-2-01
PLANS APPROVAL DATE

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA. 95834

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DESIGN	BY A.T. Dubovik II	CHECKED E. Jao	
DETAILS	BY T. Burns	CHECKED S. Kazmi	
QUANTITIES	BY A.T. Dubovik II	CHECKED E. Jao	

DESIGN OVERSIGHT: Joel Escabar for B.C. Murray
SIGN OFF DATE: 4-18-01

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

M. Traffalis
PROJECT ENGINEER

CU 06222
EA 342321

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

BRIDGE NO. 42-393G
KILOMETER POST 90.51

N99-W180 CONNECTOR SEPARATION
ABUTMENT DETAILS NO. 1

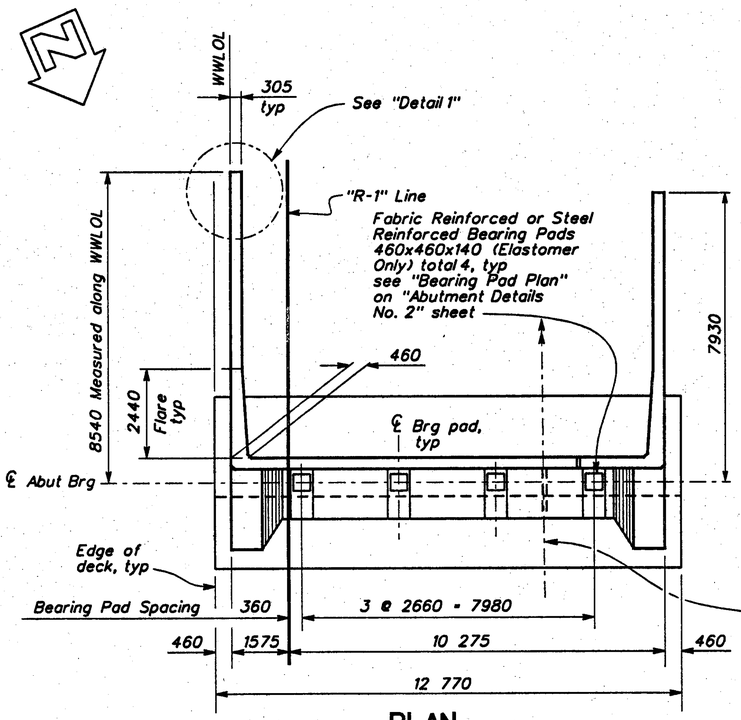
DISREGARD PRINTS BEARING EARLIER REVISION DATES →
REVISION DATES (PRELIMINARY STAGE ONLY): 10/15/97 | 7/9/98 | 7/30/98 | 2/15/99 | 6/14/99 | 6/18/99 | 12/29/99 | 6/21/99 | 12/29/99 | 3/27/01

SHEET 8 OF 30

FILE: /12227/DGN/wconsep/wcspAB02.DGN 17-apr-01

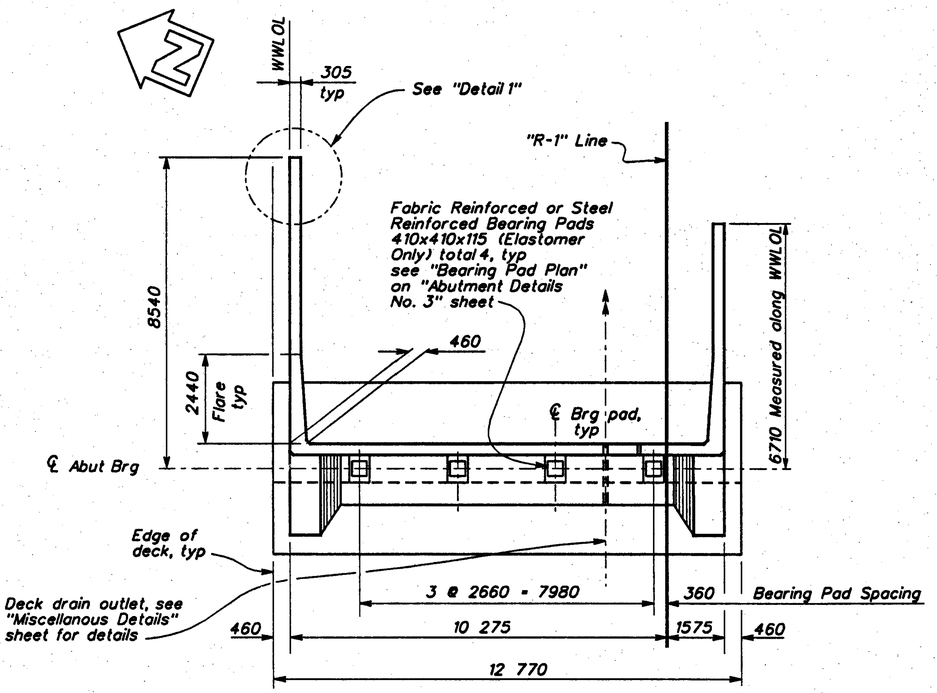
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PLAN

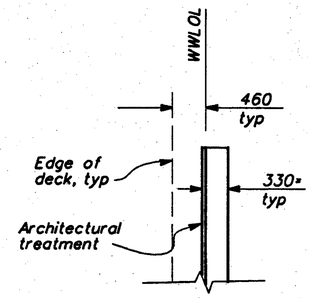
Abutment 1
Scale: 1:80



PLAN

Abutment 7
Scale: 1:80

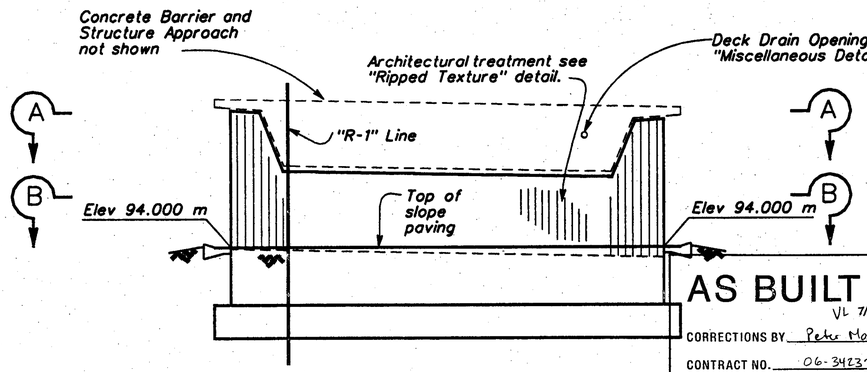
Deck drain outlet, see "Miscellanous Details" sheet for details



* Includes additional 25mm of concrete cover for architectural treatment

DETAIL 1

No Scale

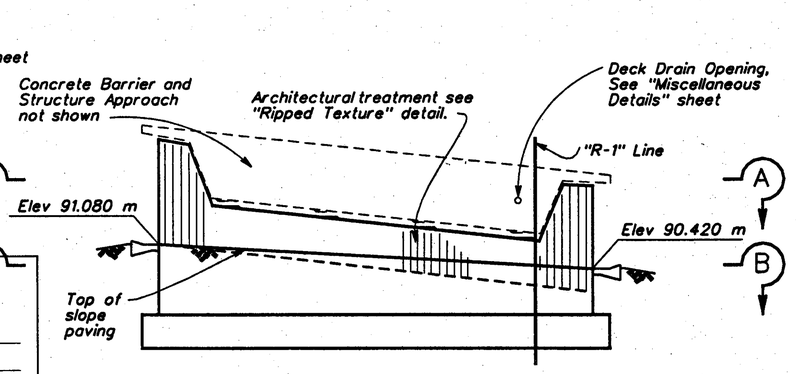


ELEVATION

Abutment 1
Scale: 1:80

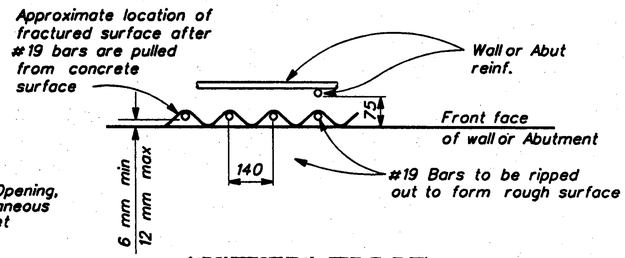
AS BUILT
VL 7/1/04
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-29-03

NO AS BUILT CHANGES



ELEVATION

Abutment 7
Scale: 1:80



(ARCHITECTURAL TREATMENT)

RIPPED TEXTURE

No Scale

NOTES:

1. Footing key in "Elevation" not shown.
2. For "Sections A-A" and "Section B-B" see "Abutment Details No. 2" sheet.
3. For limits of architectural treatment on wingwalls see " Abutment Details No. 3" sheet

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	388	461

Caltrans Metric

REGISTERED CIVIL ENGINEER

7-2-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL SCOTT TRAFFALIS — No. C46883 — Exp. 06/30/03 — CIVIL — STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA. 95834

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DESIGN	BY A.T. Dubovik II	CHECKED E. Jao	
DETAILS	BY T. Burns	CHECKED S. Kazmi	
QUANTITIES	BY A.T. Dubovik II	CHECKED E. Jao	

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

M. Traffalis
PROJECT ENGINEER

BR Massey for Joel Escabar
DESIGN OVERSIGHT
4-18-01
SIGN OFF DATE

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

CU 06222
EA 342321

BRIDGE NO.	N99-W180 CONNECTOR SEPARATION
42-393G	
KILOMETER POST 90.51	ABUTMENT LAYOUT

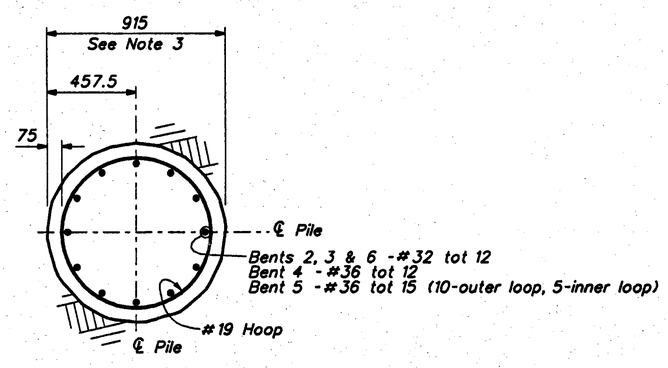
DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)								SHEET	OF
1/8/98	1/30/98	2/05/98	5/11/98	6/18/98	12/29/98	6/24/99	12/30/99	7	30
3/27/01									

FILE:F:/12227a/dgn/wconsep/wcspab01.dgn 17-apr-01

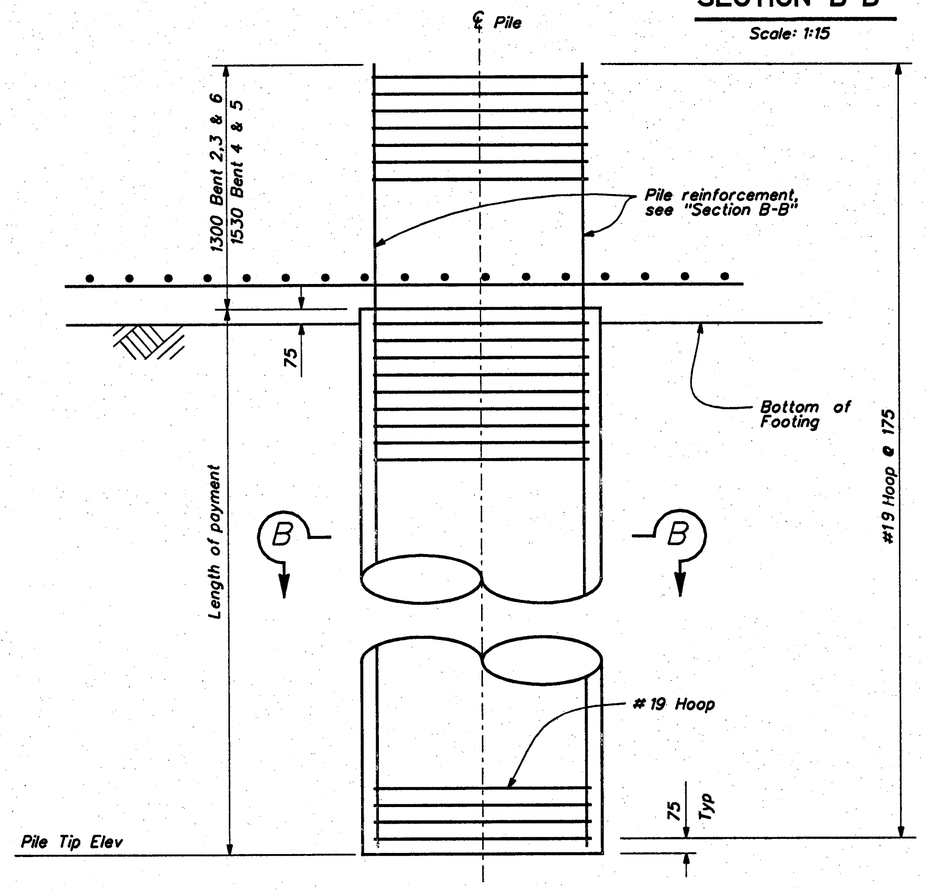
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SECTION B-B

Scale: 1:15

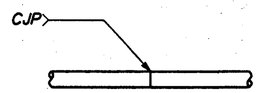


900 CAST-IN-DRILLED-HOLE (CIDH) CONCRETE PILE

Scale: 1:20

NOTES:

1. Splices in longitudinal reinforcement not allowed.
2. Out to out diameter of the "900 cast-in-drilled hole (CIDH) concrete pile" shall be 915.



Individual hoops, made continuous with 100% penetration welds only allowed.

BUTT WELDED CONTINUOUS HOOP

HOOP DETAIL

No Scale

AS BUILT 7/19/04 VL
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-29-03

NO AS BUILT CHANGES

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	400	461

REGISTERED CIVIL ENGINEER — MICHAEL SCOTT TRAFFALIS, No. C46883, Exp. 06/30/03, CIVIL, REGISTERED PROFESSIONAL ENGINEER, STATE OF CALIFORNIA

7-2-01
PLANS APPROVAL DATE

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA 95834

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ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

B2 Massey for Joel Escabar
DESIGN OVERSIGHT
4-18-01
SIGN OFF DATE

	BY	CHECKED
DESIGN	A.T. Dubovik II	E. Jao
DETAILS	T. Burns	S. Kazmi
QUANTITIES	A.T. Dubovik II	E. Jao

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

M. Traffalis
PROJECT ENGINEER

CU 06222
EA 342321

BRIDGE NO. 42-393G
KILOMETER POST 90.51

N99-W180 CONNECTOR SEPARATION
BENT DETAILS NO. 2

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

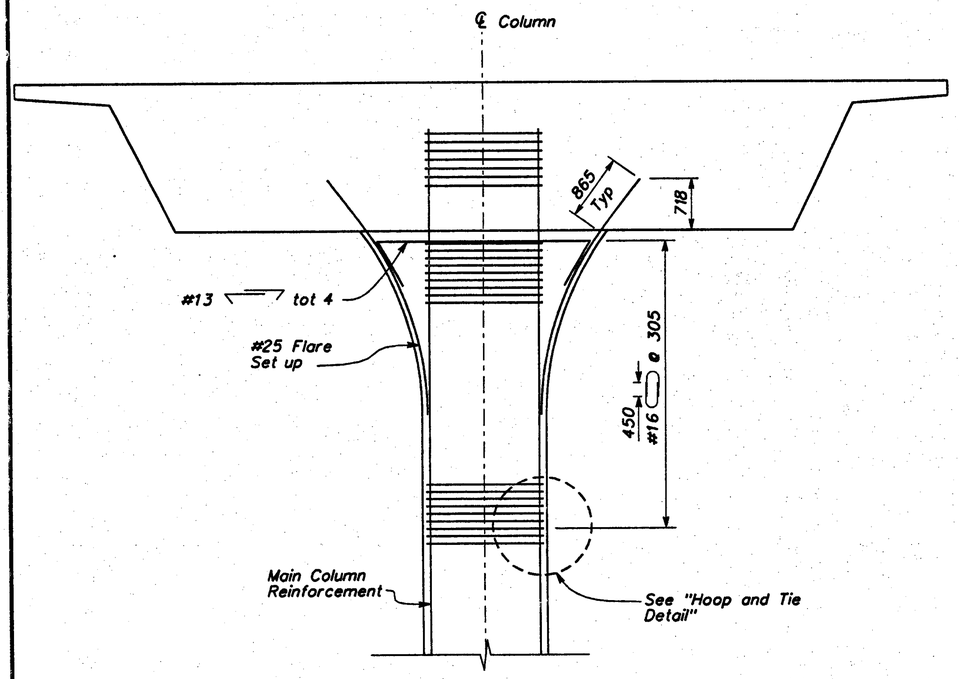
DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)								SHEET	OF
1/25/98	7/30/98	2/05/99	8/19/98	12/29/98	8/29/99	12/30/99	3/27/01	19	30

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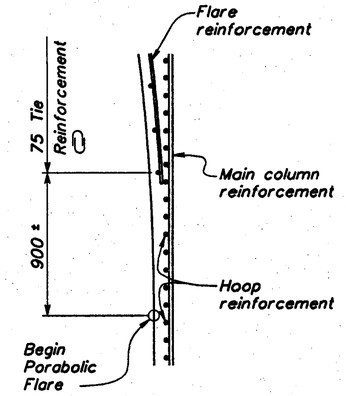
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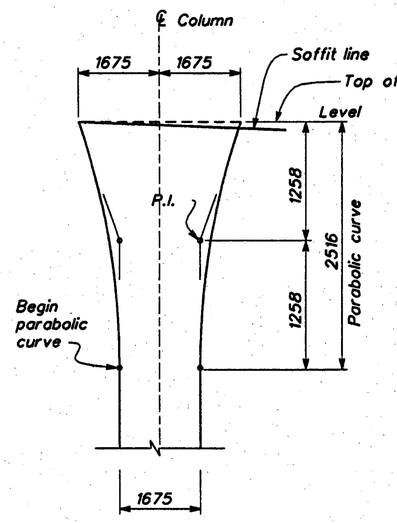
TYPICAL FLARE REINFORCEMENT

Scale: 1:40



HOOP AND TIE DETAIL

No Scale



COLUMN GEOMETRICS

No Scale

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	399	461

Michael Scott Traffalis
REGISTERED CIVIL ENGINEER

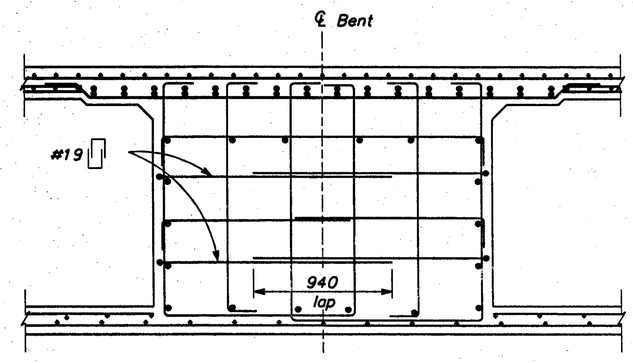
7-2-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL SCOTT TRAFFALIS — No. C46883 — Exp. 06/30/03 — CIVIL — STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA. 95834

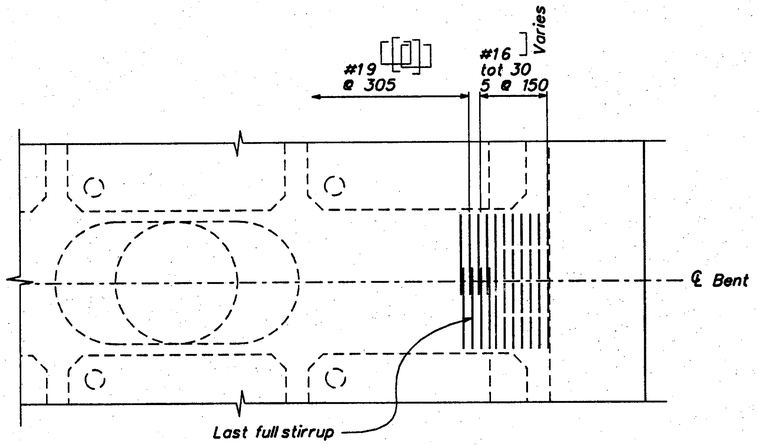
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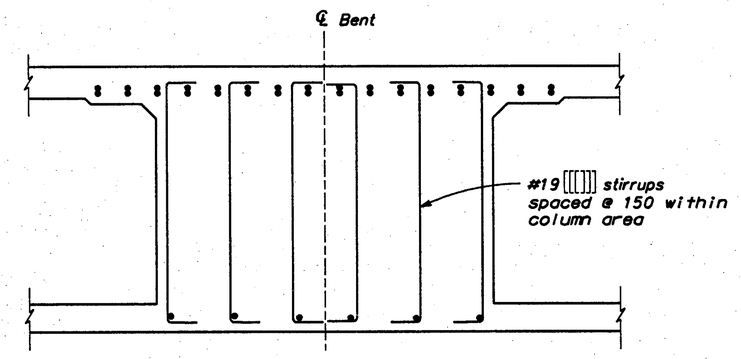
SECTION F-F

Scale: 1:20



SECTION E-E

No Scale
(Bent 2 shown, other bents similar)

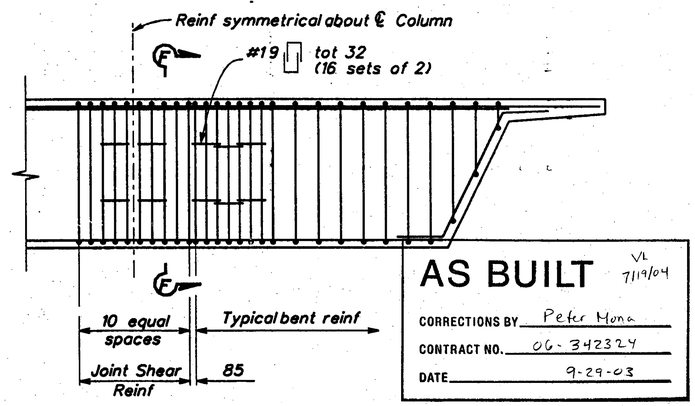


JOINT SHEAR REINF

Scale: 1:20

Bent cap reinf and deck reinf not shown for clarity

Note:
Stirrups may be moved to avoid column reinf (if necessary 1 bar per row, max 11 bars may be omitted to avoid conflict with column reinforcement)



AS BUILT VL 7/19/04
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-29-03

HORIZONTAL STIRRUP PATTERN

No Scale

NO AS BUILT CHANGES

ALL DIMENSIONS ARE IN MILLIMETERS
UNLESS OTHERWISE SHOWN

DESIGN	BY A.T. Dubovik II	CHECKED E. Jao	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO. 42-393G	N99-W180 CONNECTOR SEPARATION
DETAILS	BY T. Burns	CHECKED S. Kazmi		KILOMETER POST 90.51	BENT DETAILS NO. 1
QUANTITIES	BY A.T. Dubovik II	CHECKED E. Jao			

BZ Massey for Joel Escabar
DESIGN OVERSIGHT
4-18-01
SIGN OFF DATE

M. Traffalis
PROJECT ENGINEER

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

CU 06222
EA 342321

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

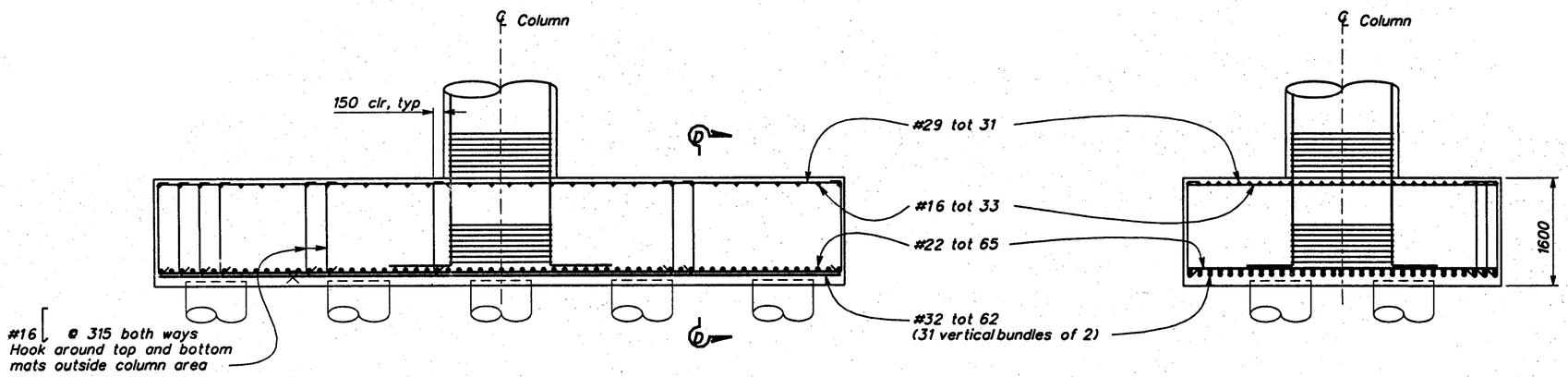
REVISION DATES (PRELIMINARY STAGE ONLY): 7/24/98 | 7/30/98 | 2/05/99 | 6/11/99 | 12/29/99 | 6/21/99 | 12/28/99 | 3/27/01

SHEET 18 OF 30

FILE: /12227o/DGN/wcansep/wcspbd02.DGN 17-apr-01

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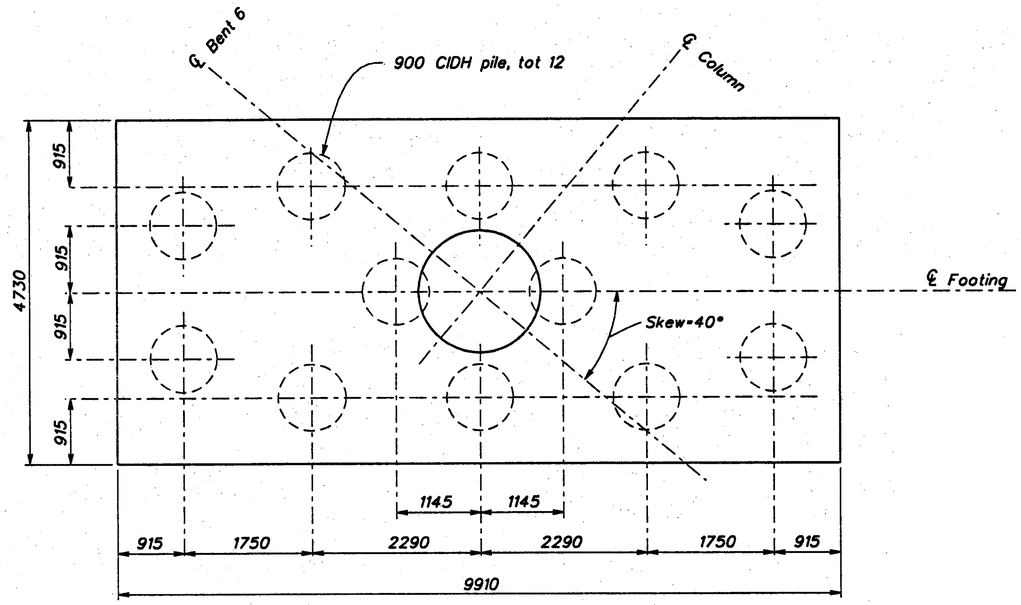
ELEVATION

Scale: 1:40

NOTES:
Pile reinforcement not shown for clarity.

SECTION D-D

Scale: 1:40



FOOTING PLAN

Scale: 1:40

AS BUILT VL 7/19/04
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-29-03

NO AS BUILT CHANGES

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	398	461

Caltrans Metric

Michael Scott Traffalis
REGISTERED CIVIL ENGINEER

7-2-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL SCOTT TRAFFALIS — No. C46883 — Exp. 06/30/03 — CIVIL — STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
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SACRAMENTO, CA. 95834

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B2 Massey for Joel Escabar
DESIGN OVERSIGHT
4-18-01
SIGN OFF DATE

	BY		CHECKED
DESIGN	A.T. Dubovik II		E. Jao
DETAILS	T. Burns		S. Kazmi
QUANTITIES	A.T. Dubovik II		E. Jao

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

M. Traffalis
PROJECT ENGINEER

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

CU 06222
EA 342321

BRIDGE NO. 42-393G
KILOMETER POST 90.51

N99-W180 CONNECTOR SEPARATION
BENT 6 - 2 OF 2

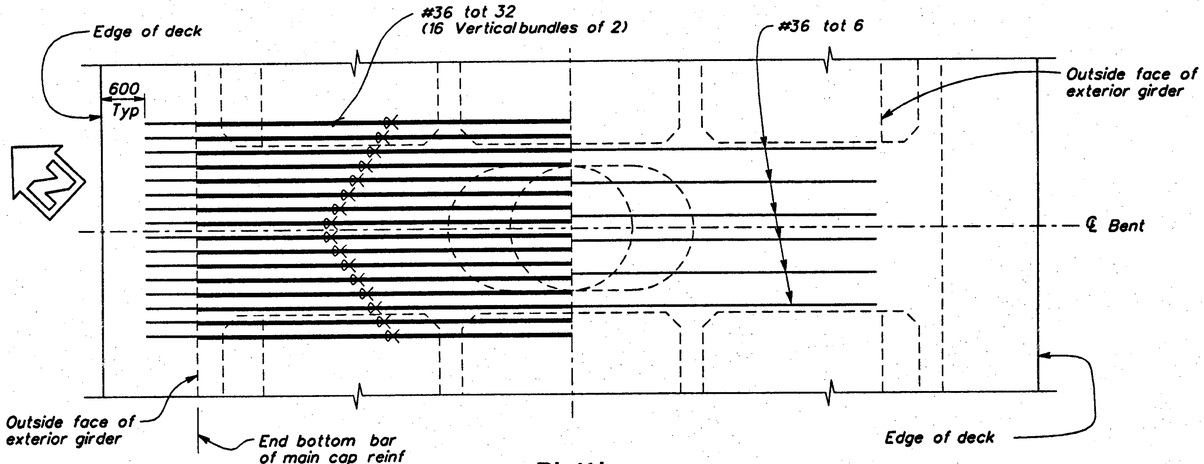
DISREGARD PRINTS BEARING EARLIER REVISION DATES →
REVISION DATES (PRELIMINARY STAGE ONLY): 10/15/97 | 7/21/98 | 1/28/98 | 2/05/98 | 6/11/98 | 12/29/98 | 6/21/99 | 12/28/99 | 3/27/01

SHEET 17 OF 30

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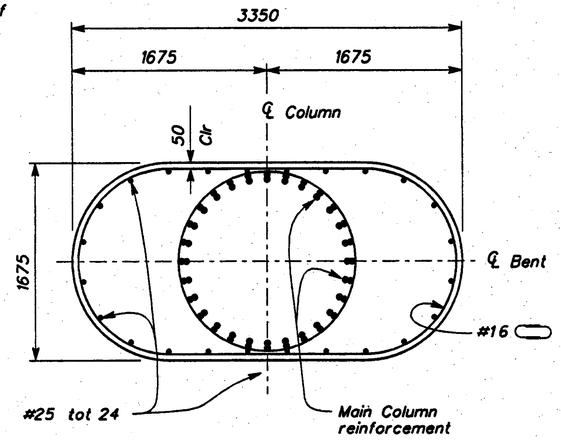
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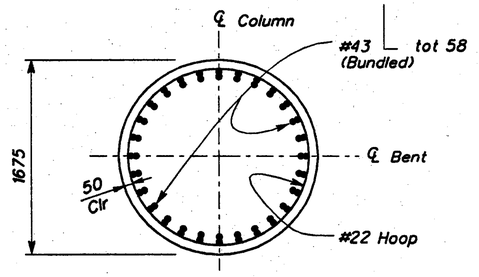
PLAN

Scale: 1:40



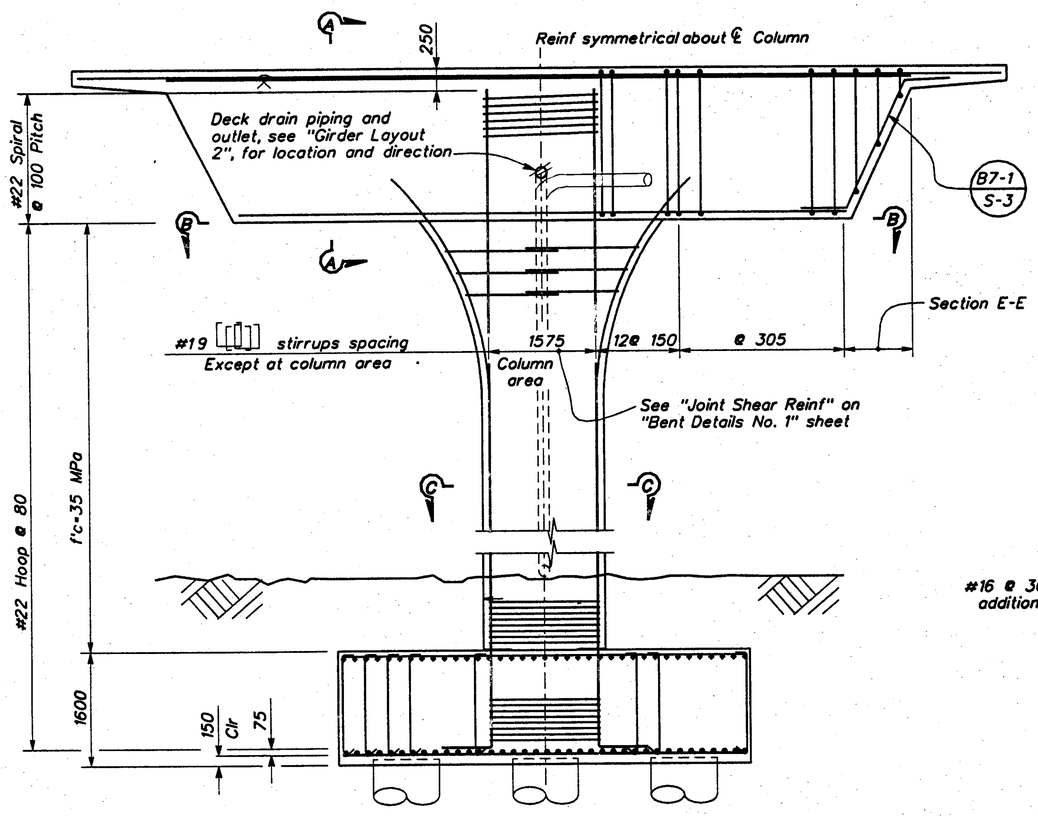
SECTION B–B

Scale: 1:25



SECTION C–C

Scale: 1:25

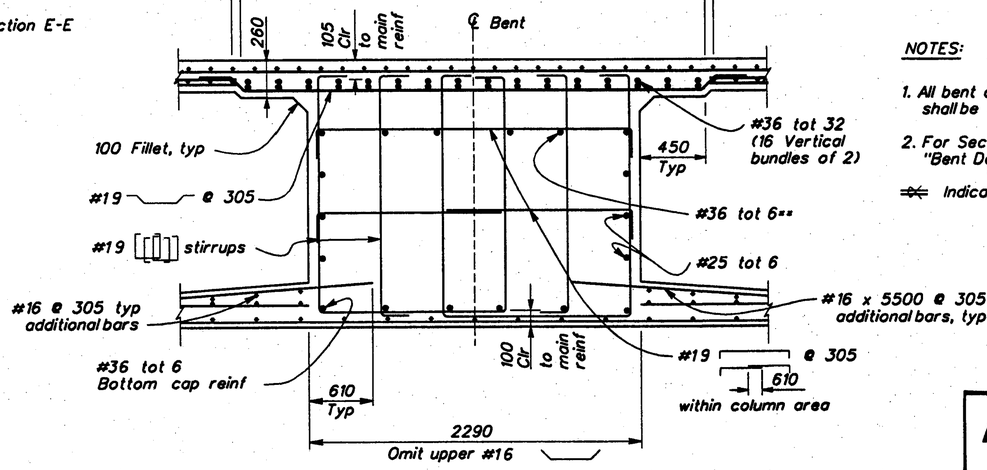


ELEVATION

Scale: 1:40

NOTES:

Pile reinforcement not shown for clarity.



SECTION A-A

Scale: 1:20

** Place reinforcement as required to clear P/S duct

NOTES:

1. All bent cap main reinforcement and vertical column reinf shall be continuous unless otherwise noted.
2. For Section E-E and Horizontal Stirrups, see "Bent Details No. 1" sheet.

⋘ Indicates bundled bars

AS BUILT VL 6-17-04
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-29-03

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	397	461

Caltrans Metric

REGISTERED CIVIL ENGINEER — MICHAEL SCOTT TRAFFALIS, No. C46883, Exp. 06/30/03, CIVIL, STATE OF CALIFORNIA

7-2-01
PLANS APPROVAL DATE

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
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DESIGN	BY A.T. Dubovik II	CHECKED E. Jao	
DETAILS	BY T. Burns	CHECKED S. Kazmi	
QUANTITIES	BY A.T. Dubovik II	CHECKED E. Jao	

B2 Marcy for Joel Escabar
DESIGN OVERSIGHT
4-18-01
SIGN OFF DATE

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

M. Traffalis
PROJECT ENGINEER

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

CU 06222
EA 342321

BRIDGE NO. 42-393G
KILOMETER POST 90.51

N99-W180 CONNECTOR SEPARATION
BENT 6 - 1 OF 2

DISREGARD PRINTS BEARING EARLIER REVISION DATES

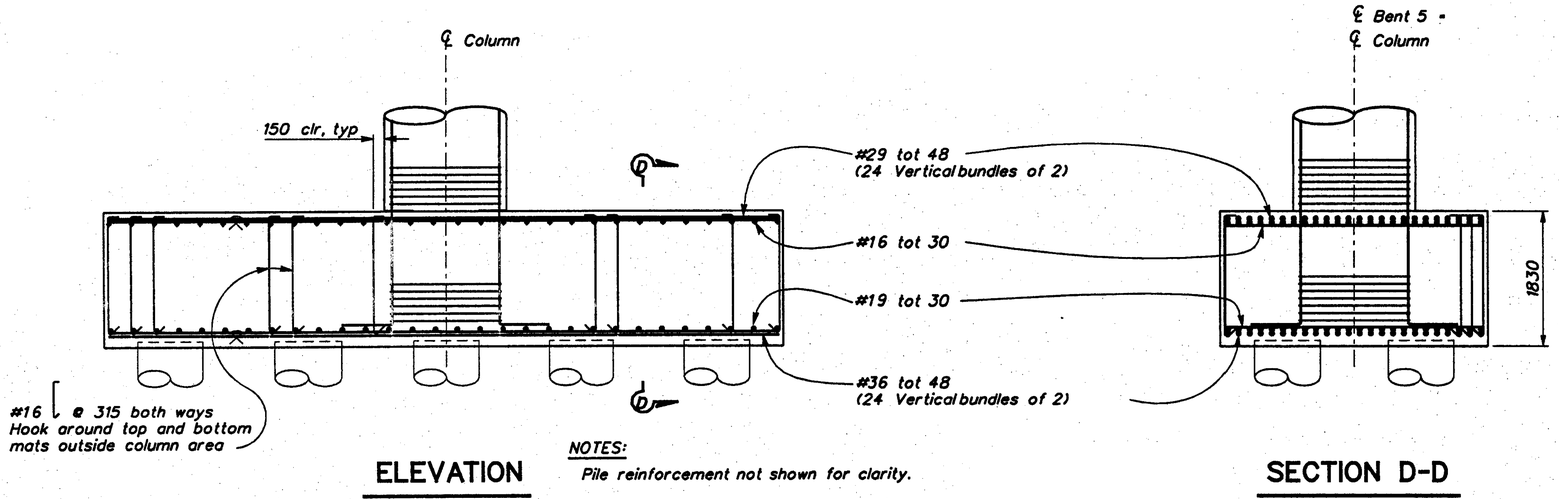
REVISION DATES (PRELIMINARY STAGE ONLY): 10/15/97 | 1/21/98 | 7/30/98 | 2/05/99 | 8/11/99 | 12/22/99 | 6/21/99 | 12/30/99 | 3/27/01

SHEET 16 OF 30

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ELEVATION

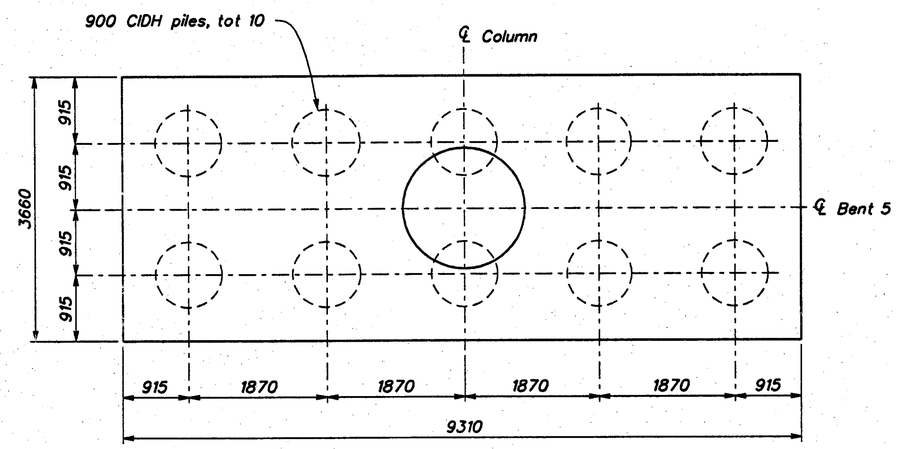
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NOTES:

Pile reinforcement not shown for clarity.

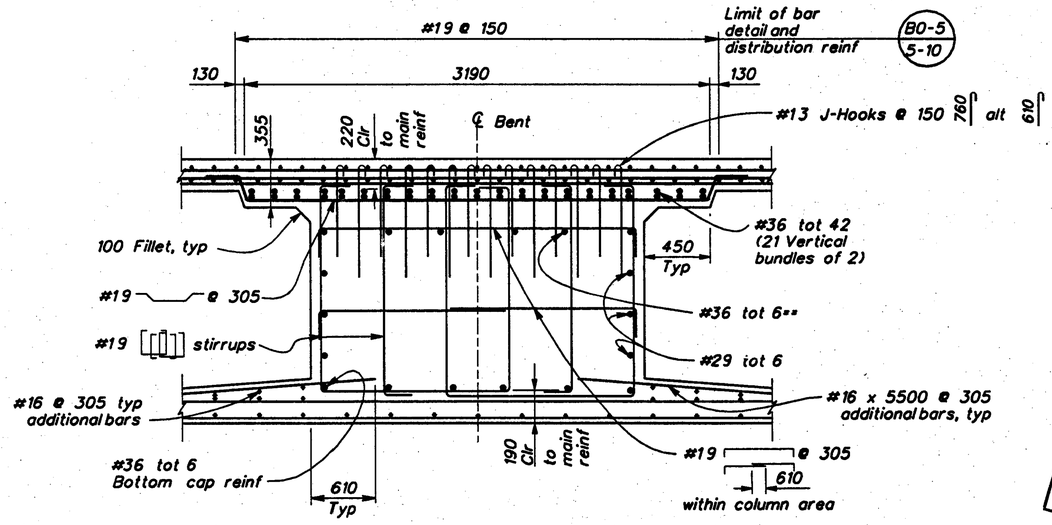
SECTION D-D

Scale: 1:40



FOOTING PLAN

Scale: 1:40



SECTION A-A

Scale: 1:20

** Place reinforcement as required to clear P/S duct

AS BUILT
VL 7/19/04
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-29-03

NO AS BUILT CHANGES

ALL DIMENSIONS ARE IN MILLIMETERS
UNLESS OTHERWISE SHOWN

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	396	461

Caltrans Metric

Michael Scott Traffalis
REGISTERED CIVIL ENGINEER
7-2-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MICHAEL SCOTT TRAFFALIS
No. C46883
Exp. 06/30/03
CIVIL
STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
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B2 Massey for Joel Escabarl
DESIGN OVERSIGHT
4-18-01
SIGN OFF DATE

	BY	CHECKED
DESIGN	A.T. Dubovik II	E. Jao
DETAILS	T. Burns	S. Kazmi
QUANTITIES	A.T. Dubovik II	E. Jao

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

M. Traffalis
PROJECT ENGINEER

FOR REDUCED PLANS
ORIGINAL SCALE IS IN MILLIMETERS
0 20 40 60 80 100

CU 06222
EA 342321

BRIDGE NO. 42-393G
KILOMETER POST 90.51

N99-W180 CONNECTOR SEPARATION
BENT 5 - 2 OF 2

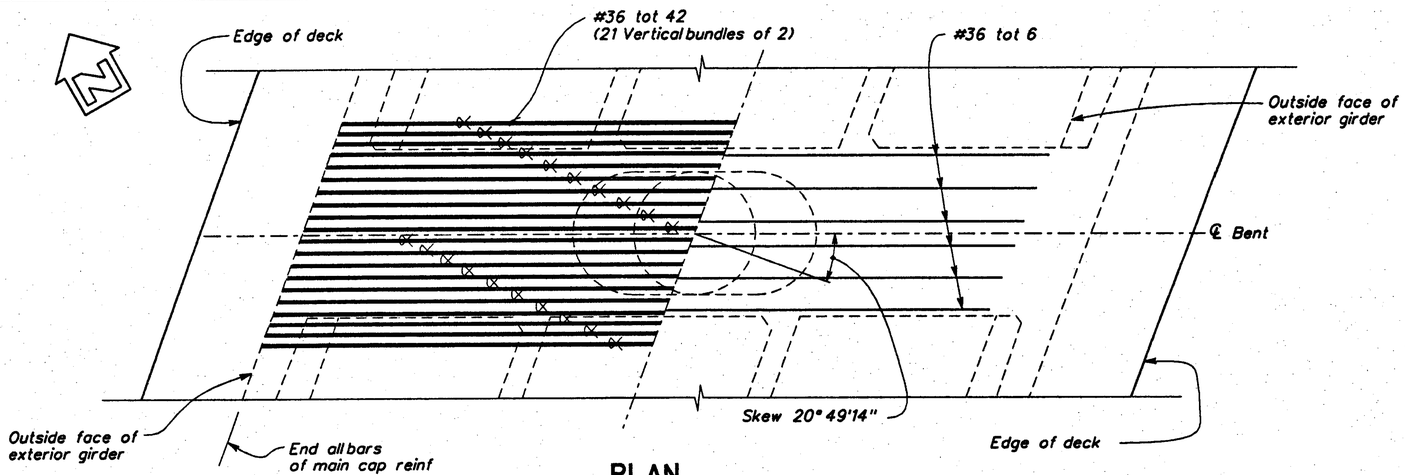
DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)									SHEET	OF
10/15/97	7/21/98	7/30/98	2/05/99	6/11/99	6/18/99	12/29/99	6/21/99	12/30/99	15	30

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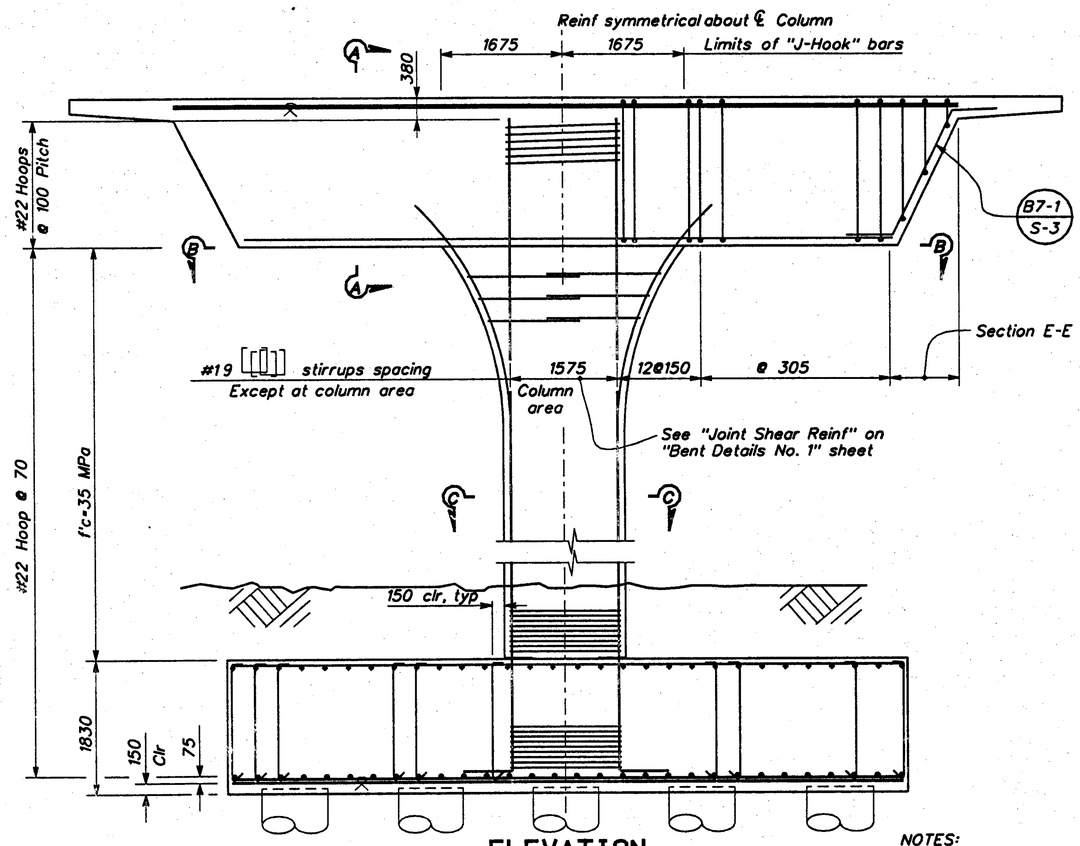
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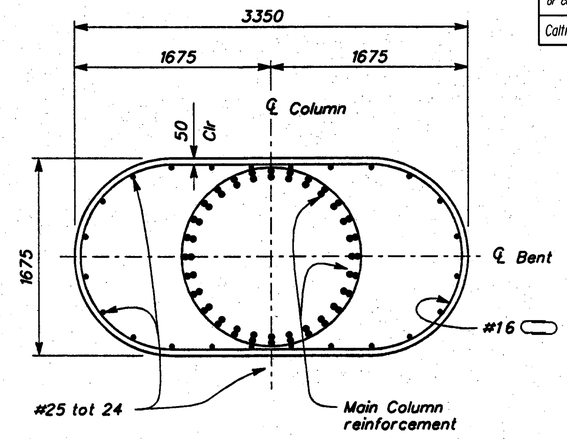
TOP REINFORCEMENT

PLAN
Scale: 1:40

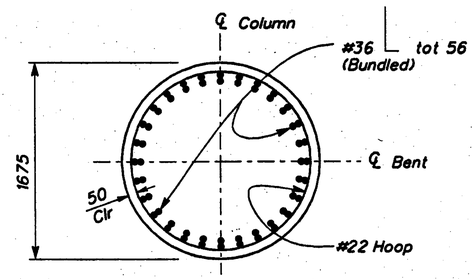
BOTTOM REINFORCEMENT



ELEVATION
Scale: 1:40



SECTION B–B
Scale: 1:25



SECTION C–C
Scale: 1:25

AS BUILT
7/19/04
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-29-03

NOTES:
1. All bent cap main reinforcement and vertical column reinf shall be continuous unless otherwise noted.
2. For Section E-E and Horizontal Stirrups, see "Bent Details No. 1" sheet.
3. For "J-Hook" bars, see "Bent 5 - 2 of 2" sheet.
4. For Section A-A see "Bent 5 - 2 of 2" sheet

⋙ Indicates bundled bars

NOTES:
Pile reinforcement not shown for clarity.

NO AS BUILT CHANGES

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	395	461

Michael Scott Traffalis
REGISTERED CIVIL ENGINEER
7-2-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL SCOTT TRAFFALIS — No. C46883 — Exp. 06/30/03 — CIVIL — STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA 95834

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DESIGN	BY A.T. Dubovik II	CHECKED E. Jao	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY T. Burns	CHECKED S. Kazmi	
QUANTITIES	BY A.T. Dubovik II	CHECKED E. Jao	

BZ Massey for Joel Escabar
DESIGN OVERSIGHT
4-18-01
SIGN OFF DATE

M. Traffalis
PROJECT ENGINEER

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

CU 06222
EA 342321

BRIDGE NO.	N99-W180 CONNECTOR SEPARATION
42-393G	
KILOMETER POST	BENT 5 - 1 OF 2
90.51	

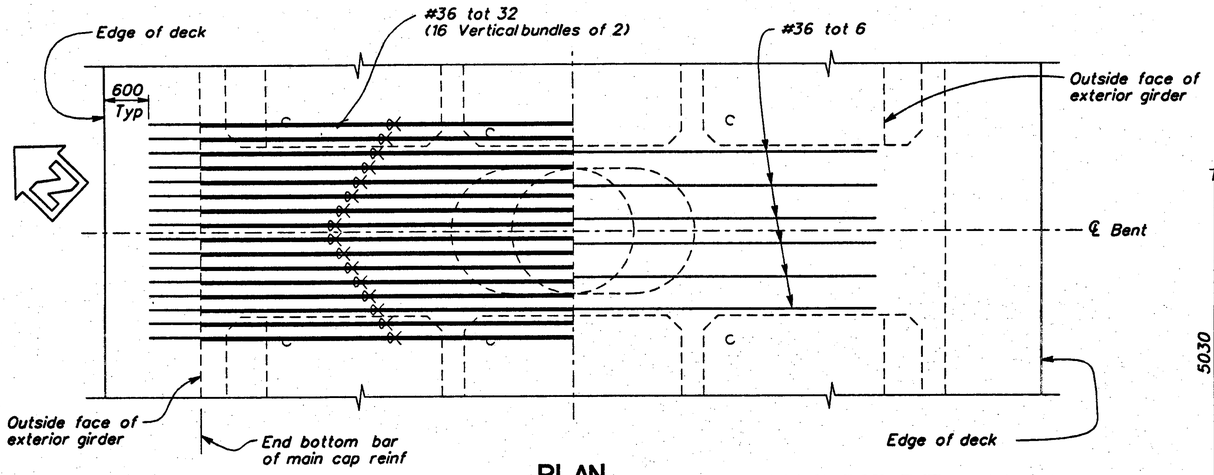
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REVISION DATES (PRELIMINARY STAGE ONLY)								SHEET	OF
10/15/97	7/21/98	1/30/98	2/05/98	6/19/98	8/19/98	12/22/98	8/21/98	12/30/99	3/27/01	14	30

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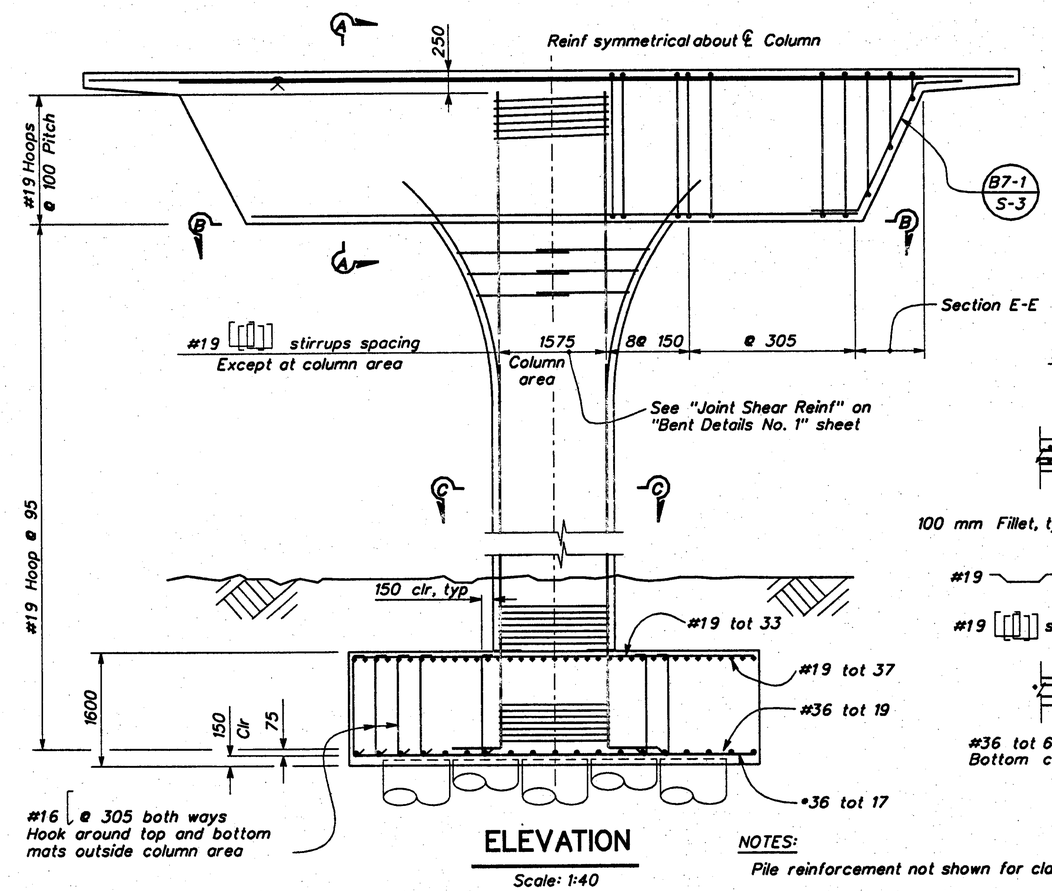


TOP REINFORCEMENT

PLAN

Scale: 1:40

BOTTOM REINFORCEMENT

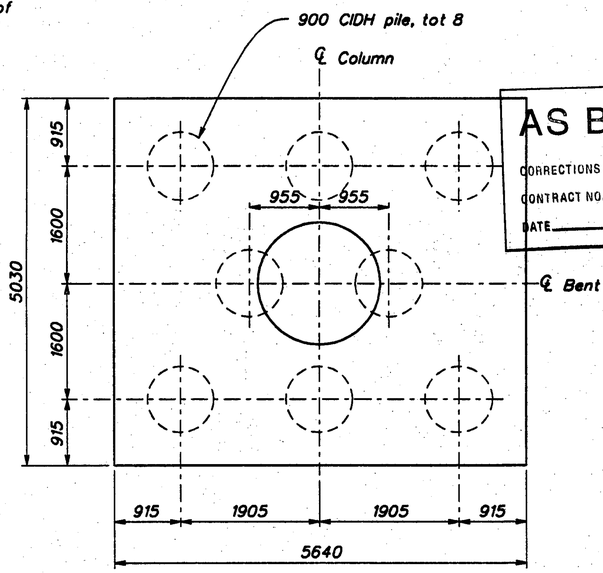


ELEVATION

Scale: 1:40

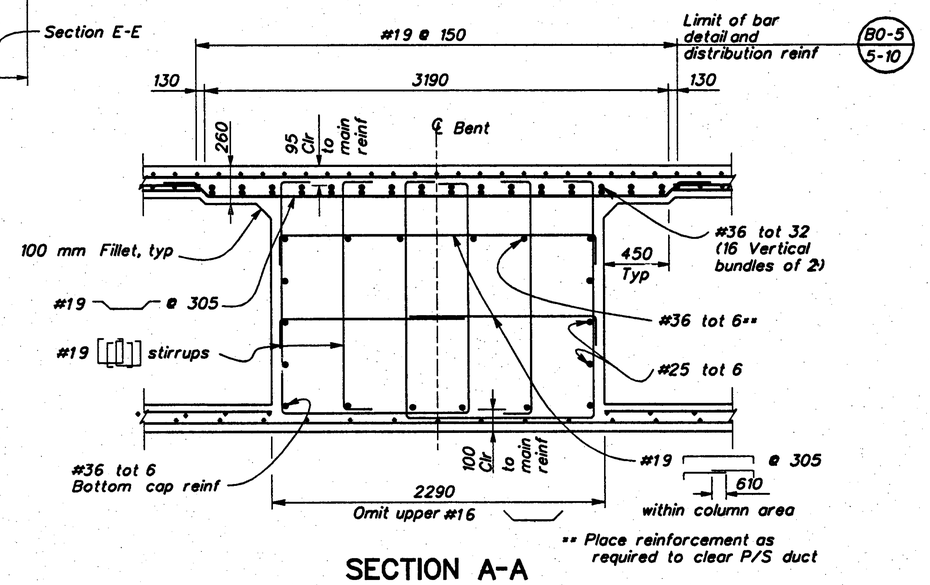
NOTES:

Pile reinforcement not shown for clarity.



FOOTING PLAN

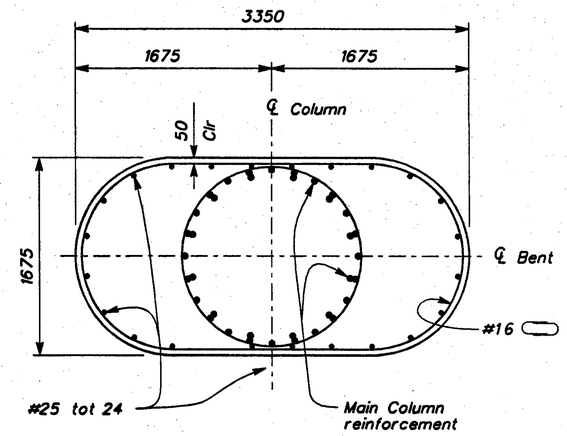
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SECTION A-A

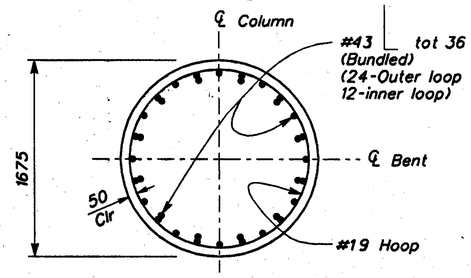
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** Place reinforcement as required to clear P/S duct



SECTION B-B

Scale: 1:25



SECTION C-C

Scale: 1:25

NOTES:

1. All bent cap main reinforcement and vertical column reinf shall be continuous unless otherwise noted.
2. For Section E-E and Horizontal Stirrups, see "Bent Details No. 1" sheet.

⊂⊃ Indicates bundled bars

NO AS BUILT CHANGES

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	394	461

Caltrans Metric

REGISTERED CIVIL ENGINEER — MICHAEL SCOTT TRAFFALIS, No. C46883, Exp. 06/30/03, CIVIL, STATE OF CALIFORNIA

7-2-01
PLANS APPROVAL DATE

AS BUILT — VL 7/19/04
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-29-03

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA. 95834

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B2 Marcy for Joel Escobar
DESIGN OVERSIGHT
4-18-01
SIGN OFF DATE

	BY	CHECKED
DESIGN	A.T. Dubovik II	E. Jao
DETAILS	T. Burns	S. Kazmi
QUANTITIES	A.T. Dubovik II	E. Jao

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

M. Traffalis
PROJECT ENGINEER

CU 06222
EA 342321

BRIDGE NO. 42-393G
KILOMETER POST 90.51

N99-W180 CONNECTOR SEPARATION
BENT 4

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

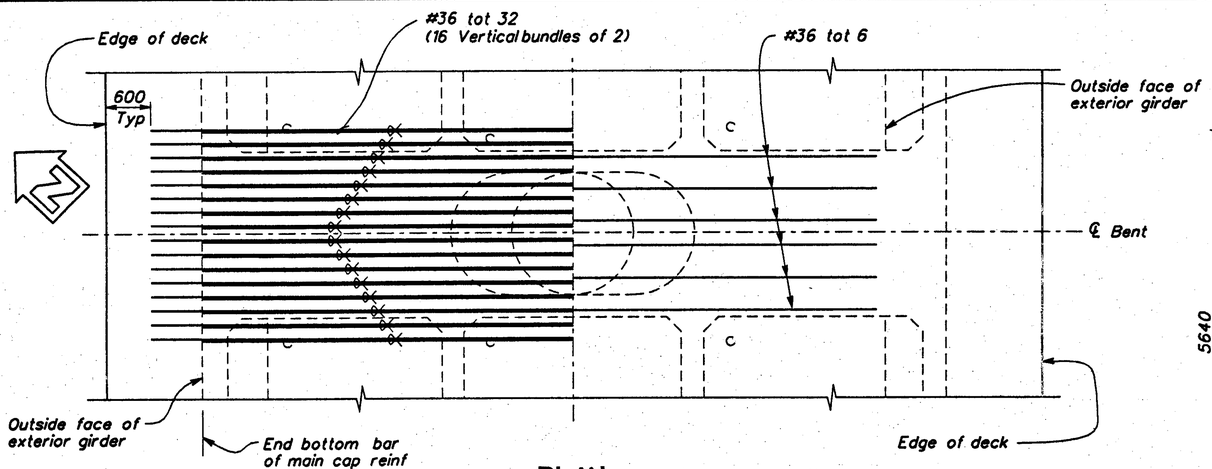
DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)								SHEET	OF
10/15/97	1/21/98	7/30/98	2/05/98	6/11/98	6/18/98	12/29/98	6/21/99	13	30

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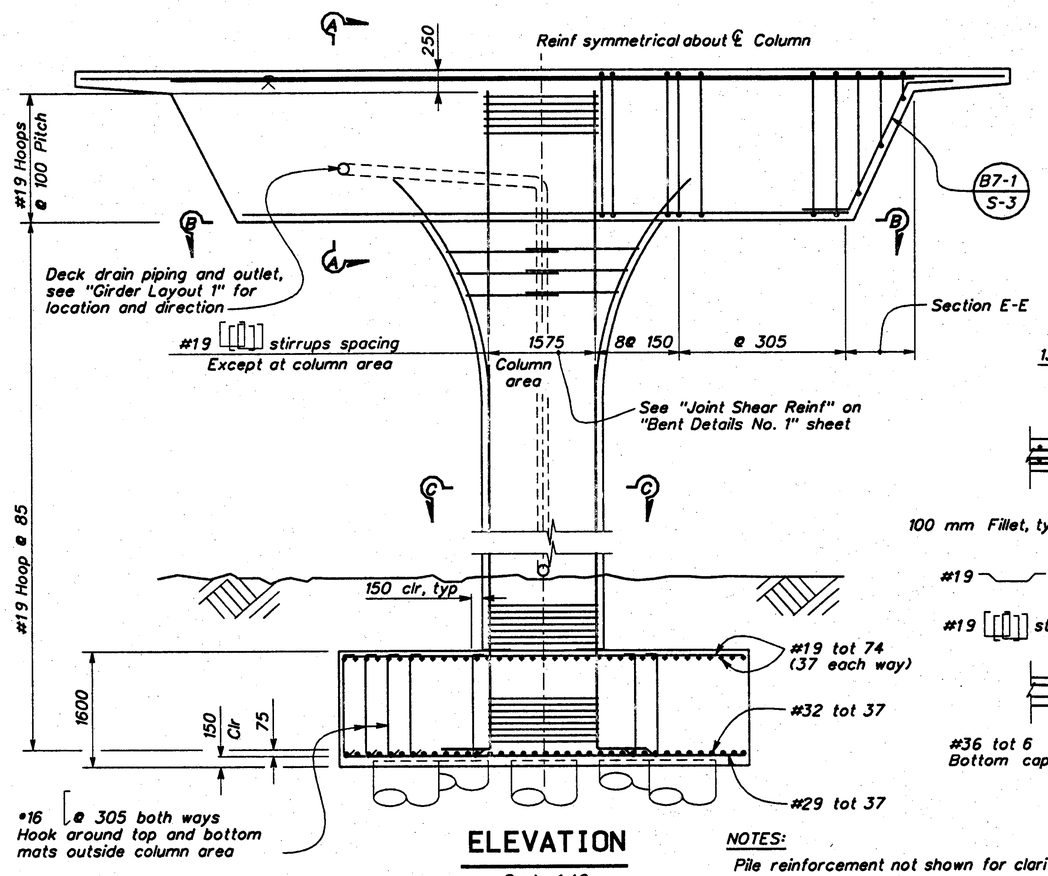


TOP REINFORCEMENT

PLAN

Scale: 1:40

BOTTOM REINFORCEMENT

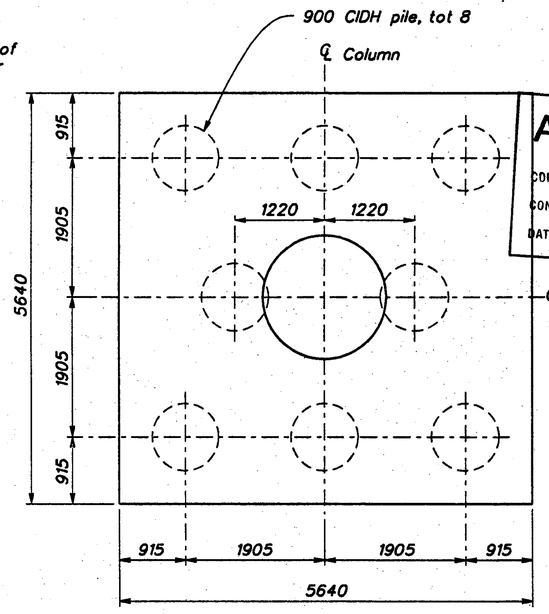


ELEVATION

Scale: 1:40

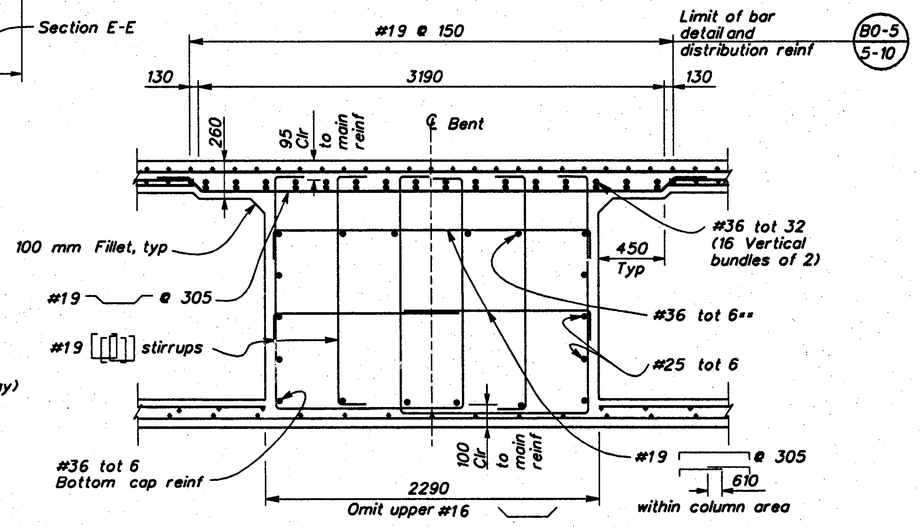
NOTES:

Pile reinforcement not shown for clarity.



FOOTING PLAN

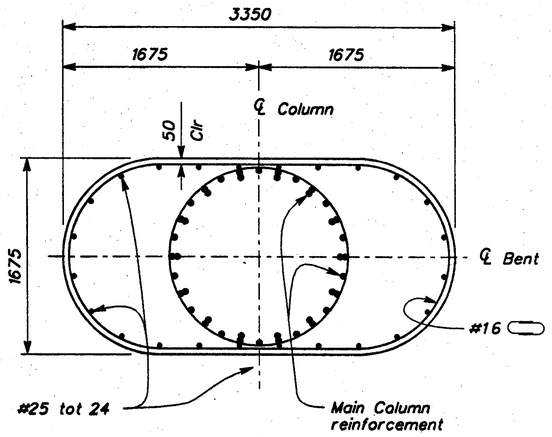
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SECTION A-A

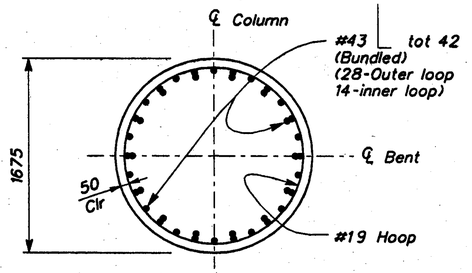
Scale: 1:20

** Place reinforcement as required to clear P/S duct



SECTION B-B

Scale: 1:25



SECTION C-C

Scale: 1:25

NOTES:

1. All bent cap main reinforcement and vertical column reinf shall be continuous unless otherwise noted.
2. For Section E-E and Horizontal Stirrups, see "Bent Details No. 1" sheet.

⋘ Indicates bundled bars

NO AS BUILT CHANGES

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	393	461

Caltrans Metric

REGISTERED CIVIL ENGINEER — 7-2-01 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL SCOTT TRAFFALIS — No. C46883 — Exp. 06/30/03 — CIVIL — STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA. 95834

AS BUILT — CORRECTIONS BY Peter Mone — CONTRACT NO. 06-342324 — DATE 9-29-03 — VL 7/19/04

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DESIGN	BY A.T. Dubovik II	CHECKED E. Jao	
DETAILS	BY T. Burns	CHECKED S. Kazmi	
QUANTITIES	BY A.T. Dubovik II	CHECKED E. Jao	

B.C. Massey Jr. Joel Escabar
DESIGN OVERSIGHT
4-18-01
SIGN OFF DATE

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

M. Traffalis
PROJECT ENGINEER

CU 06222
EA 342321

BRIDGE NO. 42-393G

KILOMETER POST 90.51

N99-W180 CONNECTOR SEPARATION

BENT 3

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

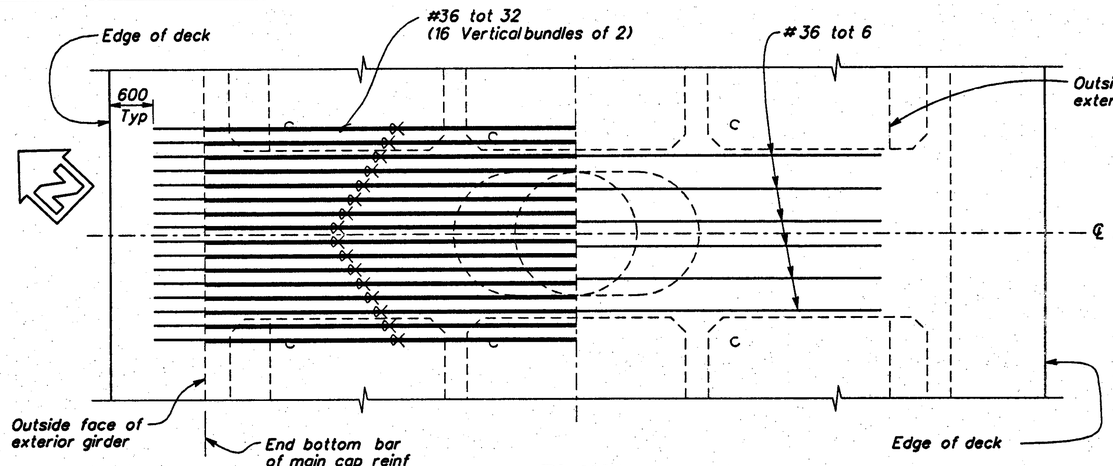
DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)									SHEET	OF
10/15/97	1/29/98	7/30/98	2/05/98	6/19/98	6/19/98	12/22/98	6/29/99	12/29/99	3/27/01	12	30

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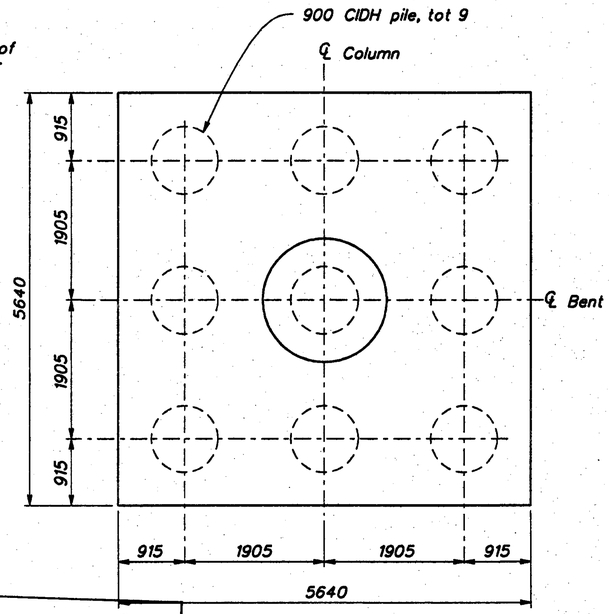


TOP REINFORCEMENT

PLAN

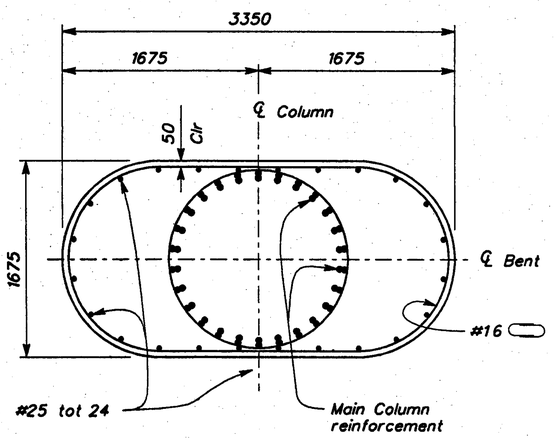
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BOTTOM REINFORCEMENT



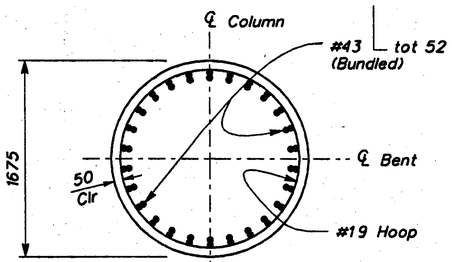
FOOTING PLAN

Scale: 1:40



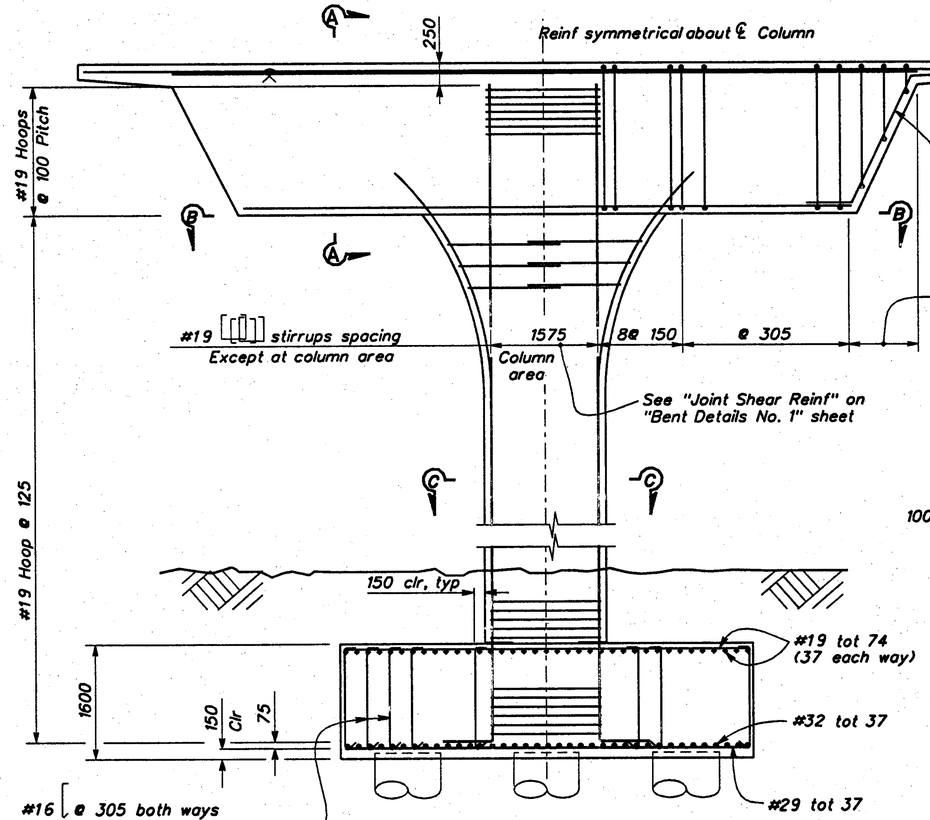
SECTION B–B

Scale: 1:25



SECTION C–C

Scale: 1:25

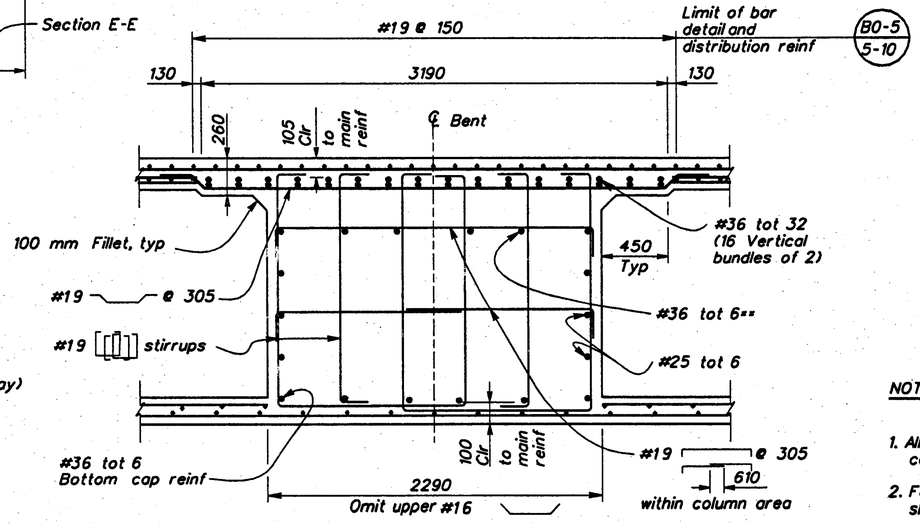


ELEVATION

Scale: 1:40

NOTES:

Pile reinforcement not shown for clarity.



SECTION A-A

Scale: 1:20

** Place reinforcement as required to clear P/S duct

NOTES:

1. All bent cap main reinforcement and vertical column reinf shall be continuous unless otherwise noted.
2. For Section E-E and horizontal stirrups, see "Bent Details No. 1" sheet.

⇒⇐ Indicates bundled bars

AS BUILT
VL 7/19/04
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-29-03

NO AS BUILT CHANGES

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	392	461

Caltrans Metric

REGISTERED CIVIL ENGINEER — MICHAEL SCOTT TRAFFALIS — No. C46883 — Exp. 06/30/03 — CIVIL — STATE OF CALIFORNIA

7-2-01
PLANS APPROVAL DATE

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA. 95834

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B2 Margay for Joel Escabar
DESIGN OVERSIGHT
4-18-01
SIGN OFF DATE

DESIGN	BY A.T. Dubovik II	CHECKED E. Jao	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	M. Traffalis, PROJECT ENGINEER
DETAILS	BY T. Burns	CHECKED S. Kazmi		
QUANTITIES	BY A.T. Dubovik II	CHECKED E. Jao		

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS (0 20 40 60 80 100)

CU 06222
EA 342321

BRIDGE NO.	N99-W180 CONNECTOR SEPARATION
42-393G	
KILOMETER POST	BENT 2
90.51	

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)								SHEET	OF
10/15/97	1/21/98	7/30/98	2/05/99	6/14/99	6/16/99	12/29/99	6/27/00	11	30

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	401	461

Caltrans Metric

Michael Scott Traffalis
REGISTERED CIVIL ENGINEER

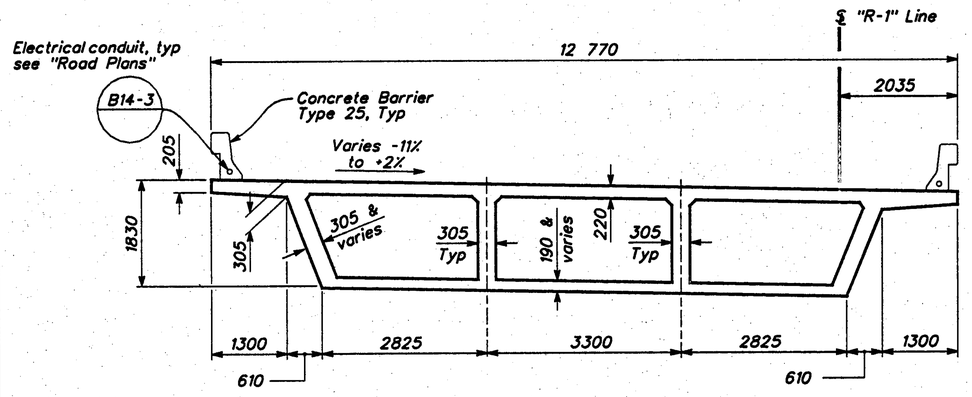
7-2-01
PLANS APPROVAL DATE

MICHAEL SCOTT TRAFFALIS No. C46883 Exp. 06/30/03 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA. 95834

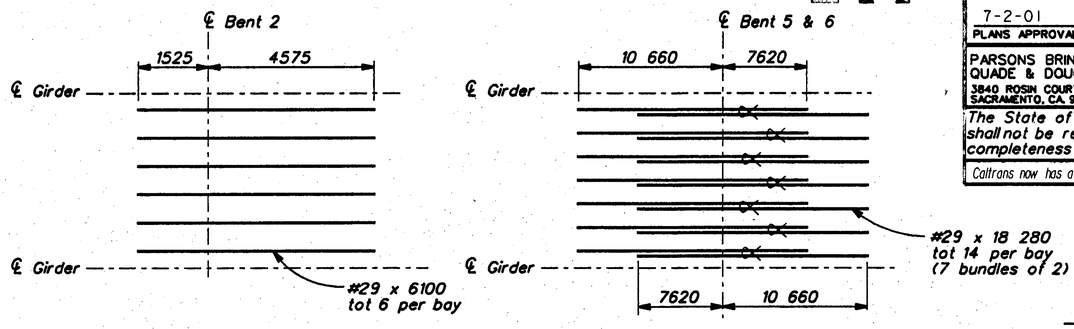
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TYPICAL SECTION

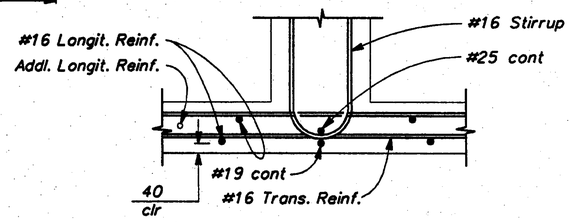
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ADDITIONAL LONGITUDINAL REINFORCEMENT-TOP SLAB

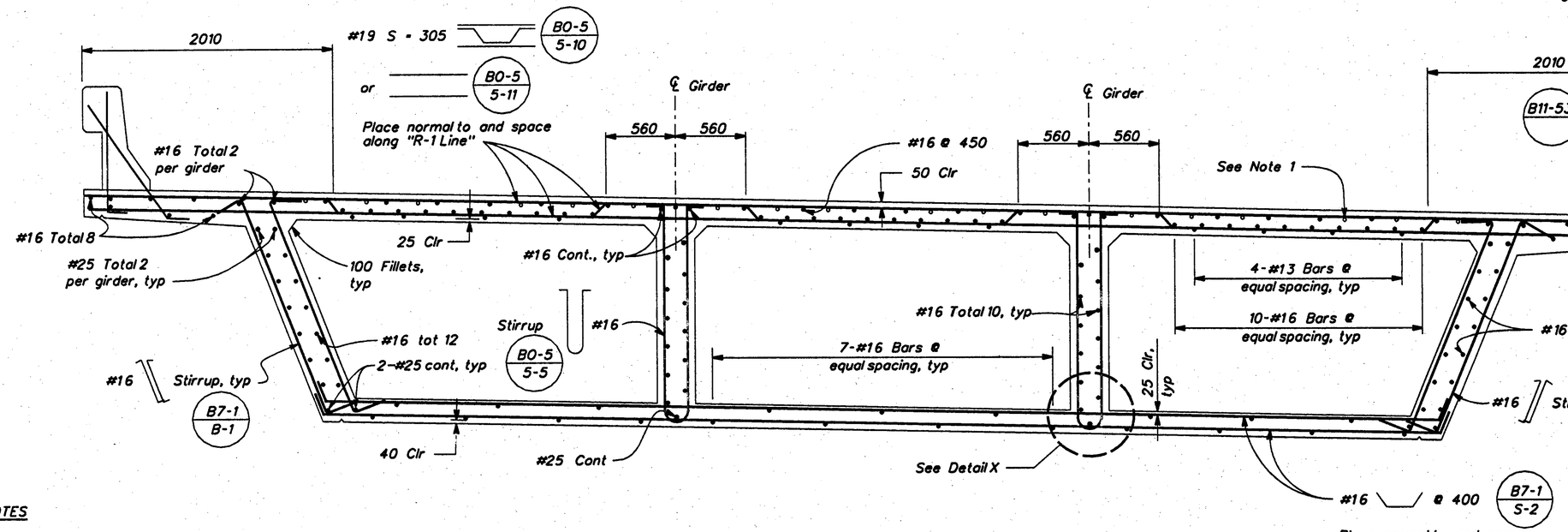
No Scale

Note: All longitudinal slab reinfinforcement shall be continuous with no splices allowed.



DETAIL X

No Scale



AS BUILT VL 7/19/04
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-29-03

NO AS BUILT CHANGES

NOTES

1. ○ Indicates additional mild reinforcement, see "Additional Longitudinal Reinforcement - Top Slab".

⋘ Indicates bundled bars.

TYPICAL SECTION

Scale: 1:20

B8-5 B0-5 B7-1

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

FILE: /12227/DGN/WCONSEP/wcspts02.DGN 17-Apr-01

B.Massey Jr. Joel Escobar
DESIGN OVERSIGHT
4/19/01
SIGN OFF DATE

	BY	CHECKED
DESIGN	A.T. Dubovik II	E. Jao
DETAILS	T. Burns	S. Kozmi
QUANTITIES	A.T. Dubovik II	E. Jao

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

M. Traffalis
PROJECT ENGINEER

CU 06222
EA 342321

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

BRIDGE NO. 42-393G
KILOMETER POST 90.51

N99-W180 CONNECTOR SEPARATION
TYPICAL SECTION

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)								SHEET	OF
10/15/97	7/30/98	2/05/98	8/11/98	12/22/98	8/24/99	12/30/99	3/27/01	20	30

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	403	461

Caltrans Metric

Michael Scott Traffalis
REGISTERED CIVIL ENGINEER

7-2-01
PLANS APPROVAL DATE

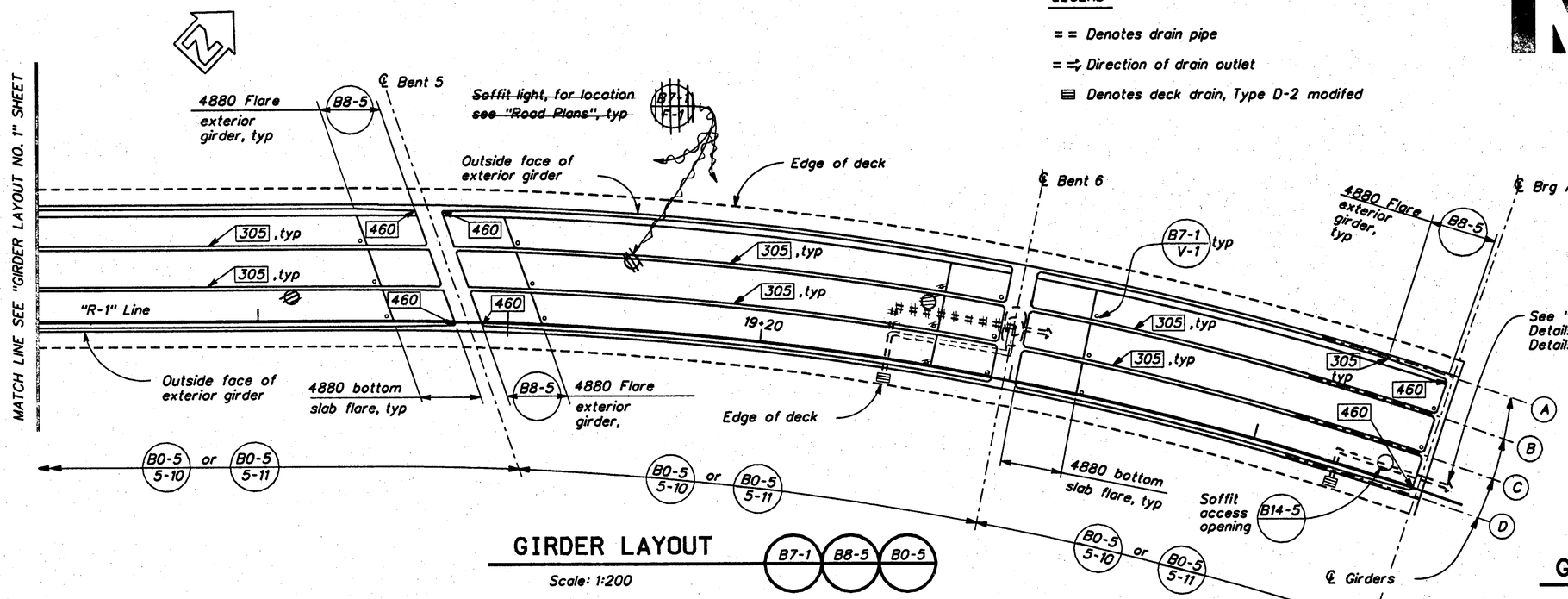
MICHAEL SCOTT TRAFFALIS — No. C46883 — Exp. 06/30/03 — CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
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MATCH LINE SEE "GIRDER LAYOUT NO. 1" SHEET

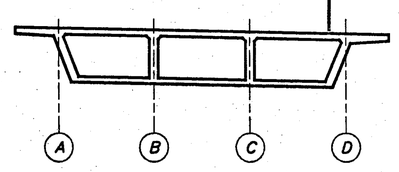


GIRDER LAYOUT

Scale: 1:200

B7-1 B8-5 B0-5

See "Abutment Drainage Details" on "Miscellaneous Details" sheet.

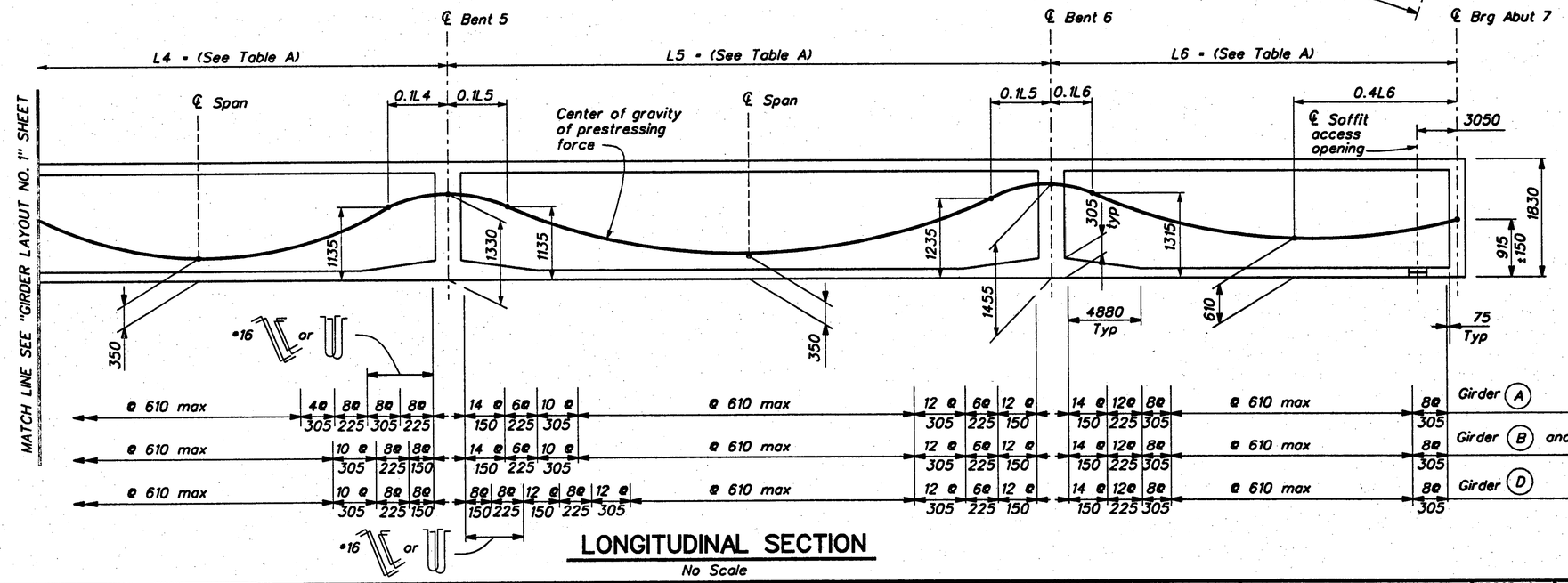


GIRDER LOCATIONS FOR TABLE 'A'

No Scale

TABLE 'A'			
Girder	L4 (m)	L5 (m)	L6 (m)
A	34.601	47.593	34.043
B	35.614	46.038	33.685
C	36.799	44.219	33.267
D	37.815	42.661	32.909

MATCH LINE SEE "GIRDER LAYOUT NO. 1" SHEET



LONGITUDINAL SECTION

No Scale

NOTES:

1. [ ] Indicates girder flare width in millimeters see B7-1 S-3
2. For Prestressing notes see "Girder Layout No. 1" sheet
3. For Camber Diagram see "Miscellaneous Detail" sheet

AS BUILT VL 6-17-04
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-29-03

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

FILE: /12227/DGN/WCONSEP/WCSPGL02.DGN 17-apr-01

B Marsey for Joel Escabar
DESIGN OVERSIGHT
4-18-01
SIGN OFF DATE

	BY	CHECKED
DESIGN	A.T. Dubovik II	E. Jao
DETAILS	T. Burns	S. Kazmi
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PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

M. Traffalis
PROJECT ENGINEER

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

CU 06222
EA 342321

BRIDGE NO. 42-393G
KILOMETER POST 90.51

N99-W180 CONNECTOR SEPARATION
GIRDER LAYOUT NO. 2

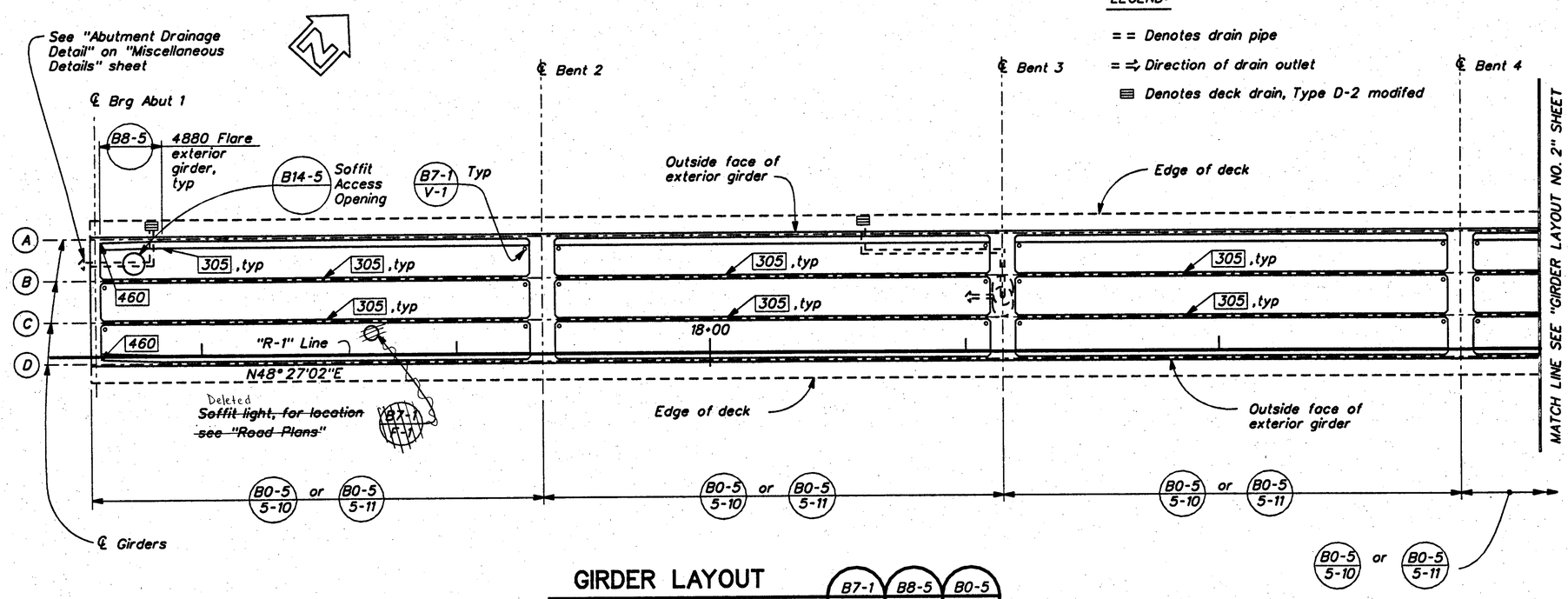
DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 10/15/97 | 1/30/98 | 2/15/98 | 6/19/98 | 12/22/98 | 6/21/99 | 12/30/99 | 3/27/01

SHEET 22 OF 30

br42393G#22of30.tif

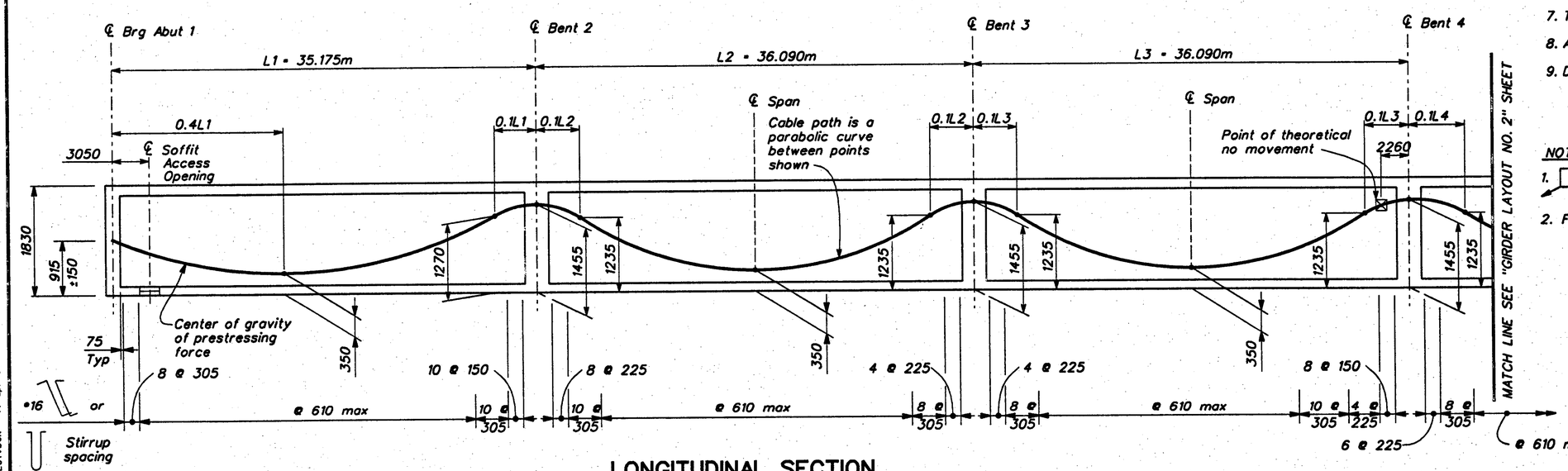
ClibPDF - www.fastio.com



GIRDER LAYOUT

B7-1 B8-5 B0-5

Scale: 1:200



LONGITUDINAL SECTION

No Scale

PRESTRESSING NOTES:

1. Design is based on 1860 MPa Low Relaxation Strand.
2. Pjack = See "Table B"
   Anchor set = 10 mm
   Total number of girders = 4
3. Distribution of prestress force (Pjack) between girders shall not exceed the ratio of 3:2.
4. Concrete: f'c = 28 MPa at 28 days
   f'ci = 25 MPa at time of stressing.
5. ☒ Indicates point of no movement.
   Two end stressing shall be performed
6. Contractor shall submit elongation calculations based on initial stress at ☒ = 0.803 times jacking rate.
7. Tendons to be jacked to 0.75 f's.
8. As = $\frac{Pjack}{0.75\ f's}$
9. Design is based on μ = 0.20 and k = 0.000

NOTES:

1. ▭ Indicates girder flare width in millimeters see B7-1 / S-3
2. For L4 see Table A on "GIRDER LAYOUT NO. 2" sheet.

TABLE 'B'	
Girder	$P_{Jack/Girder}$
A	7600 kN
B	7100 kN
C	7100 kN
D	6600 kN

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	402	461

REGISTERED CIVIL ENGINEER — 7-2-01 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL SCOTT TRAFFALIS — No. C46883 — Exp. 06/30/03 — CIVIL — STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA. 95834

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Caltrans now has a web site! To get to the web site, go to: http://www.dot.ca.gov

AS BUILT VL 6-17-04
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-29-03

DESIGN	BY A.T. Dubovik II	CHECKED E. Jao	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY T. Burns	CHECKED S. Kazmi	
QUANTITIES	BY A.T. Dubovik II	CHECKED E. Jao	

B2 Murray Jr Joel Escabar
DESIGN OVERSIGHT 4-18-01 SIGN OFF DATE

M. Traffalis PROJECT ENGINEER

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

CU 06222
EA 342321

BRIDGE NO.	N99-W180 CONNECTOR SEPARATION
42-393G	
KILOMETER POST 90.51	GIRDER LAYOUT NO. 1

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

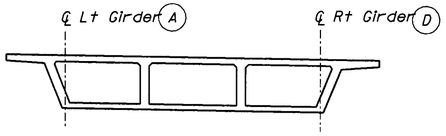
REVISION DATES (PRELIMINARY STAGE ONLY)									SHEET	OF
10/15/97	7/30/98	2/25/98	6/19/98	12/22/98	6/29/99	12/29/99	1/27/01		21	30

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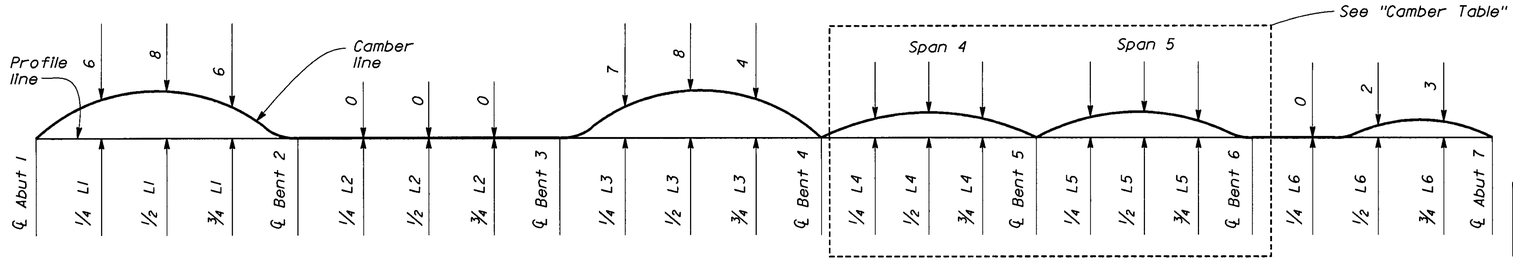
br42393G#21of30.tif

ClibPDF - www.fastio.com

Camber Table						
	Span 4			Span 5		
	1/4	1/2	3/4	1/4	1/2	3/4
Lt Girder (A)	0	0	0	39	64	43
Rt Girder (D)	8	11	5	19	34	24

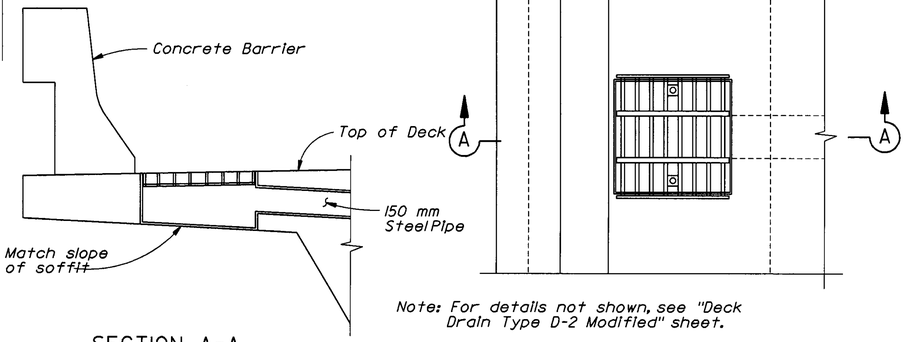


Camber varies linearly between points shown

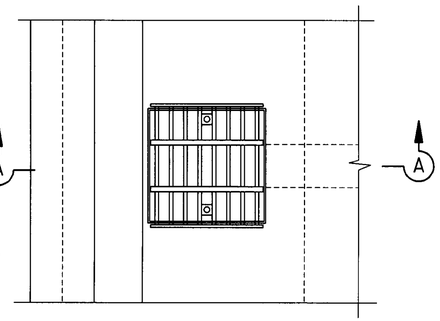


CAMBER DIAGRAM

No Scale
(Does not include allowance for falsework settlement)



SECTION A-A



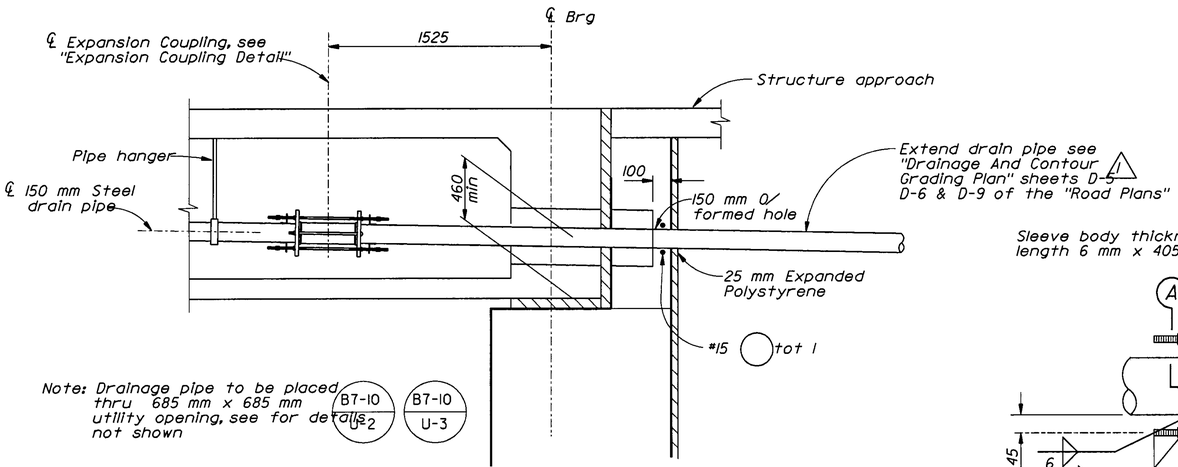
Note: For details not shown, see "Deck Drain Type D-2 Modified" sheet.

PLAN

Note: Deck reinf not shown

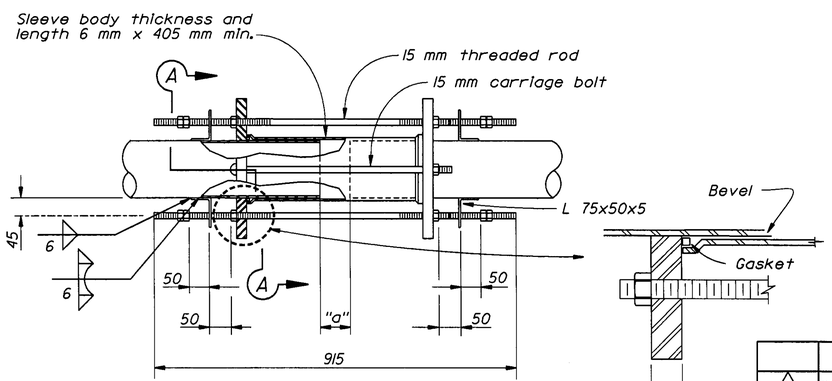
DECK DRAIN TYPE D-2 MODIFIED

No Scale



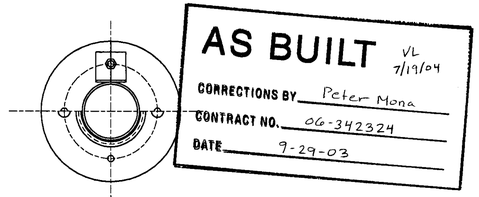
ABUTMENT DRAINAGE DETAIL

No scale



EXPANSION COUPLING DETAIL

No scale



SPLIT SECTION A-A

MARK	DATE	DECRIPTIONS	BY	CH'D
		REVISIONS		
1	11-15-01	Edited note	CER	ANS

CONTRACT CHANGE ORDER NO. 16
SHEET 5 OF 10

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99 180	34.7/35.5 R89.1/R91.0	404RI	461

Caltrans Metric

REGISTERED CIVIL ENGINEER
MICHAEL SCOTT TRAFFALIS No. C46883 Exp. 06/30/03 CIVIL
REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA

7-2-01
PLANS APPROVAL DATE

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA. 95834

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for Joel Escabar
DESIGN OVERSIGHT
12/3/01
SIGN OFF DATE

	BY	CHECKED
DESIGN	A.T. Dubovik II	E. Jao
DETAILS	T. Burns	S. Kazmi
QUANTITIES	A.T. Dubovik II	E. Jao

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

M. Traffalis
PROJECT ENGINEER

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS
0 20 40 60 80 100

CU 06222
EA 342321

BRIDGE NO. 42-393G
KILOMETER POST 90.5I

N99-WI80 CONNECTOR SEPARATION
MISCELLANEOUS DETAILS

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)										SHEET	OF
6/15/98	12/29/98	6/21/99	12/30/99	3/21/01						23	30

FILE: I:/2227/DGN/FRM PORTLAND/WCDNSEP/WCSPM001-RI.DGN 19-NOV-01

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DIST.	COUNTY	ROUTE	POST km TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	411	461

George P. Hattrup
REGISTERED GEOTECHNICAL ENGINEER

7-2-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — George P. Hattrup — No. 2353 — Exp. 6-30-01 — GEOTECHNICAL — STATE OF CALIFORNIA

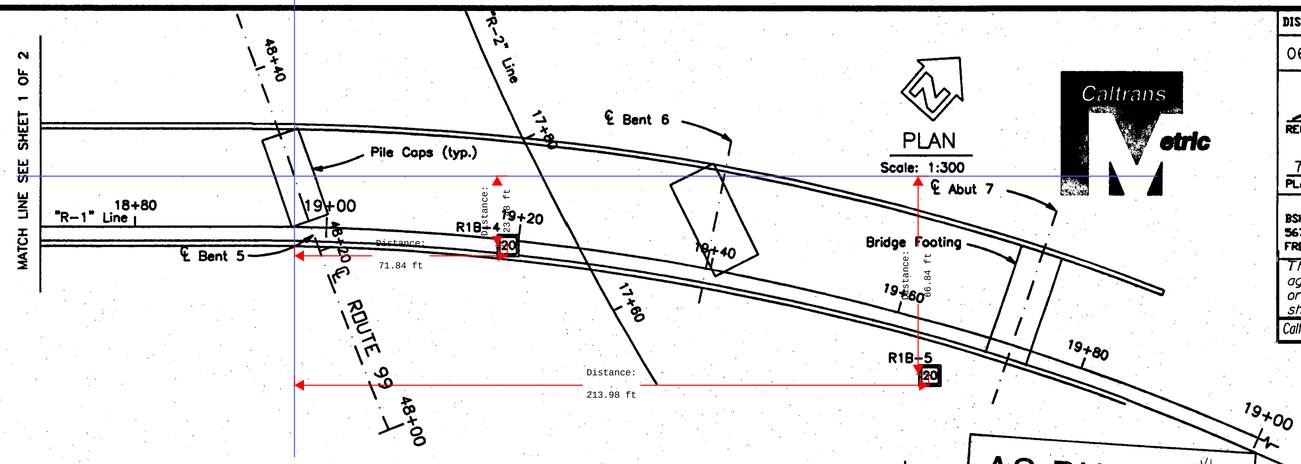
BSK & ASSOCIATES
567 WEST SHAW AVE. , SUITE B2
FRESNO, CA. 93704

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BENCHMARK

F 180 56.2 Elevation 84.683 m
Fd 57 mm brass cap embossed "California Department of Transportation" stamped "BM F 180 56.2" in the west curb of Fruit Avenue, 73.2 m ± south of the ℄ of Dunn Avenue, 118.9 m right of ℄ station 216.088.

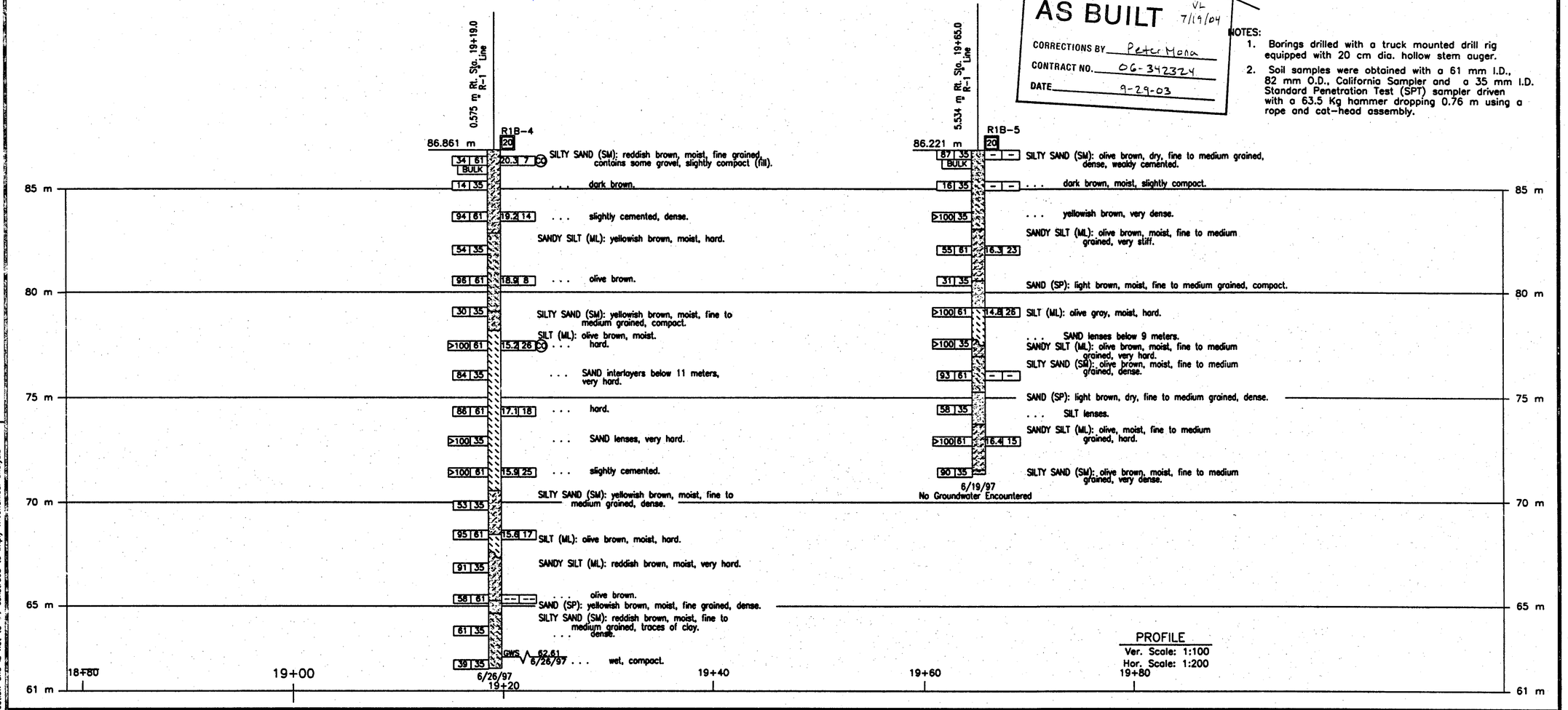


Caltrans Metric

AS BUILT VL 7/19/04
CORRECTIONS BY Peter Mena
CONTRACT NO. 06-342324
DATE 9-29-03

NO AS BUILT CHANGES

NOTES:
1. Borings drilled with a truck mounted drill rig equipped with 20 cm dia. hollow stem auger.
2. Soil samples were obtained with a 61 mm I.D., 82 mm O.D., California Sampler and a 35 mm I.D. Standard Penetration Test (SPT) sampler driven with a 63.5 Kg hammer dropping 0.76 m using a rope and cat-head assembly.



PROFILE
Ver. Scale: 1:100
Hor. Scale: 1:200

LEGEND OF BORING OPERATIONS

AUGER BORING — B-No. — Auger dia. in cm. — Top Hole El. — Description of material (Unit weight (kN/m³), % Moisture, Lab test see table) — Boring date

ELECTRONIC CONE PENETROMETER TEST — B-No. — Top Hole El. — Pressure measured during sleeve friction (Tsf) — Pressure measured during tip penetration (Tsf) divided by 10 (Tsf) — Friction Ratio (%) — Boring date

57 mm CONE PENETRATION BORING — B-No. — Top Hole El. — No count recorded — Pushed — Driving rate in cm. per hammer drop (Using a No. 2 or Hammer with 73.5 kN, or as noted) — Boring date

SAMPLE BORING (DRY) — B-No. — Top Hole El. — Coring driven — Size of sample (mm) — Penetration Index (Using 63.5 kg hammer dropping 0.76 m only) — Unconfined Compressive Strength (kPa) — Boring date

Cone Penetrometer dimensions and testing procedures are in accordance with ASTM standard D-3441-79, or as noted.

LEGEND OF EARTH MATERIALS: CLAY, SILTY CLAY, SILT, CLAYEY SILT, SAND, GRAVEL, SANDY GRAVEL, GRAVELLY SAND, SILTY SAND, CLAYEY SAND, ROCKING WATER ABOVE PLANT ROCK, ABOVE GROUNDWATER ROCK, METAMORPHIC ROCK, IGNEOUS ROCK

SOIL TEST DESIGNATIONS: (AL) Atterburg Limits, (UC) Unconfined Compression, (CR) Corrosivity Test, (DS) Direct Shear, (R) R-Value, (SA) Sieve Analysis

CONSISTENCY CLASSIFICATION FOR SOILS — According to the Standard Penetration test

Penetration (Blows/0.3 m)	Granular	Cohesive
0-4	Very loose	Very Soft
5-9	Loose	Soft
10-19	Slightly compact	Stiff
20-34	Compact	Very stiff
35-59	Dense	Hard
>70	Very dense	Very hard

NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis

SAMPLE BORING (DRY) — Groundwater Surface — Blows per 0.3 m (Using 63.5 kg hammer with a 0.76 m free fall) — Pulled out — Refusal — Soil Sample taken — Description of material — Boring Date

57 mm CORE PENETROMETER — SAMPLE BORING (DRY) — ROTARY SAMPLE BORING (WET) — AUGER BORING (DRY) — TEST PIT — DIAMOND CORE BORING — JET BORING — ELECTRONIC CONE PENETROMETER

DESIGN OVERSIGHT	JOEL ESCABAR	FIELD ENGINEER :	K. ROMERO & S. KAVATE	6/97
SIGNOFF DATE	4-18-01	DRAWN BY :	J. R. SCHNEIDER	12/97
		CHECKED BY :	G. P. HATTRUP, P. E.	12/97

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

George Hattrup, P. E.
PROJECT ENGINEER

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS: 0 20 40 60 80

CU 06
EA 342321

BRIDGE NO. 42-393G
KILOMETER POST 90.51

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 11/04/97 | 02/12/98 | 05/02/98 | 12/02/98 | 3/27/01

SHEET 30 OF 30

N99-W180 CONNECTOR SEPARATION
LOG OF TEST BORINGS NO. 2

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DIST.	COUNTY	ROUTE	POST km TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	410	461

George P. Hattrup
REGISTERED GEOTECHNICAL ENGINEER

7-2-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — George P. Hattrup — No. 2353 — Exp. 6-30-01 — GEOTECHNICAL — STATE OF CALIFORNIA

BSK & ASSOCIATES
567 WEST SHAW AVE. , SUITE B2
FRESNO, CA. 93704

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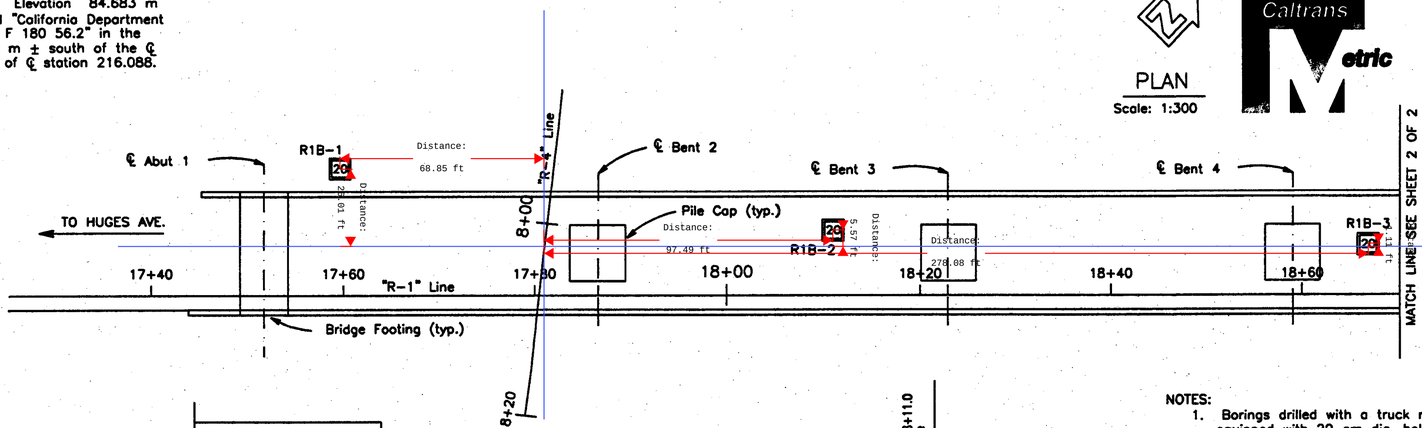
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BENCHMARK

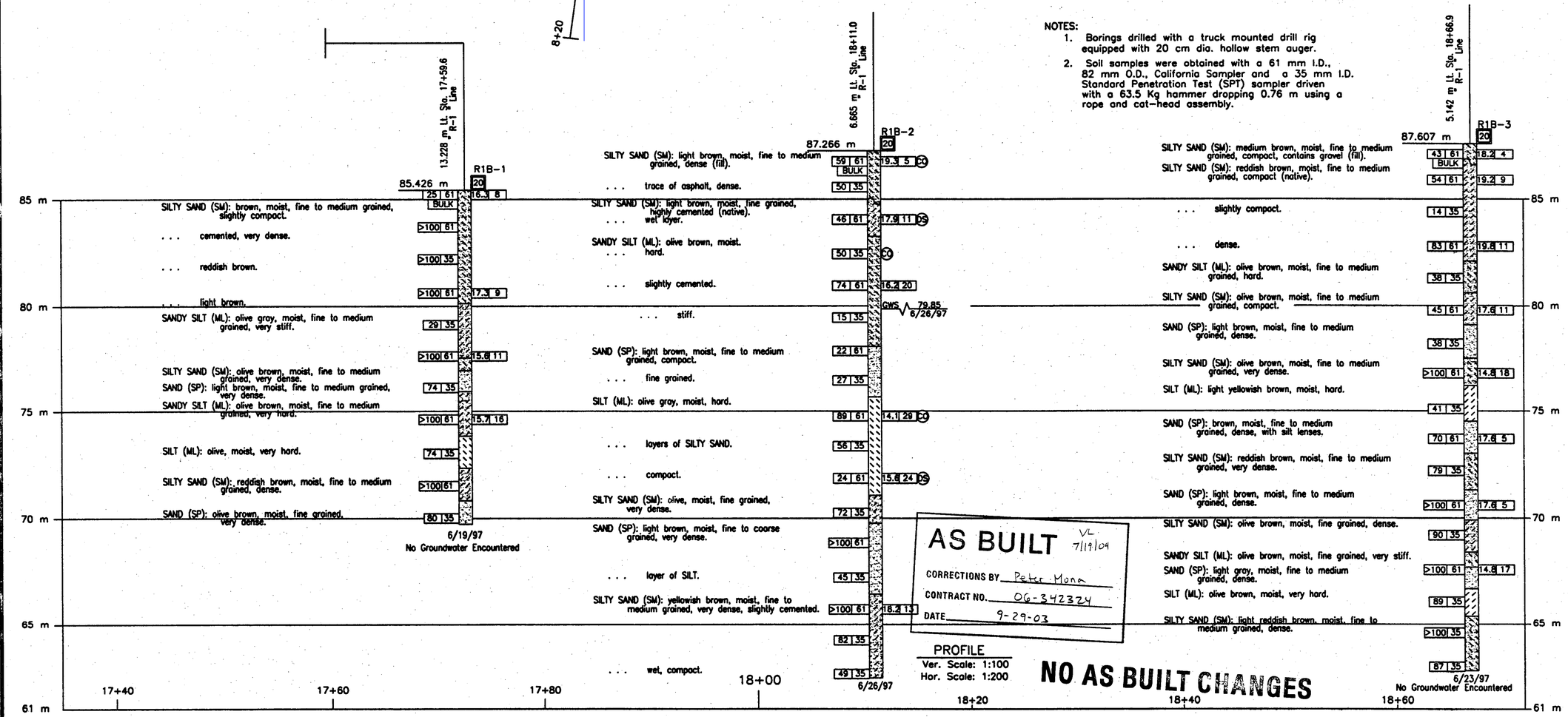
F 180 56.2 Elevation 84.683 m
Fd 57 mm brass cap embossed "California Department of Transportation" stamped "BM F 180 56.2" in the west curb of Fruit Avenue, 73.2 m ± south of the ℄ of Dunn Avenue, 118.9 m right of ℄ station 216.088.

PLAN
Scale: 1:300

Caltrans Metric



NOTES:
1. Borings drilled with a truck mounted drill rig equipped with 20 cm dia. hollow stem auger.
2. Soil samples were obtained with a 61 mm I.D., 82 mm O.D., California Sampler and a 35 mm I.D. Standard Penetration Test (SPT) sampler driven with a 63.5 Kg hammer dropping 0.76 m using a rope and cat-head assembly.

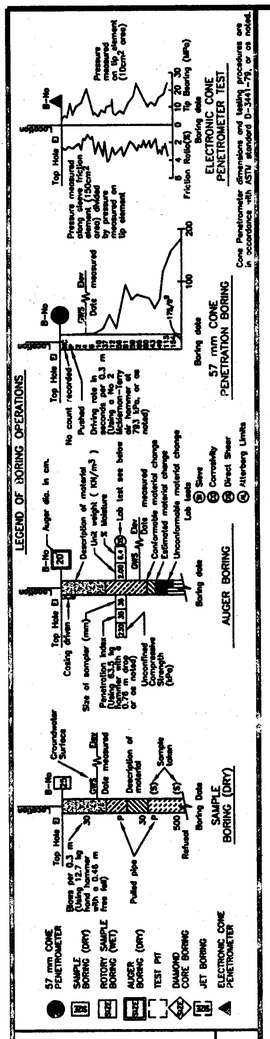


AS BUILT VL 7/19/04
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-29-03

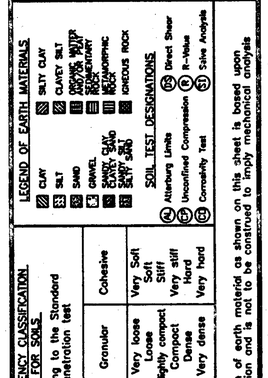
PROFILE
Ver. Scale: 1:100
Hor. Scale: 1:200

NO AS BUILT CHANGES

LEGEND OF BORING OPERATIONS



LEGEND OF EARTH MATERIALS



CONSISTENCY CLASSIFICATION FOR SOILS
According to the Standard Penetration test

Penetration Index (Blows/0.3 m)	Granular	Cohesive
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35–69	Dense	Hard
>70	Very dense	Very hard

NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis

DESIGN OVERSIGHT	BMurray for JOEL ESCABAR 4/8/01	
SIGNOFF DATE		
FIELD ENGINEER :	K. ROMERO & S. KAVATE	6/97
DRAWN BY :	J. R. SCHNEIDER	12/97
CHECKED BY :	G. P. HATTRUP, P. E.	12/97

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

George Hattrup, P. E.
PROJECT ENGINEER

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 20 40 60 80

CU 06
EA 342321

BRIDGE NO.	N99–W180 CONNECTOR SEPARATION
42-393G	
KILOMETER POST 90.51	LOG OF TEST BORINGS NO. 1

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)					SHEET	OF
12/02/97	02/04/98	06/04/98	12/02/98	3/27/01	29	30

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5 R89.1/R91.0	383RI	461

Caltrans Metric

REGISTERED CIVIL ENGINEER

7-2-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL SCOTT TRAFFALIS — No. C46883 — Exp. 06/30/03 — CIVIL — STATE OF CALIFORNIA

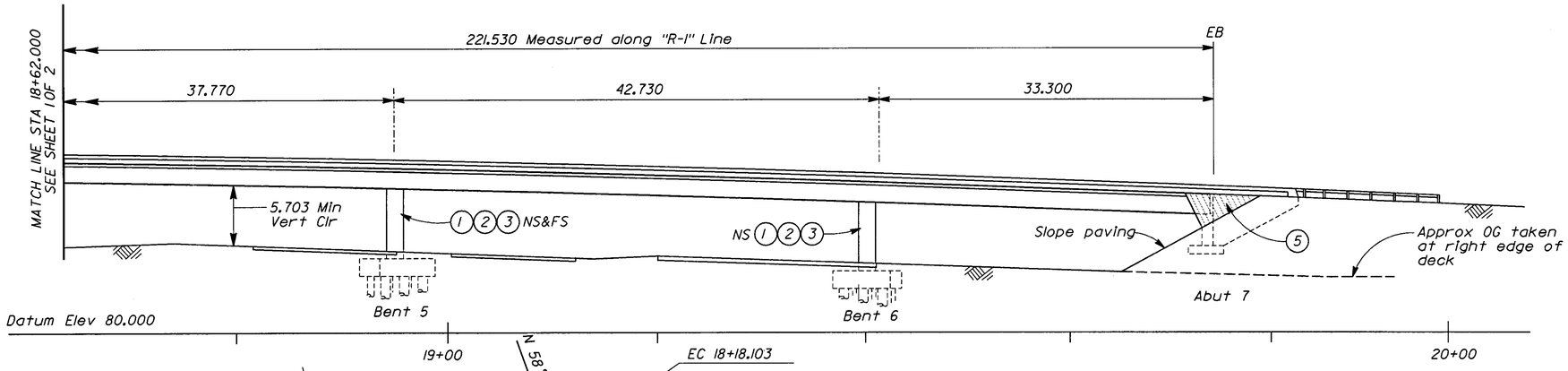
PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA. 95834

FRESNO COUNTY TRANSPORTATION AUTHORITY
2220 Tulare Street, Suite 411
Fresno, CA 93721

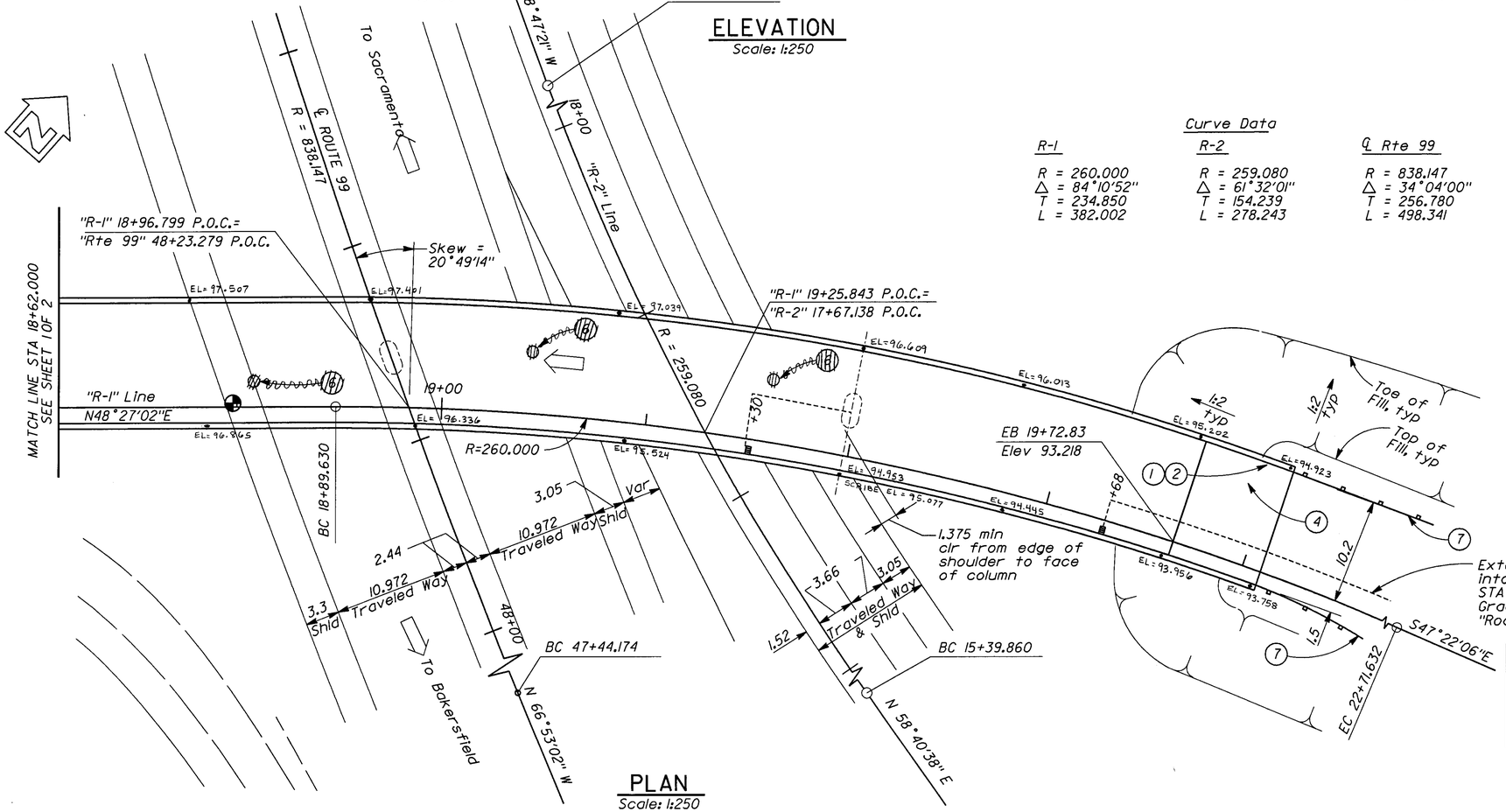
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AS BUILT VL 7/19/04
CONNECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-29-03



ELEVATION
Scale: 1:250



PLAN
Scale: 1:250

Curve Data

R-1	R-2	℄ Rte 99
R = 260.000	R = 259.080	R = 838.147
Δ = 84°10'52"	Δ = 61°32'01"	Δ = 34°04'00"
T = 234.850	T = 154.239	T = 256.780
L = 382.002	L = 278.243	L = 498.341

Notes:
1. Paint "N99-W180 Connector Seperation"
2. Paint "Br. No. 42-393G" and Year Constructed
3. Paint Bent Number
4. Structure Approach Type N(9S)
5. Architectural Treatment
6. ~~Soffit lights, see "Road Plans"~~ DELETED
7. MBGR, see "Road Plans"

Point of Minimum Vert Clearance
NS - Near Side
FS - Far Side

Legend:
- Denotes Deck Drain, Type D-2 Modified
- Denotes direction of Traffic
- ----- Denotes Bridge Deck Drain Pipe locations

MARK	DATE	DECRIPTIONS	BY	CH'D
		REVISIONS		
1	11-15-01	Rerouted pipe & added note	CER	ANS

CONTRACT CHANGE ORDER NO. 16
SHEET 3 OF 10

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

DESIGN OVERSIGHT John Symowski for Joel Escabar 12/3/01 SIGNOFF DATE	DESIGN	BY A.T. Dubovik II	CHECKED E. Jao	LOAD FACTOR DESIGN	Live Loading: HS20-44 and Alternative and Permit Design Load
	DETAILS	BY T. Burns	CHECKED S. Kazmi	LAYOUT	BY A.T. Dubovik II / CHECKED E. Wojewoda
	QUANTITIES	BY A.T. Dubovik II	CHECKED E. Jao	SPECIFICATIONS	BY T. Tracy / PLANS AND SPECS COMPARED S. Kazmi

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

PROJECT ENGINEER

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

CU 06222
EA 342321

BRIDGE NO. 42-393G
KP (PM) 90.51 (56.24)

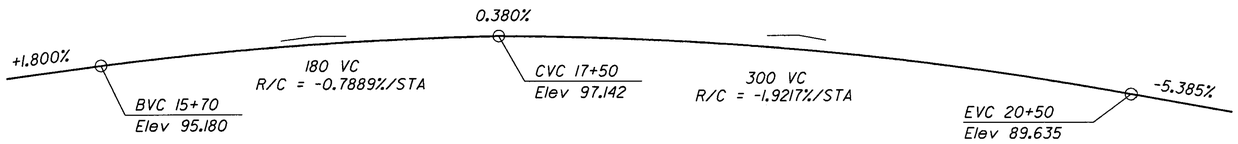
N99-W180 CONNECTOR SEPARATION
GENERAL PLAN 2 OF 2

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)										SHEET	OF
12/15/97	1/9/98	1/30/98	2/5/98	6/16/98	6/19/98	12/29/98	6/29/99	2/16/00	3/21/01	2	30

FILE: I:\1227A\DGN\FRM PORTLAND\WCONSEP\WCSPGP02-R1.DGN 19-NOV-01

ClibPDF - www.fastio.com



PROFILE GRADE-"R-1" LINE

No Scale

QUANTITIES	
STRUCTURE EXCAVATION (BRIDGE)	1,060 m 3
STRUCTURE BACKFILL (BRIDGE)	645 m 3
900 MM CAST-IN-DRILLED-HOLE CONCRETE PILING	646 m
PRESTRESSING CAST-IN-PLACE CONCRETE	LUMP SUM
STRUCTURAL CONCRETE, BRIDGE FOOTING	385 m 3
STRUCTURAL CONCRETE, BRIDGE	1,885 m 3
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N)	71 m 3
RIPPED TEXTURE (REINFORCING BAR)	87 m 2
JOINT SEAL ASSEMBLY (MR 101 MM - 160 MM)	26 m
BAR REINFORCING STEEL (BRIDGE)	392,000 kg
SLOPE PAVING (CONCRETE)	40 m 3
MISCELLANEOUS METAL (BRIDGE)	1,060 kg
CONCRETE BARRIER (TYPE 25)	482 m

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5 R89.1/R91.0	382RI	461

Michael Scott Traffalis
REGISTERED CIVIL ENGINEER

7-2-01
PLANS APPROVAL DATE

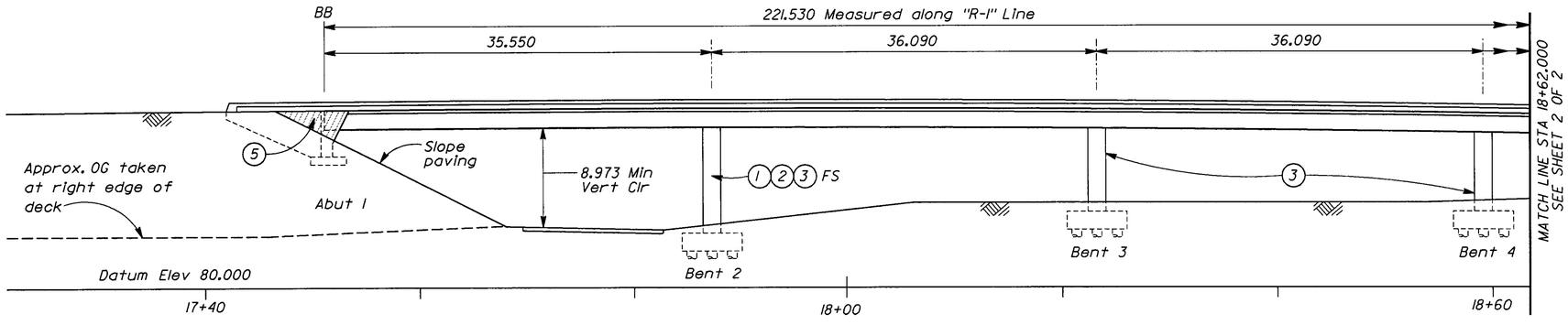
REGISTERED PROFESSIONAL ENGINEER — MICHAEL SCOTT TRAFFALIS — No. C46883 — Exp. 06/30/03 — CIVIL — STATE OF CALIFORNIA

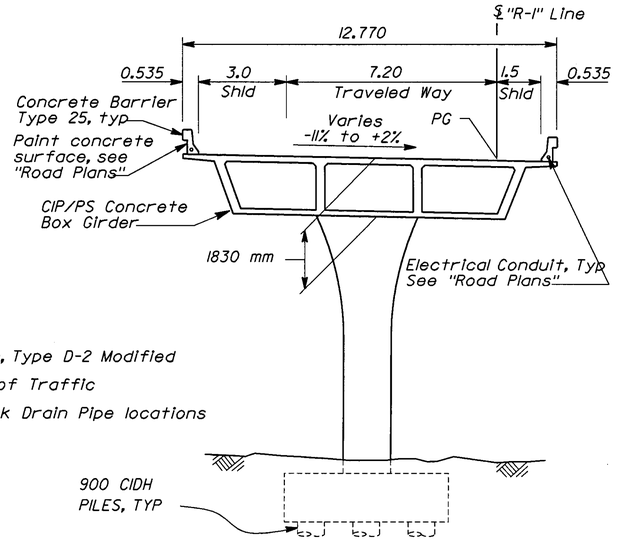
PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA. 95834

FRESNO COUNTY TRANSPORTATION AUTHORITY
2220 Tulare Street, Suite 411
Fresno, CA 93721

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TYPICAL SECTION

Scale: 1:100

NOTES:

1. *For General Notes and Pile Data Table, see "Index to Plans" sheet.*
2. *For drain pipe layout, see "Girder Layout No. 1" and "Girder Layout No. 2" sheets.*

Notes:

1. *Paint "N99-W180 Connector Seperation"*
2. *Paint "Br. No. 42-393G" and Year Constructed*
3. *Paint Bent Number*
4. *Structure Approach Type N(9S)*
5. *Architectural Treatment*
6. ~~*Soffit lights, see "Road Plans"*~~ DELETED
7. *MBGR, see "Road Plans"*

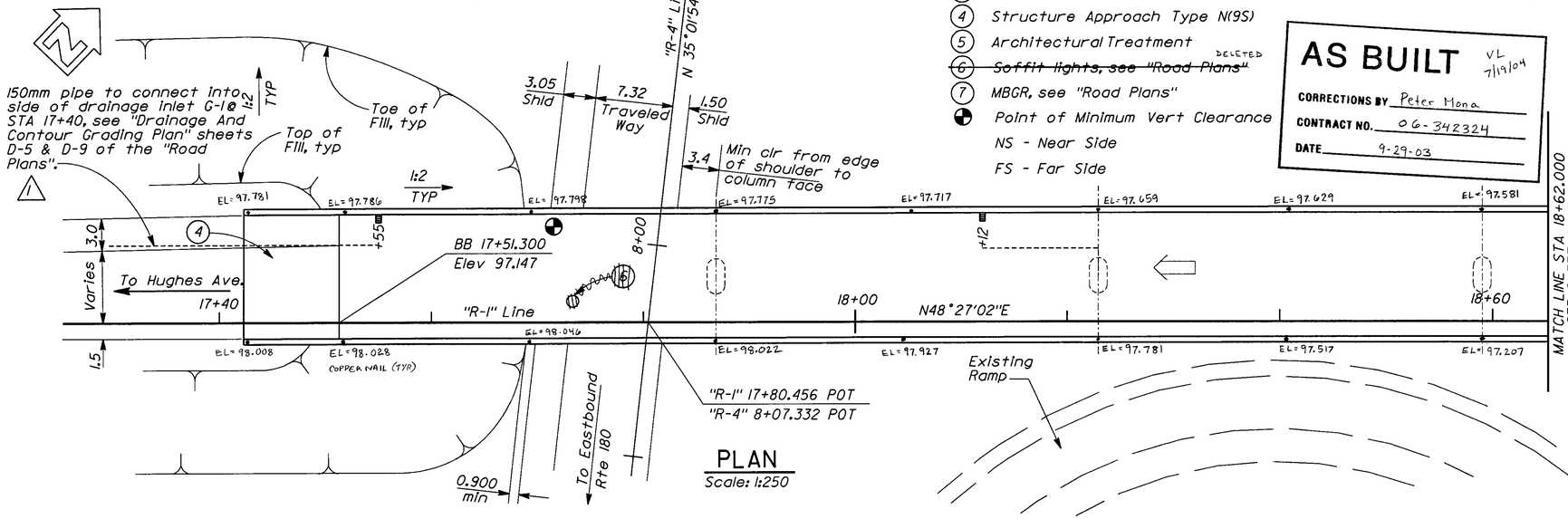
Point of Minimum Vert Clearance
NS - Near Side
FS - Far Side

Legend:

Denotes Deck Drain, Type D-2 Modified
Denotes direction of Traffic
------ Denotes Bridge Deck Drain Pipe locations

ELEVATION

Scale: 1:250



PLAN

Scale: 1:250

AS BUILT VL 7/19/04
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-29-03

MARK	DATE	DECRIPTIONS	BY	CH'D
		REVISIONS		
1	11-15-01	Added note	CER	ANS

CONTRACT CHANGE ORDER NO. 16
SHEET 2 OF 12

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

John Imamura for Joel Escabar — DESIGN OVERSIGHT — 12/3/01 SIGNOFF DATE	DESIGN	A.T. Dubovik II	E. Jao	LOAD FACTOR DESIGN	Live Loading: HS20-44 and Alternative and Permit Design Load		
	DETAILS	T. Burns	S. Kazmi	LAYOUT	A.T. Dubovik II	E. Wojewoda	
	QUANTITIES	A.T. Dubovik II	E. Jao	SPECIFICATIONS	T. Tracy	PLANS AND SPECS COMPARED: S. Kazmi	

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

M. Traffalis
PROJECT ENGINEER

CU 06222
EA 342321

BRIDGE NO.	N99-W180 CONNECTOR SEPARATION
42-393G	
KP (PM) 90.51 (56.24)	GENERAL PLAN 1 OF 2

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

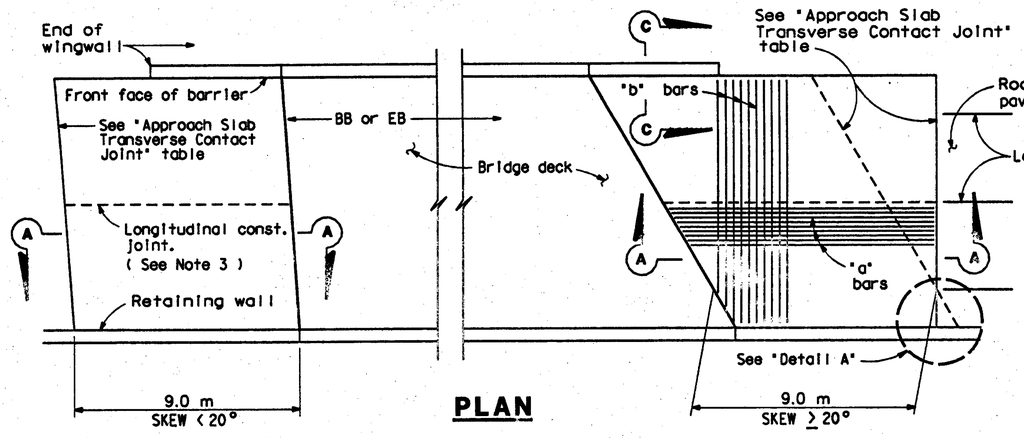
REVISION DATES (PRELIMINARY STAGE ONLY)									SHEET	OF
2/15/97	1/9/98	7/30/98	2/15/99	6/16/98	6/16/98	12/29/98	6/29/99	2/28/99	1	30

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

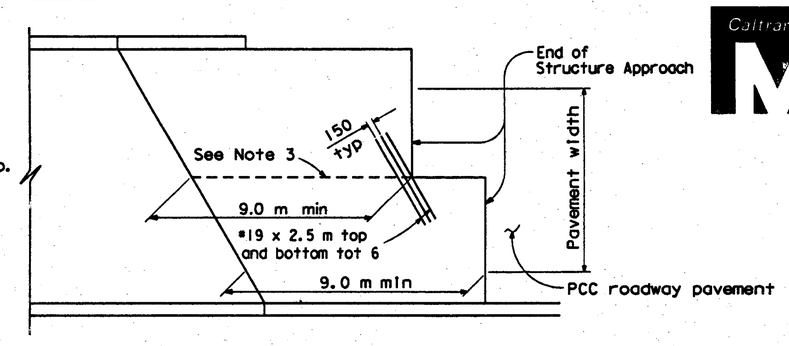
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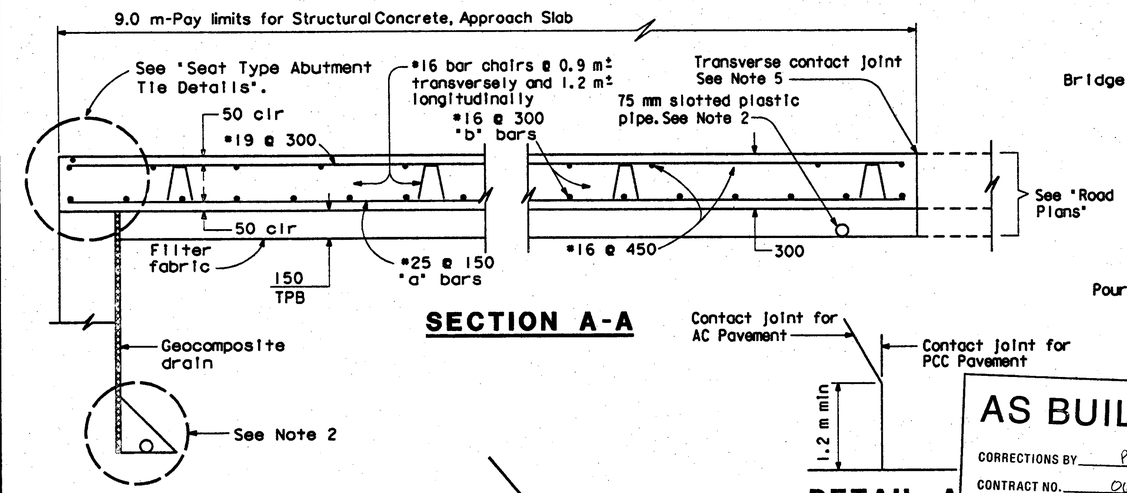
RELEASED 3-25-97



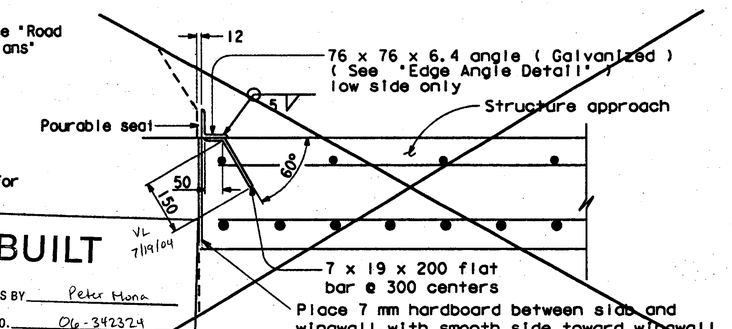
PLAN



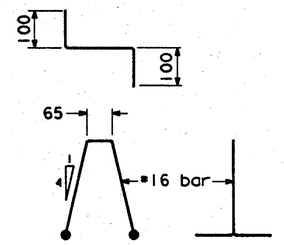
STRUCTURE APPROACH - END STAGGER DETAIL



SECTION A-A

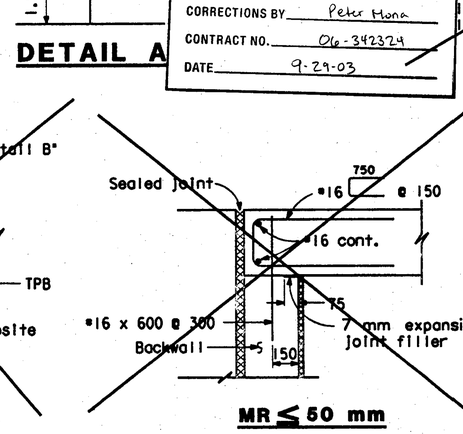


EDGE ANGLE DETAIL



BAR CHAIR DETAIL

DETAIL B



DETAIL A

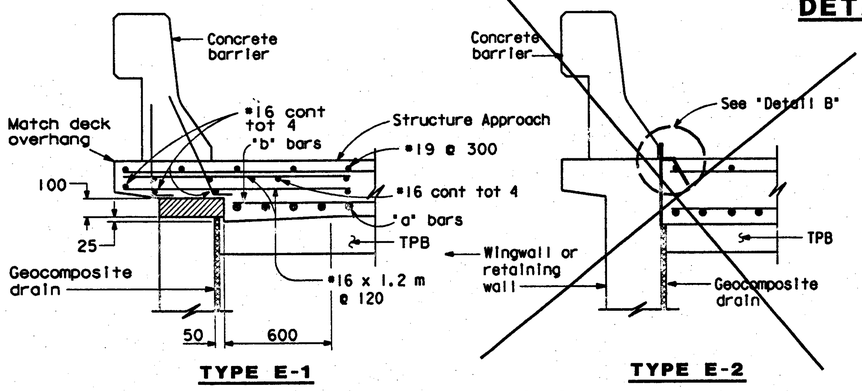
AS BUILT
VL 7/19/04
CORRECTIONS BY Peter Hong
CONTRACT NO. 06-342324
DATE 9-29-03

APPROACH SLAB TRANSVERSE CONTACT JOINT		
APPROACH SKEW	WITH AC ROADWAY PAVEMENT	WITH PCC ROADWAY PAVEMENT
< 20°	Parallel to face of paving notch	Parallel to face of paving notch
20°- 45°	Parallel to face of P N use (Detail A)	Stagger lines 7.2 m to 10.8 m apart.
> 45°	Parallel to face of P N use (Detail A)	Stagger at each lane line.

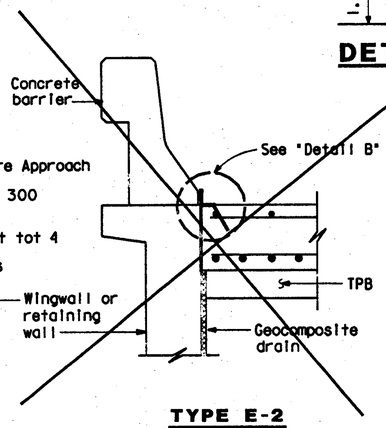
NOTES:

1. For details not shown, see Structure Plans. For MR ≤ 50 mm, adjust bar reinforcement to clear a sawcut for sealed joint, when required.
2. For drainage details, see "Structure Approach Drainage Details" sheet.
3. Longitudinal construction joints, when permitted by the Engineer, shall be located on lane lines.
4. End angle at beginning of barrier transition, end of wingwall or end of structure approach, as applicable.
5. For transverse contact joint with new PCC paving, refer to Standard Plan A35-A.
6. At the contractor's option, approach slab transverse reinforcement may be placed parallel to paving notch. Spacing of transverse reinforcement is measured along ℄ roadway.

▨ Remove all polystyrene.



TYPE E-1

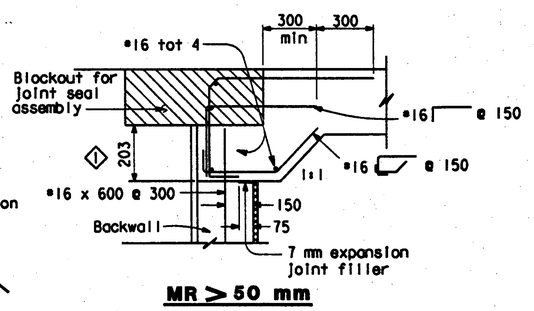


TYPE E-2

SECTION C-C

(Type E-1 to be used, unless otherwise shown on plans)

MR ≤ 50 mm



MR > 50 mm

SEAT TYPE ABUTMENT TIE DETAILS (SEE NOTE 1)

NO AS BUILT CHANGES

NO SCALE
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

"SPECIAL DETAILS"

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	405	461

Caltrans Metric

REGISTERED ENGINEER - CIVIL
7-2-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL SCOTT TRAFFALIS — No. C46883 — Exp. 06/30/03 — CIVIL — STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA. 95834

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STANDARD DRAWING
FILE NO. XS 22-18 | DESIGN BY M. TRAFFALIS | CHECKED E. THORKILDSEN | APPROVAL RECOMMENDED BY
DRAWING DATE Revised | DETAILS BY R. YEE | CHECKED E. THORKILDSEN
SUBMITTED BY M. HA | DESIGN SUPERVISOR

1 Revised Detail

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
DIVISION OF STRUCTURES
STRUCTURE DESIGN

BRIDGE NO. 42-393G
KILOMETER POST 90.51

N99-W180 CONNECTOR SEPARATION
STRUCTURE APPROACH TYPE N(9S)

CU 06222
EA 342321

DISREGARD PRINTS BEARING EARLIER REVISION DATES →
REVISION DATES (PRELIMINARY STAGE ONLY): 1/30/98 | 2/06/98 | 6/19/98 | 12/22/98 | 6/24/99 | 12/30/99 | 3/27/0

SHEET 24 OF 30

DS OSD 2147A (METRIC) (REV. 2/25/97)

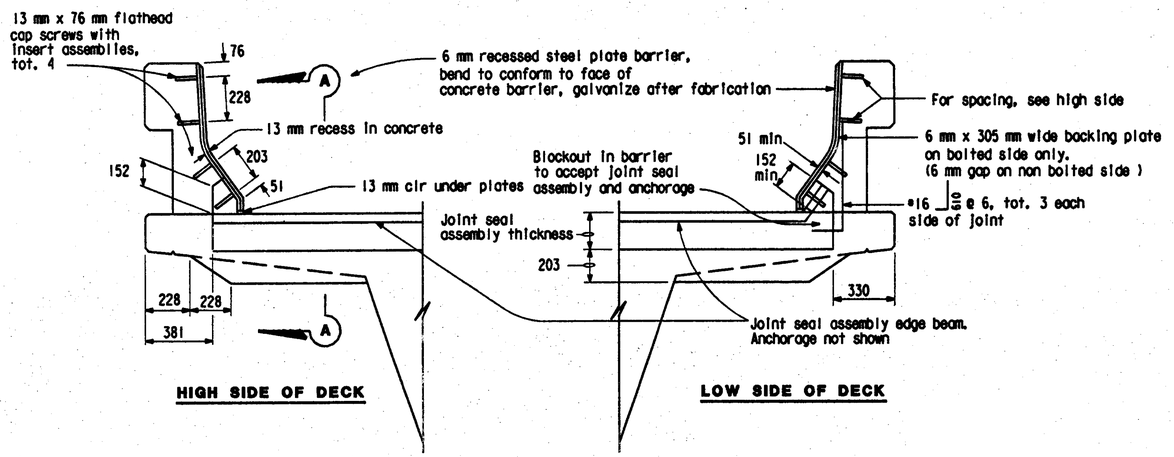
ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

FILE=/1222TA/DGN/WCONUND/XCSP22BLDGN IT-garcia

br42393G*24of30.tif

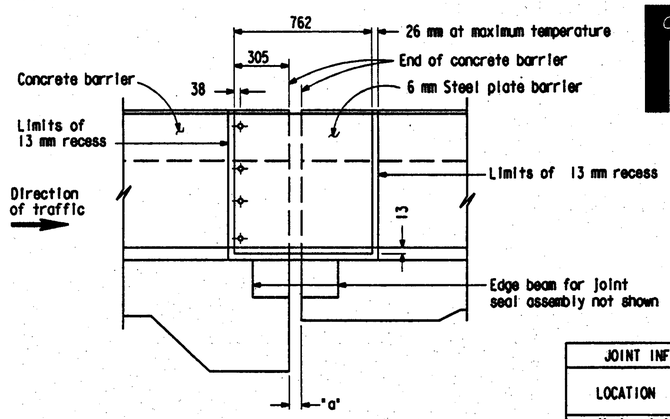
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RELEASED 11-25-97



SEAL INSTALLATION

No Scale

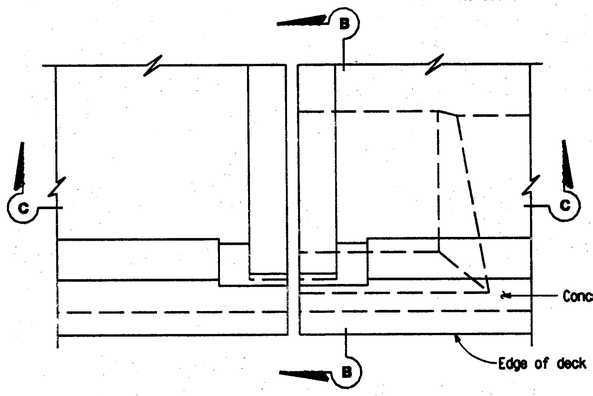


ELEVATION A-A

No Scale

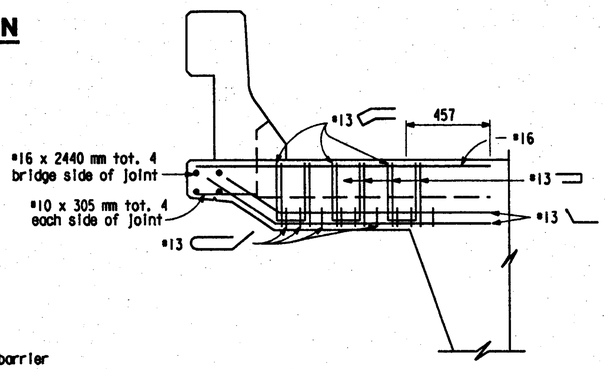
JOINT INFORMATION		"a" DIMENSIONS			
LOCATION	MOVEMENT RATING (M.R.)	SKEW	WINTER	SPRING & FALL	SUMMER
Abutment 1	155	0	72	54	36
Abutment 7	130	0	62	46	31

Notes:
1) For details not shown, see Bridge Plans
2) x is greater than or equal to y



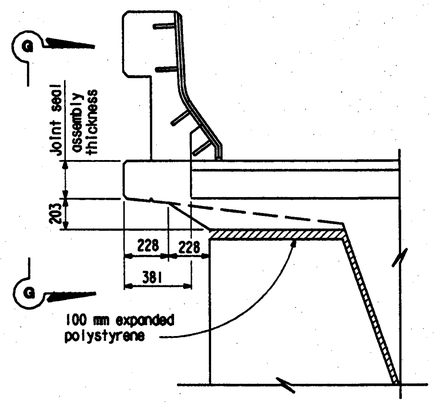
PLAN - DECK JOINT

No Scale



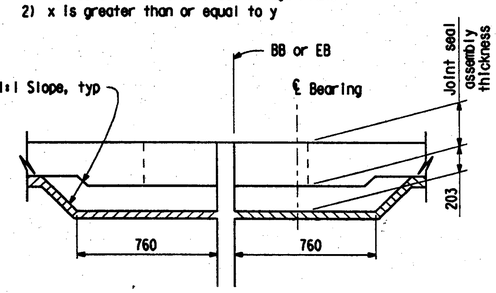
SECTION B-B

No Scale
Reinf. shown is in addition to slab reinf.



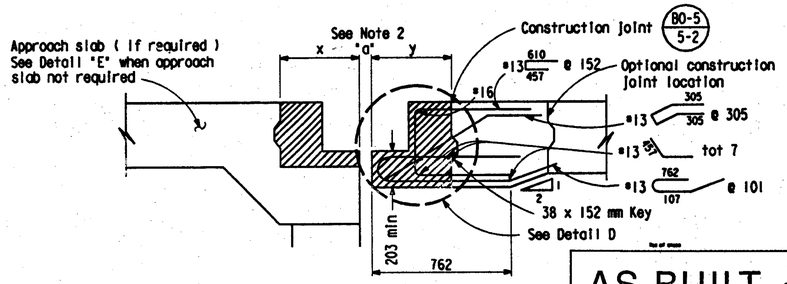
⟨1⟩ PART ELEVATION AT ABUTMENT

No Scale



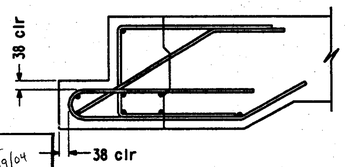
⟨1⟩ VIEW G-G

No Scale



SECTION C-C

No Scale



DETAIL D

No Scale

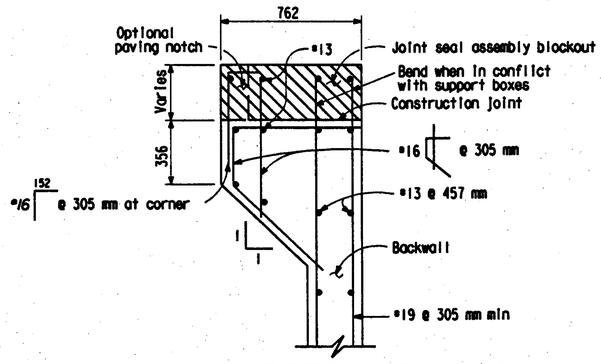
AS BUILT VL 7/19/04

CORRECTIONS BY Peter Mona

CONTRACT NO. 06-342324

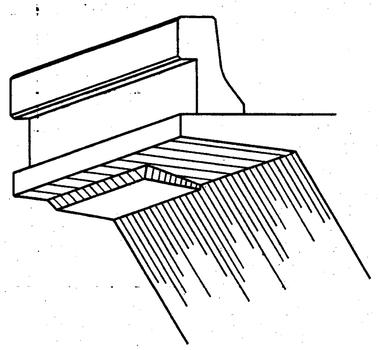
DATE 9-29-03

NO AS BUILT CHANGES



DETAIL E

No Scale
Backwall without approach slab



DECK OVERHANG AT HINGE

No Scale
Note: Abutment not shown

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

"SPECIAL DETAILS"

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	408	461

Caltrans Metric

REGISTERED ENGINEER - CIVIL

7-2-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL SCOTT TRAFFALIS — No. C46883 — Exp. 06/30/03 — CIVIL — STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA. 95834

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⟨1⟩ Revised Detail at Abutment

STANDARD DRAWING				
FILE NO. XS 12-79	DESIGN	BY DICK BARLOW	CHECKED	APPROVAL RECOMMENDED BY
DESIGN DATE REVISED	DETAILS	BY R. YEE	CHECKED	DESIGN SUPERVISOR
	SUBMITTED BY			

DS OSD 2147A (CADD 7/97)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN

CU 06222
EA 342321

BRIDGE NO.	N99-W180 CONNECTOR SEPARATION
42-393G	ABUTMENT JOINT SEAL DETAILS
POST MILE 90.51	MOVEMENT RATING GREATER THAN 100mm

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)										SHEET	OF
6/19/98	12/22/98	6/24/99	12/30/99	3/27/01						27	30

#CSP1279.dgn 17-apr-01

br42393G#27of30.tif

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RELEASED 3-26-97

AS BUILT 7/19/04 VL
CORRECTIONS BY Peter Mena
CONTRACT NO. 06-342324
DATE 9-29-03

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	407	461

Caltrans Metric

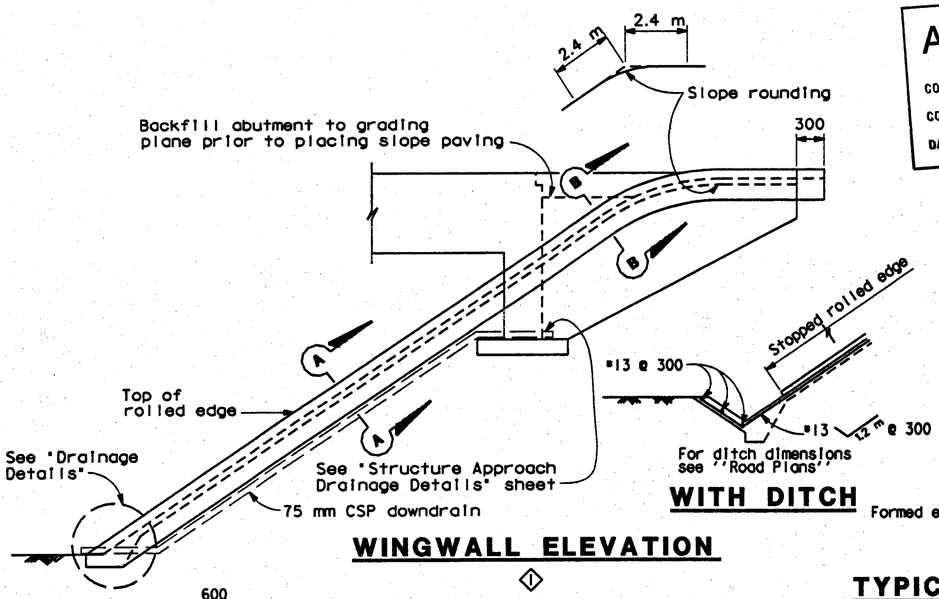
Michael Scott Traffalis
REGISTERED ENGINEER - CIVIL
7-2-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MICHEAL SCOTT TRAFFALIS — No. C46883 — Exp. 06/30/03 — CIVIL — STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
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SACRAMENTO, CA. 95834

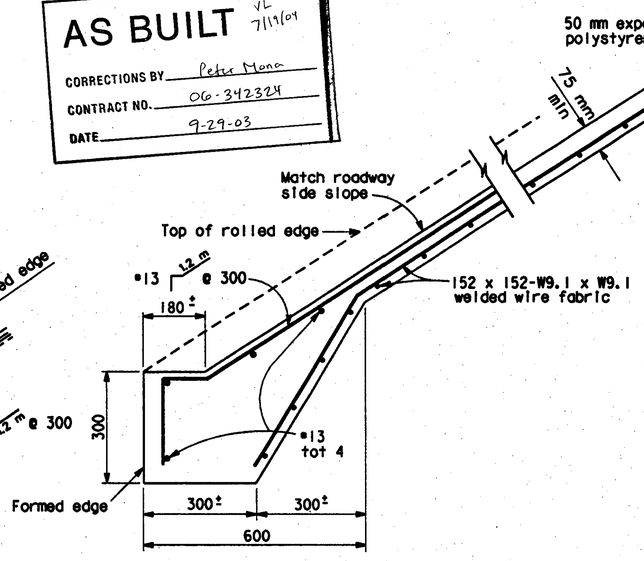
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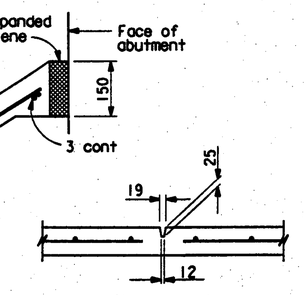


WINGWALL ELEVATION

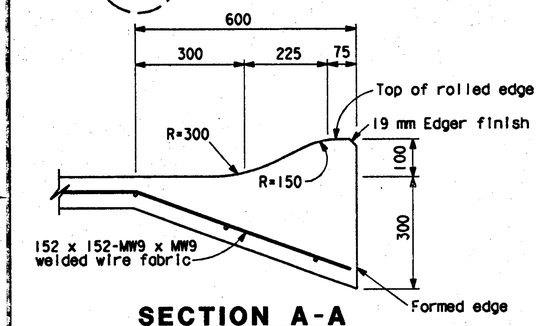
WITH DITCH



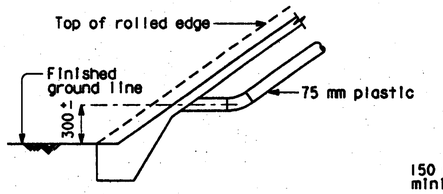
TYPICAL SECTION - CONCRETE PAVING



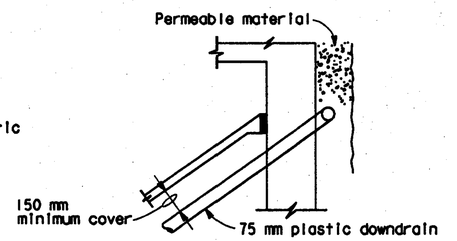
PREFORMED GROOVE



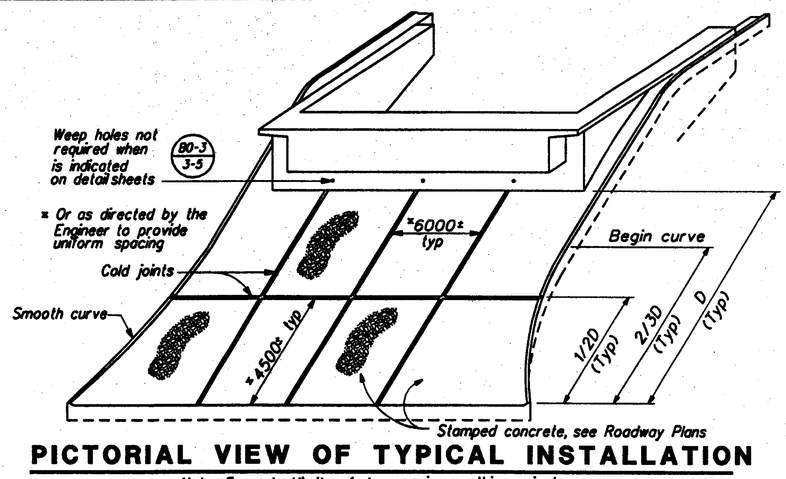
SECTION A-A



TYPICAL - NO CURB

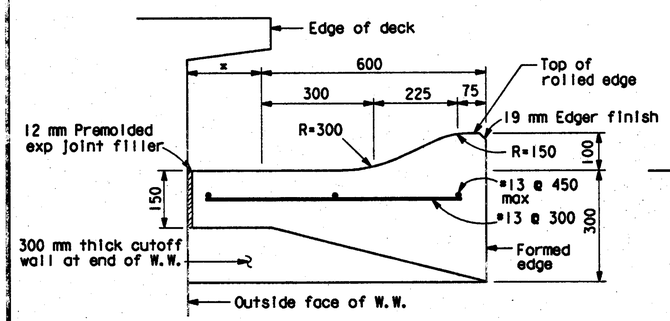


TYPICAL - DRAIN CONNECTION



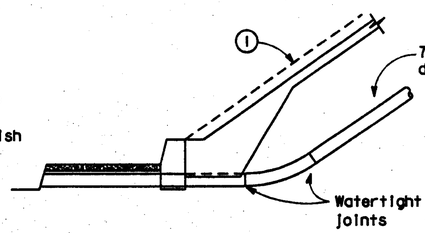
PICTORIAL VIEW OF TYPICAL INSTALLATION

Note: For actual limits of slope paving on this project, see sketch below.

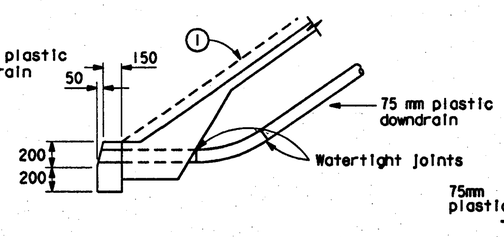


SECTION B-B

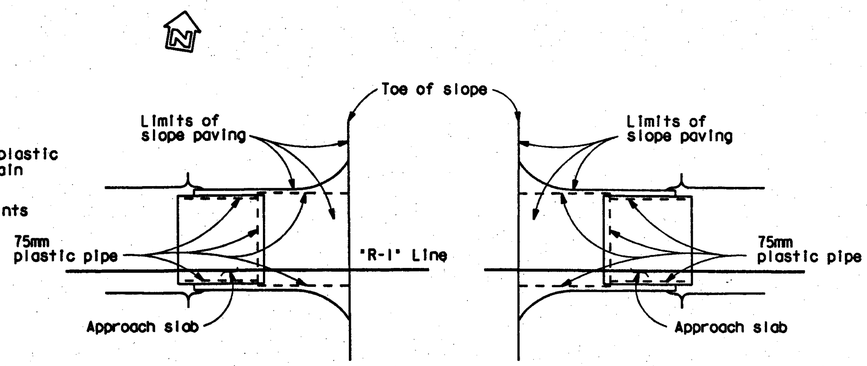
*This dimension becomes zero when edge of deck is at outside face of W.W.



TYPICAL - WITH SIDEWALK



TYPICAL - WITH CURB



LIMITS OF SLOPE PAVING & DRAINAGE LAYOUT

NO SCALE

DRAINAGE DETAILS

Note: Drainage details are only applicable when B0-3 3-5 is indicated on detail sheets.

1 Top of rolled edge

NO AS BUILT CHANGES

"SPECIAL DETAILS"

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

STANDARD DRAWING					
FILE NO. XS 22-11	DESIGN	BY		CHECKED	APPROVAL RECOMMENDED BY
DRAWING DATE Revised	DETAILS	BY R. YEE		CHECKED	
	SUBMITTED BY C.W. PURKISS				DESIGN SUPERVISOR

1 Revised Detail

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN

BRIDGE NO.	42-393G
KILOMETER POST	90.51

N99-W180 CONNECTOR SEPARATION

SLOPE PAVING - FULL SLOPE

DS OSD 2147A (METRIC) (REV. 2/25/97)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU06222
EA342321

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 1/30/98 | 2/05/98 | 6/15/98 | 12/22/98 | 6/24/99 | 12/30/99 | 3/21/0

SHEET	OF
26	30

FILE: \\2227\N\DSN\WCONWIND\...\CSP22ILDGN 17-apr-01

br423930#26of30.tif

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RELEASED 4-18-97

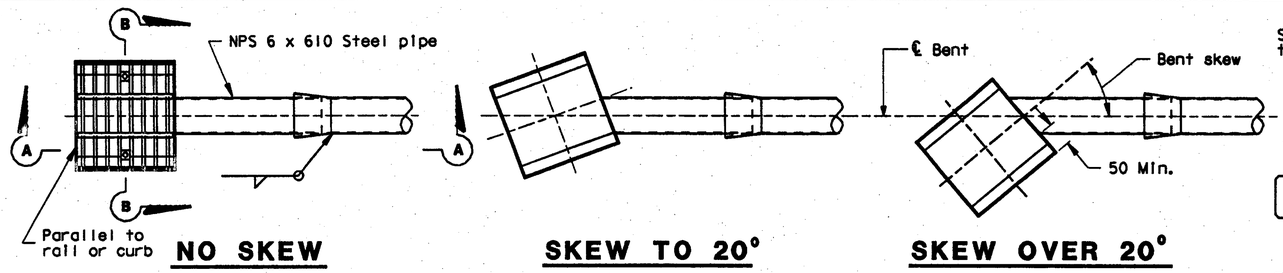
DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	409	461

Caltrans Metric

Michael Scott Traffalis
REGISTERED ENGINEER - CIVIL
7-2-01
PLANS APPROVAL DATE
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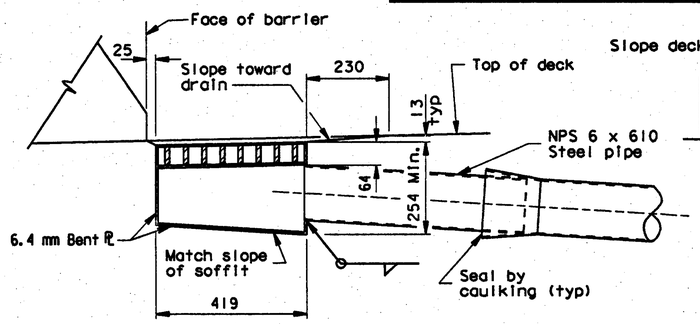
REGISTERED PROFESSIONAL ENGINEER — MICHAEL SCOTT TRAFFALIS — No. C46883 — Exp. 06/30/03 — CIVIL — STATE OF CALIFORNIA

Caltrans now has a web site! To get to the web site, go to: http://www.dot.ca.gov

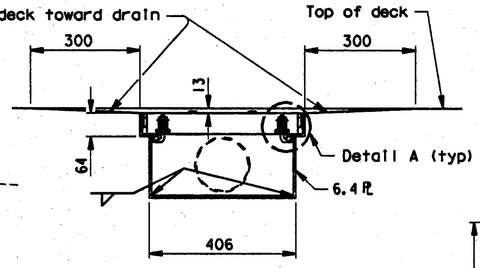


NO SKEW — SKEW TO 20° — SKEW OVER 20°

PLAN-DECK DRAIN ASSEMBLY

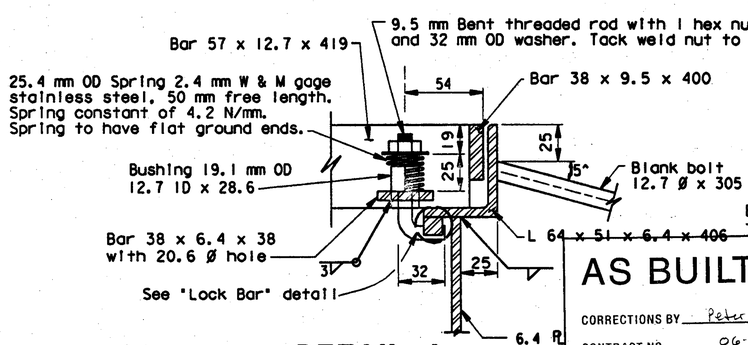


SECTION A-A

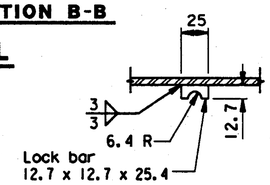


SECTION B-B

DECK DRAIN ASSEMBLY DETAIL



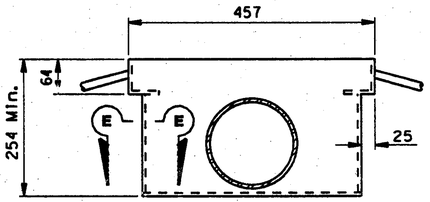
DETAIL A



LOCK BAR

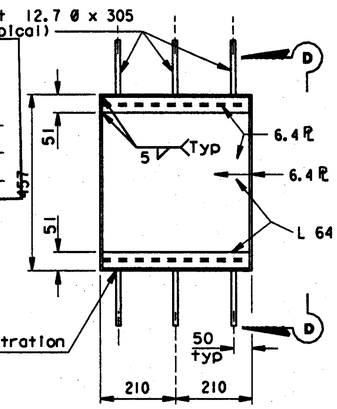
AS BUILT
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-29-03
VL 7/19/04

NO AS BUILT CHANGES

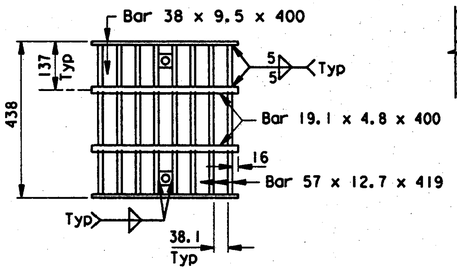


VIEW D-D

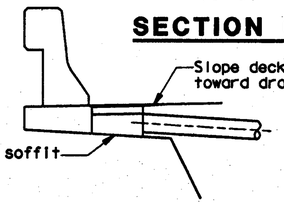
SECTION E-E



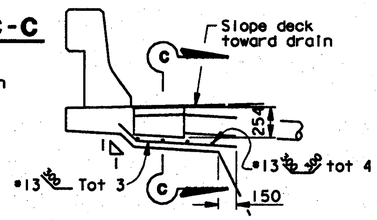
FRAME



GRATE

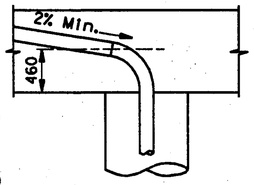


DRAIN FLUSH WITH OVERHANG

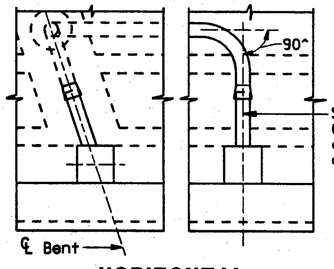


DRAIN WITH HAUNCHED OVERHANG

ELEVATION-DECK DRAIN LOCATIONS

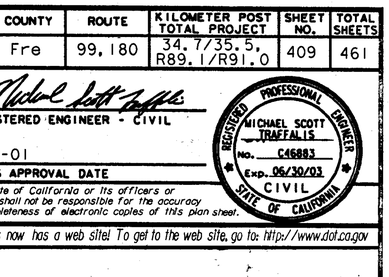


VERTICAL

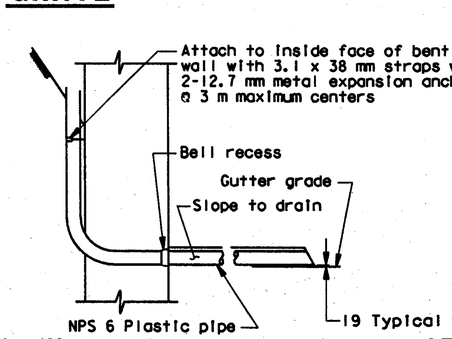


HORIZONTAL

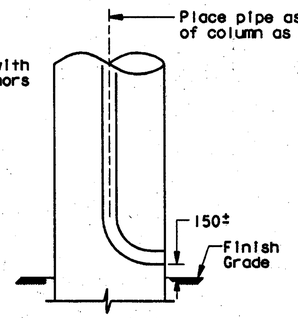
DRAIN PIPE ALIGNMENT



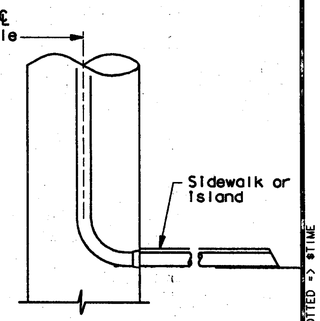
SLEEVE CONNECTION



AT WALL TYPE BENT



AT COLUMN TYPE BENT ABOVE GROUND



AT COLUMN TYPE BENT UNDER CURB

DRAIN OUTLET

NOTES:

All pipe to be NPS 6 x 3.43 welded steel pipe except as noted and galvanized if not encased in concrete. Fittings and bends shall have a minimum wall thickness of 3.1 mm. All joints or connections to be butt welded or connected by a steel pipe sleeve and to be smooth throughout inside of pipe except as noted. All bends to be 460 min. radius measured along ℄ pipe. All bends to be smooth. Pipes not encased in concrete to be supported by suitable galvanized hangers @ 3 m maximum spacing throughout. Galvanize deck drain assembly after fabrication.

NO SCALE

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

STANDARD DRAWING				
FILE NO. XS 20-24	DESIGN BY S. WIMAN	CHECKED M. LEWIS	APPROVAL RECOMMENDED BY	
DRAWING DATE 8/96	DETAILS BY G. WILLIFORD	CHECKED M. LEWIS		
	SUBMITTED BY S.D. WIMAN 8/96		DESIGN SUPERVISOR	

DS OSD 2147A (METRIC) (REV. 2/25/97)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN

CU 06222
EA 342321

BRIDGE NO.	N99-W180 CONNECTOR SEPARATION
42-393G	
KILOMETER POST 90.51	DECK DRAIN TYPE D-2 MODIFIED

DISREGARD PRINTS BEARING EARLIER REVISION DATES →
REVISION DATES (PRELIMINARY STAGE ONLY): 6/19/98 | 12/4/98 | 6/24/99 | 12/30/99 | 3/27/01

SHEET 28 OF 30

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

xs2024.dgn 17-apr-01

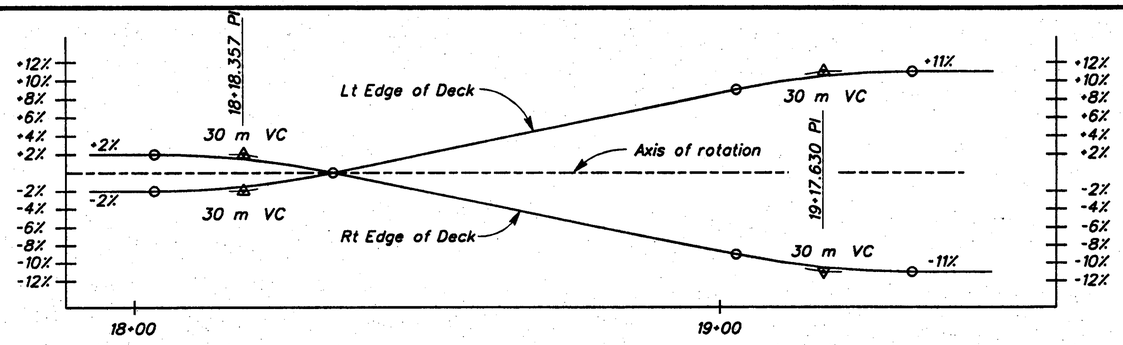
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TIME PLOTTED => $TIME
USERNAME => $USER

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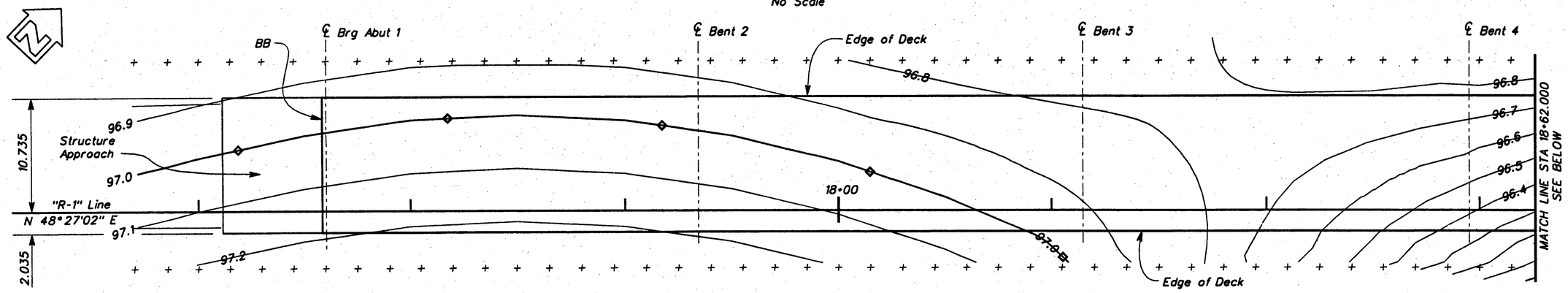
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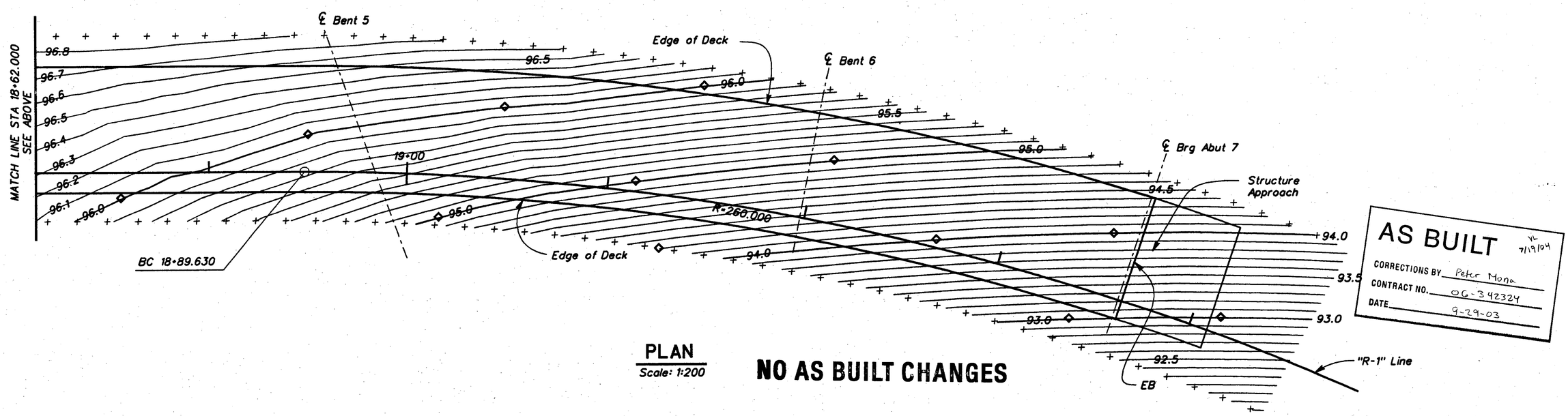
1. Contour interval is 0.1m
2. Contours do not include camber.
3. × Indicates 3.0 Meter Interval.
4. ◇ Indicates Even Meter Contours



SUPERELEVATION DIAGRAM

No Scale





PLAN

Scale: 1:200

NO AS BUILT CHANGES

AS BUILT
YL 7/19/04
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-29-03

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	385	461

Caltrans Metric

Michael Scott Traffalis
REGISTERED CIVIL ENGINEER
7-2-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL SCOTT TRAFFALIS — No. C46883 — Exp. 06/30/03 — CIVIL — STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA 95834

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B.E. Massey for Joel Escabar
DESIGN OVERSIGHT
4-18-01
SIGN OFF DATE

	BY	CHECKED
DESIGN	A.T. Dubovik II	E. Jao
DETAILS	T. Burns	S. Kazmi
QUANTITIES	A.T. Dubovik II	E. Jao

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

M. Traffalis
PROJECT ENGINEER

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

CU 06222
EA 342321

BRIDGE NO. 42-393G
KILOMETER POST 90.51

N99-W180 CONNECTOR SEPARATION
DECK CONTOURS

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)								SHEET	OF
6/19/98	12/22/98	6/24/99	12/30/99	3/27/01				4	30

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California Department of Transportation
Division of Maintenance

Structure Maintenance and Investigations

BRIDGE

INSPECTION

RECORDS

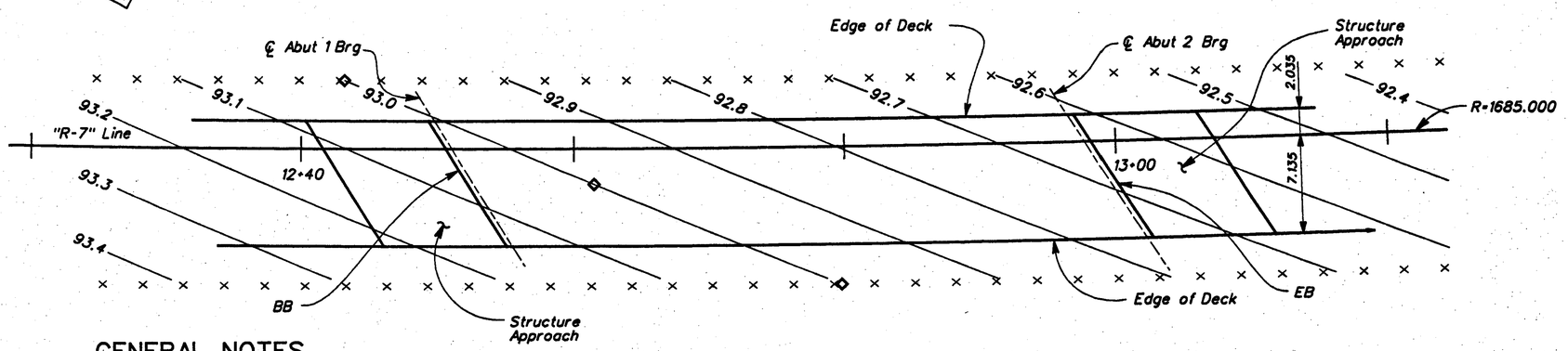
INFORMATION

SYSTEM

The requested documents have been generated by BIRIS.

These documents are the property of the California Department of Transportation and should be handled in accordance with Deputy Directive 55 and the State Administrative Manual.

Records for “Confidential” bridges may only be released outside the Department of Transportation upon execution of a confidentiality agreement.



PLAN
Scale: 1:200

NOTES:

1. Contour interval is 0.1 m
2. Contours do not include camber.
3. × Indicates 3.0 meter interval, along station line.
4. □ Indicates even meter contours.

GENERAL NOTES

LOAD FACTOR DESIGN

DESIGN: BRIDGE DESIGN SPECIFICATIONS (1983 AASHTO with Interims and Revisions by CALTRANS)

DEAD LOAD : Includes 1.68 KPa for wearing surface

LIVE LOADING: HS20-44 and alternative and permit design load

REINFORCED CONCRETE: f'c = 28 MPa, unless otherwise noted
Fy = 420 Mpa
n = 8
Transverse deck slab (Working Stress Design)
fc = 8.3 MPa
fs = 138 MPa
n = 10

PRESTRESS CONCRETE : See "Prestressing Notes" on "Girder Layout" sheet

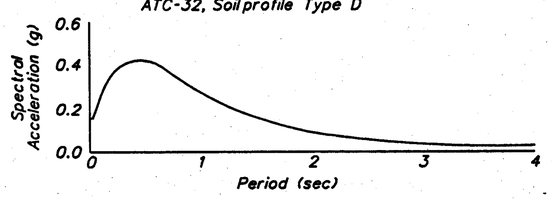
FOOTING PRESSURE: (SERVICE LOADS)

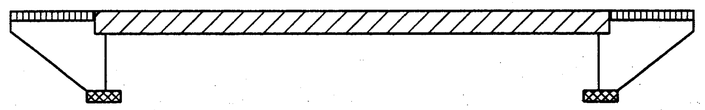
	ALLOWABLE (KPa)	DESIGN (KPa)
Abut. 1	190	186
Abut. 2	190	190

Ultimate bearing capacities may be taken as three (3) times the allowable capacities.

SEISMIC LOADING: The following ARS Curve was used in evaluating the structures seismic response

Magnitude: 7.25 ± 0.25
Peak Bed Rock Acceleration = 0.1 g
ATC-32, Soil profile Type D





Structural Concrete, Bridge

Structural Concrete, Bridge (see prestressing notes on "Girder Layout sheet")

Structural Concrete, Bridge Footing

Structural Concrete, Structure Approach

CONCRETE STRENGTH AND TYPE LIMITS
No Scale

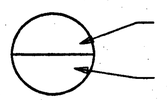
AS BUILT VL 7/19/04
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-29-03

INDEX TO PLANS

Sheet	Title
1	GENERAL PLAN
2	DECK CONTOURS
3	FOUNDATION PLAN
4	ABUTMENT LAYOUT
5	ABUTMENT DETAILS No. 1
6	ABUTMENT DETAILS No. 2
7	ABUTMENT DETAILS No. 3
8	TYPICAL SECTION
9	GIRDER LAYOUT
10	STRUCTURE APPROACH TYPE N(9S)
11	STRUCTURE APPROACH DRAINAGE DETAILS
12	SLOPE PAVING - FULL SLOPE
13	LOG OF TEST BORINGS 1 of 2
14	LOG OF TEST BORINGS 2 of 2

STANDARD PLANS DATED JULY 1999

A10A	ABBREVIATIONS
A10B	SYMBOLS
A62C	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL BRIDGE
B0-1	BRIDGE DETAILS
B0-3	BRIDGE DETAILS
B0-5	BRIDGE DETAILS
B0-13	BRIDGE DETAILS
B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 50 mm)
B7-1	BOX GIRDER DETAILS
B8-5	CAST-IN-PLACE PRESTRESSED GIRDER DETAILS
B11-53	CONCRETE BARRIER TYPE 25
B14-3	COMMUNICATION & SPRINKLER CONTROL CONDUITS (CONDUIT LESS THAN SIZE 103)



NO AS BUILT CHANGES

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	369	461

Michael Scott Traffalis
REGISTERED CIVIL ENGINEER
7-2-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL SCOTT TRAFFALIS — No. C46883 — EXP. 06/30/03 — CIVIL — STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA. 95834

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BZ Massey Jr. Joel Escabar
DESIGN OVERSIGHT
4-18-01
SIGN OFF DATE

DESIGN	BY W.Ward	CHECKED S. Liu /J. Lee	
DETAILS	BY T. Burns	CHECKED S. Kozmi	
QUANTITIES	BY W. Ward	CHECKED C. Ramirez	

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

M. Traffalis
PROJECT ENGINEER

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

CU 06222
EA 342321

BRIDGE NO. 42-391G
KILOMETER POST 90.43

E180-N99 CONNECTOR OVERCROSSING
DECK CONTOURS

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)								SHEET	OF
7/30/98	1/30/99	5/10/99	6/15/99	12/29/99	6/21/99	12/30/99	3/27/01	2	14

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99 180	34.7/35.5 R89.1/R91.0	370RI	461

Caltrans Metric

REGISTERED CIVIL ENGINEER

7-02-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL SCOTT TRAFFALIS — No. C46883 — Exp. 06/30/03 — CIVIL — STATE OF CALIFORNIA

PARSONS BRINCKERHOFF
QUADE & DOUGLAS, INC.
3840 ROSIN COURT, SUITE 200
SACRAMENTO, CA. 95834

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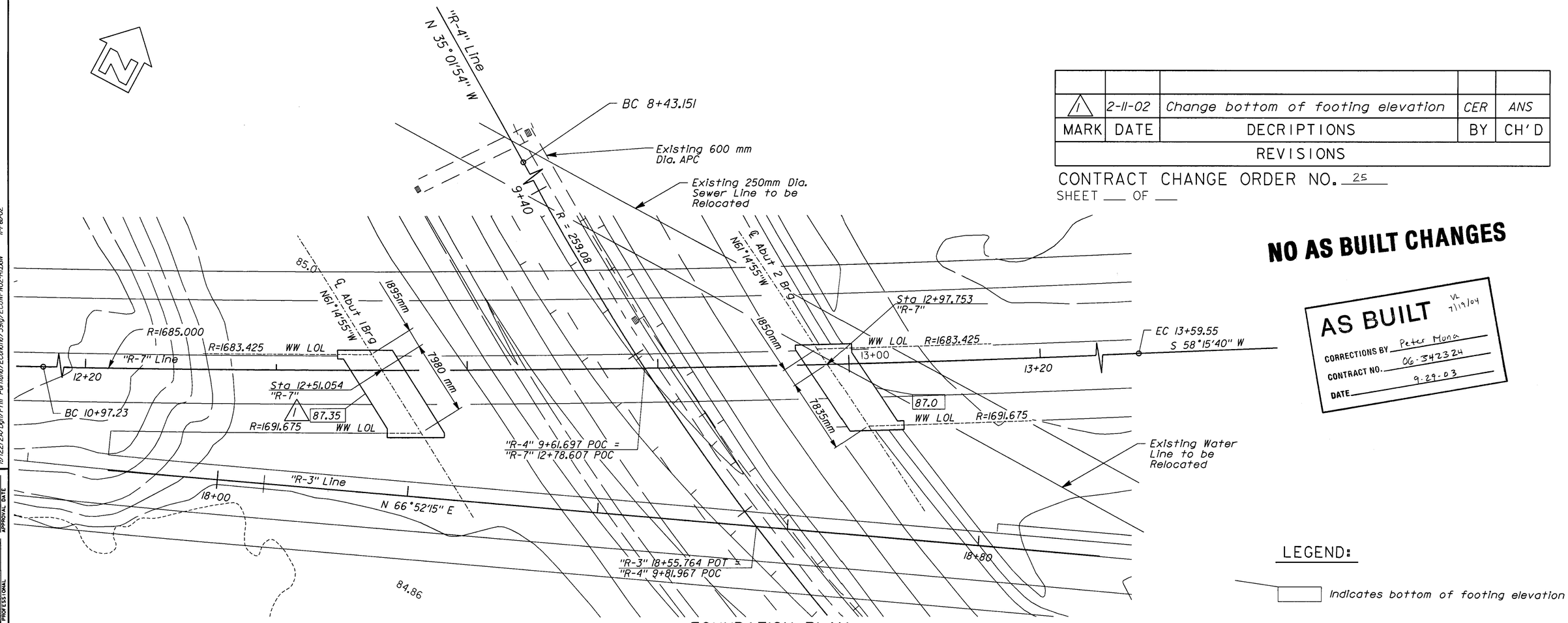
Curve Data

"R-7" Line	"R-4" Line
R = 1685.000	R = 259.08
△ = 8°55'11"	△ = 112°16'44"
T = 131.420	T = 386.127
L = 262.320	L = 507.703

Bench Marks

"BM" FI80 56.2 Elev 84.682
0.686 m brass cap embossed "California Department of Transportation" stamped "BM" "FI80 56.2" in the west curb of Fruit Ave. Approx 73.17 m south of the centerline of Dunn Ave. and approx 118.9 m right of centerline Sta 216+60±.
N 656213.497, E 1926981.531

"BM" FI80 56.4 Elev 85.610
0.686 m brass cap embossed "California Department of Transportation" stamped "BM" "FI80 56.4" at the southwest corner of Thorne Ave. and Dunn Ave. In the west curb of Thorne Ave. approx 1.52 m south of the ECR of Dunn Ave. at the street light approx 262.2 m right of the centerline Sta 220+13±.
N 656276.592, E 1927389.000



FOUNDATION PLAN

Scale: 1:200

MARK	DATE	DECRIPTIONS	BY	CH'D
1	2-11-02	Change bottom of footing elevation	CER	ANS
		REVISIONS		

CONTRACT CHANGE ORDER NO. 25
SHEET ___ OF ___

NO AS BUILT CHANGES

AS BUILT VL 7/19/04
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-29-03

LEGEND:

Indicates bottom of footing elevation

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

George P. Hattiger
GEOTECHNICAL PROFESSIONAL — APPROVAL DATE

for Joel Escabar
DESIGN OVERSIGHT
2/15/02
SIGNOFF DATE

PHOTOGRAMMETRY AS OF: 4-16-97		DRAWN	BY Radman Aerial Survey	DESIGN	BY W. Ward	CHECKED S. Liu/ J. Lee
SURVEYED	BY Psomas & Associates	TRACED	BY Intergraph	DETAILS	BY E. Jao	CHECKED S. Kazmi
FIELD CHECKED	BY Psomas & Associates	CHECKED	BY	QUANTITIES	BY W. Ward	CHECKED C. Ramirez

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

M. Traffalis
PROJECT ENGINEER

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

CU 06222
EA 342321

BRIDGE NO. 42-391G
KILOMETER POST 90.43

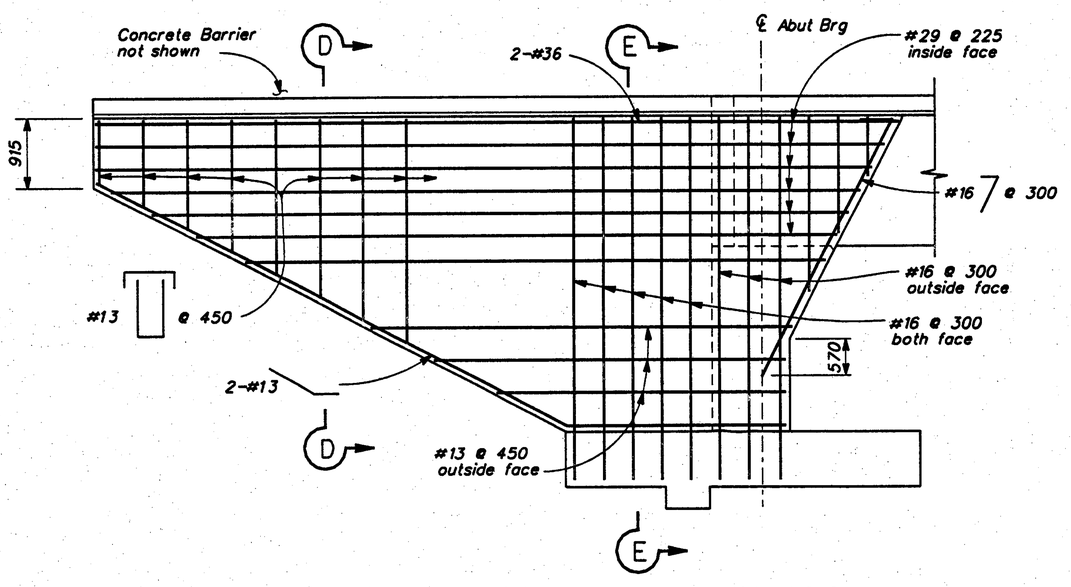
E 180-N 99 CONNECTOR OVERCROSSING
FOUNDATION PLAN

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)								SHEET	OF
9/15/97	12/15/97	2/15/98	3/16/98	3/19/98	6/19/98	12/29/98	6/29/99	3/27/01	3	14

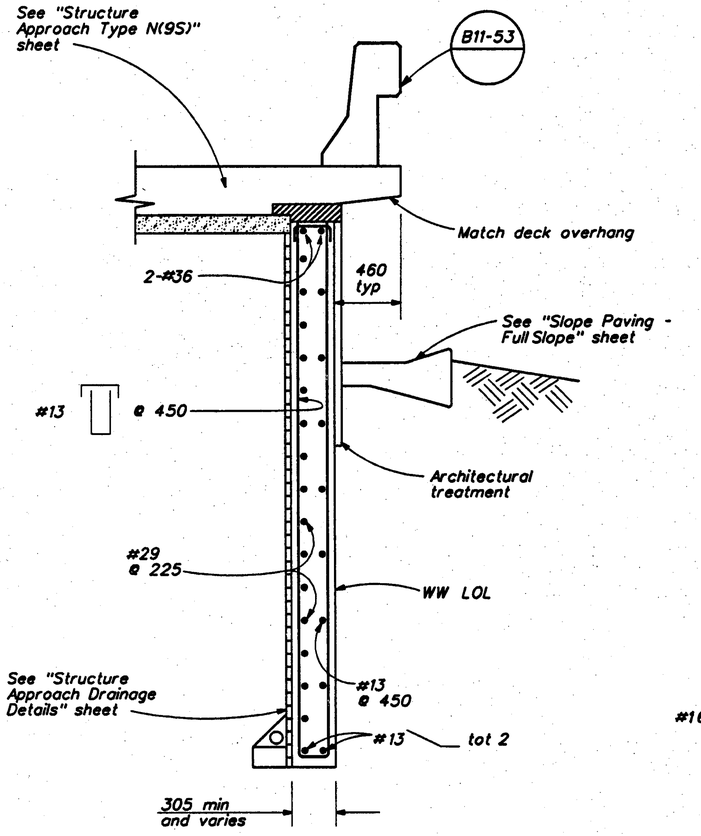
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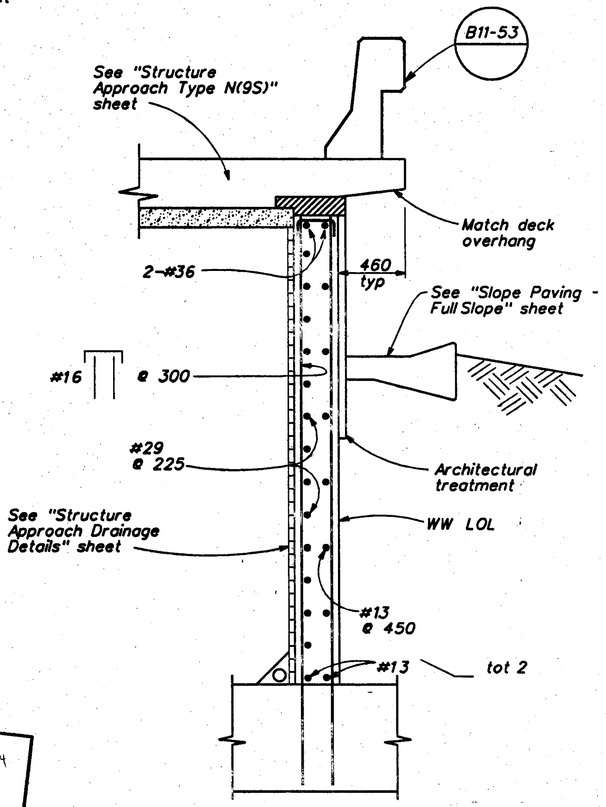
WINGWALL ELEVATION

(Abutment 1 South WW shown, other wingwalls similar)
Scale: 1:30



SECTION D–D

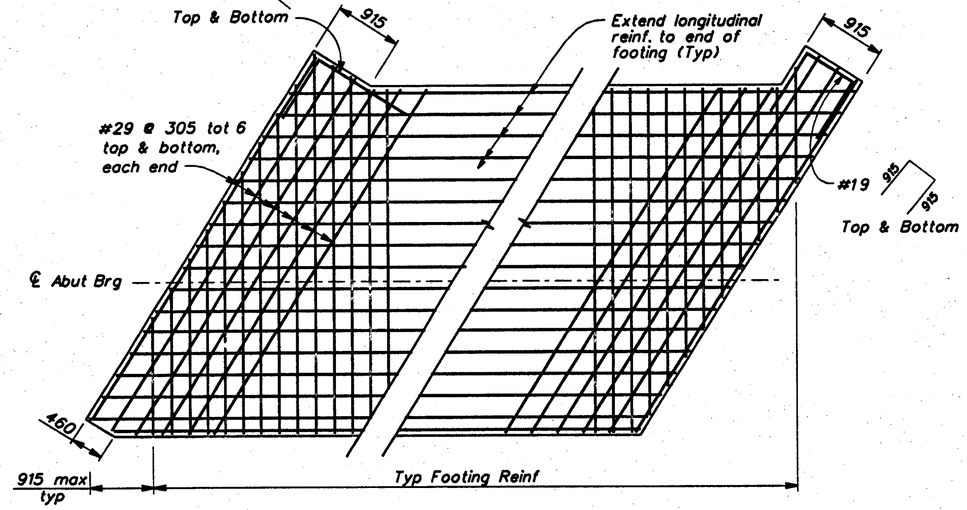
Scale: 1:20



SECTION E-E

Scale: 1:20

Note: Footing reinforcement not shown for clarity



FOOTING CORNER DETAILS

Scale: 1:40

AS BUILT VL 7/19/04
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-29-03

NO AS BUILT CHANGES

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	374	461

Michael Scott Traffalis
REGISTERED CIVIL ENGINEER
7-2-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL SCOTT TRAFFALIS — NO. C46883 — EXP. 06/30/03 — CIVIL — STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA. 95834

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ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

B. Narvey for Joel Escabar
DESIGN OVERSIGHT
4-18-01
SIGN OFF DATE

	BY	CHECKED
DESIGN	W.Ward	S. Liu /J. Lee
DETAILS	T. Burns	S. Kazmi
QUANTITIES	W. Ward	C. Ramirez

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

M. Traffalis
PROJECT ENGINEER

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

CU 06222
EA 342321

BRIDGE NO. 42-391G
KILOMETER POST 90.43

E 180-N 99 CONNECTOR OVERCROSSING

ABUTMENT DETAILS NO. 3

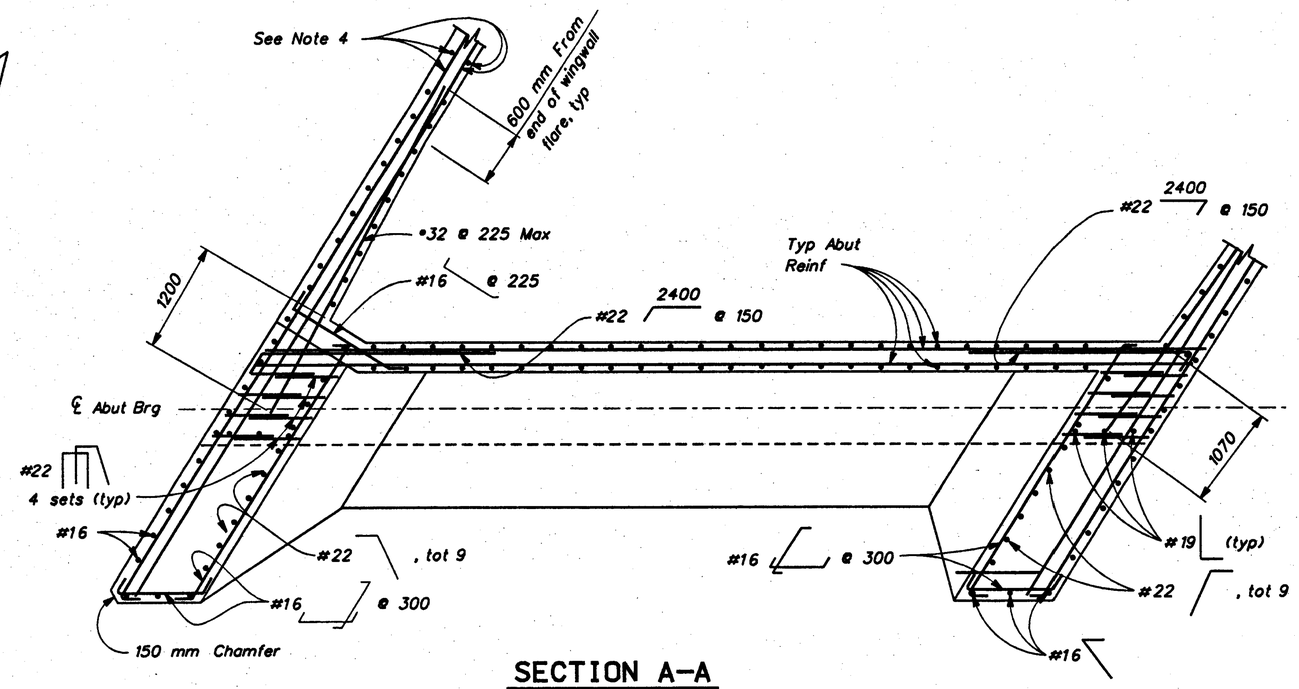
DISREGARD PRINTS BEARING EARLIER REVISION DATES →
REVISION DATES (PRELIMINARY STAGE ONLY): 12/5/97 | 1/30/98 | 2/05/98 | 5/01/98 | 6/19/98 | 12/29/98 | 6/21/99 | 12/30/99 | 3/27/01

SHEET 7 OF 14

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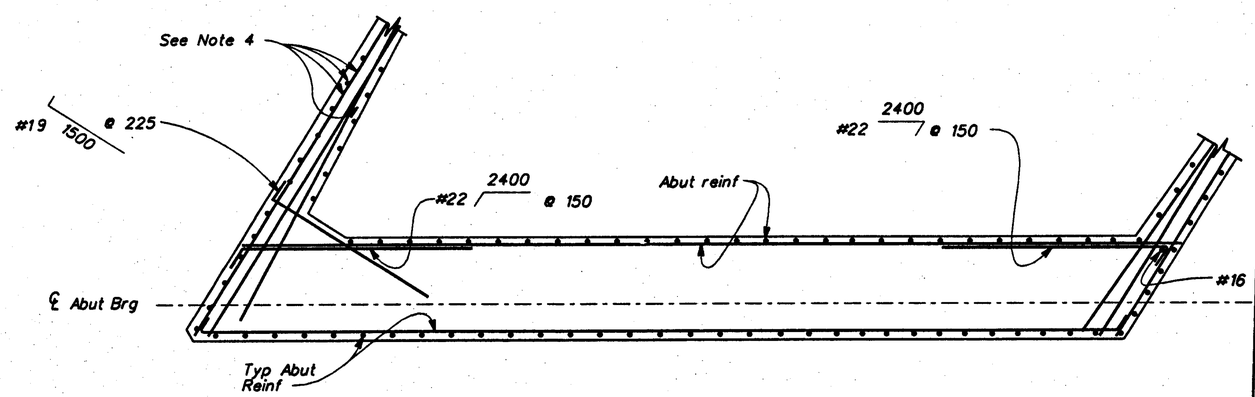
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SECTION A-A

Scale: 1:30



SECTION B-B

Scale: 1:30

AS BUILT VL 7/19/04

CORRECTIONS BY Peter Mona

CONTRACT NO. 06-342324

DATE 9-29-03

NOTES:

1. For location of "Section A-A" and "Section B-B" see "Abutment Layout" sheet.
2. "Section A-A" and "Section B-B" are shown for Abutment 1, Abutment 2 similar.
3. Architectural treatment not shown.
4. For size and spacings see "Abutment Details No. 3" sheet.

NO AS BUILT CHANGES

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	373	461

REGISTERED CIVIL ENGINEER

7-2-01

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL SCOTT TRAFFALIS — NO. C46883 — EXP. 06/30/03 — CIVIL — STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
1840 ROSIN COURT, STE. 200
SACRAMENTO, CA. 95834

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DESIGN	BY W.Ward	CHECKED S. Liu / J. Lee	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY T. Burns	CHECKED S. Kozmi	
QUANTITIES	BY W. Ward	CHECKED C. Ramirez	

B2 Massey for Joel Escobar
DESIGN OVERSIGHT
4-18-01
SIGN OFF DATE

M. Traffalis
PROJECT ENGINEER

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

CU 06222
EA 342321

BRIDGE NO. 42-391G
KILOMETER POST 90.43

E 180-N 99 CONNECTOR OVERCROSSING

ABUTMENT DETAILS NO. 2

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 7/30/98 | 2/05/99 | 6/01/99 | 6/18/99 | 7/23/99 | 8/24/99 | 12/30/99 | 3/27/01

SHEET 6 OF 14

FILE: F:\122270\dgn\ECONLND\ECONAB08.dgn 17-apr-01

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99 180	34.7/35.5 R89.1/R91.0	372RI	461

Caltrans Metric

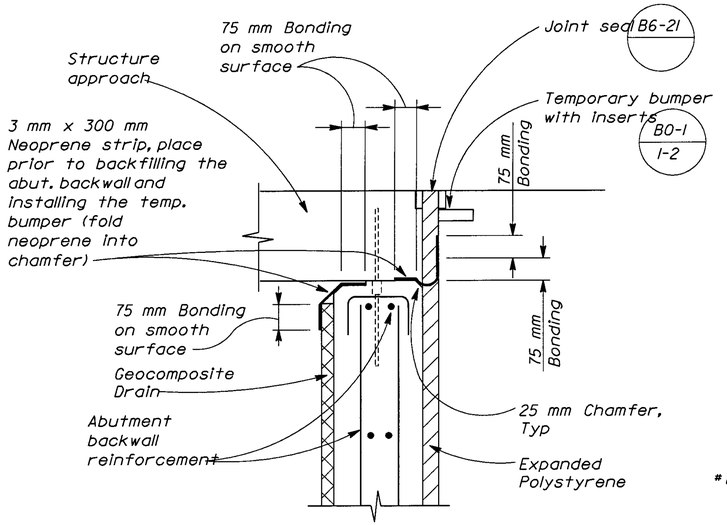
REGISTERED CIVIL ENGINEER

7-02-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL SCOTT TRAFFALIS — No. C46883 — Exp. 06/30/03 — CIVIL — STATE OF CALIFORNIA

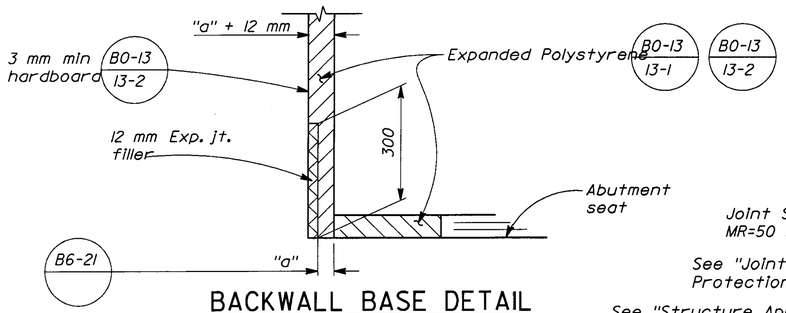
PARSONS BRINCKERHOFF
QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA. 95834

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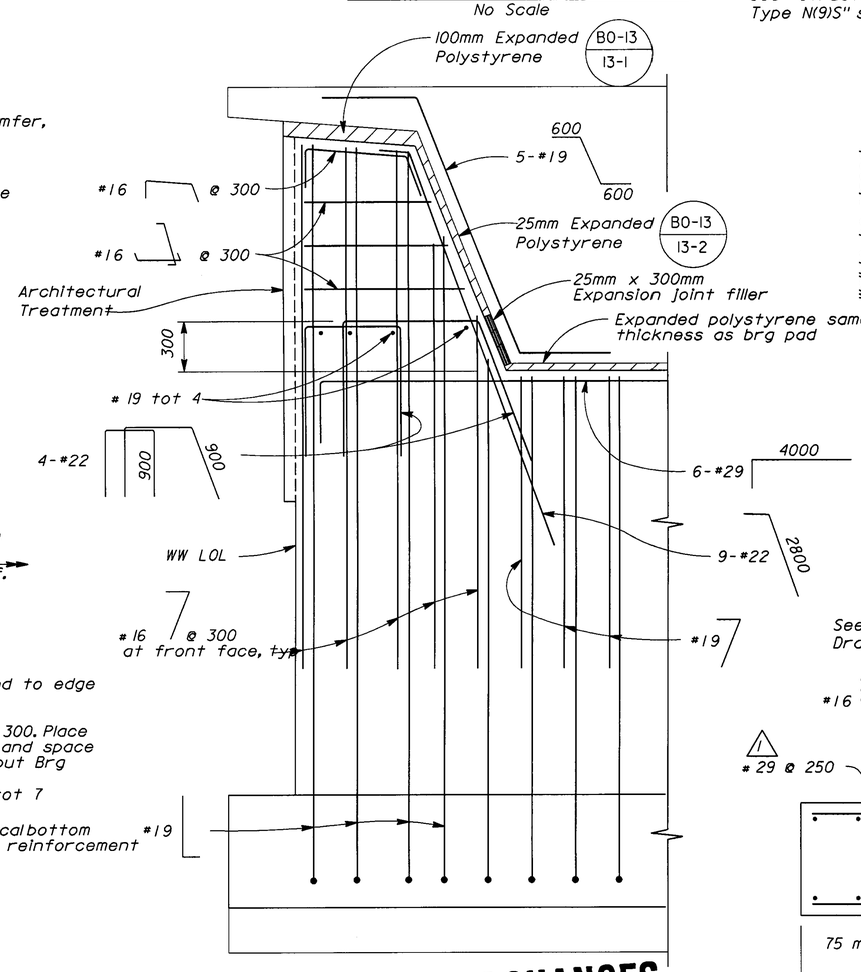
JOINT PROTECTION DETAIL

Scale: 1:10



BACKWALL BASE DETAIL

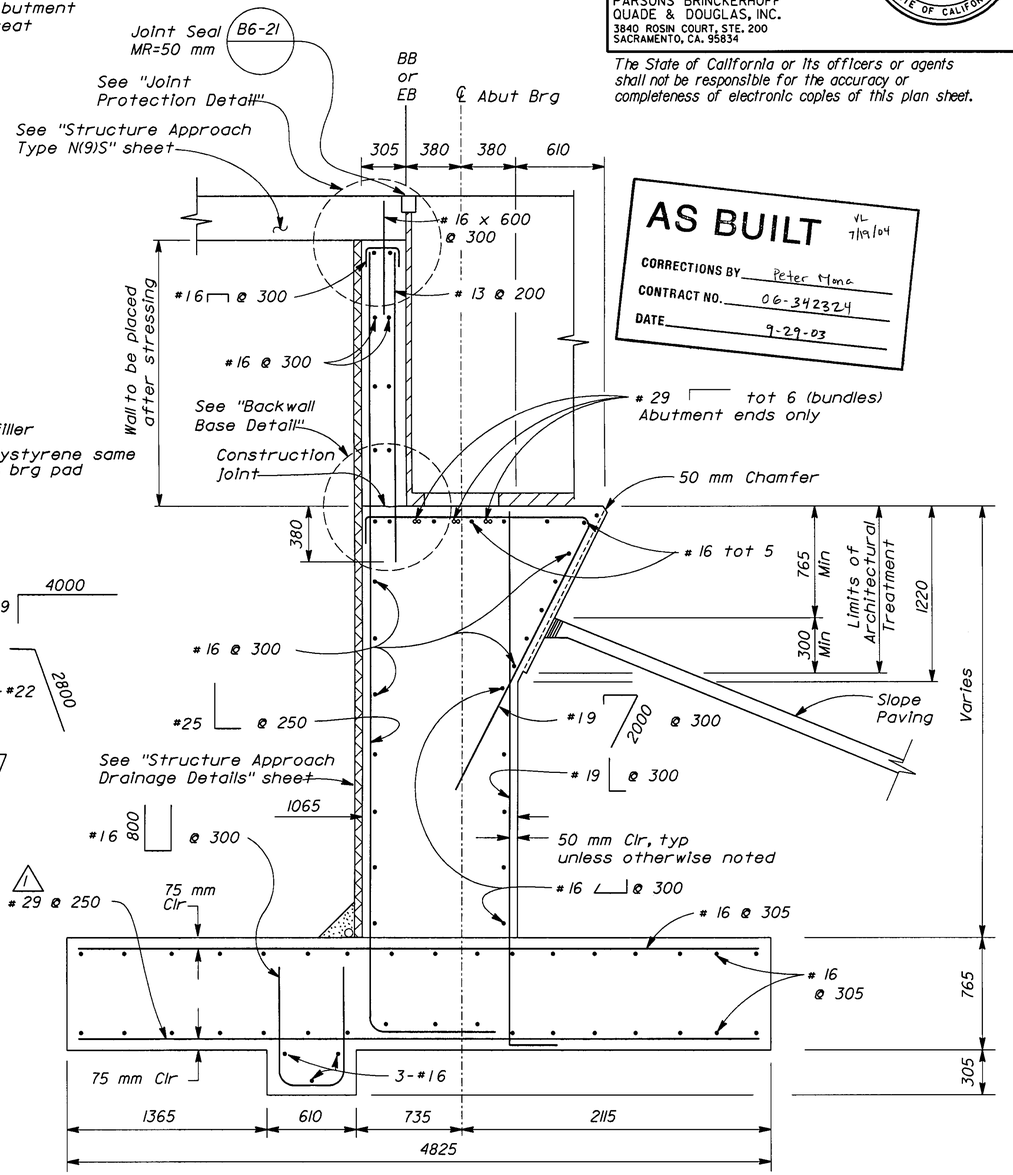
No Scale



PART ELEVATION

Scale: 1:20

NO AS BUILT CHANGES



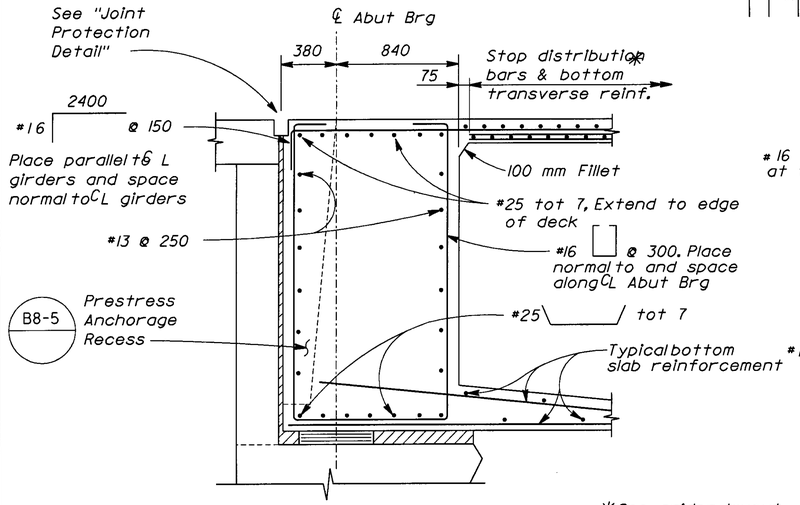
ABUTMENT SECTION

Scale: 1:20

AS BUILT VL 7/19/04
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-29-03

MARK	DATE	DECRIPTIONS	BY	CH'D
1	2-11-02	Changed reinforcement	CER	ANS
REVISIONS				

CONTRACT CHANGE ORDER NO. 25
SHEET ___ OF ___



END DIAPHRAGM SECTION

Scale 1:20

*See grider layout sheet for distribution steel.

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DESIGN	BY W.Ward	CHECKED S. Liu / J. Lee	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	M. Traffalis, PROJECT ENGINEER
DETAILS	BY T. Burns	CHECKED S. Kazmi		
QUANTITIES	BY W. Ward	CHECKED C. Ramirez		

Joel Escabar
DESIGN OVERSIGHT
2/15/02
SIGN OFF DATE

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

CU 06222
EA 342321

BRIDGE NO. 42-391G
KILOMETER POST 90.43

E180-N99 CONNECTOR OVERCROSSING

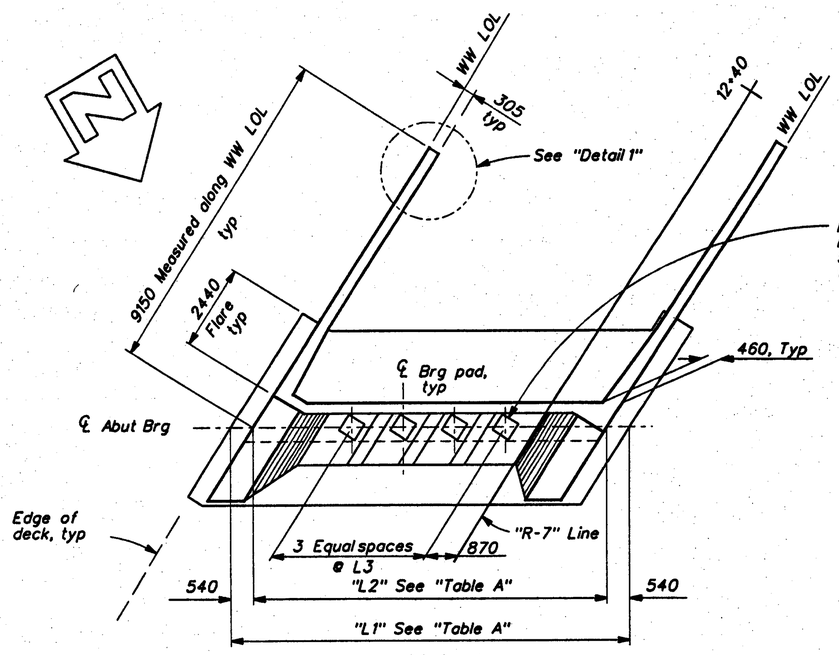
ABUTMENT DETAILS NO. 1

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)									SHEET	OF
10/15/97	1/30/98	2/05/98	6/01/98	6/19/98	2/22/99	6/24/99	7/29/99	3/27/01	5	14

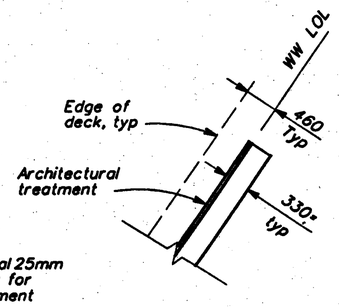
I:/12272d/Dgn/Frm Portland/EConUnd/391g/ECONAB07-R1.DGN 11-Feb-02

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PLAN

Abutment 1 shown, Abutment 2 similar
Scale: 1:80



* Includes additional 25mm of concrete cover for architectural treatment

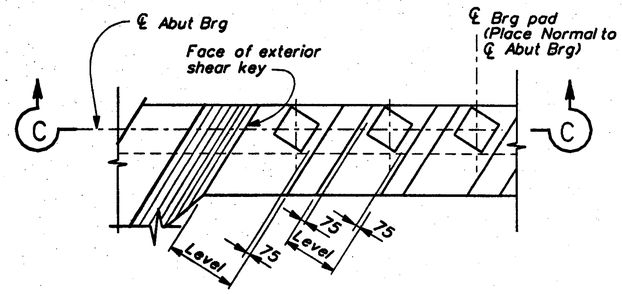
DETAIL 1

No Scale

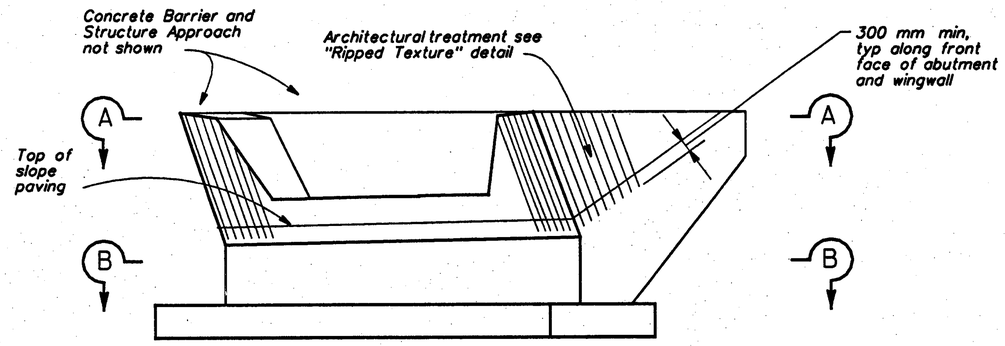
TABLE A

(Abutment Dimensions)

	"L1"	"L2"	"L3"
Abutment 1	10 955	9875	1455
Abutment 2	10 765	9685	1420



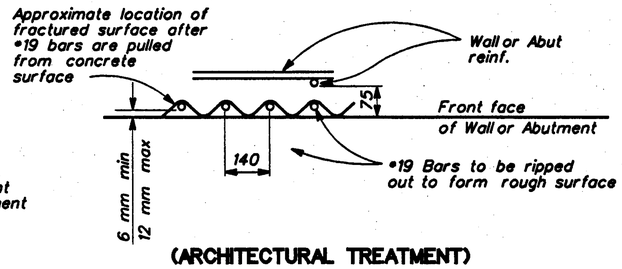
PART PLAN



ELEVATION

Abutment 1 shown, Abutment 2 similar

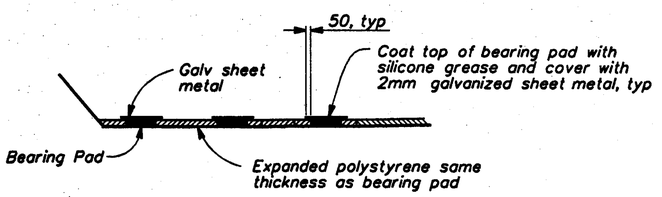
Scale: 1:80



(ARCHITECTURAL TREATMENT)

RIPPED TEXTURE

No Scale



SECTION C-C

BEARING PAD DETAIL

Scale: 1:40

NOTES:

1. Footing key in "Elevation" not shown.
2. For "Sections A-A" and "Section B-B" see "Abutment Details No. 2" sheet.

NO AS BUILT CHANGES

AS BUILT VL 7/19/04
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-29-03

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	371	461

REGISTERED CIVIL ENGINEER
7-2-01
PLANS APPROVAL DATE

MICHAEL SCOTT TRAFFALIS, No. C46883, Exp. 06/30/03, CIVIL, REGISTERED PROFESSIONAL ENGINEER, STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA. 95834

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DESIGN	BY W.Ward	CHECKED	S. Liu /J. Lee
DETAILS	BY T. Burns	CHECKED	S. Kazmi
QUANTITIES	BY W. Ward	CHECKED	C. Ramirez

B Massey for Joel Escobar
DESIGN OVERSIGHT
4/18/01
SIGN OFF DATE

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

M. Traffalis
PROJECT ENGINEER

CU 06222
EA 342321

BRIDGE NO. 42-391G
KILOMETER POST 90.43

E180-N99 CONNECTOR OVERCROSSING
ABUTMENT LAYOUT

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

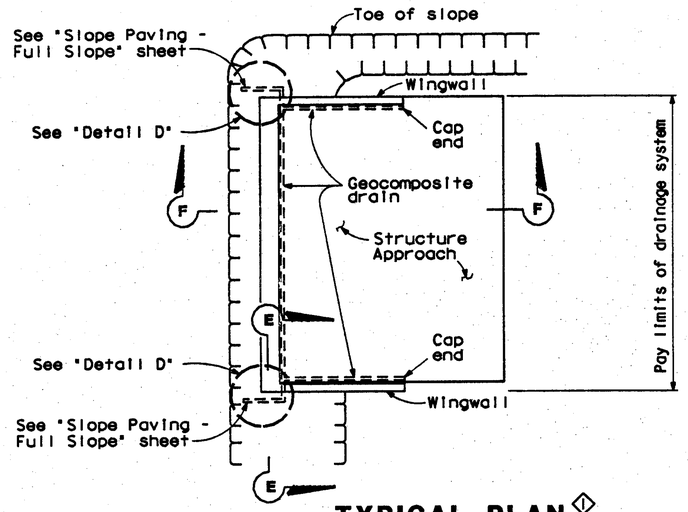
REVISION DATES (PRELIMINARY STAGE ONLY)									SHEET	OF
12/5/97	2/05/98	6/01/98	6/19/98	12/22/98	6/24/99	12/30/99	3/27/01		4	14

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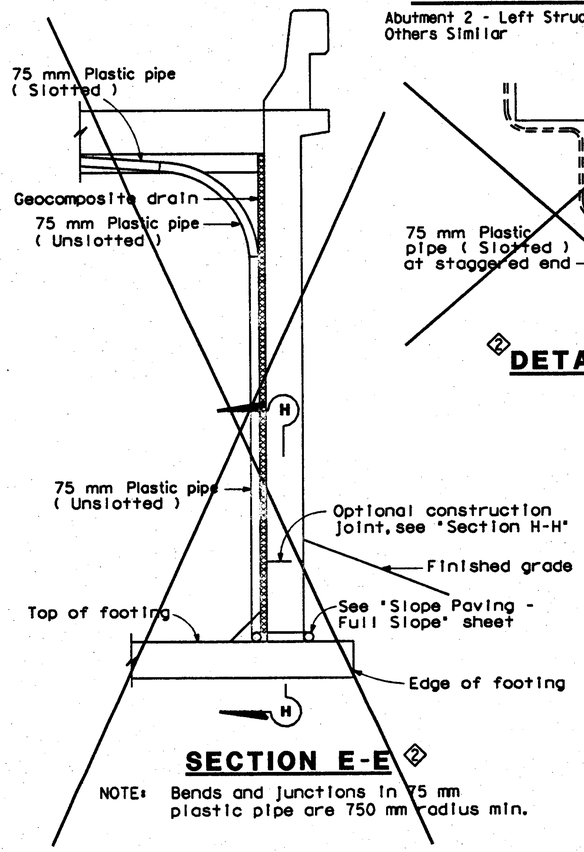
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RELEASED 3-25-97



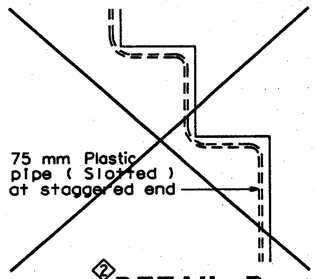
TYPICAL PLAN ①

Abutment 2 - Left Structure Shown, Others Similar

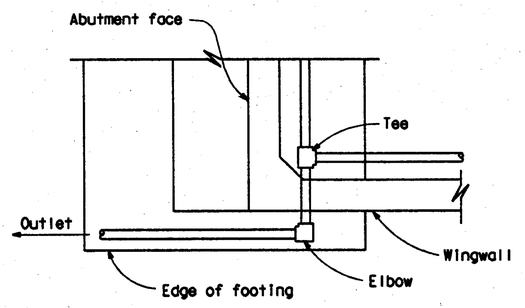


SECTION E-E ②

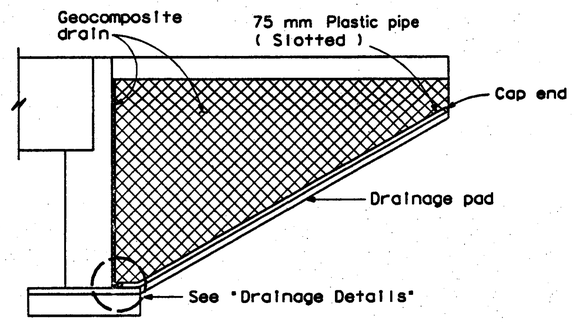
NOTE: Bends and junctions in 75 mm plastic pipe are 750 mm radius min.



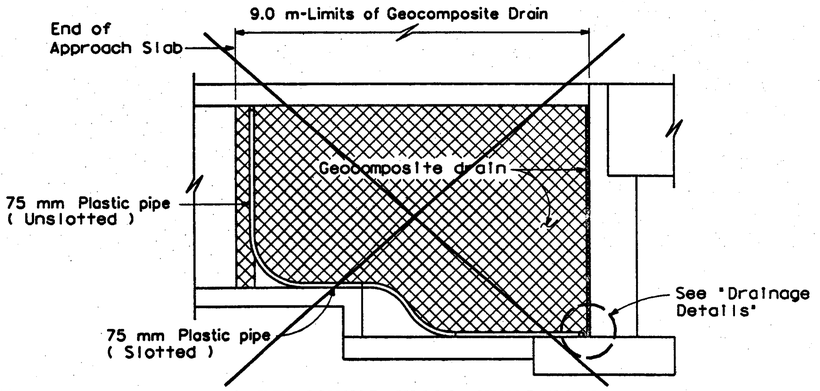
DETAIL B ②



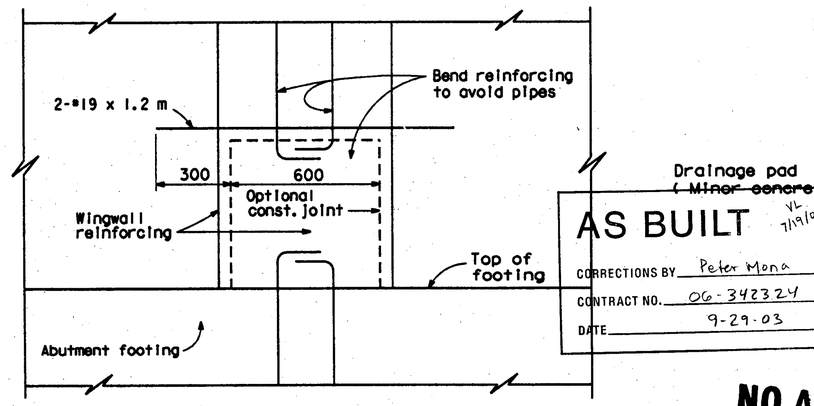
DETAIL D



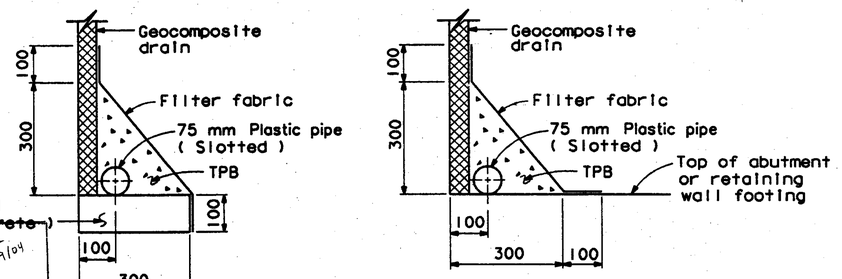
CANTILEVER WINGWALL SECTION F-F



② RETAINING WALL WINGWALL SECTION G-G



SECTION H-H ①



WITHOUT FOOTING

WITH FOOTING

DRAINAGE DETAILS

AS BUILT VL 7/19/04

CORRECTIONS BY Peter Mona

CONTRACT NO. 06-342324

DATE 9-29-03

NO AS BUILT CHANGES

"SPECIAL DETAILS"
NO SCALE
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	378	461

Caltrans Metric

REGISTERED ENGINEER - CIVIL

7-2-01

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHAEL SCOTT TRAFFALIS No. C46883 EXP. 06/30/03 CIVIL STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA. 95834

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STANDARD DRAWING

FILE NO. X8 22-17 | DESIGN BY M. TRAFFALIS | CHECKED E. THORKILDSEN | APPROVAL RECOMMENDED BY

DRAWING DATE 8/92 | DETAILS BY R. YEE | CHECKED E. THORKILDSEN

SUBMITTED BY M. HA | DESIGN SUPERVISOR

① Revised Detail
② Detail Not Needed

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN

BRIDGE NO. 42-391G
KILOMETER POST 90.43

E 180 - N 99 CONNECTOR OVERCROSSING
STRUCTURE APPROACH DRAINAGE DETAILS

CU 06222
EA 342321

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 7/30/98 | 2/05/99 | 6/04/98 | 6/19/98 | 12/28/98 | 6/21/99 | 12/30/99 | 3/27/0

SHEET 11 OF 14

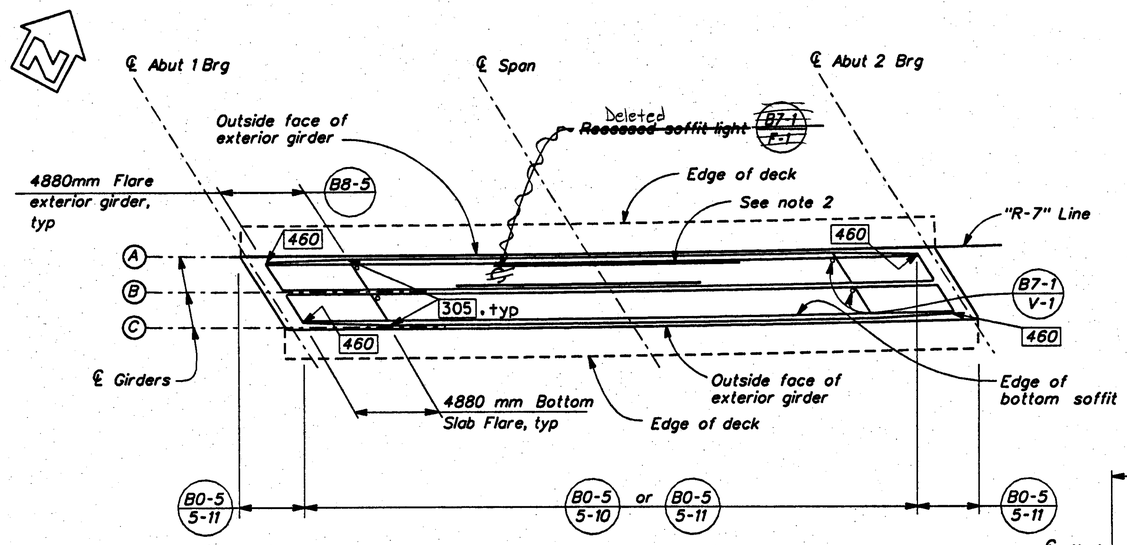
OS OSD 2147A (METRIC) (REV. 2/25/97)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

FILE: //12227.V/DGN/ECONUNO/396/ECUN221T.DGN 17-apr-01

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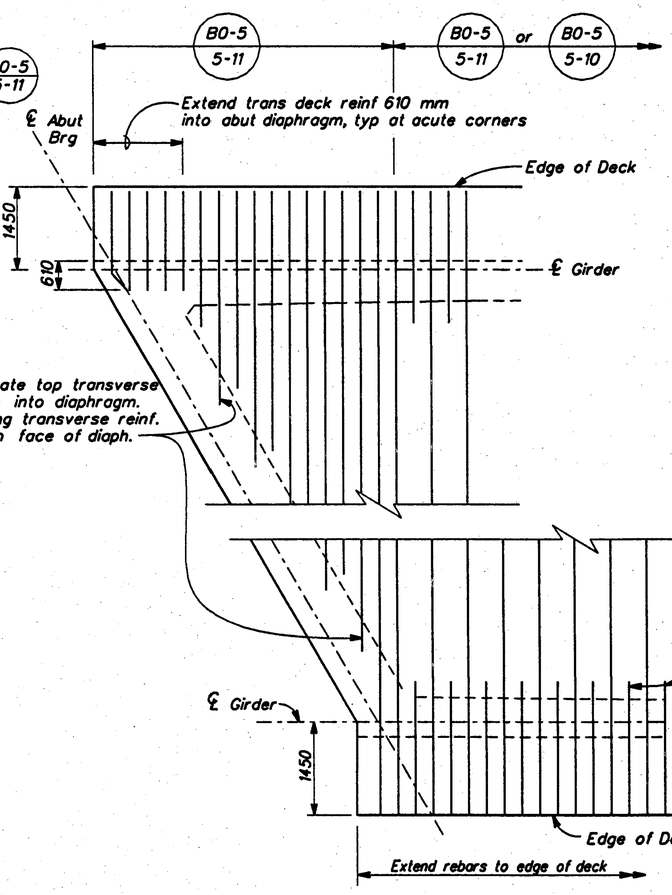
ClibPDF - www.fastio.com



GIRDER LAYOUT

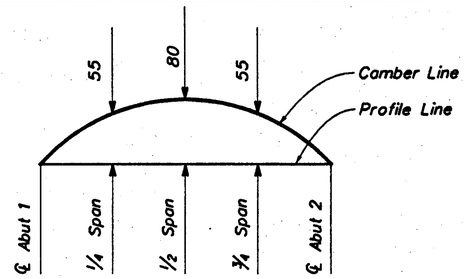
B7-1 B8-5 B0-5

Scale: 1:200



DECK CORNER DETAIL

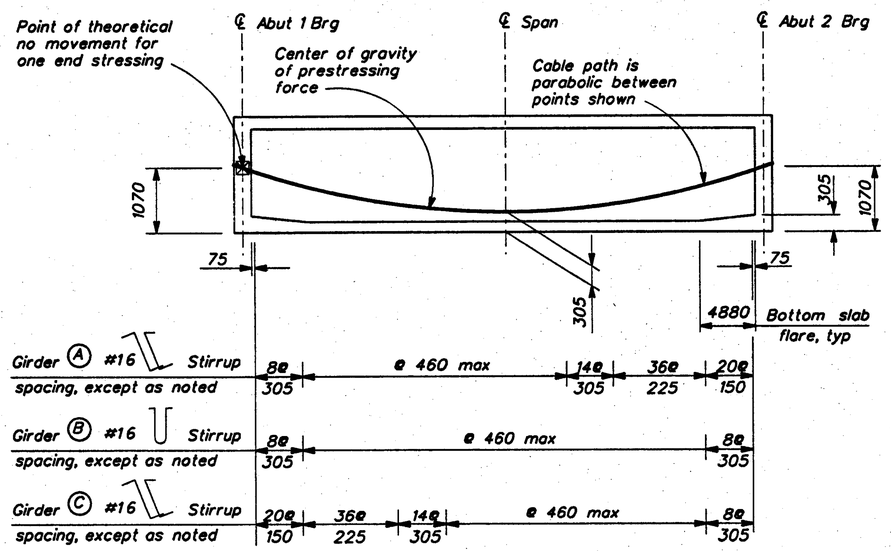
No Scale



CAMBER DIAGRAM

No Scale

(Does not include allowance for falsework settlement)



LONGITUDINAL SECTION

B8-5

No Scale

PRESTRESSING NOTES:

1. Design based on 1860 MPa Low Relaxation Strand.
2. Pjack = 32 700 kN (Total)
   Anchor set = 10 mm
   Total number of girders = 3
3. Distribution of prestress force (Pjack) between girders shall not exceed the ratio of 3:2. Maximum final force variation between girders shall not exceed 3225 KN.
4. Concrete: f'c = 35 MPa at 28 days
   f'ci = 25 MPa at time of stressing.
5. ☒ Indicates point of no movement.
   One end stressing shall be performed from abutment 2.
6. Contractor shall submit elongation calculations based on initial stress at ☒ = 0.975 times jacking stress.
7. Design is based on μ = 0.20 and k = 0.00.
8. Tendons to be jacked to 0.70 f's.
9. As = $\frac{Pjack}{0.70\ f's}$

AS BUILT VL 6-17-04

CORRECTIONS BY Peter Mona

CONTRACT NO. 06-342324

DATE 9-29-03

NOTES:

1. ▭ Indicates girder flare stem width see B7-1 S-3
2. All bars not shown for clarity. For additional mild reinforcement see 'Additional Longitudinal Reinforcement-Bottom slab' on "Typical Section" sheet.
3. ~~For recessed soffit light see "Road Plans".~~ Deleted

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	376	461

Michael Scott Traffalis
REGISTERED CIVIL ENGINEER
7-2-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL SCOTT TRAFFALIS — NO. C46883 — EXP. 06/30/03 — CIVIL — STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA 95834

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DESIGN	BY W.Ward	CHECKED S. Liu /J. Lee	
DETAILS	BY T. Burns	CHECKED S. Kazmi	
QUANTITIES	BY W. Ward	CHECKED C. Ramirez	

B.E.Massey for Joel Escobar
DESIGN OVERSIGHT
4/18/01
SIGN OFF DATE

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

M. Traffalis
PROJECT ENGINEER

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

CU 06222
EA 342321

BRIDGE NO. 42-391G
KILOMETER POST 90.43

E180-N99 CONNECTOR OVERCROSSING
GIRDER LAYOUT

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)								SHEET	OF
10/15/97	7/30/98	2/05/99	5/01/99	8/19/99	12/29/99	6/12/00	12/29/00	9	14

FILE: /12227/DGN/ECUNGL01.DGN 17-APR-01

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DIST.	COUNTY	ROUTE	POST km TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	381	461

George P. Hattrup
REGISTERED GEOTECHNICAL ENGINEER

7-2-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — George P. Hattrup — No. 2353 — Exp. 6-30-01 — GEOTECHNICAL — STATE OF CALIFORNIA

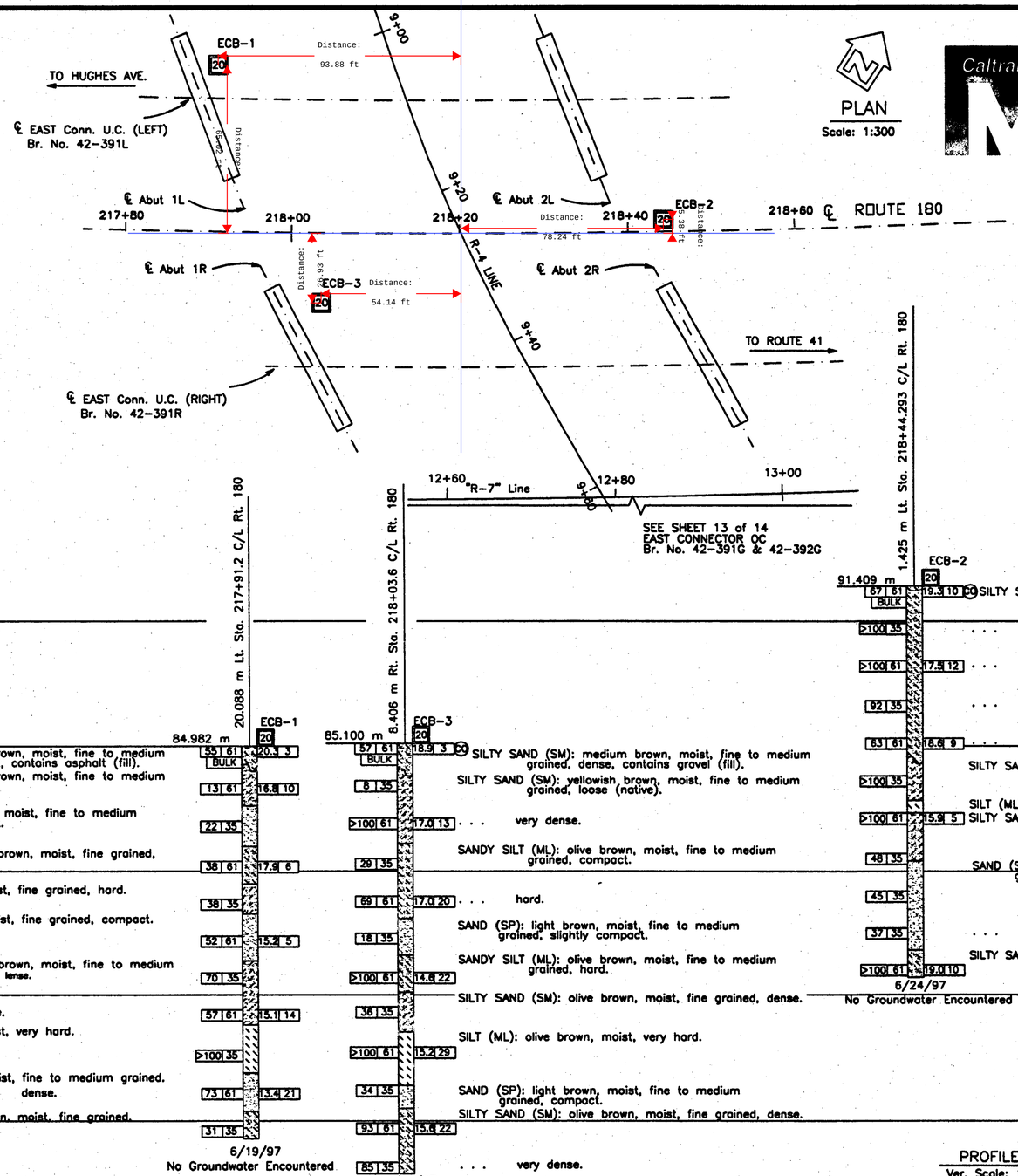
BSK & ASSOCIATES
567 WEST SHAW AVE. , SUITE B2
FRESNO, CA. 93704

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BENCHMARK

F 180 56.2 Elevation 84.683 m
Fd 57 mm brass cap embossed 'California Department of Transportation' stamped 'BM F 180 56.2' in the west curb of Fruit Avenue, 73.2 m ± south of the ℄ of Dunn Avenue, 118.9 m right of ℄ station 216.088.

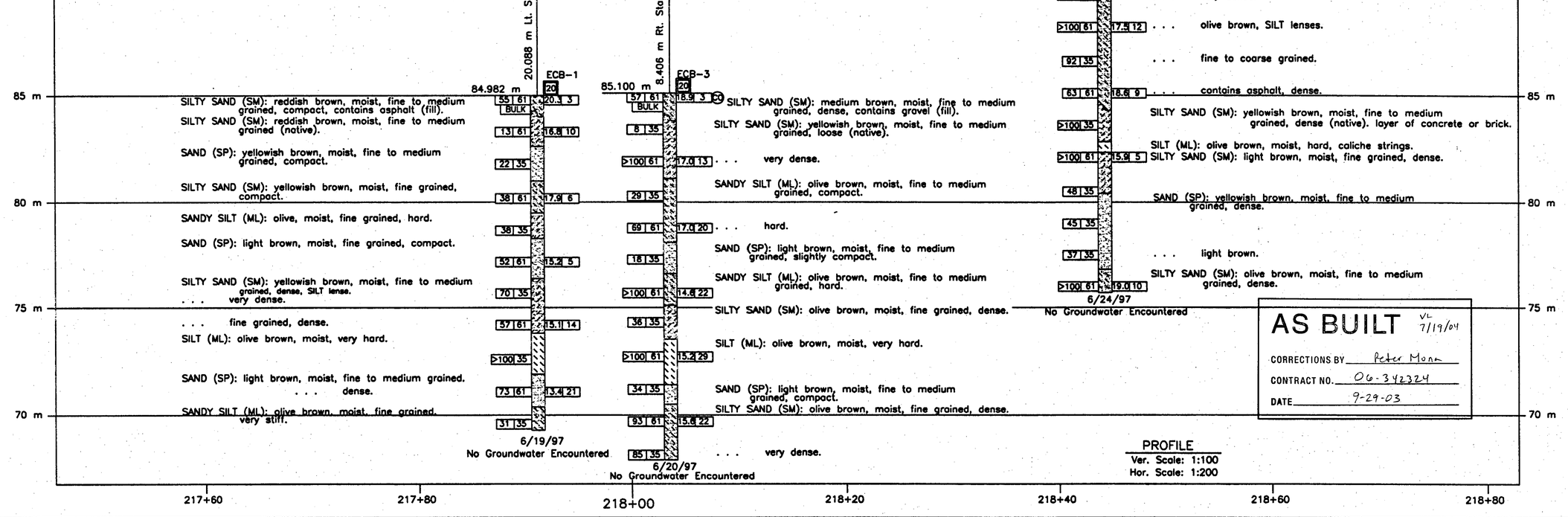


PLAN
Scale: 1:300

Caltrans Metric

NO AS BUILT CHANGES

NOTES:
1. Borings drilled with a truck mounted drill rig equipped with 20 cm dia. hollow stem auger.
2. Soil samples were obtained with a 61 mm I.D., 82 mm O.D., California Sampler and a 35 mm I.D. Standard Penetration Test (SPT) sampler driven with a 63.5 Kg hammer dropping 0.76 m using a rope and cat-head assembly.



PROFILE
Ver. Scale: 1:100
Hor. Scale: 1:200

AS BUILT VL 7/19/04
CORRECTIONS BY Peter Moon
CONTRACT NO. 06-342324
DATE 9-29-03

LEGEND OF BORING OPERATIONS
57 mm CONE PENETROMETER BORING
ELECTRONIC CONE PENETROMETER TEST
AUGER BORING
SAMPLE BORING (DRY)

LEGEND OF EARTH MATERIALS
CLAY, SILTY CLAY, SILT, CLAYEY SILT, SAND, GRAVEL, ORGANIC MATTER, BEDROCK, IGNEOUS ROCK
SOIL TEST DESIGNATIONS

CONSISTENCY CLASSIFICATION FOR SOILS
According to the Standard Penetration test

Penetration (Blows/0.3 m)	Granular	Cohesive
0-4	Very loose	Very Soft
5-9	Loose	Soft
10-19	Slightly compact	Stiff
20-34	Compact	Very stiff
35-69	Dense	Hard
>70	Very dense	Very hard

NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis

DESIGN OVERSIGHT	B.Mansey for JOEL ESCABAR	FIELD ENGINEER : K. ROMERO & S. KAWATE	6/97
SIGNOFF DATE	4-18-01	DRAWN BY : J. R. SCHNEIDER	10/97
		CHECKED BY : G. P. HATTRUP, P. E.	10/97

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

George Hattrup, P. E.
PROJECT ENGINEER

CU 06
EA 342321

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 20 40 60 80

BRIDGE NO.	E180-N99 CONNECTOR OVERCROSSINGS
42-391G	
KILOMETER POST 90.43	LOG OF TEST BORINGS NO.2

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)					SHEET	OF
11/19/97	02/14/98	06/04/98	12/02/98	03/27/01	14	14

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DIST.	COUNTY	ROUTE	POST km TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	380	461

George P. Hattrup
REGISTERED GEOTECHNICAL ENGINEER

7-2-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — George P. Hattrup — No. 2353 — Exp. 6-30-01 — GEOTECHNICAL — STATE OF CALIFORNIA

BSK & ASSOCIATES
567 WEST SHAW AVE. , SUITE B2
FRESNO, CA. 93704

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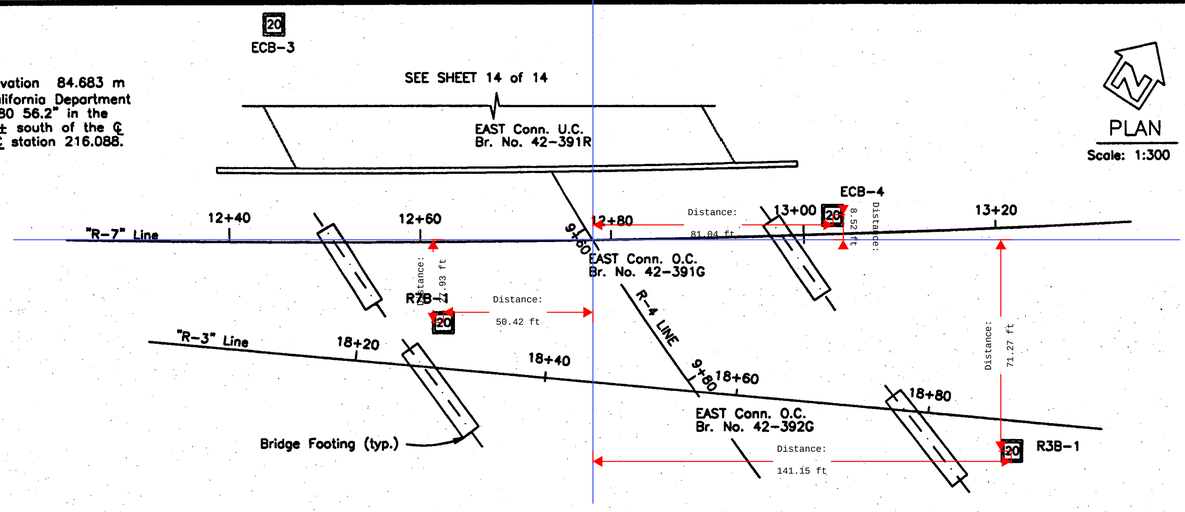
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BENCHMARK

F 180 56.2 Elevation 84.683 m
Fd 57 mm brass cap embossed "California Department of Transportation" stamped "BM F 180 56.2" in the west curb of Fruit Avenue, 73.2 m ± south of the ℄ of Dunn Avenue, 118.9 m right of ℄ station 216.088.

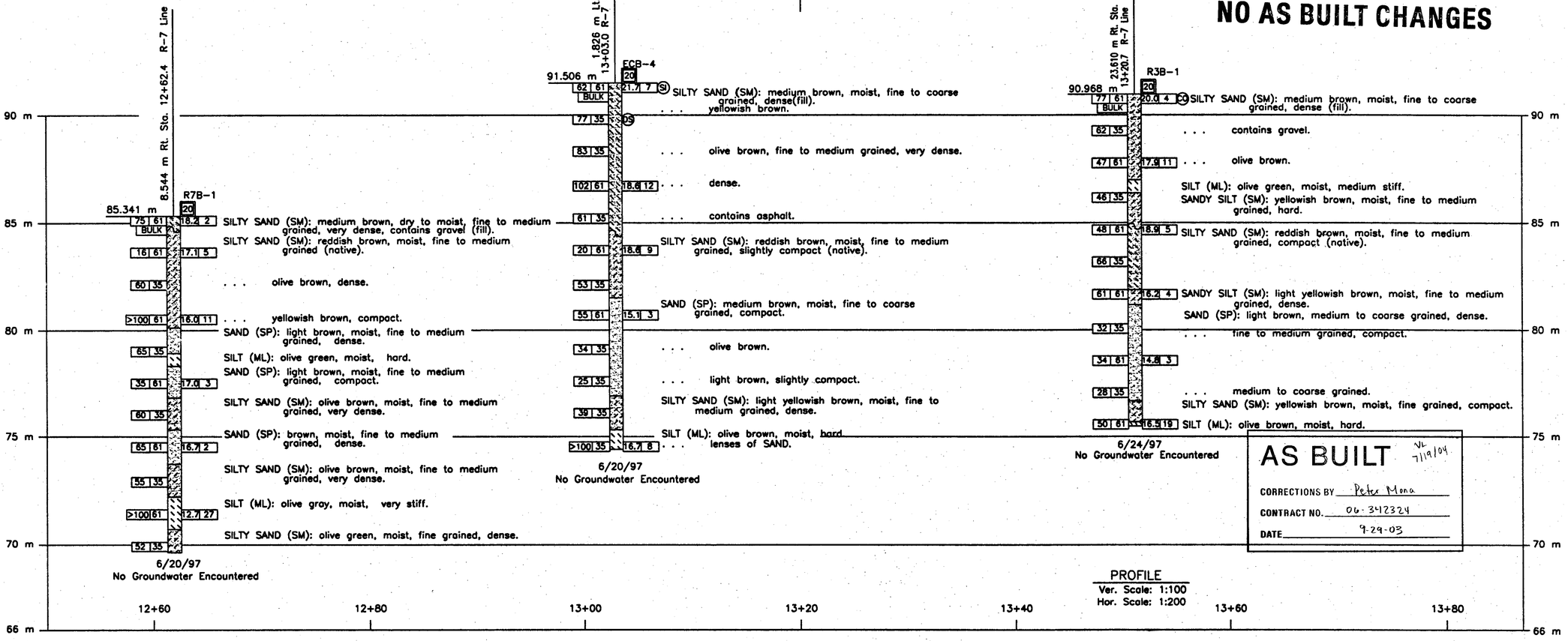
PLAN
Scale: 1:300

Caltrans Metric



NOTES:
1. Borings drilled with a truck mounted drill rig equipped with 20 cm dia. hollow stem auger.
2. Soil samples were obtained with a 61 mm I.D., 82 mm O.D., California Sampler and a 35 mm I.D. Standard Penetration Test (SPT) sampler driven with a 63.5 Kg hammer dropping 0.76 m using a rope and cat-head assembly.

NO AS BUILT CHANGES



AS BUILT VL 7/19/04
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-29-03

PROFILE
Ver. Scale: 1:100
Hor. Scale: 1:200

LEGEND OF BORING OPERATIONS

AUGER BORING — Top Hole D — Auger dia. in cm. — Casing driven — Size of sampler (mm) — Penetration Index (Blows/0.3 m) — Unconfined Compressive Strength (kPa) — Description of material — Unit weight (kN/m³) — Lab test see below — Undisturbed — Remolded — Conformable material change — Inferred material change — Unconformable material change — Lab tests — Sieve — Consolidity — Direct Shear — Atterburg Limits — Corrosivity — Boring date

57 mm CONE PENETRATION BORING — Top Hole D — No count recorded — Driving rate in seconds per 0.3 m (Blows per 0.3 m, hammer wt. in kg, hammer fall in cm, or as noted) — Description of material — Unit weight (kN/m³) — Lab test see below — Undisturbed — Remolded — Conformable material change — Inferred material change — Unconformable material change — Lab tests — Sieve — Consolidity — Direct Shear — Atterburg Limits — Corrosivity — Boring date

ELECTRONIC CONE PENETROMETER TEST — Top Hole D — Pressure measured on tip element (kg/cm²) — Friction Ratio(%) — Tip Bearing (kPa) — Boring data — Pressure measured behind friction sleeve (kg/cm²) — Pressure measured by pressure transducer on tip element — Dry Data measured — GPS — Boring date — Cone Penetrometer dimensions and testing procedures are in accordance with ASTM standard D-3441-75, as amended.

SAMPLE BORING (DRY) — Top Hole D — Ring dia. 12.7 cm (Using 63.5 kg hand hammer falling 46 cm Free fall) — Pulled pipe — Refusal — Boring Date — Description of material — Sample Taken — Groundwater Surface

57 mm CONE PENETROMETER — SAMPLE BORING (DRY) — ROTARY SAMPLE BORING (WET) — AUGER BORING (DRY) — TEST PIT — DIAMOND CORE BORING — JET BORING — ELECTRONIC CONE PENETROMETER

LEGEND OF EARTH MATERIALS
CLAY — SILTY CLAY — SILT — CLAYEY SILT — SAND — SILTY SAND — GRAVEL — SANDY CLAY — CLAYEY SAND — SILTY SAND — GRAVELLY SOILS — SEDIMENTARY ROCK — METAMORPHIC ROCK — IGNEOUS ROCK

SOIL TEST DESIGNATIONS
(SA) Sieve Analysis — (DS) Direct Shear — (R) R-Value — (AL) Atterburg Limits — (UC) Unconfined Compression — (CR) Corrosivity Test

CONSISTENCY CLASSIFICATION FOR SOILS
According to the Standard Penetration test

	Penetration Index (Blows/0.3 m)	Granular	Cohesive
	0-4	Very loose	Very Soft
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	20-34	Compact	Very stiff
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	>70	Very dense	Very hard

NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis

DESIGN OVERSIGHT	B2Harvey for JOEL ESCABAR	FIELD ENGINEER :	S. KAWATE 6/97
SIGNOFF DATE	4-18-01	DRAWN BY :	J. R. SCHNEIDER 11/97
		CHECKED BY :	G. P. HATTRUP, P. E. 11/97

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

George Hattrup, P. E.
PROJECT ENGINEER

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 20 40 60 80

CU 06
EA 342321

BRIDGE NO. 42-391G
KILOMETER POST 90.43

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

E180-N99 CONNECTOR OVERCROSSINGS
LOG OF TEST BORINGS NO. 1

REVISION DATES (PRELIMINARY STAGE ONLY)					SHEET	OF
11/24/97	02/12/98	06/04/98	12/28/98	03/27/01	13	14

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	368	461

Caltrans Metric

REGISTERED CIVIL ENGINEER — MICHAEL SCOTT TRAFFALIS, NO. C46883, EXP. 06/30/03, CIVIL — REGISTERED PROFESSIONAL ENGINEER, STATE OF CALIFORNIA

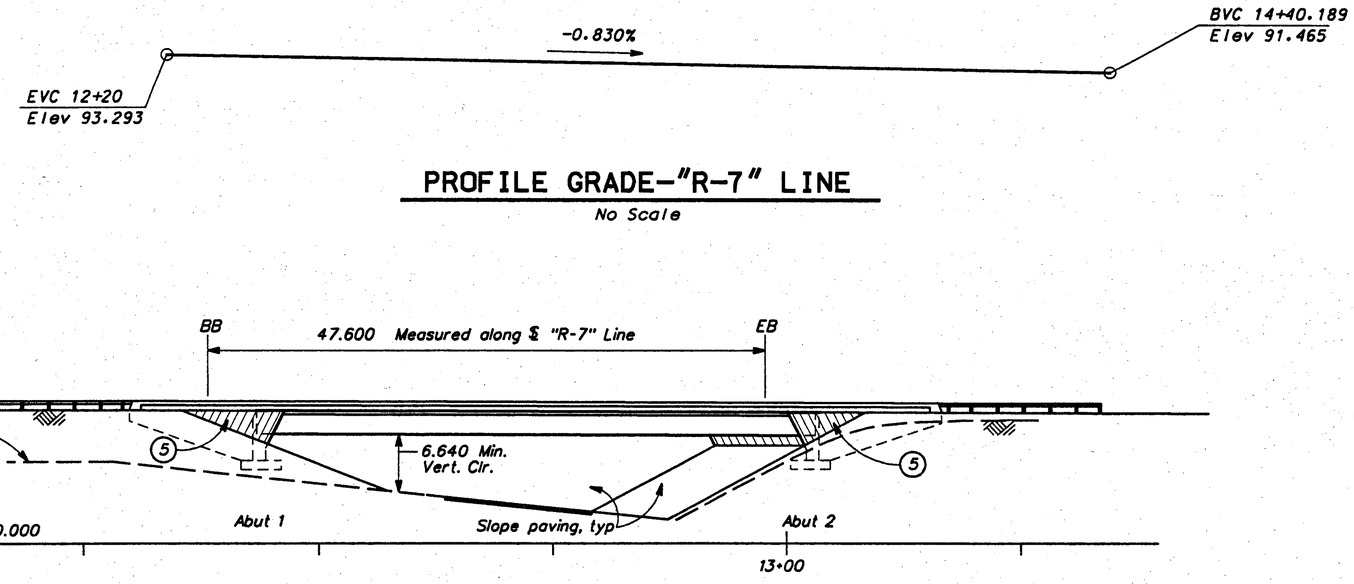
7-2-01
PLANS APPROVAL DATE

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA 95834

FRESNO COUNTY TRANSPORTATION AUTHORITY
2220 Tulare Street, Suite 411
Fresno, CA 93721

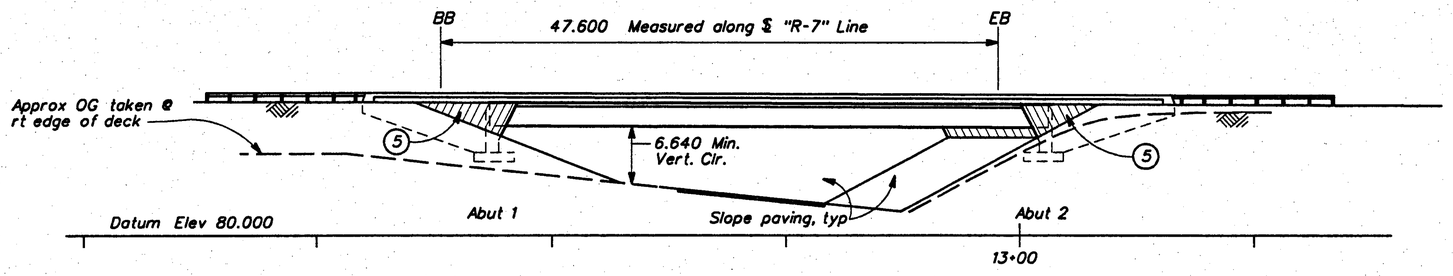
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PROFILE GRADE–"R-7" LINE

No Scale

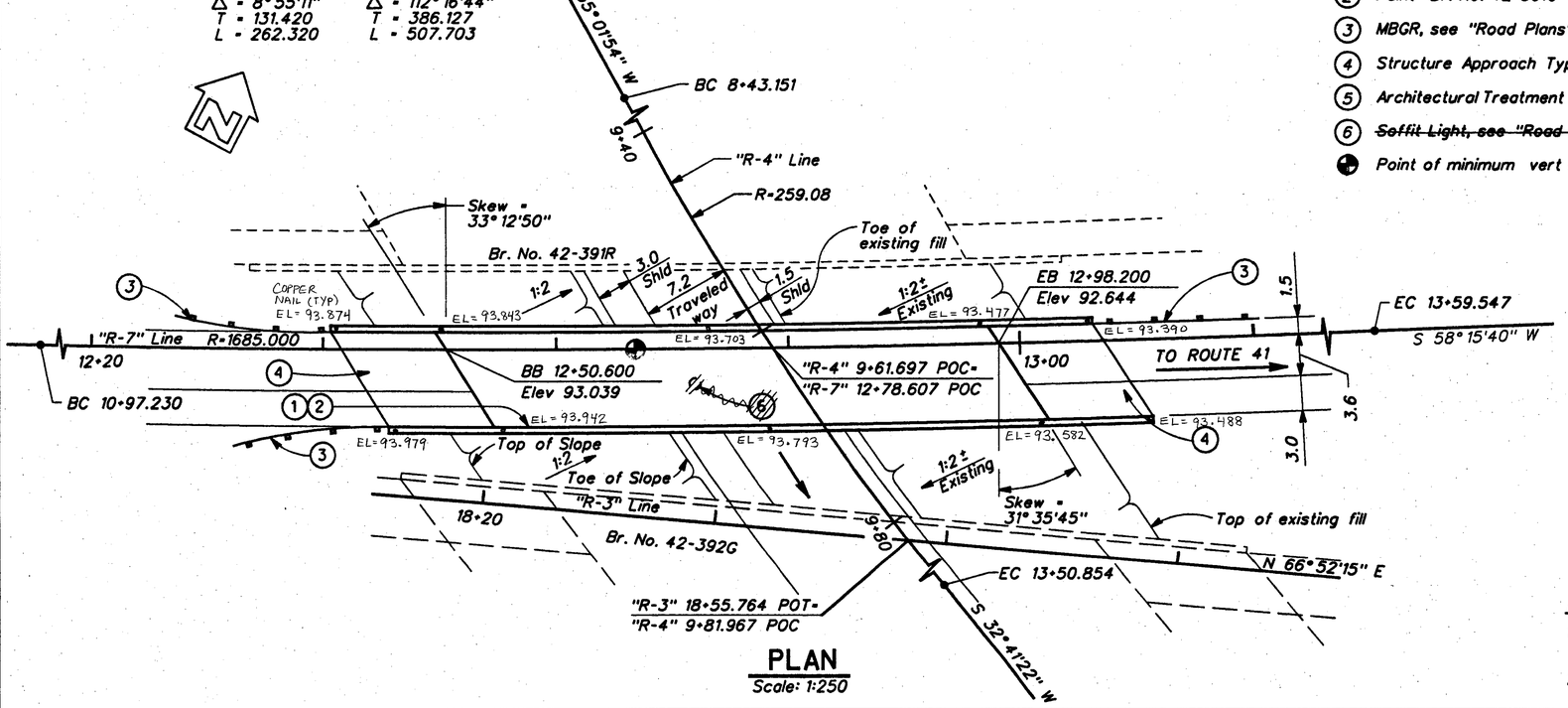


ELEVATION

Scale: 1:250

Curve Data

"R-7"	"R-4"
R = 1685.000	R = 259.08
Δ = 8°55'11"	Δ = 112°16'44"
T = 131.420	T = 386.127
L = 262.320	L = 507.703

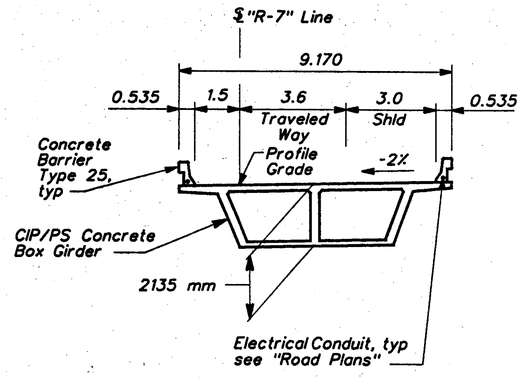


PLAN

Scale: 1:250

1. Paint "E 180-N 99 CONNECTOR O.C."
2. Paint "Br. No. 42-391G" and year constructed
3. MBGR, see "Road Plans"
4. Structure Approach Type N(9S)
5. Architectural Treatment
6. ~~Soffit Light, see "Road Plans"~~ Deleted

Point of minimum vert clearance



TYPICAL SECTION

Scale: 1:100

AS BUILT VL 6-17-04
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-29-03

QUANTITIES

STRUCTURE EXCAVATION (BRIDGE)	460	m^3
STRUCTURE BACKFILL (BRIDGE)	315	m^3
PRESTRESSING CAST-IN-PLACE CONCRETE	LUMP SUM	
STRUCTURAL CONCRETE, BRIDGE FOOTING	85	m^3
STRUCTURAL CONCRETE, BRIDGE	385	m^3
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N)	49	m^3
RIPPED TEXTURE (REINFORCING BAR)	90	m^2
JOINT SEAL (MR 50 MM)	20	m
BAR REINFORCING STEEL (BRIDGE)	45,000	kg
SLOPE PAVING (CONCRETE)	24	m^3
CONCRETE BARRIER (TYPE 25)	130	m

Notes:

1. For "General Notes" and "Index to Plans", see "Deck Contours" sheet
2. Elevation for existing approach fills are approximate.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

FILE: i12227/DGN/ecungp02.DGN 17-apr-01

Brent Maroney for Joel Escobar
DESIGN OVERSIGHT
4-18-01
SIGNOFF DATE

	BY	CHECKED	LOAD FACTOR DESIGN	Live Loading: HS20-44 and Alternative and Permit Design Load	
DESIGN	W. Ward	S. Liu/ J. Lee			
DETAILS	T. Burns	S. Kazmi	LAYOUT	W. Ward	J. Tehaney
QUANTITIES	W. Ward	C. Ramirez	SPECIFICATIONS	T. Tracy	PLANS AND SPECS COMPARED T. Tracy

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

M. Traffalis
PROJECT ENGINEER

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

CU 06222
EA 342321

BRIDGE NO.	E 180-N 99 CONNECTOR OVERCROSSING
42-391G	
KP (PM)	GENERAL PLAN
90.43(56.19)	

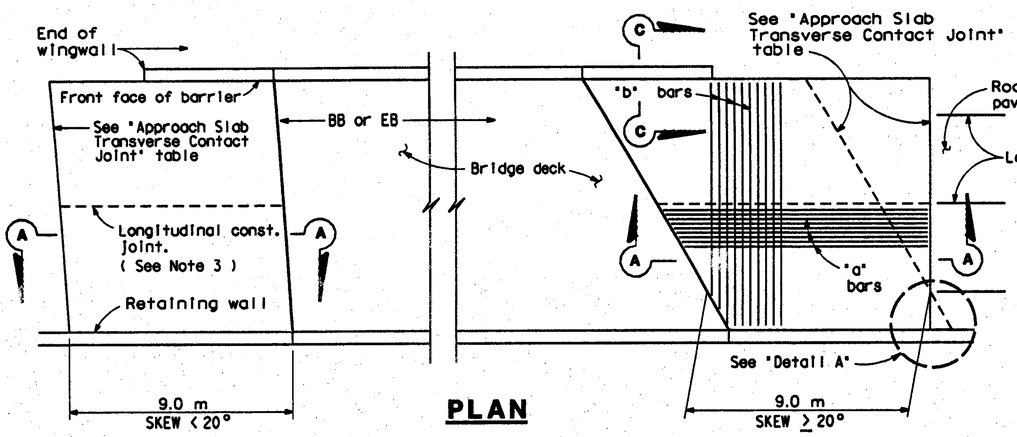
DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)									SHEET	OF
9/15/97	12/15/97	1/30/98	2/15/98	6/19/98	8/19/98	12/29/98	6/29/99	12/30/99	1	14

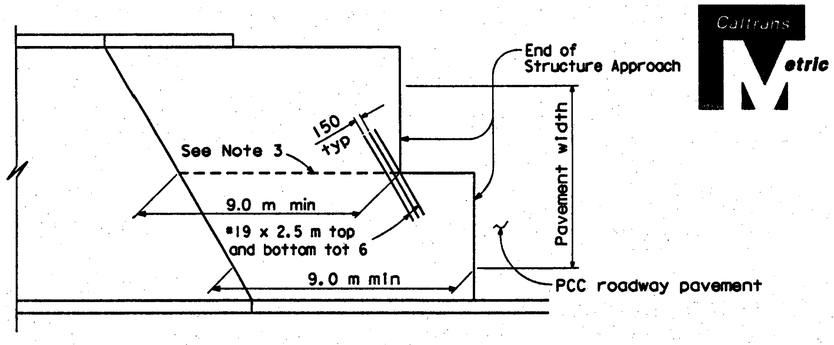
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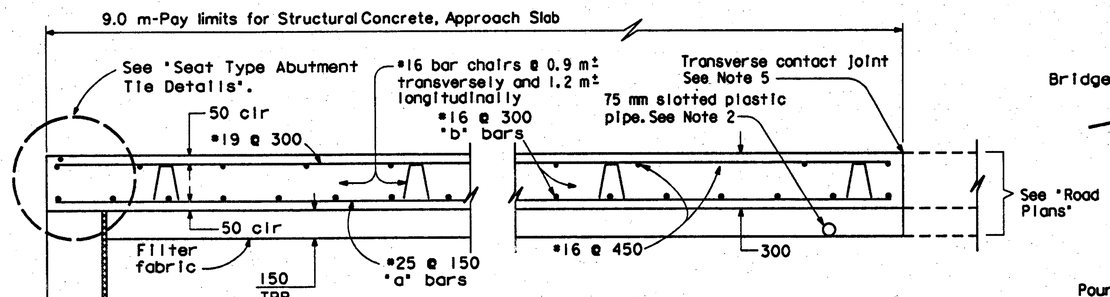
RELEASED 3-25-97



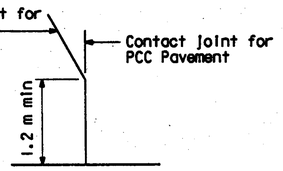
PLAN



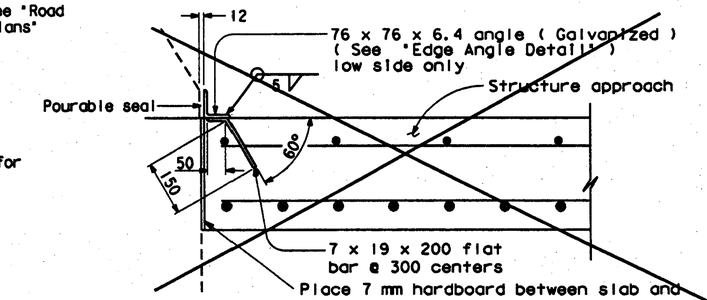
STRUCTURE APPROACH - END STAGGER DETAIL



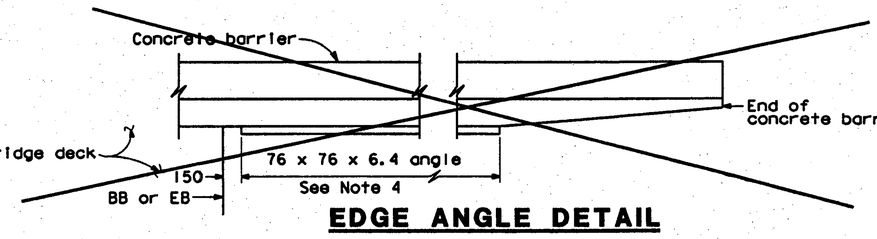
SECTION A-A



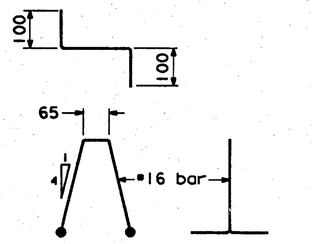
DETAIL A



DETAIL B

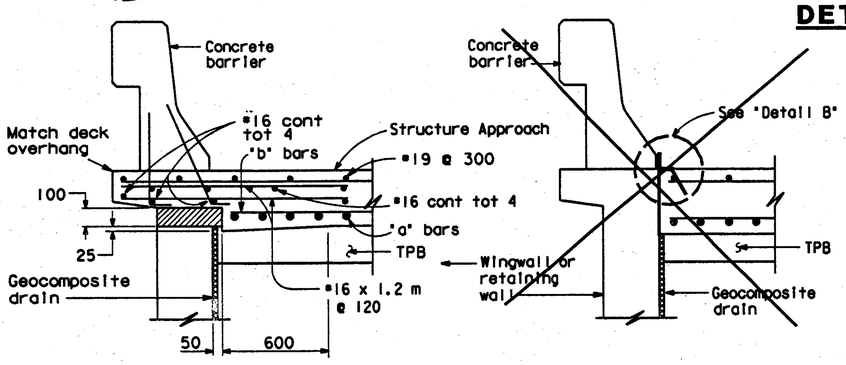


EDGE ANGLE DETAIL



BAR CHAIR DETAIL

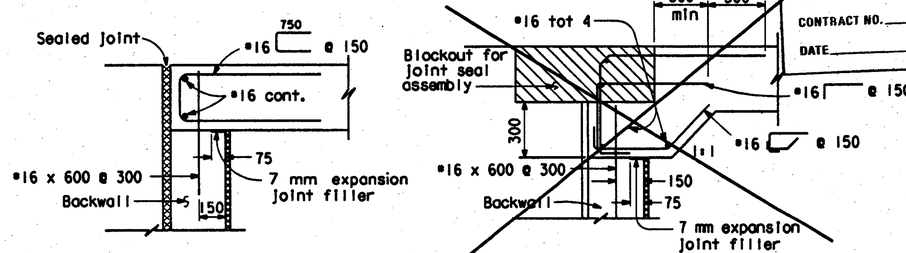
APPROACH SLAB TRANSVERSE CONTACT JOINT		
APPROACH SKEW	WITH AC ROADWAY PAVEMENT	WITH PCC ROADWAY PAVEMENT
< 20°	Parallel to face of paving notch	Parallel to face of paving notch
20° - 45°	Parallel to face of P N use (Detail A)	Stagger lines 7.2 m to 10.8 m apart.
> 45°	Parallel to face of P N use (Detail A)	Stagger at each lane line.



TYPE E-1 TYPE E-2

SECTION C-C

(Type E-1 to be used, unless otherwise shown on plans)



MR ≤ 50 mm MR > 50 mm

SEAT TYPE ABUTMENT TIE DETAILS (SEE NOTE 1)

AS BUILT VL 7/9/04
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-29-03

NOTES:

1. For details not shown, see Structure Plans. For MR ≤ 50 mm, adjust bar reinforcement to clear a sawcut for sealed joint, when required.
2. For drainage details, see 'Structure Approach Drainage Details' sheet.
3. Longitudinal construction joints, when permitted by the Engineer, shall be located on lane lines.
4. End angle at beginning of barrier transition, end of wingwall or end of structure approach, as applicable.
5. For transverse contact joint with new PCC paving, refer to Standard Plan A35-A.
6. At the contractor's option, approach slab transverse reinforcement may be placed parallel to paving notch. Spacing of transverse reinforcement is measured along ℄ roadway.

▨ Remove all polystyrene.

NO AS BUILT CHANGES

NO SCALE
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	377	461

REGISTERED ENGINEER - CIVIL
7-2-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL SCOTT TRAFFALIS — No. C46883 — Exp. 06/30/03 — CIVIL — STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA. 95834

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STANDARD DRAWING

FILE NO. XS 22-18	DESIGN	BY M. TRAFFALIS	CHECKED E. THORKILDSEN	APPROVAL RECOMMENDED BY
DRAWING DATE 8/92	DETAILS	BY R. YEE	CHECKED E. THORKILDSEN	DESIGN SUPERVISOR
	SUBMITTED BY M. MA			

DS OSD 2147A (METRIC) (REV. 2/25/97)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
DIVISION OF STRUCTURES
STRUCTURE DESIGN

CU 06222
EA 342321

BRIDGE NO.	E 180 - N 99 CONNECTOR OVERCROSSING
42-391G	
KILOMETER POST 90.43	STRUCTURE APPROACH TYPE N(9S)

DISREGARD PRINTS BEARING EARLIER REVISION DATES → REVISION DATES (PRELIMINARY STAGE ONLY): 1/30/98 | 2/05/98 | 6/01/98 | 6/19/98 | 12/29/98 | 6/21/99 | 12/30/99 | 3/27/00

SHEET 10 OF 14

F:\LIVE\12227\DGN\ECNWUND\2219\ECNW2218.DGN 17-APR-01

br42391G#10of14.tif

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RELEASED 3-26-97

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	379	461

Caltrans Metric

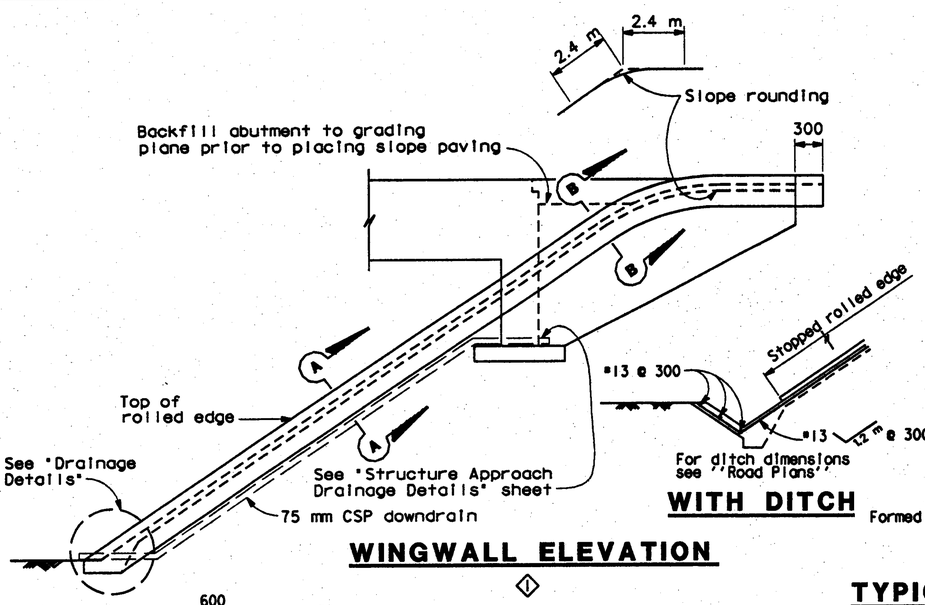
Michael Scott Traffalis
REGISTERED ENGINEER - CIVIL
7-2-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL SCOTT TRAFFALIS — No. C46883 — Exp. 06/30/03 — CIVIL — STATE OF CALIFORNIA

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3840 ROSIN COURT, STE. 200
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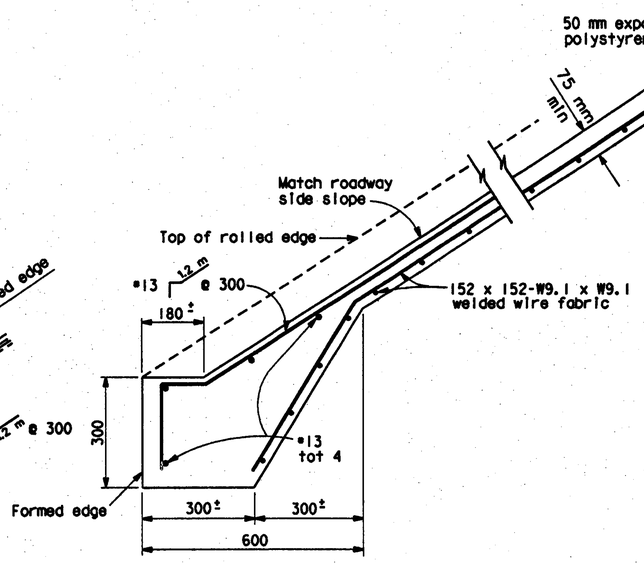
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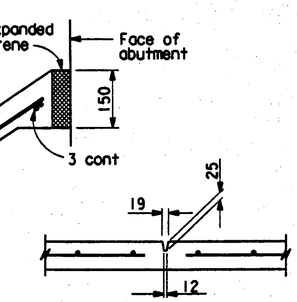


WINGWALL ELEVATION

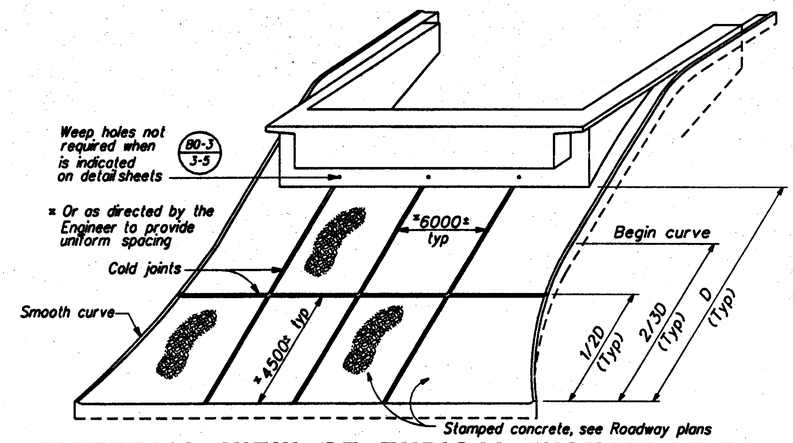
WITH DITCH



TYPICAL SECTION - CONCRETE PAVING

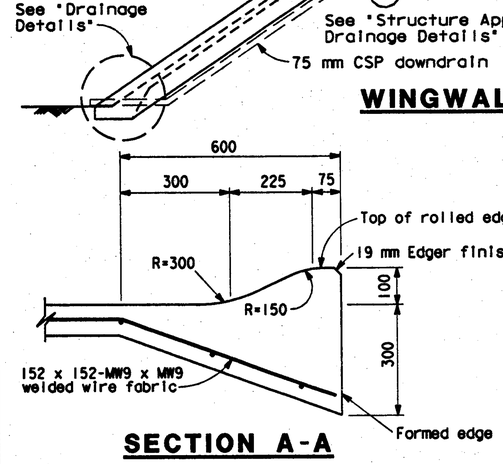


PREFORMED GROOVE

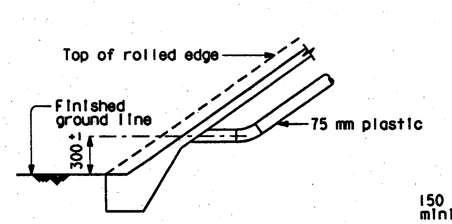


PICTORIAL VIEW OF TYPICAL INSTALLATION

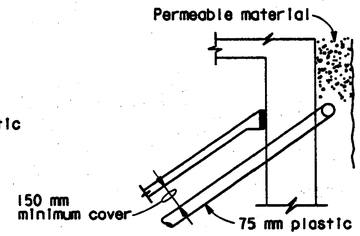
Note: For actual limits of slope paving on this project, see sketch below.



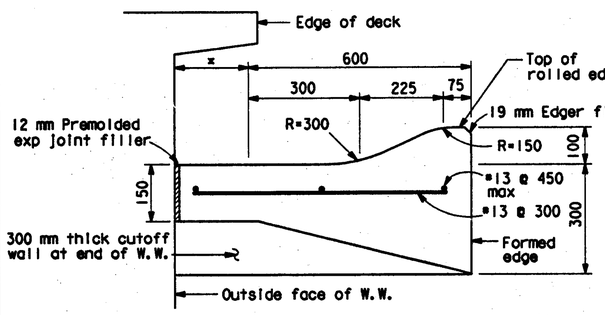
SECTION A-A



TYPICAL - NO CURB

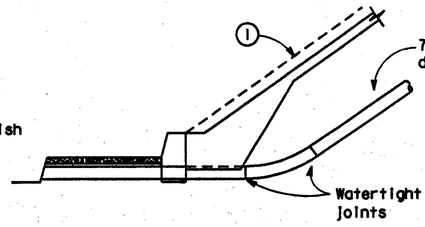


TYPICAL - DRAIN CONNECTION

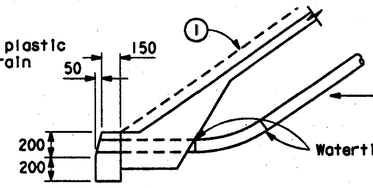


SECTION B-B

* This dimension becomes zero when edge of deck is at outside face of W.W.



TYPICAL - WITH SIDEWALK

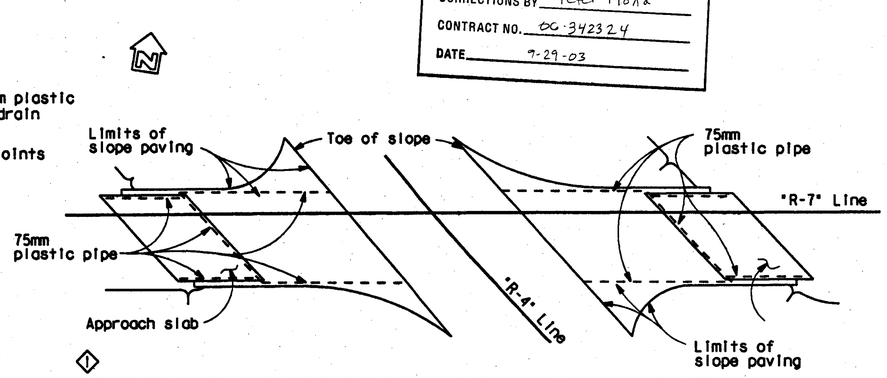


TYPICAL - WITH CURB

① DRAINAGE DETAILS

Note: Drainage details are only applicable when B0-3 3-5 is indicated on detail sheets.

① Top of rolled edge



① LIMITS OF SLOPE PAVING & DRAINAGE LAYOUT

NO SCALE

AS BUILT 7/19/04
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-29-03

NO AS BUILT CHANGES

"SPECIAL DETAILS"
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

STANDARD DRAWING
FILE NO. XS 22-11 | DESIGN BY | CHECKED | APPROVAL RECOMMENDED BY
DRAWING DATE Revised | DETAILS BY R. YEE | CHECKED
SUBMITTED BY C.W. PURKISS | DESIGN SUPERVISOR

① Revised Detail

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
DIVISION OF STRUCTURES
STRUCTURE DESIGN

BRIDGE NO. 42-391G
KILOMETER POST 90.43

E 180 - N 99 CONNECTOR OVERCROSSING
SLOPE PAVING - FULL SLOPE

CU 06222
EA 342321

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 1/30/98 | 2/05/98 | 6/04/98 | 6/15/98 | 12/28/98 | 6/24/99 | 12/30/99 | 3/21/01

SHEET 12 OF 14

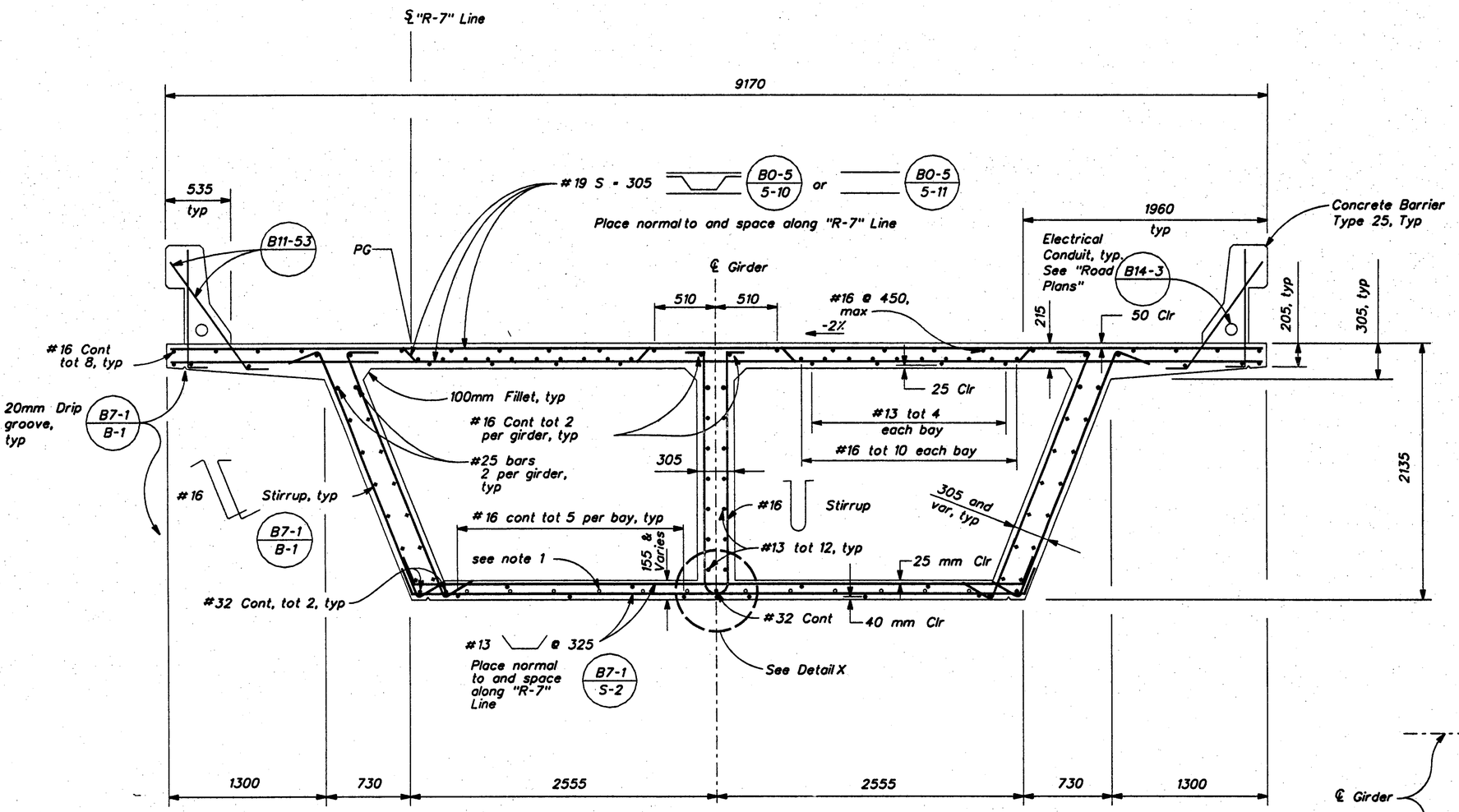
DS OSD 2147A (METRIC) (REV. 2/25/97)

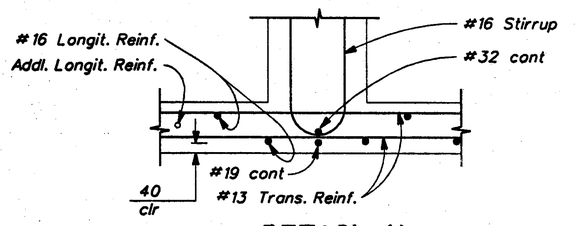
ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

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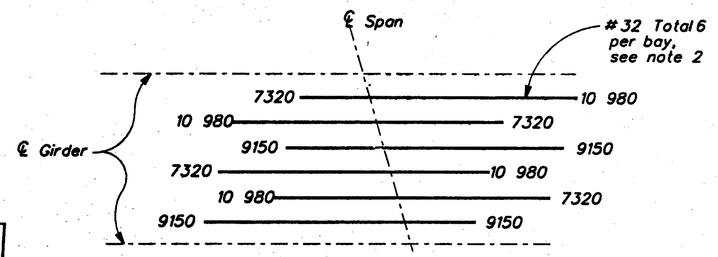
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DETAIL X
No Scale



Numbers at end of rebars indicate length in millimeters measured from the ℄ of span

ADDITIONAL LONGITUDINAL REINFORCEMENT-BOTTOM SLAB
No Scale

TYPICAL SECTION
Scale: 1:20

B0-5 B7-1 B8-5 B11-53

AS BUILT
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-29-03
7/19/04

NO AS BUILT CHANGES

NOTES

1. ○ Indicates additional mild reinforcement, See 'Additional Longitudinal Reinforcement-Bottom Slab'.
2. Additional mild steel shall have 80mm clearance to the bottom of soffit.

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	375	461

Michael Scott Traffalis
REGISTERED CIVIL ENGINEER
7-2-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL SCOTT TRAFFALIS — NO. C46883 — EXP. 06/30/03 — CIVIL — STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA 95834

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ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DESIGN	BY W.Ward	CHECKED S. Liu /J. Lee	
DETAILS	BY T. Burns	CHECKED S. Kazmi	
QUANTITIES	BY W. Ward	CHECKED C. Ramirez	

B.Mursey for Joel Escobar
DESIGN OVERSIGHT
4-18-01
SIGN OFF DATE

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

M. Traffalis
PROJECT ENGINEER

CU 06222
EA 342321

BRIDGE NO. 42-391G
KILOMETER POST 90.43

E180-N99 CONNECTOR OVERCROSSING
TYPICAL SECTION

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 10/15/97 | 7/30/98 | 2/05/99 | 8/04/99 | 6/19/00 | 12/22/00 | 5/24/99 | 12/30/99 | 3/27/01

SHEET 8 OF 14

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California Department of Transportation
Division of Maintenance

Structure Maintenance and Investigations

BRIDGE

INSPECTION

RECORDS

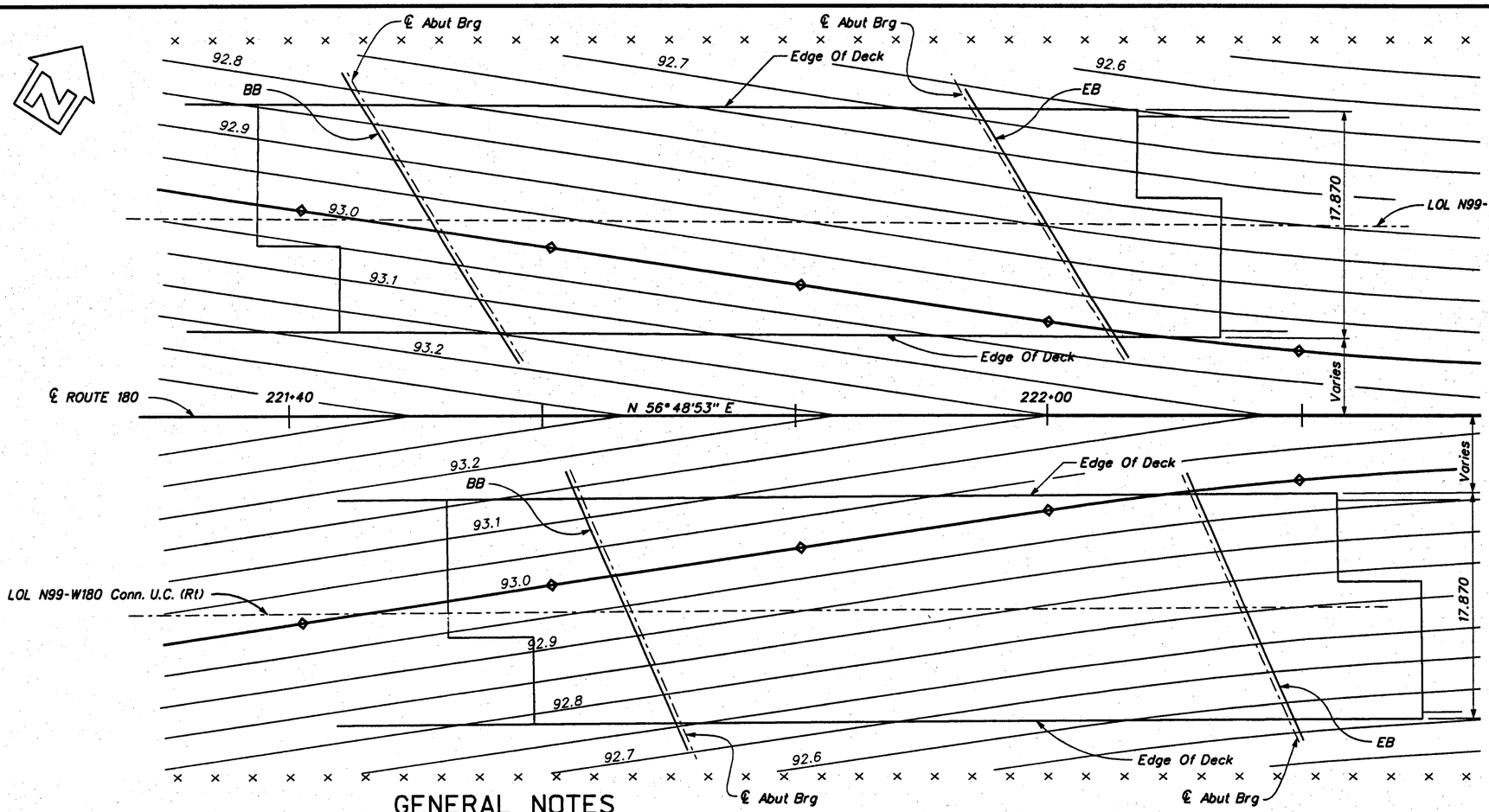
INFORMATION

SYSTEM

The requested documents have been generated by BIRIS.

These documents are the property of the California Department of Transportation and should be handled in accordance with Deputy Directive 55 and the State Administrative Manual.

Records for “Confidential” bridges may only be released outside the Department of Transportation upon execution of a confidentiality agreement.



PLAN
Scale: 1:200

GENERAL NOTES
LOAD FACTOR DESIGN

DESIGN: BRIDGE DESIGN SPECIFICATIONS (1983 AASHTO with Interims and Revisions by CALTRANS)

DEAD LOAD : Includes 1.68 KPa for future wearing surface

LIVE LOADING: HS20-44 and alternative and permit design load

REINFORCED CONCRETE: f'c = 28 MPa, unless otherwise noted
fy = 420 MPa
n = 8
Transverse deck slab (Working Stress Design)
fc = 8.3 MPa
fs = 138 MPa
n = 10

PRESTRESS CONCRETE : See "Prestressing Notes" on "Girder Layout No. 1" and "Girder Layout No. 2" sheets

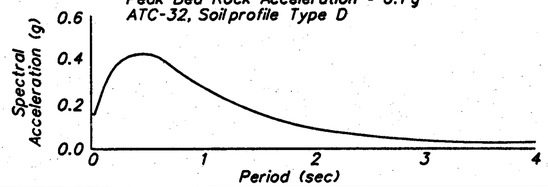
FOOTING PRESSURE: (SERVICE LOADS)

	ALLOWABLE (KPa)	DESIGN (KPa)
Abut 1	190	190
Abut 2	190	190

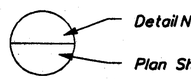
Ultimate bearing capabilities may be taken as three (3) times the allowable capacities.

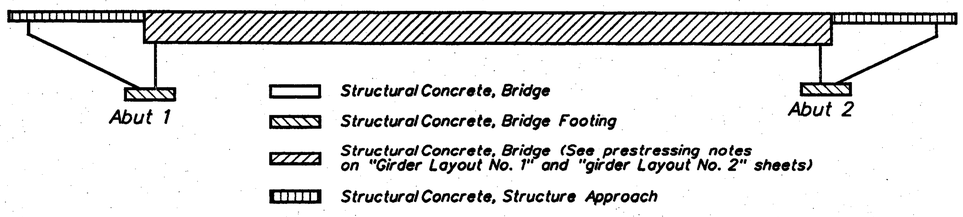
SEISMIC LOADING: The following ARS Curve was used in evaluating the structures seismic response

Magnitude: 7.25 ± 0.25
Peak Bed Rock Acceleration = 0.1 g
ATC-32, Soil profile Type D



Notes:
1. Contour interval is 0.05 m.
2. Contours do not include camber.
3. × - Indicates 3 meter interval along station line.
4. □ - Indicates Even Meter Contours.





CONCRETE STRENGTH AND TYPE LIMITS
No Scale

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	449	461

Michael Scott Traffalis
REGISTERED CIVIL ENGINEER
7-2-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL SCOTT TRAFFALIS — No. C46883 — Exp. 06/30/03 — CIVIL — STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
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INDEX TO PLANS

Sheet No.	Title
1	General Plan
2	Deck Contours
3	Foundation Plan
4	Abutment Layout
5	Abutment Details No. 1
6	Abutment Details No. 2
7	Abutment Details No. 3
8	Typical Section
9	Girder Layout No. 1
10	Girder Layout No.2
11	Structure Approach Type N(93)
12	Structure Approach Drainage Details
13	Slope Paving - Full Slope
14	Log of Test Borings

NO AS BUILT CHANGES

AS BUILT VL 7/19/04
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-30-03

STANDARD PLANS DATED JULY 1999

A10A	ABBREVIATIONS
A10B	SYMBOLS
A62C	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL - BRIDGE
B0-1	BRIDGE DETAILS
B0-3	BRIDGE DETAILS
B0-5	BRIDGE DETAILS
B0-13	BRIDGE DETAILS
B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 50 mm)
B7-1	BOX GIRDER DETAILS
B7-10	UTILITY OPENING - BOX GIRDER
B8-5	CAST-IN-PLACE PRESTRESSED GIRDER DETAILS
B11-53	CONCRETE BARRIER TYPE 25
B14-3	COMMUNICATION & SPRINKLER CONTROL CONDUITS (CONDUITS LESS THAN SIZE 103)

BZ Massey for Joel Escabar
DESIGN OVERSIGHT
4-18-01
SIGN OFF DATE

DESIGN	BY G. Lingor	CHECKED F. Feng	
DETAILS	BY T. Burns	CHECKED S. Kazmi	
QUANTITIES	BY G. Lingor	CHECKED D. Paulis	

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

M. Traffalis
PROJECT ENGINEER

CU 06222
EA 342321

BRIDGE NO. 42-312L/R
KILOMETER POST 90.79

N99-W180 CONNECTOR UNDERCROSSING
DECK CONTOURS

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 7/14/01 | 7/5/01 | 7/26/01 | 7/16/01 | 8/15/01 | 8/29/01 | 8/24/01 | 8/29/01 | 3/27/01

SHEET 2 OF 14

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	450	461

Caltrans Metric

REGISTERED CIVIL ENGINEER

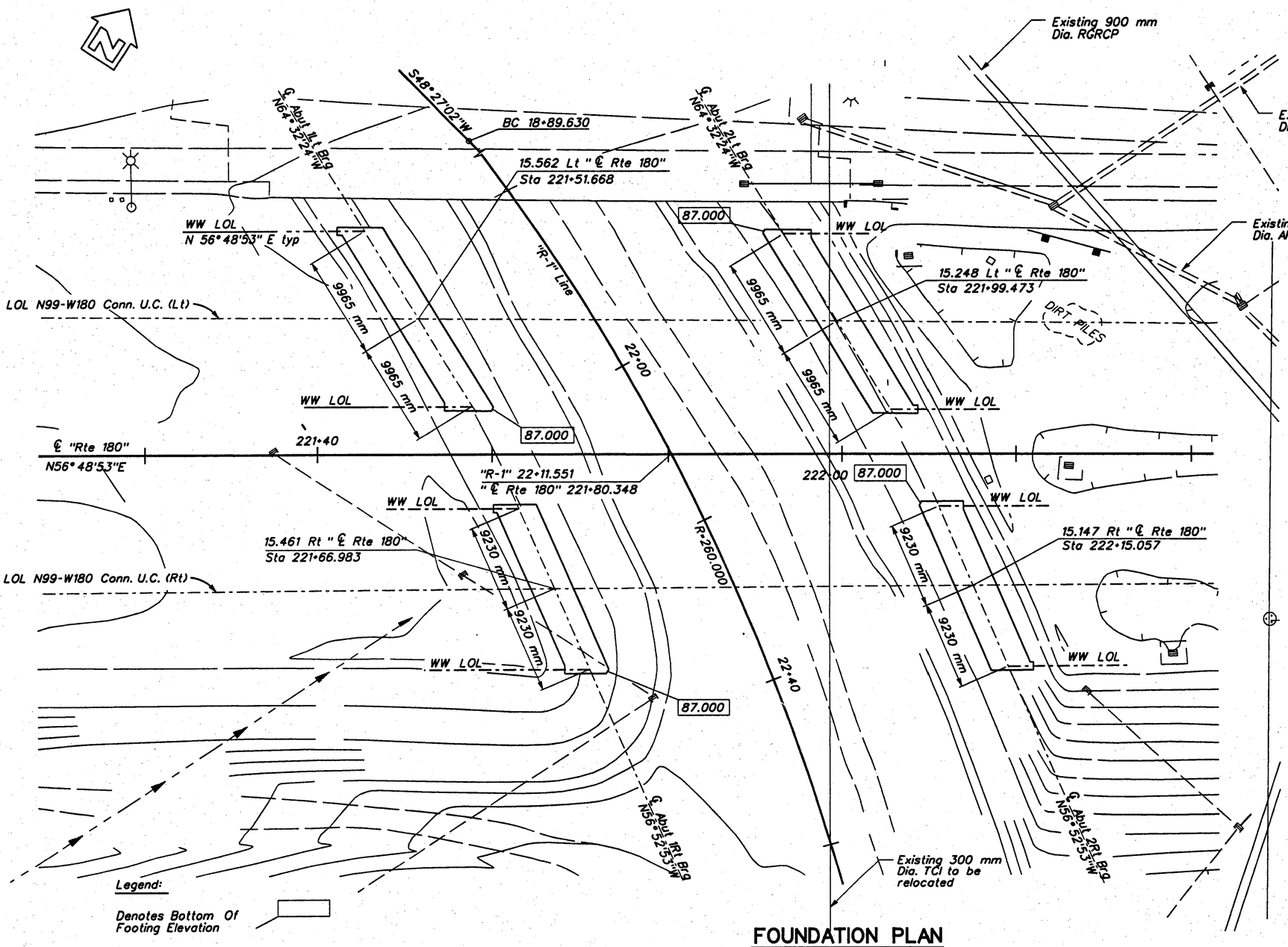
7-2-01
PLANS APPROVAL DATE

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FOUNDATION PLAN
Scale: 1:250

Bench Marks

"BM" F180 56.2 Elev 84.682
0.686 m brass cap embossed "California Department of Transportation" stamped "BM" "F180 56.2" in the west curb of Fruit Ave. Approx 73.17 m south of the centerline of Dunn Ave. and approx 118.9 m right of centerline Sta 216+60±.
N 656213.497, E 1926981.531

"BM" F180 56.4 Elev 85.610
0.686 m brass cap embossed "California Department of Transportation" stamped "BM" "F180 56.4" at the southwest corner of Thorne Ave. and Dunn Ave. In the west curb of Thorne Ave. approx 1.52 m south of the ECR of Dunn Ave. at the street light approx 262.2 m right of the centerline Sta 220+13±.
N 656276.592, E 1927389.000

Curve Data
"R-1" Line

R = 260.000m
Δ = 84°10'52"
T = 234.850m
L = 382.002m

NO AS BUILT CHANGES

AS BUILT VL 7/19/04

CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-30-03

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

FILE: c:\projects\standard\dgn\fndb6r.dgn 17-apr-01

Morgan P. Waltze — REGISTERED PROFESSIONAL ENGINEER — 25 MORGAN WAYNE

B.C. Massey Jr. / Joel Escabar — DESIGN OVERSIGHT — 4-18-01 — SIGNOFF DATE	PHOTOGRAMMETRY AS OF: 4-16-97		DRAWN	BY Radman Aerial Surveys	DESIGN	BY G. Lingor	CHECKED F. Feng
	SURVEYED	BY Psomas & Assoc.	TRACED	BY Intergraph	DETAILS	BY T. Burns	CHECKED S. Kazmi
	FIELD CHECKED	BY Psomas & Assoc.	CHECKED	BY	QUANTITIES	BY G. Lingor	CHECKED D. Paulis

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

M. Traffalis — PROJECT ENGINEER

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

CU 06222
EA 342321

BRIDGE NO. 42-312L/R
KILOMETER POST 90.79

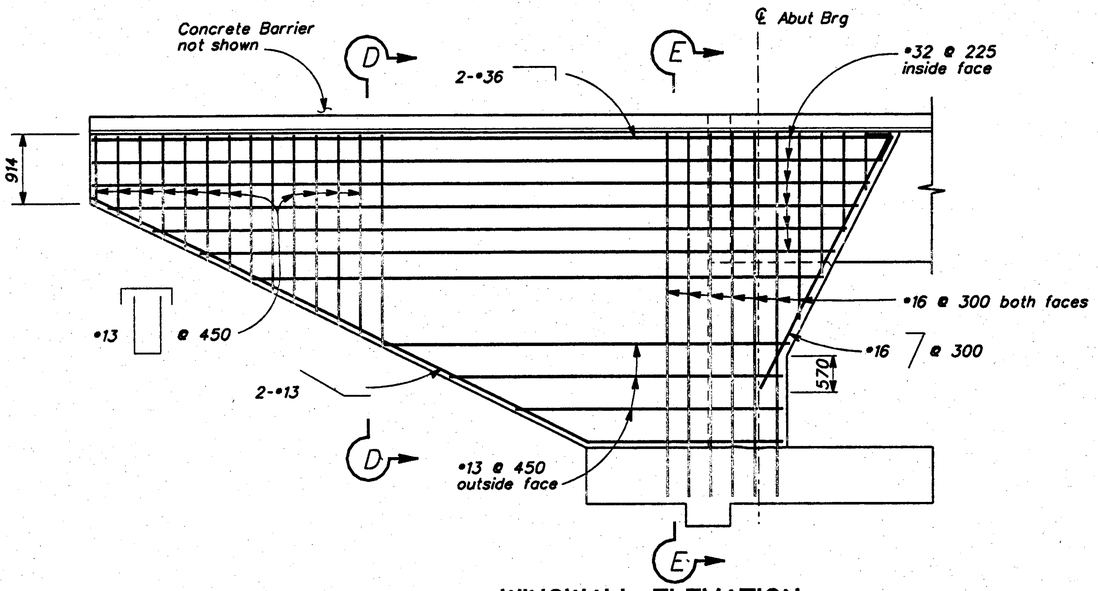
N99-W180 CONNECTOR UNDERCROSSING
FOUNDATION PLAN

DISREGARD PRINTS BEARING EARLIER REVISION DATES → REVISION DATES (PRELIMINARY STAGE ONLY): 12/14/97 | 12/18/97 | 1/5/98 | 1/30/98 | 2/16/98 | 6/15/98 | 12/22/98 | 6/24/99 | 12/30/99 | 3/27/01

SHEET 3 OF 14

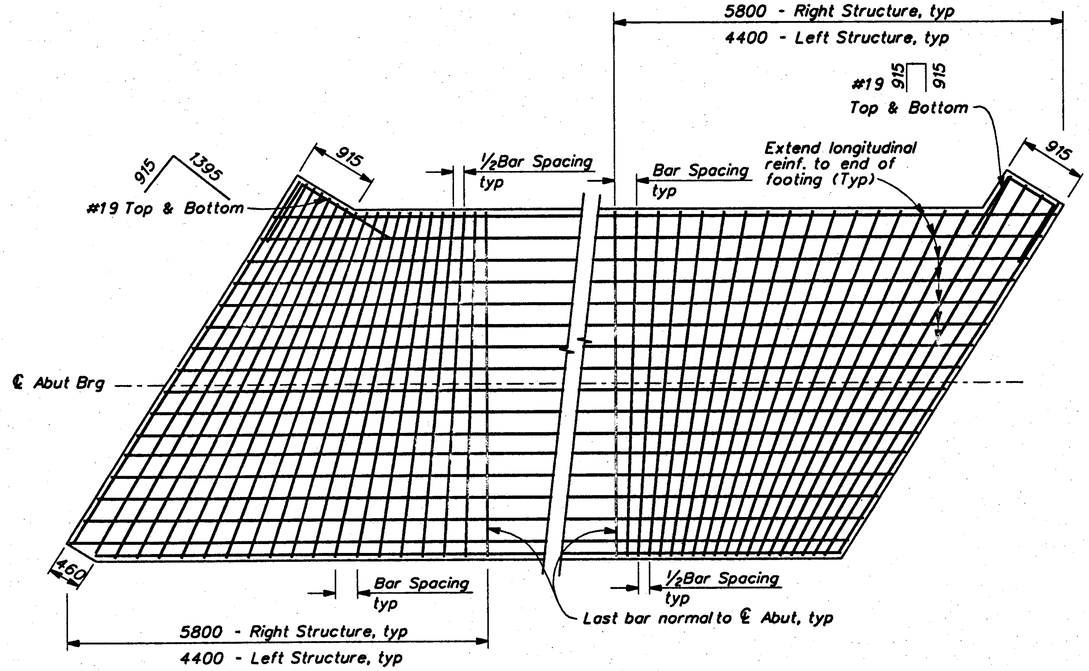
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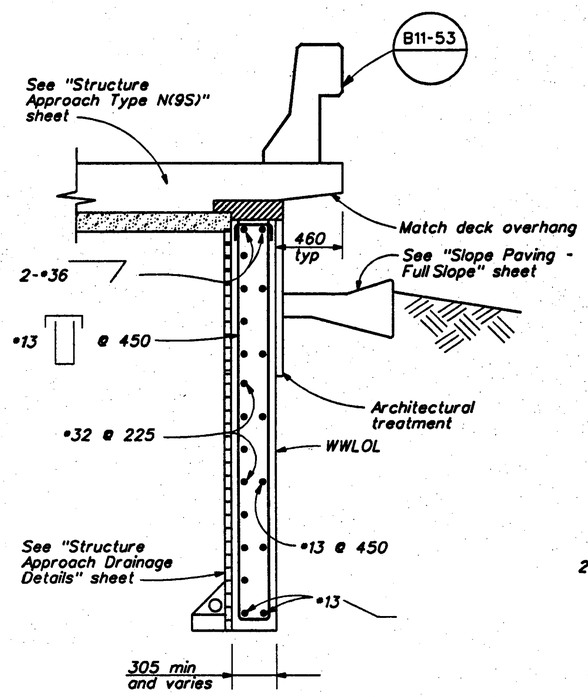
WINGWALL ELEVATION

No Scale



FOOTING CORNER DETAILS

Scale: 1:40



SECTION D–D

Scale: 1:20

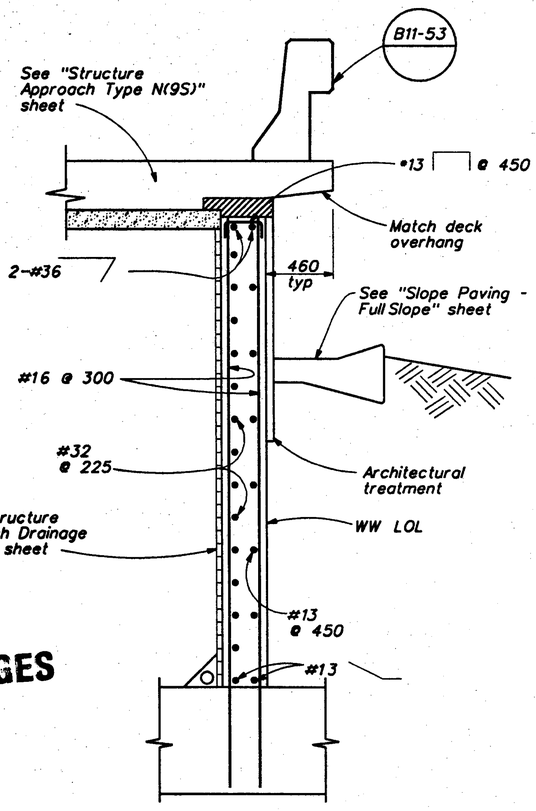
AS BUILT VL 7/19/04

CORRECTIONS BY Peter Mona

CONTRACT NO. 06-342324

DATE 9-30-03

NO AS BUILT CHANGES



SECTION E-E

Scale: 1:20

Note: Footing reinforcement not shown for clarity

NOTE:

1. "Footing Corner Details" and "Wingwall Elevation" are shown for Abutment 1 - Right Structure, other abutments similar.

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	454	461

Michael Scott Traffalis
REGISTERED CIVIL ENGINEER

7-2-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL SCOTT TRAFFALIS — No. C46883 — Exp. 06/30/03 — CIVIL — STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA 95834

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ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DESIGN	G. Lingor	F. Feng	
DETAILS	T. Burns	S. Kazmi	
QUANTITIES	G. Lingor	D. Paulis	

BC Mersey for Joel Escabar
DESIGN OVERSIGHT
4-18-01
SIGN OFF DATE

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

M. Traffalis
PROJECT ENGINEER

CU 06222
EA 342321

BRIDGE NO. 42-312L/R
KILOMETER POST 90.79

N99-W180 CONNECTOR UNDERCROSSING
ABUTMENT DETAILS NO. 3

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 12/24/98 | 7/30/99 | 2/05/99 | 8/19/99 | 12/22/99 | 8/24/99 | 12/30/99 | 3/27/01

SHEET 7 OF 14

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	452	461

REGISTERED CIVIL ENGINEER — MICHAEL SCOTT TRAFFALIS, No. C46883, Exp. 06/30/03, CIVIL, REGISTERED PROFESSIONAL ENGINEER, STATE OF CALIFORNIA

7-2-01
PLANS APPROVAL DATE

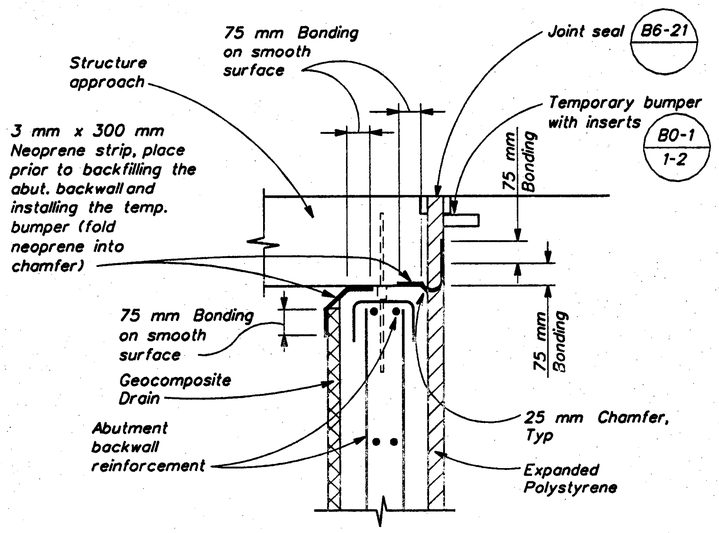
PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA. 95834

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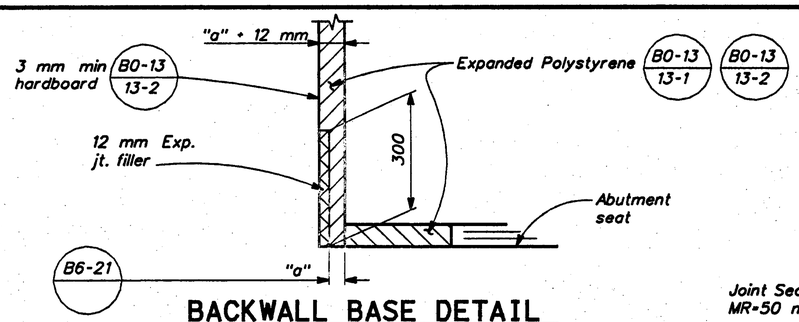
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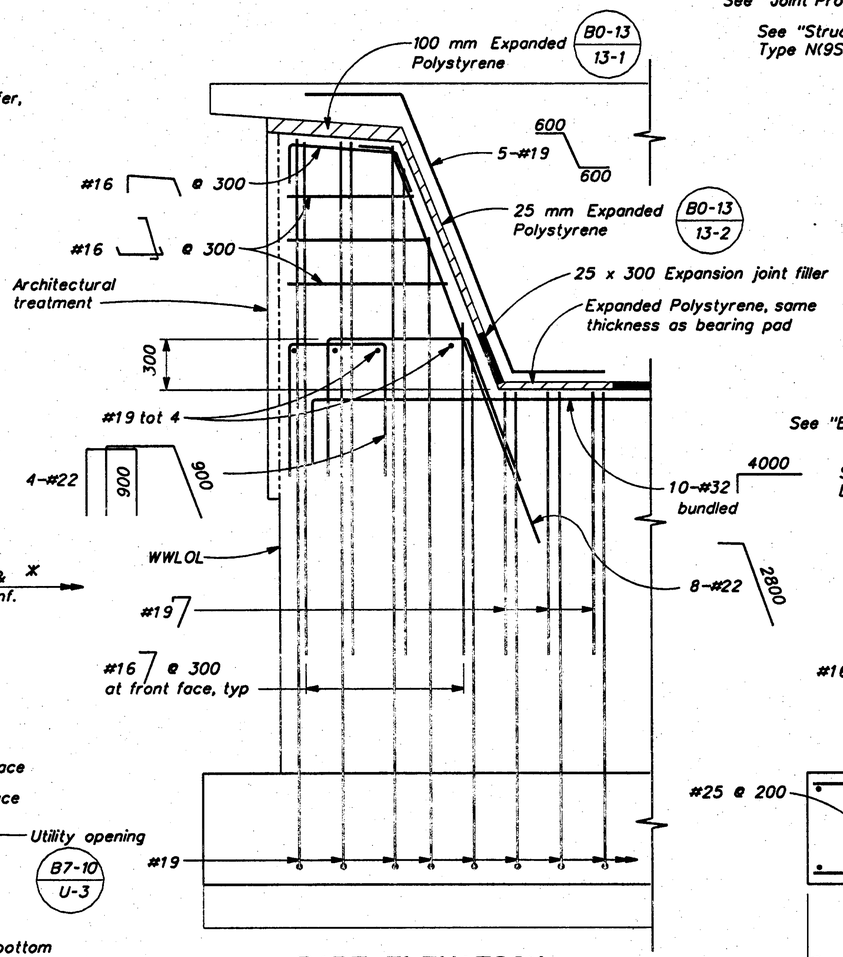
NO AS BUILT CHANGES
AS BUILT 7/19/04 VL
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-30-03



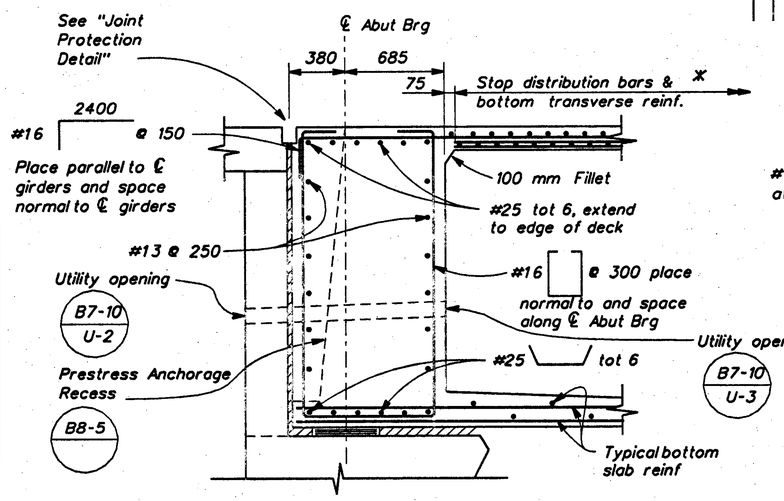
JOINT PROTECTION DETAIL
Scale: 1:10



BACKWALL BASE DETAIL
No Scale

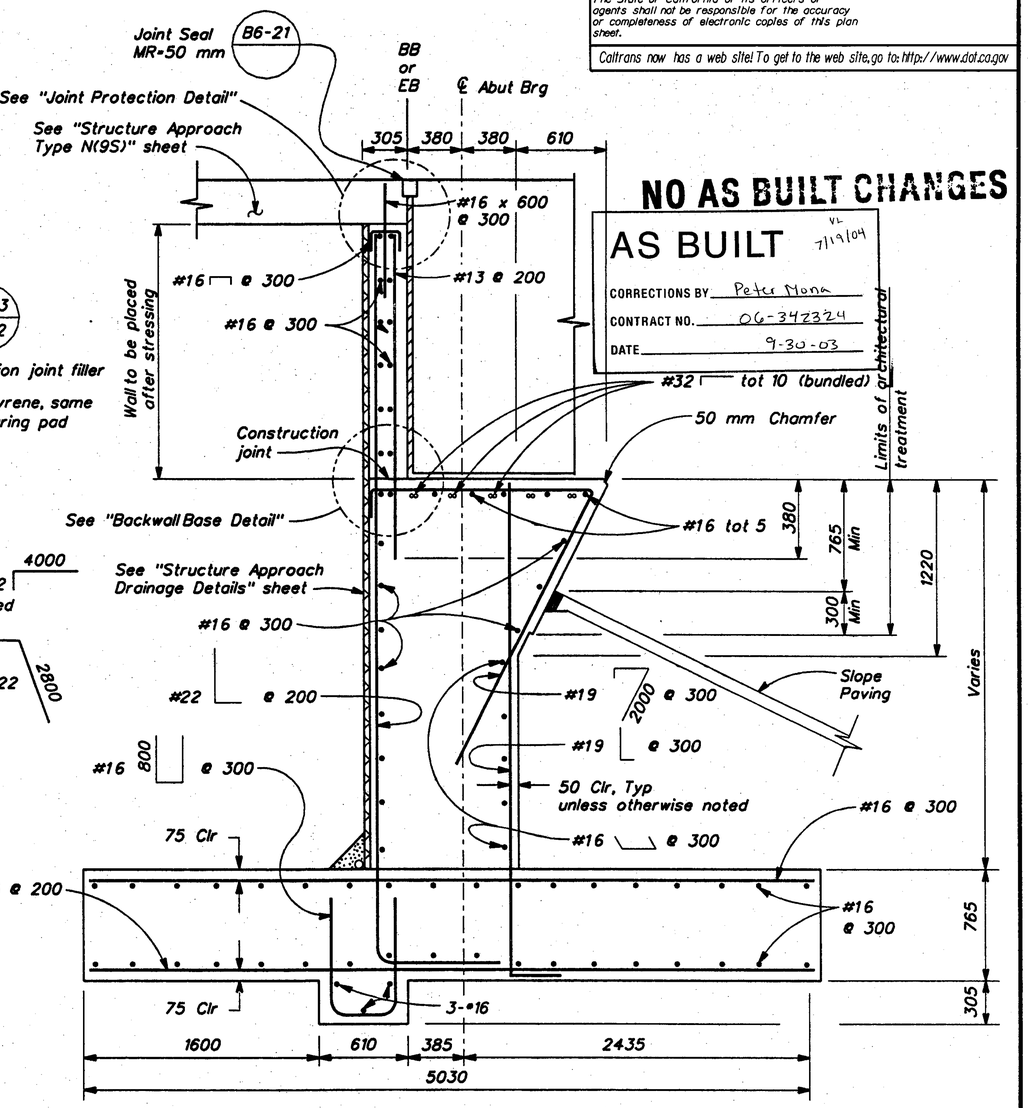


PART ELEVATION
Scale: 1:20



END DIAPHRAGM SECTION
Scale 1:20

* See girder layout sheet 1 and 2 for distribution steel



ABUTMENT SECTION
Scale: 1:20

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DESIGN	BY G. Lingor	CHECKED F. Feng	
DETAILS	BY T. Burns	CHECKED S. Kazmi	
QUANTITIES	BY G. Lingor	CHECKED D. Paulis	

Be Marry fo Joel Escabar
DESIGN OVERSIGHT
4-18-01
SIGN OFF DATE

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

M. Traffalis
PROJECT ENGINEER

CU 06222
EA 342321

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

BRIDGE NO. 42-312L/R
KILOMETER POST 90.79

N99-W180 CONNECTOR UNDERCROSSING
ABUTMENT DETAILS NO. 1

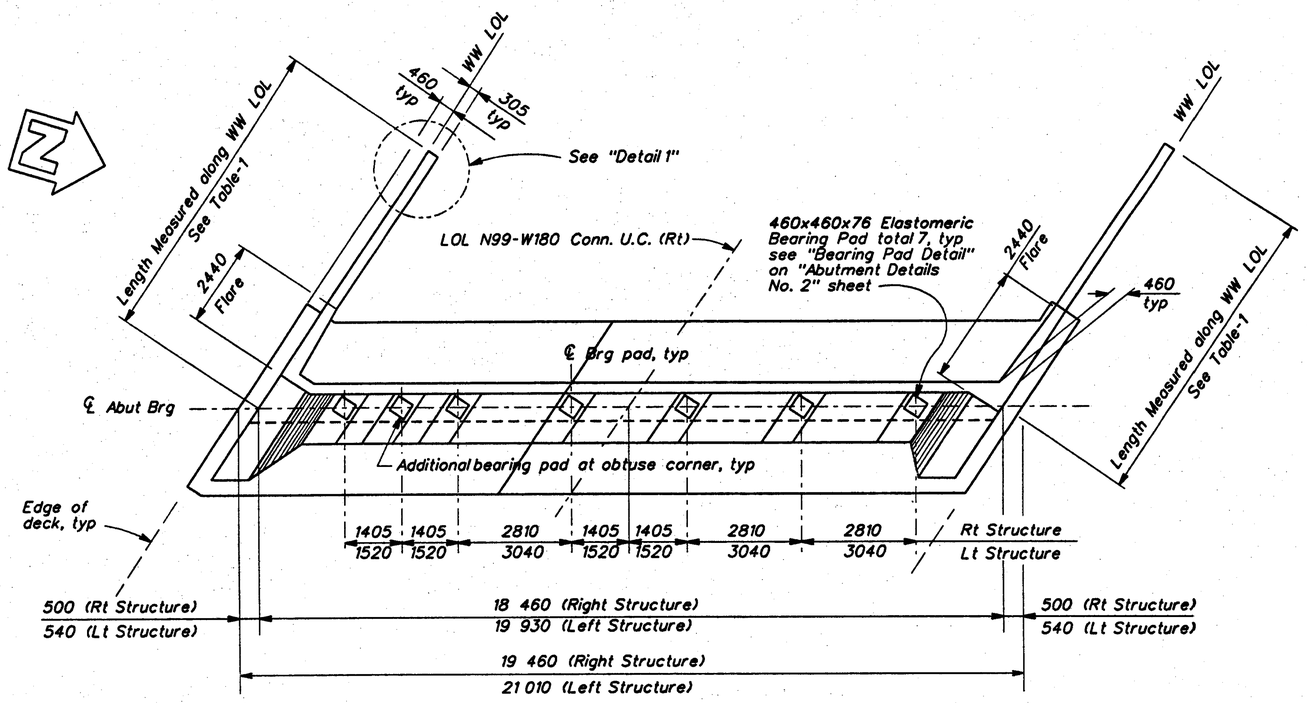
DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)									SHEET	OF
10/15/97	1/20/98	2/05/98	2/19/98	2/27/98	5/21/98	12/28/99	3/27/01		5	14

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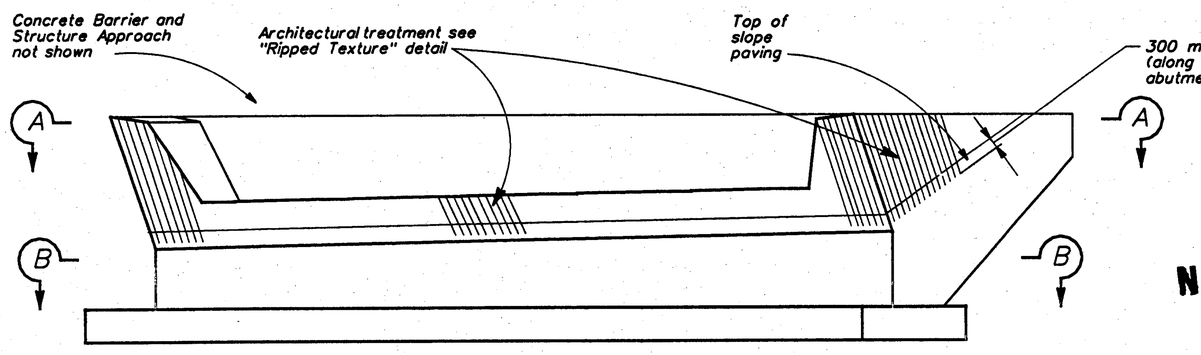
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PLAN

Abutment 1 - Right Structure shown, other abutments similar

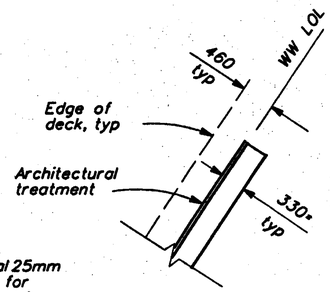
Scale: 1:80



ELEVATION

Abutment 1 - Right Structure shown, other abutments similar

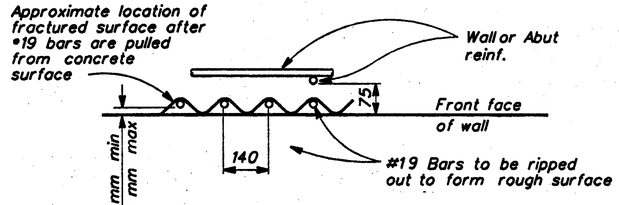
Scale: 1:80



* Includes additional 25mm of concrete cover for architectural treatment

DETAIL 1

No Scale



(ARCHITECTURAL TREATMENT)

RIPPED TEXTURE

No Scale

AS BUILT VL 7/9/04
CORRECTIONS BY: Peter Hong
CONTRACT NO.: 06-342324
DATE: 9-30-03

NO AS BUILT CHANGES

TABLE-1 (Wingwall Lengths)

Location	North	South
Abut 1, Right Str.	9150	8750
Abut 2, Right Str.	9150	8750
Abut 1, Left Str.	8750	9150
Abut 2, Left Str.	9150	9150

NOTES:

1. *Footing key in "Elevation" not shown.*
2. *For "Sections A-A" and "Section B-B" see "Abutment Details No. 2" sheet.*

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	451	461

Michael Scott Traffalis
REGISTERED CIVIL ENGINEER
7-2-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL SCOTT TRAFFALIS — No. C46883 — Exp. 06/30/03 — CIVIL — STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA 95834

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BC Massey for Joel Escabar
DESIGN OVERSIGHT
4-18-01
SIGN OFF DATE

	BY	CHECKED
DESIGN	G. Lingor	F. Feng
DETAILS	T. Burns	S. Kazmi
QUANTITIES	G. Lingor	D. Paulis

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

M. Traffalis
PROJECT ENGINEER

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

CU 06222
EA 342321

BRIDGE NO. 42-312L/R
KILOMETER POST 90.79

N99-W180 CONNECTOR UNDERCROSSING
ABUTMENT LAYOUT

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

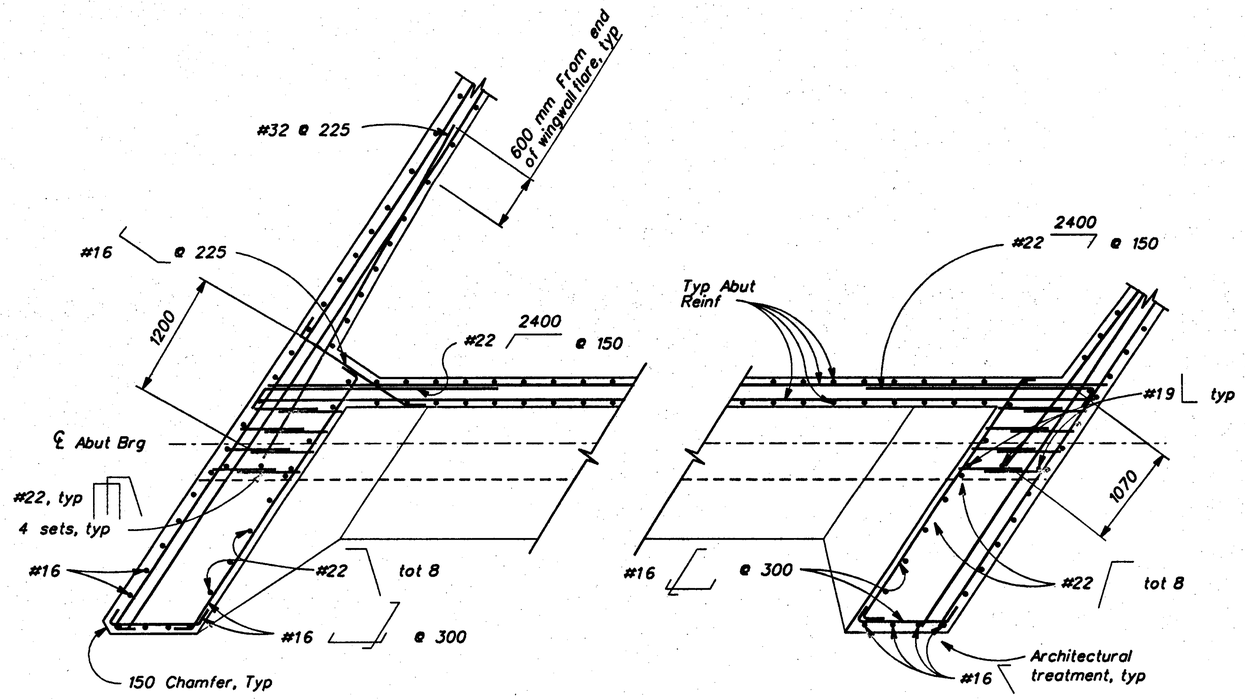
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SHEET 4 OF 14

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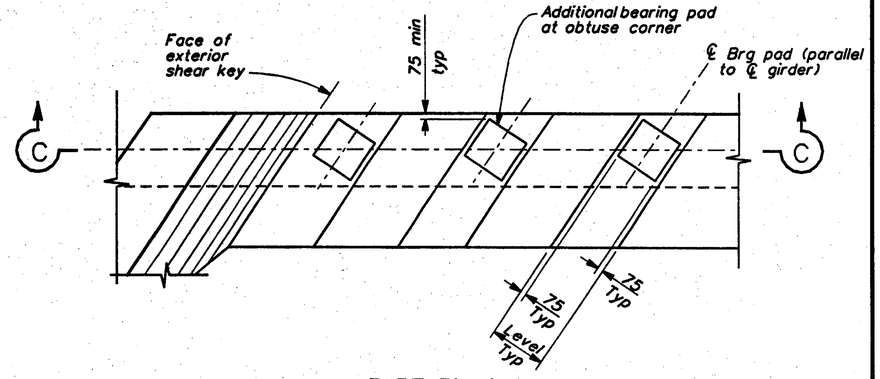
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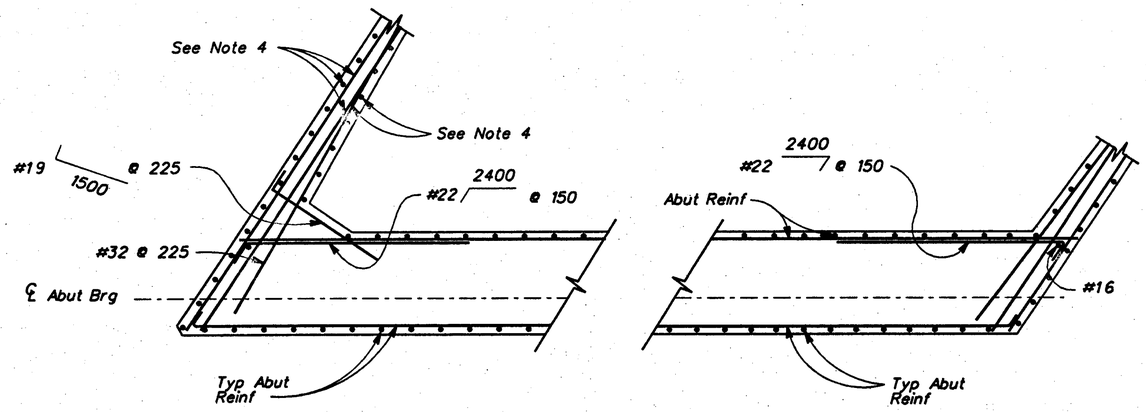


SECTION A-A

Scale: 1:30

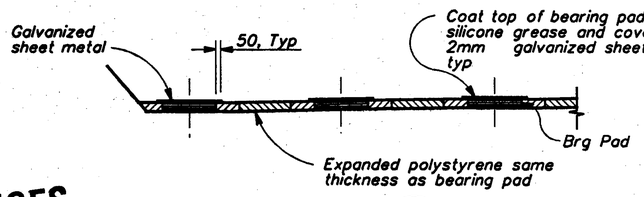


PART PLAN



SECTION B-B

Scale: 1:30



SECTION C-C (B0-13 / 13-1)

BEARING PAD DETAIL

Scale: 1:40

NO AS BUILT CHANGES
AS BUILT VL 7/19/04
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-30-03

NOTES:

1. For location of "Section A-A" and "Section B-B" see "Abutment Layout" sheet.
2. "Section A-A" and "Section B-B" are shown for Abutment 1 - Right Structure, other abutments similar.
3. Architectural treatment not shown.
4. For size and spacing see "Abutment Details No. 3" sheet

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	453	461

Caltrans Metric

REGISTERED CIVIL ENGINEER — MICHAEL SCOTT TRAFFALIS, No. C46883, Exp. 06/30/03, CIVIL, REGISTERED PROFESSIONAL ENGINEER, STATE OF CALIFORNIA

7-2-01
PLANS APPROVAL DATE

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA. 95834

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BR Massey for Joel Escabar
DESIGN OVERSIGHT
4-18-01
SIGN OFF DATE

	BY	CHECKED
DESIGN	G. Lingor	F. Feng
DETAILS	T. Burns	S. Kazmi
QUANTITIES	G. Lingor	D. Paulis

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

M. Traffalis
PROJECT ENGINEER

CU 06222
EA 342321

BRIDGE NO. 42-312L/R
KILOMETER POST 90.79

N99-W180 CONNECTOR UNDERCROSSING
ABUTMENT DETAILS NO. 2

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

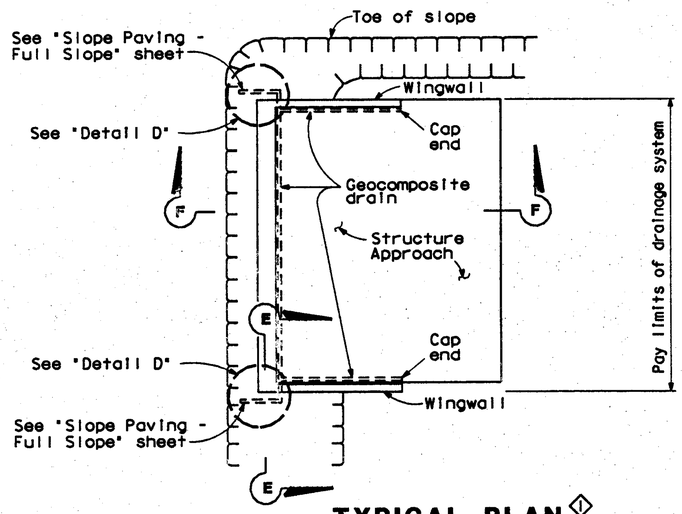
REVISION DATES (PRELIMINARY STAGE ONLY)								SHEET	OF
1/30/98	2/05/98	6/19/98	12/29/98	6/21/99	12/30/99	3/27/01		6	14

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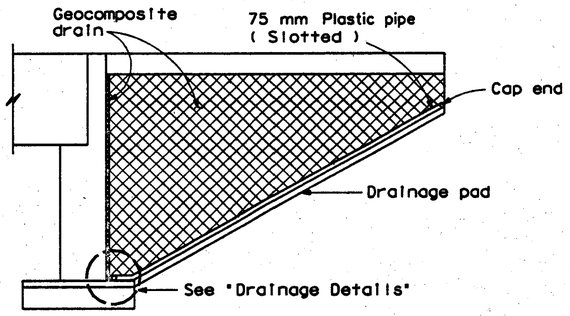
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RELEASED 3-25-97

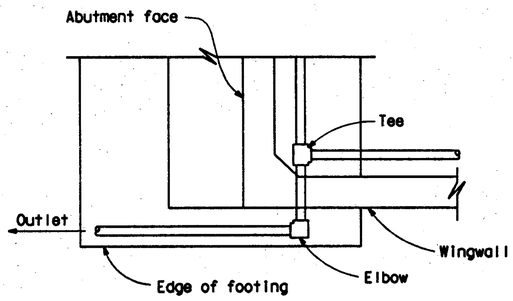


TYPICAL PLAN ①

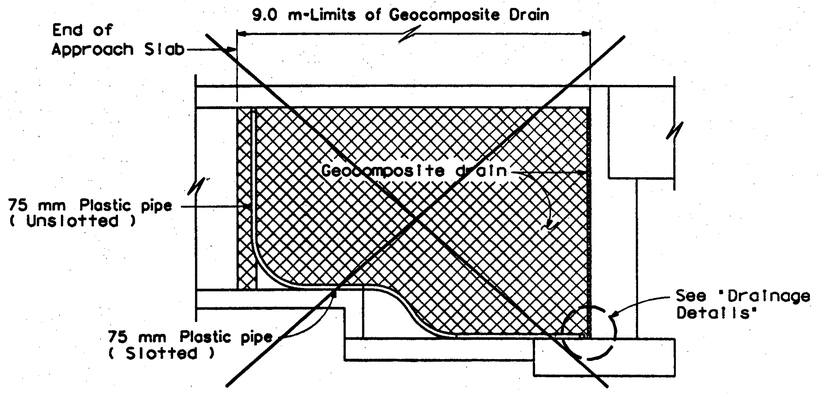
Abutment 2 - Left Structure Shown, Others Similar



CANTILEVER WINGWALL SECTION F-F

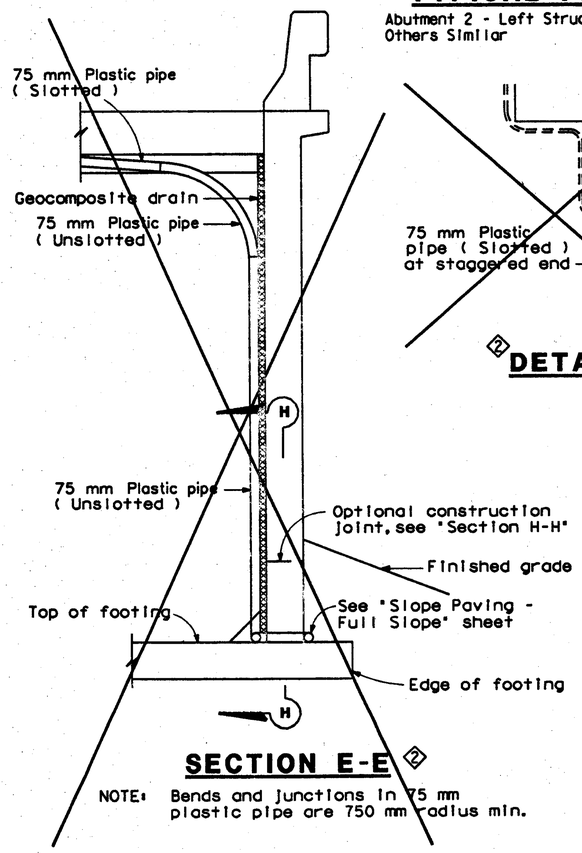


DETAIL D



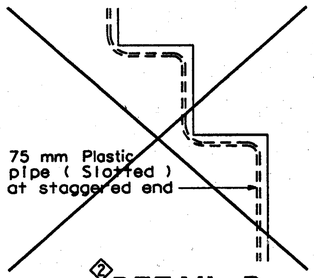
② RETAINING WALL WINGWALL

SECTION G-G

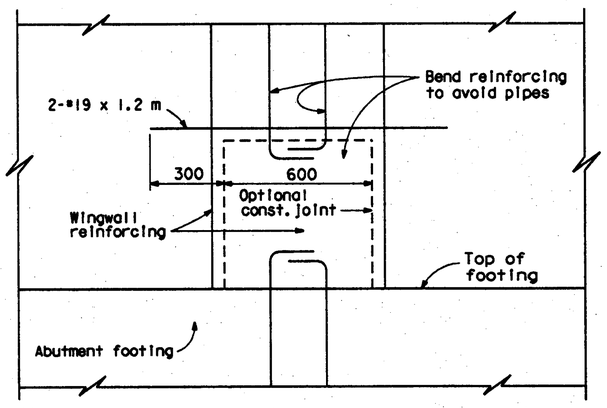


SECTION E-E ②

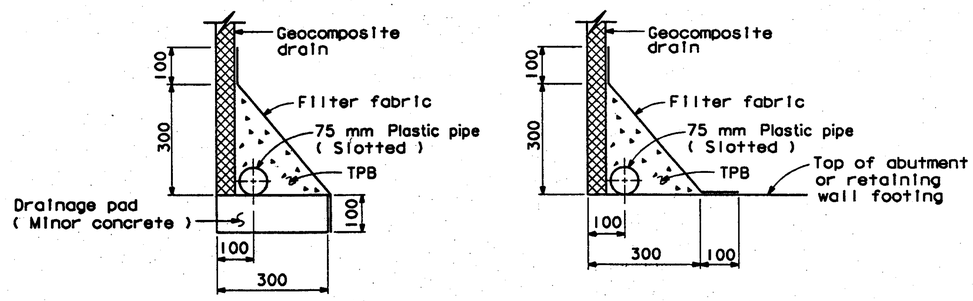
NOTE: Bends and junctions in 75 mm plastic pipe are 750 mm radius min.



② DETAIL B



SECTION H-H ①



WITHOUT FOOTING WITH FOOTING

DRAINAGE DETAILS

"SPECIAL DETAILS"
NO SCALE
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	459	461

REGISTERED ENGINEER - CIVIL
MICHEAL SCOTT TRAFFALIS, No. C46883, Exp. 06/30/03, CIVIL, REGISTERED PROFESSIONAL ENGINEER, STATE OF CALIFORNIA
7-2-01
PLANS APPROVAL DATE

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA. 95834

AS BUILT 7/19/04
CORRECTIONS BY Peter Mann
CONTRACT NO. 06-342324
DATE 9-30-03

NO AS BUILT CHANGES

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STANDARD DRAWING

FILE NO. XS 22-17	DESIGN BY M. TRAFFALIS	CHECKED E. THORKILDSEN	APPROVAL RECOMMENDED BY
DRAWING DATE Revised	DETAILS BY R. YEE	CHECKED E. THORKILDSEN	DESIGN SUPERVISOR
	SUBMITTED BY M. HA		

DS 05D 2147A (METRIC) (REV. 2/25/97)

① Revised Detail
② Detail Not Needed

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN

CU 06222
EA 342321

BRIDGE NO. 42-312L/R
KILOMETER POST 90.79

N99-W180 CONNECTOR UNDERCROSSING

STRUCTURE APPROACH DRAINAGE DETAILS

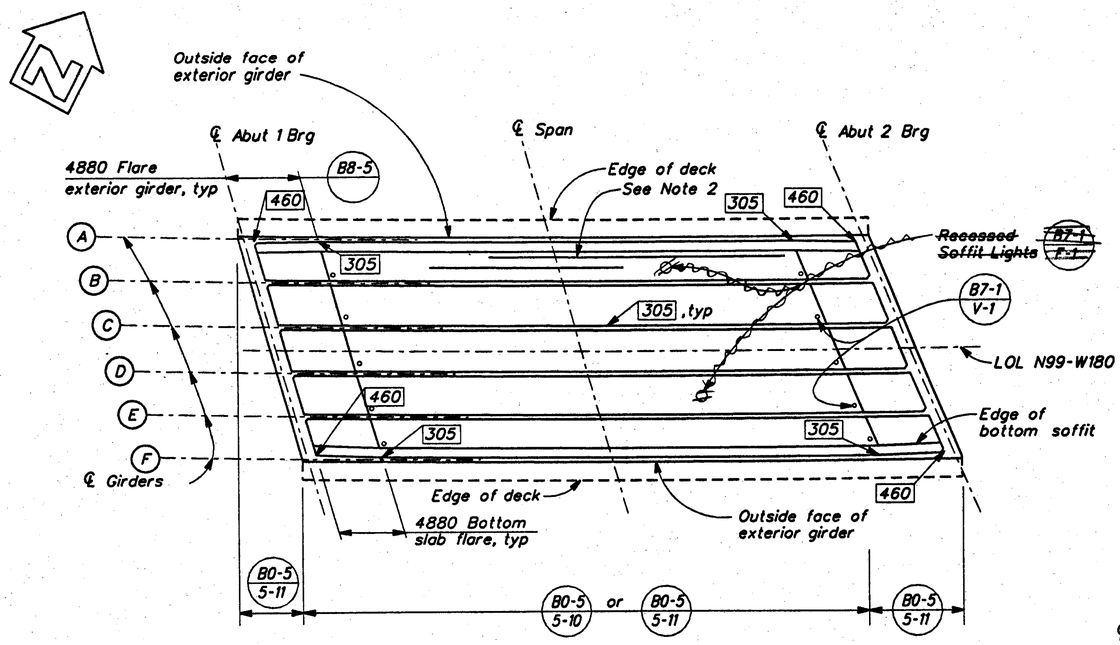
DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)									SHEET	OF
1/30/98	2/05/98	6/19/98	2/22/99	6/24/99	2/20/03	3/03/03	3/27/03		12	14

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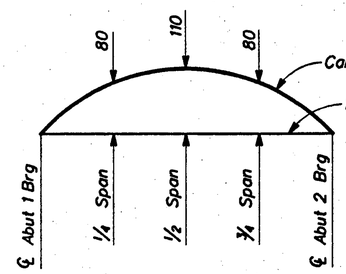
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GIRDER LAYOUT - RIGHT STRUCTURE

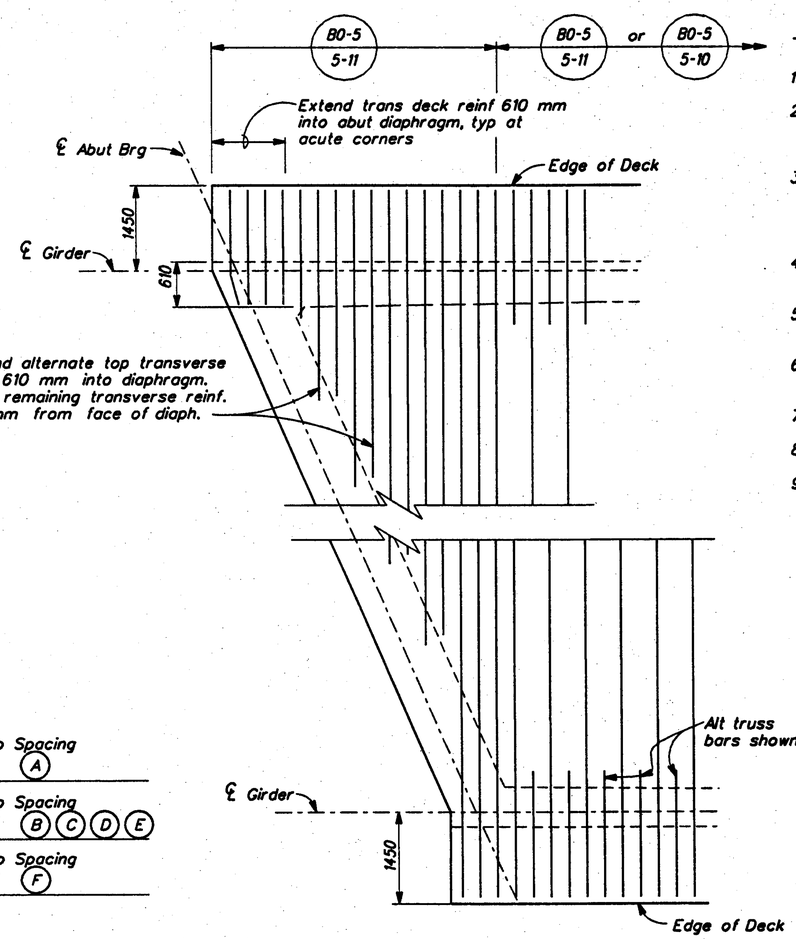
Scale: 1:200

B0-5 B7-1 B8-5



CAMBER DIAGRAM

No Scale
(Does not include allowance for falsework settlement)



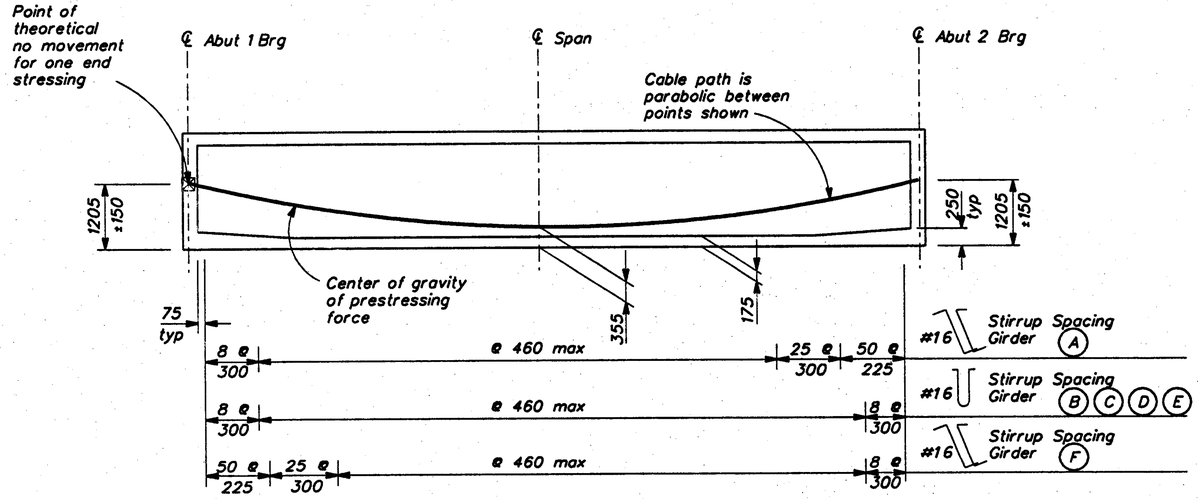
DECK CORNER DETAIL

Scale: 1:50
Right Structure shown, Left Structure similar

PRESTRESSING NOTES:

(Right Structure)

1. Design based on 1860 MPa Low Relaxation Strand.
2. Pjack = 72 950 kN (Total)
   Anchor set = 10mm
   Total number of girders = 6
3. Distribution of prestress force (Pjack) between girders shall not exceed the ratio of 3:2. Maximum final force variation between girders shall not exceed 3225 kN.
4. Concrete: f'c = 35 MPa at 28 days
   f'ci = 25 MPa at time of stressing.
5. ☒ Indicates point of no movement. One end stressing shall be performed from abutment 2.
6. Contractor shall submit elongation calculations based on initial stress at ☒ = 0.973 times jacking stress.
7. Design is based on μ = 0.20 , k = 0
8. Tendons to be jacked at 0.72 f's
9. As = $\frac{Pjack}{0.72\ f's}$



LONGITUDINAL SECTION - RIGHT STRUCTURE

B8-5

No Scale

NOTES:

1. Indicates girder stem width, see B7-1 S-3
2. All bars not shown for clarity. For additional mild reinforcement, see 'Additional Longitudinal Reinforcement' on "Typical Section" sheet.
3. ~~For Recessed Soffit Light locations, see "Road Plans".~~ Deleted

AS BUILT VL 6-17-04
CORRECTIONS BY Peter Mena
CONTRACT NO. 06-342324
DATE 9-30-03

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	457	461

Caltrans Metric

REGISTERED CIVIL ENGINEER — MICHAEL SCOTT TRAFFALIS — No. C46883 — Exp. 06/30/03 — CIVIL — STATE OF CALIFORNIA

7-2-01
PLANS APPROVAL DATE

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA. 95834

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B2 Marsey for Joel Escabar
DESIGN OVERSIGHT
4-18-01
SIGN OFF DATE

DESIGN	BY G. Lingor	CHECKED F. Feng
DETAILS	BY T. Burns	CHECKED S. Kazmi
QUANTITIES	BY G. Lingor	CHECKED D. Paulis

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

M. Traffalis
PROJECT ENGINEER

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

CU 06222
EA 342321

BRIDGE NO. 42-312L/R
KILOMETER POST 90.79

N99-W180 CONNECTOR UNDERCROSSING
GIRDER LAYOUT NO 2

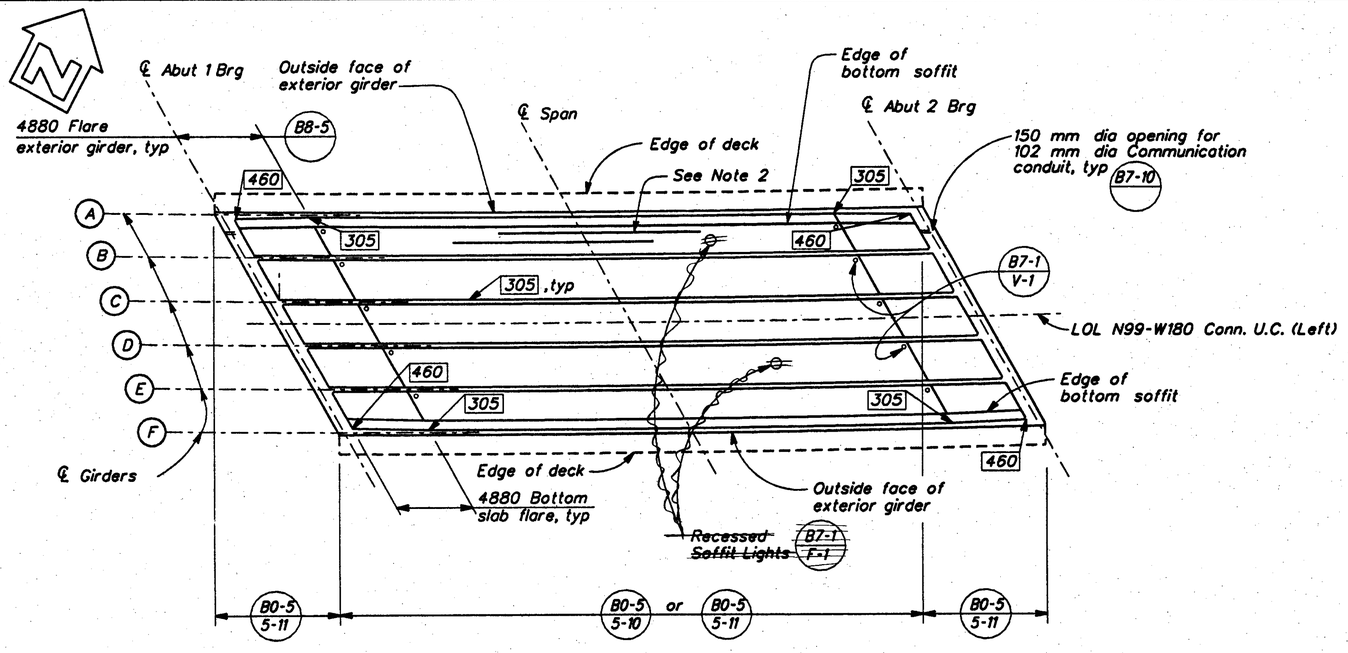
DISREGARD PRINTS BEARING EARLIER REVISION DATES →
REVISION DATES (PRELIMINARY STAGE ONLY): 10/15/01 | 7/30/01 | 7/15/01 | 3/14/01 | 2/16/01 | 12/22/00 | 6/21/00 | 2/29/00 | 3/27/01

SHEET 10 OF 14

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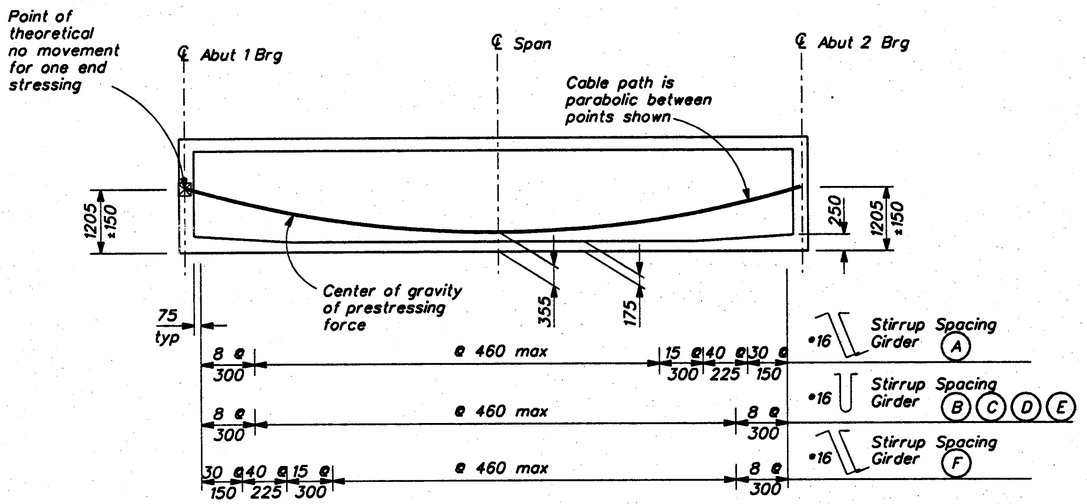
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GIRDER LAYOUT - LEFT STRUCTURE

B0-5 | B7-1 | B8-5

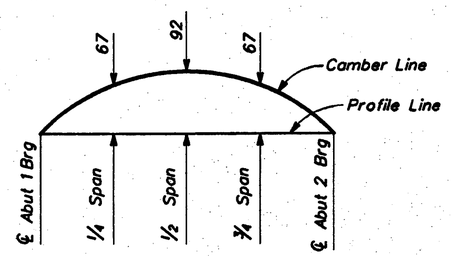
Scale: 1:200



LONGITUDINAL SECTION - LEFT STRUCTURE

B8-5

No Scale



CAMBER DIAGRAM

No Scale
(Does not include allowance for falsework settlement)

PRESTRESSING NOTES:

(Left Structure)

1. Design based on 1860 MPa Low Relaxation Strand.
2. Pjack = 71 970 kN (Total)
   Anchor set = 10mm
   Total number of girders = 6
3. Distribution of prestress force (Pjack) between girders shall not exceed the ratio of 3:2. Maximum final force variation between girders shall not exceed 3225 kN.
4. Concrete: f'c = 35 MPa at 28 days
   f'ci = 25 MPa at time of stressing.
5. ☒ Indicates point of no movement. One end stressing shall be performed from abutment 2.
6. Contractor shall submit elongation calculations based on initial stress at ☒ = 0.973 times jacking stress.
7. Design is based on $\mu = 0.20$, $k = 0$
8. Tendons to be jacked at 0.72 f's
9. $As = \frac{Pjack}{0.72\ f's}$

NOTES:

1. ▭ Indicates girder stem width see B7-1 S-3
2. All bars not shown for clarity. For additional mild reinforcement, see 'Additional Longitudinal Reinforcement' on "Typical Section" sheet.
3. For "Deck Corner Details", see "Girder Layout No. 2" sheet.
4. ~~For recessed soffit light locations, see "Road Plans".~~ Deleted

AS BUILT VL 6-17-04
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-30-03

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	456	461

Caltrans Metric

REGISTERED CIVIL ENGINEER — MICHAEL SCOTT TRAFFALIS, No. C46883, Exp. 06/30/03, CIVIL, STATE OF CALIFORNIA

7-2-01
PLANS APPROVAL DATE

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA. 95834

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DESIGN OVERSIGHT: B2 Murray for Joel Escabar, 4-18-01	DESIGN: G. Lingor	CHECKED: F. Feng	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
SIGN OFF DATE	DETAILS: T. Burns	CHECKED: S. Kazmi	M. Traffalis, PROJECT ENGINEER
	QUANTITIES: G. Lingor	CHECKED: D. Paulis	CU 06222, EA 342321

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

BRIDGE NO. 42-312L/R
KILOMETER POST 90.79

N99-W180 CONNECTOR UNDERCROSSING
GIRDER LAYOUT NO 1

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 10/15/01 | 7/26/02 | 2/26/03 | 6/19/03 | 12/23/03 | 6/21/04 | 12/28/04 | 3/27/01

SHEET 9 OF 14

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DIST.	COUNTY	ROUTE	POST km TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	461	461

George P. Hattrup
REGISTERED GEOTECHNICAL ENGINEER

7-2-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — George P. Hattrup — No. 2353 — Exp. 6-30-01 — GEOTECHNICAL — STATE OF CALIFORNIA

BSK & ASSOCIATES
567 WEST SHAW AVE. , SUITE B2
FRESNO, CA. 93704

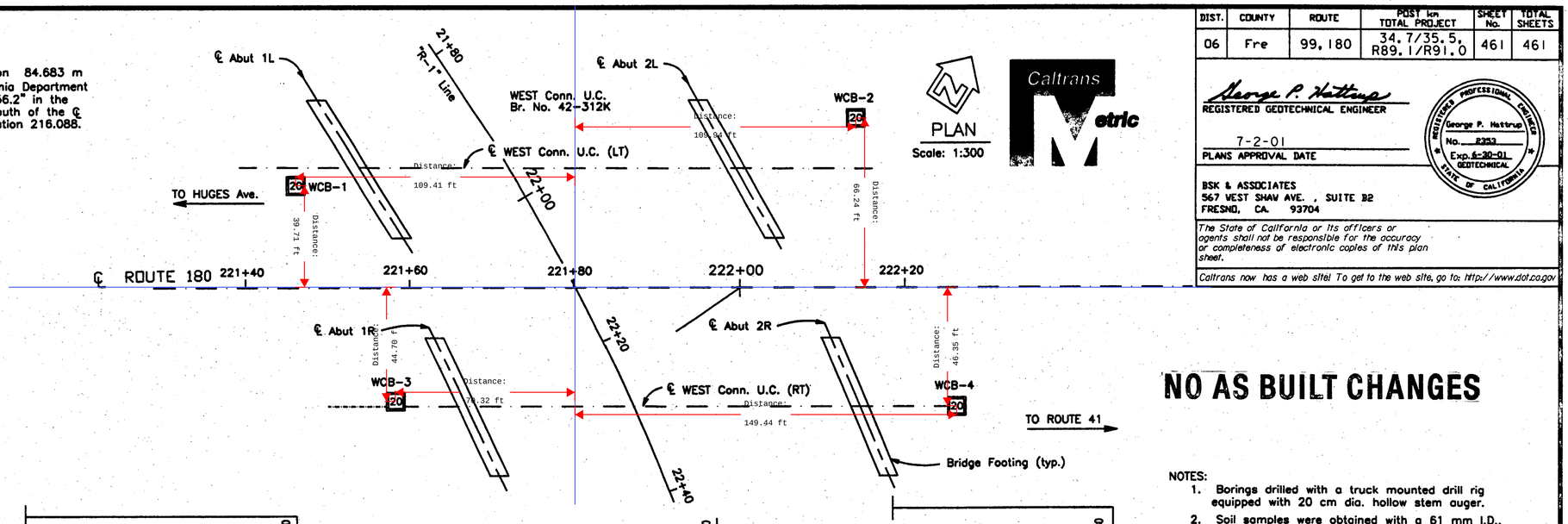
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Caltrans Metric

BENCHMARK

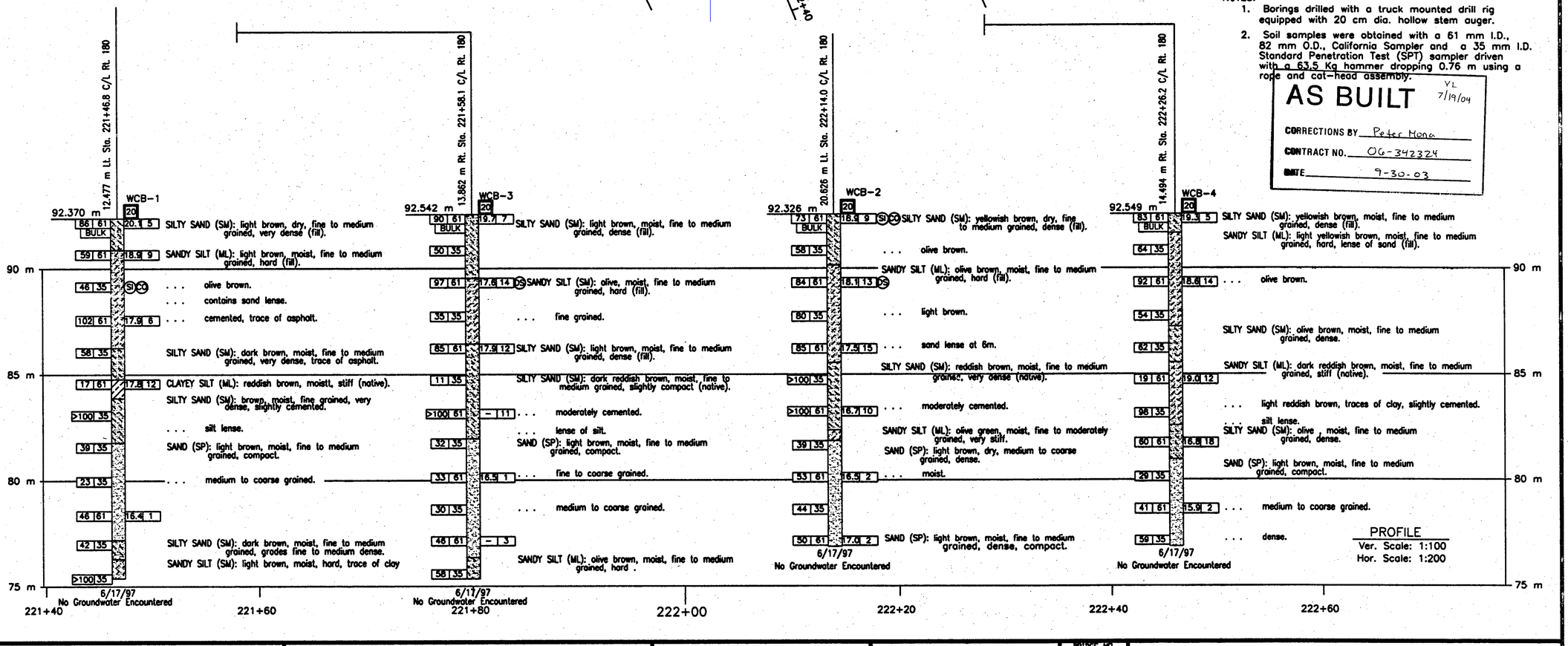
F 180 56.2 Elevation 84.683 m
Fd 57 mm brass cap embossed "California Department of Transportation" stamped "BM F 180 56.2" in the west curb of Fruit Avenue, 73.2 m ± south of the ℄ of Dunn Avenue, 118.9 m right of ℄ station 216.088.

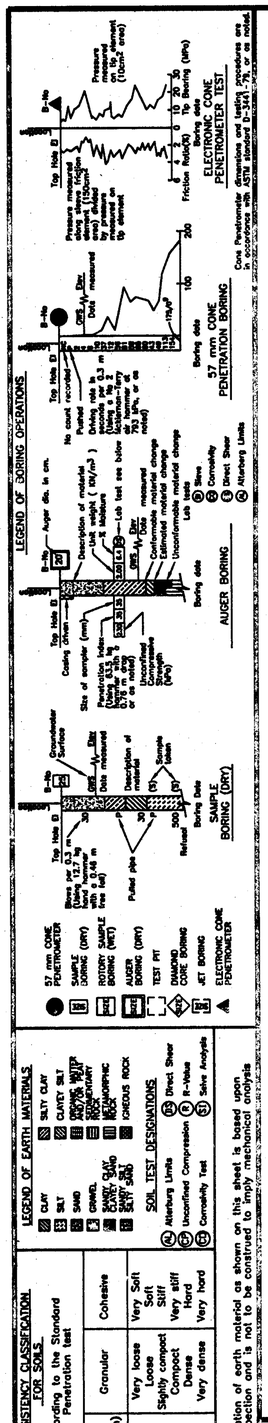


NO AS BUILT CHANGES

NOTES:
1. Borings drilled with a truck mounted drill rig equipped with 20 cm dia. hollow stem auger.
2. Soil samples were obtained with a 61 mm I.D., 82 mm O.D., California Sampler and a 35 mm I.D. Standard Penetration Test (SPT) sampler driven with a 63.5 Kg hammer dropping 0.76 m using a rope and cat-head assembly.

AS BUILT YL 7/19/04
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-30-03





DESIGN OVERSIGHT	B2 Marney for JOEL ESCABAR 4-18-01
SIGNOFF DATE	
FIELD ENGINEER :	K. ROMERO & S. KAWATE 6/97
DRAWN BY :	J. R. SCHNEIDER 10/97
CHECKED BY :	G. P. HATTRUP, P. E. 10/97

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

George Hattrup, P. E.
PROJECT ENGINEER

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 20 40 60 80

CU 06
EA 342321

BRIDGE NO.	
42-312L/R	
KILOMETER POST	
90.79	

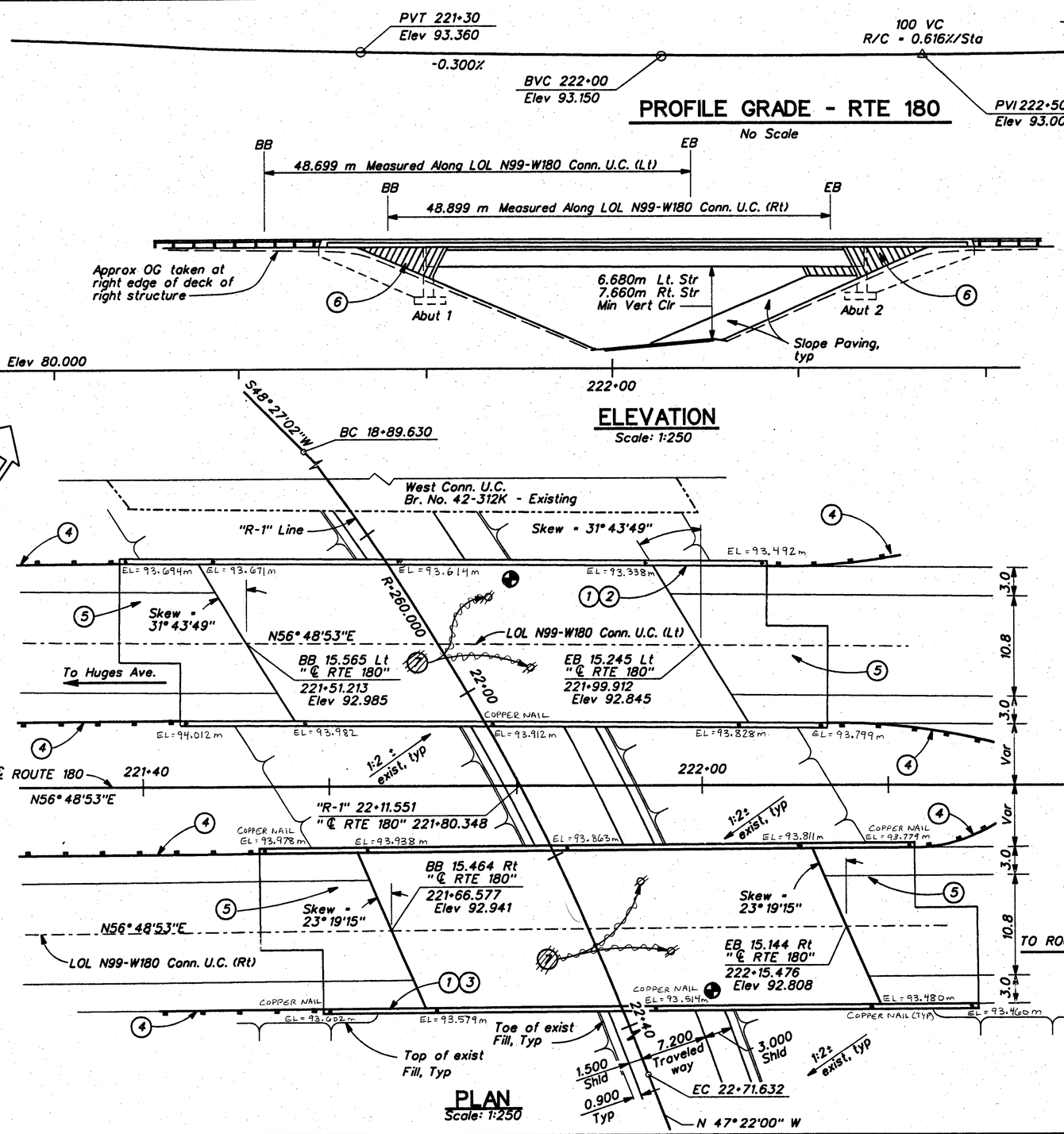
N99-W180 CONNECTOR UNDERCROSSING
LOG OF TEST BORINGS

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)				SHEET	OF
10/16/97	11/7/97	06/05/98	12/02/98	03/27/01	14	14

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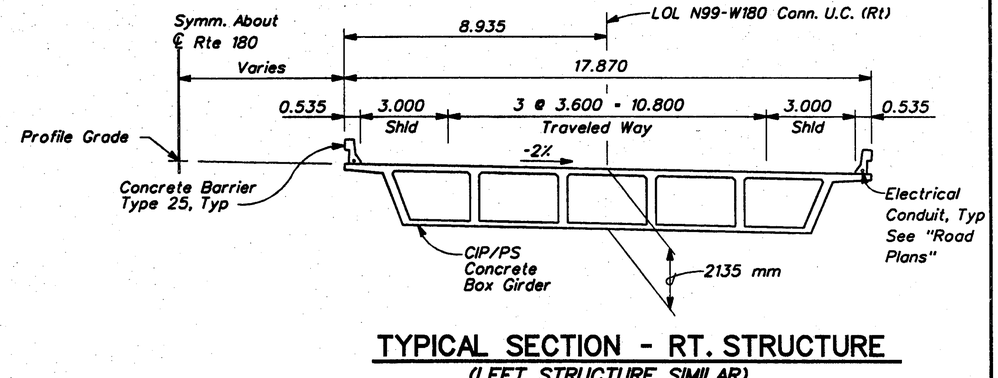
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Curve Data

"R-1" Line

R = 260.000
Δ = 84° 10'52"
T = 234.850
L = 382.002



TYPICAL SECTION - RT. STRUCTURE

(LEFT STRUCTURE SIMILAR)

Scale: 1:100

QUANTITIES

STRUCTURE EXCAVATION (BRIDGE)	1,990	m^3
STRUCTURE BACKFILL (BRIDGE)	1,510	m^3
PRESTRESSING CAST-IN-PLACE CONCRETE	LUMP SUM	
STRUCTURAL CONCRETE, BRIDGE FOOTING	330	m^3
STRUCTURAL CONCRETE, BRIDGE	1,490	m^3
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N)	240	m^3
RIPPED TEXTURE (REINFORCING BAR)	175	m^2
JOINT SEAL (MR 50 MM)	81	m
BAR REINFORCING STEEL (BRIDGE)	188,000	kg
SLOPE PAVING (CONCRETE)	155	m^3
CONCRETE BARRIER (TYPE 25)	282	m

NOTES:

1. Paint "N99-W180 Connector U.C."
2. Paint "Br. No. 42-312L" and year constructed.
3. Paint "Br. No. 42-312R" and year constructed.
4. MBGR see "Road Plans"
5. Structure Approach Type N(9S)
6. Architectural Treatment
7. ~~Soffit Lights, see "Road Plans"~~ Deleted
- Point of Minimum Vert. Clearance

For "General Notes", "Index to Plans" and "Standard Plans", see "Deck Contours" sheet.

For 102mm dia communication conduit opening, see "Typical Section" sheet and Road Plans

Elevations for existing approach fills are approximate.

AS BUILT VL 6-17-04

CORRECTIONS BY Peter Mona

CONTRACT NO. 06-342324

DATE 9-30-03

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	448	461

Caltrans Metric

REGISTERED CIVIL ENGINEER

7-2-01

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL SCOTT TRAFFALIS — No. C46883 — Exp. 08/30/03 — CIVIL — STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA. 95834

FRESNO COUNTY TRANSPORTATION AUTHORITY
2220 Tulare Street, Suite 411
Fresno, CA 93721

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Brent C Massey for Joel Escabar (DESIGN OVERSIGHT) 4-18-01 (SIGNOFF DATE)	DESIGN	BY G. Lingor	CHECKED F. Feng	LOAD FACTOR DESIGN	Live Loading: HS20-44 and Alternative and Permit Design Load	
	DETAILS	BY T. Burns	CHECKED S. Kazmi	LAYOUT	BY G. Lingor	CHECKED F. Feng
	QUANTITIES	BY G. Lingor	CHECKED D. Paulis	SPECIFICATIONS	BY T. Tracy	PLANS AND SPECS COMPARED T. Tracy

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

M. Traffalis (PROJECT ENGINEER)

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS (0 20 40 60 80 100)

CU 06222
EA 342321

BRIDGE NO. 42-312L/R
KP (PM) 90.79 (56.42)

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): ~~12/14/01~~ ~~12/19/01~~ 1/5/02 1/28/02 5/16/03 5/19/03 6/19/03 6/24/03 12/30/03 3/27/01

SHEET 1 OF 14

N99-W180 CONNECTOR UNDERCROSSING

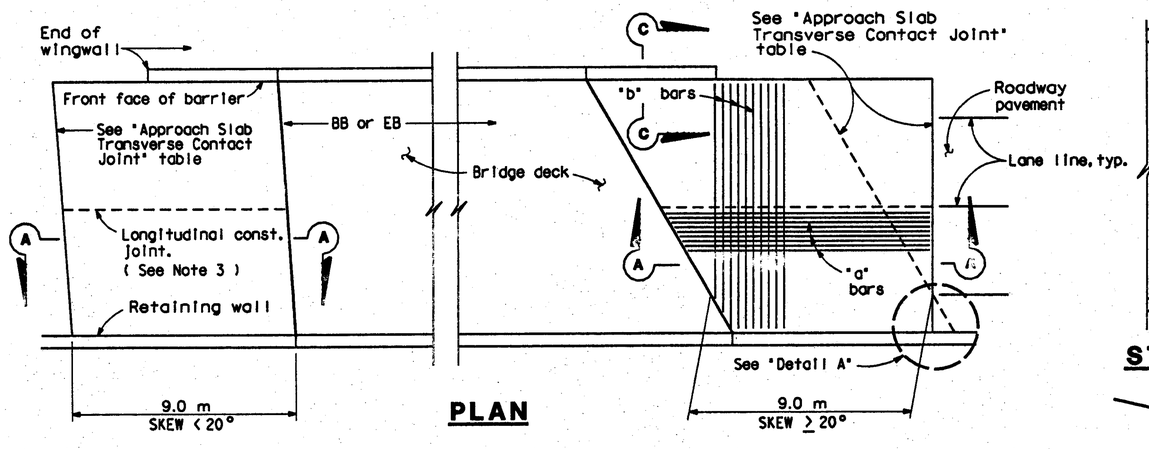
GENERAL PLAN

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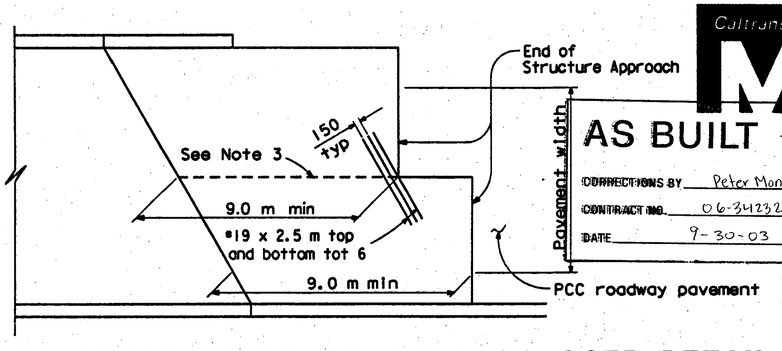
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RELEASED 3-25-97



PLAN



STRUCTURE APPROACH - END STAGGER DETAIL

Caltrans Metric

AS BUILT VL 7/19/04

CORRECTIONS BY Peter Mono

CONTRACT NO. 06-342324

DATE 9-30-03

NO AS BUILT CHANGES

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre.	99, 180	34.7/35.5, R89.1/R91.0	458	461

REGISTERED ENGINEER - CIVIL

7-2-01

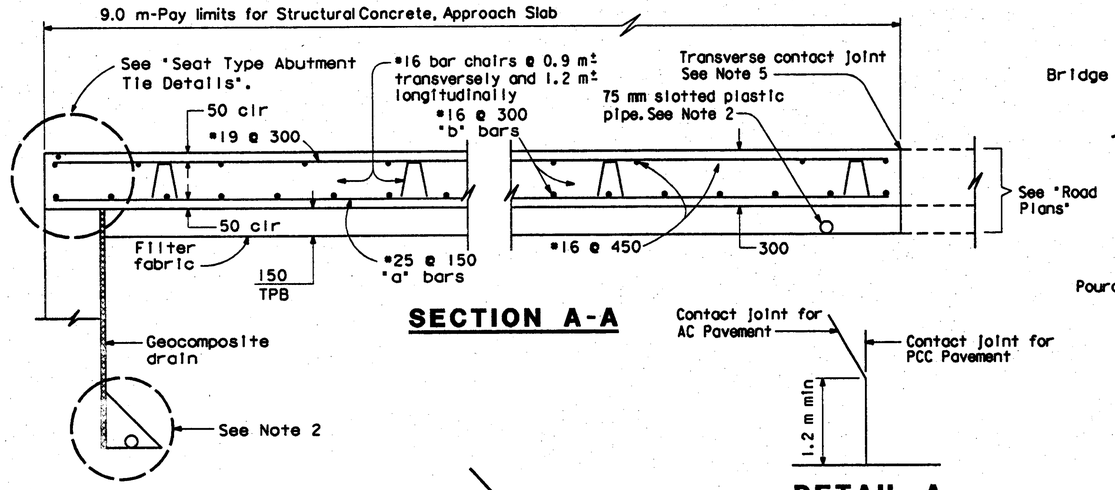
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHEAL SCOTT TRAFFALIS No. C46883 Exp. 06/30/03 CIVIL STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA. 95834

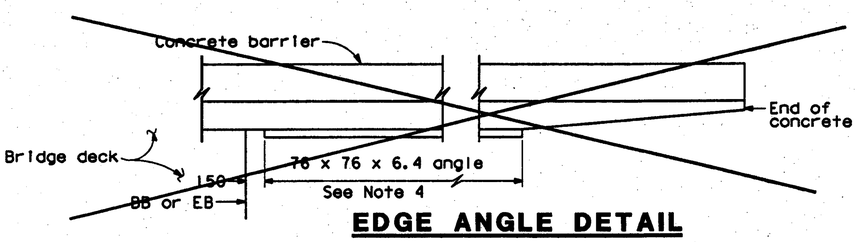
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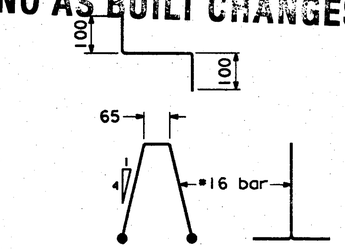


SECTION A-A

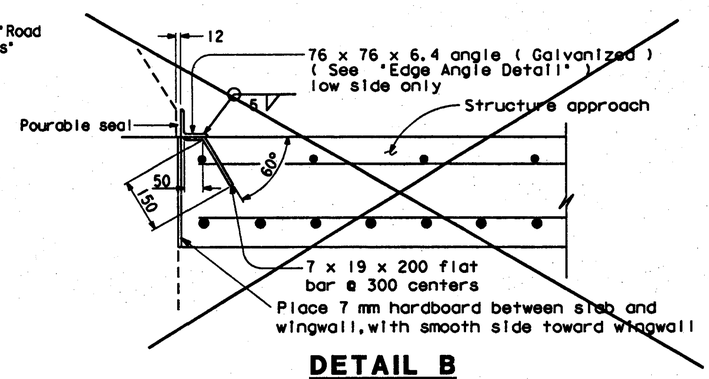
DETAIL A



EDGE ANGLE DETAIL



BAR CHAIR DETAIL



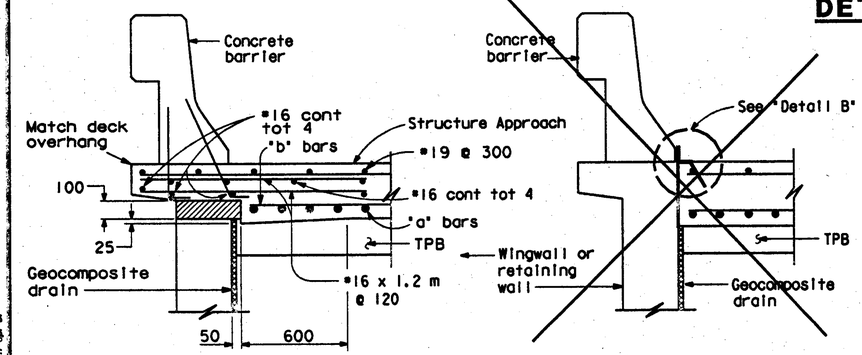
DETAIL B

APPROACH SLAB TRANSVERSE CONTACT JOINT		
APPROACH SKEW	WITH AC ROADWAY PAVEMENT	WITH PCC ROADWAY PAVEMENT
< 20°	Parallel to face of paving notch	Parallel to face of paving notch
20°- 45°	Parallel to face of P N use (Detail A)	Stagger lines 7.2 m to 10.8 m apart.
> 45°	Parallel to face of P N use (Detail A)	Stagger at each lane line.

NOTES:

1. For details not shown, see Structure Plans. For MR ≤ 50 mm, adjust bar reinforcement to clear a sawcut for sealed joint, when required.
2. For drainage details, see "Structure Approach Drainage Details" sheet.
3. Longitudinal construction joints, when permitted by the Engineer, shall be located on lane lines.
4. End angle at beginning of barrier transition, end of wingwall or end of structure approach, as applicable.
5. For transverse contact joint with new PCC paving, refer to Standard Plan A35-A.
6. At the contractor's option, approach slab transverse reinforcement may be placed parallel to paving notch. Spacing of transverse reinforcement is measured along ℄ roadway.

▨ Remove all polystyrene.

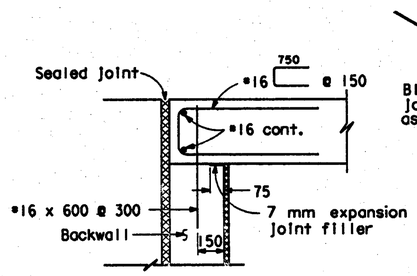


TYPE E-1

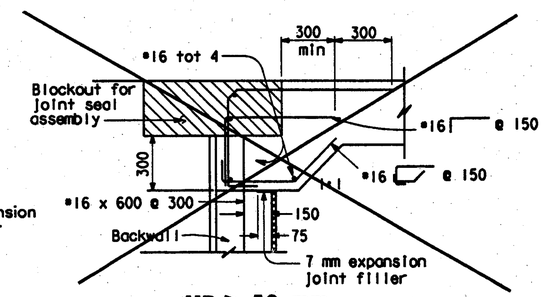
TYPE E-2

SECTION C-C

(Type E-1 to be used, unless otherwise shown on plans)



MR ≤ 50 mm



MR > 50 mm

SEAT TYPE ABUTMENT TIE DETAILS (SEE NOTE 1)

NO SCALE
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

STANDARD DRAWING				
FILE NO. XS 22-18	DESIGN BY M. TRAFFALIS	CHECKED E. THORKILDSEN	APPROVAL RECOMMENDED BY	
DRAWING DATE 8/92	DETAILS BY R. YEE	CHECKED E. THORKILDSEN	DESIGN SUPERVISOR	
	SUBMITTED BY M. HA			

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
DIVISION OF STRUCTURES
STRUCTURE DESIGN

CU 06222
EA 342321

BRIDGE NO. 42-312L/R
KILOMETER POST 90.79

N99-W180 CONNECTOR UNDERCROSSING

STRUCTURE APPROACH TYPE N(9S)

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 1/30/98 | 2/05/98 | 6/19/98 | 2/19/98 | 6/24/99 | 12/30/99 | 3/27/01

SHEET 11 OF 14

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

OS OSD 2147A (METRIC) (REV. 2/25/97)

FILE: \\02271\CGN\CONTROL\DGN\02271CN02.DGN 17-apr-01

br42312LR#11of14.tif

ClibPDF - www.fastio.com

RELEASED 3-26-97

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	460	461

Caltrans Metric

REGISTERED ENGINEER - CIVIL

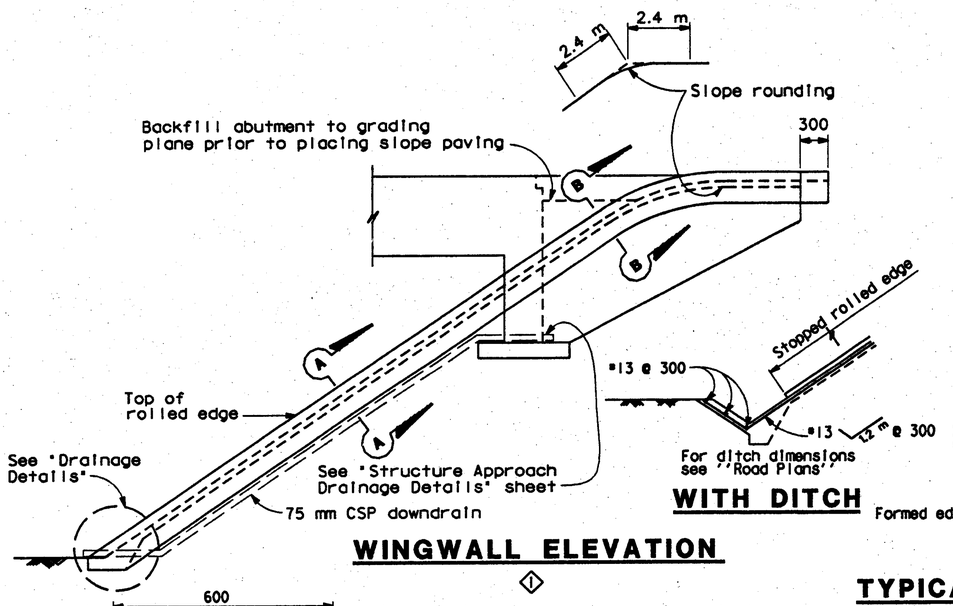
7-2-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MICHEAL SCOTT TRAFFALIS — No. C46883 — Exp. 06/30/03 — CIVIL — STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA. 95834

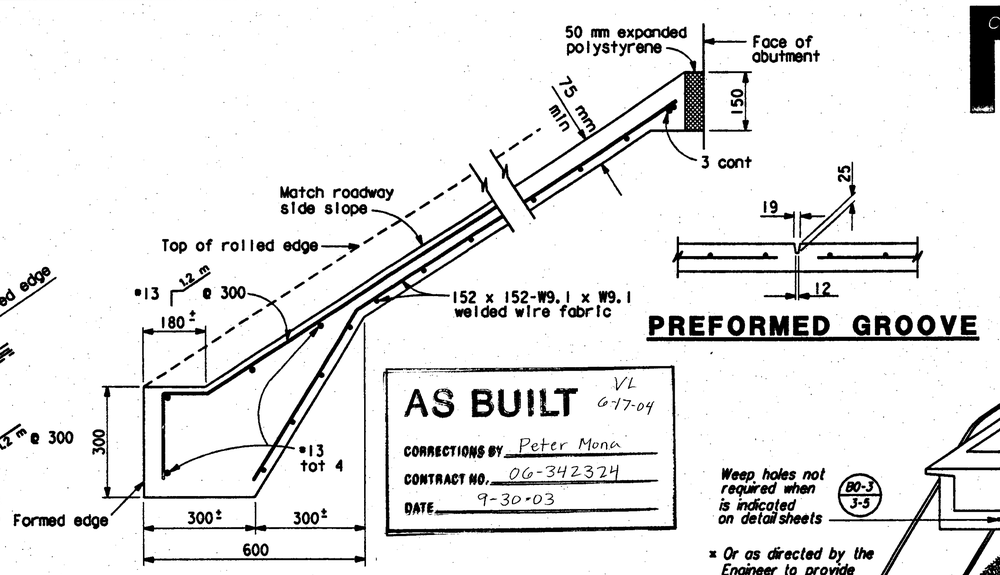
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Caltrans now has a web site! To get to the web site, go to: http://www.dot.ca.gov

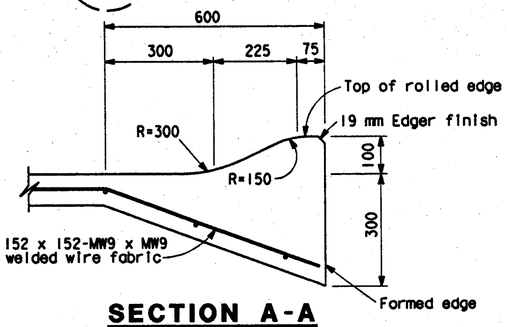


WINGWALL ELEVATION

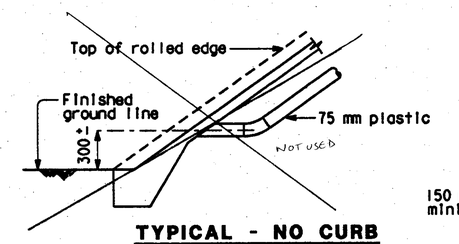
WITH DITCH



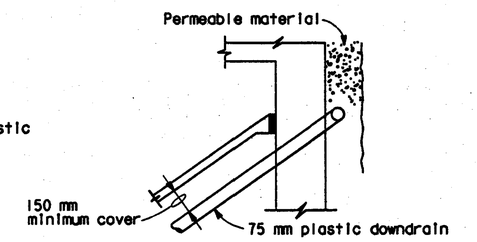
TYPICAL SECTION - CONCRETE PAVING



SECTION A-A



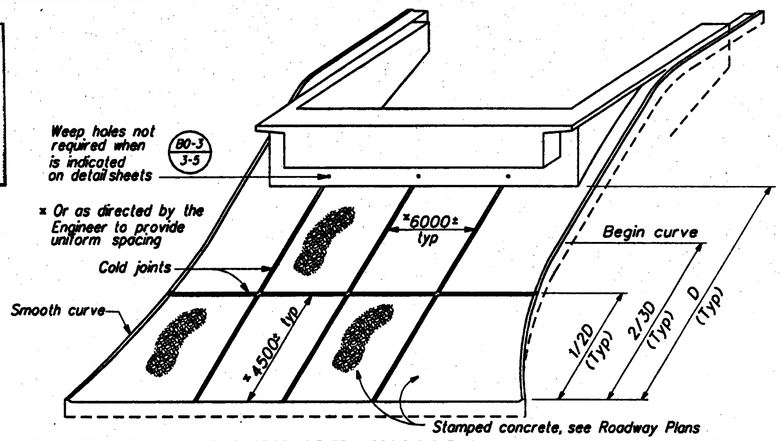
TYPICAL - NO CURB



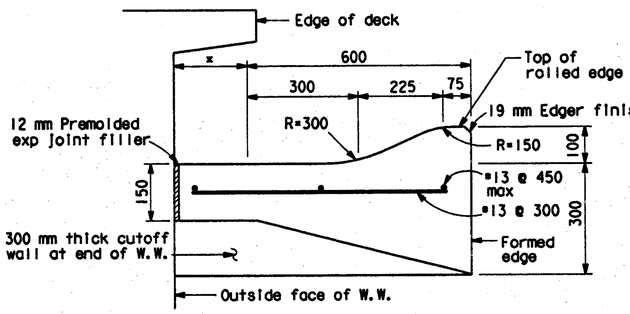
TYPICAL - DRAIN CONNECTION

PREFORMED GROOVE

AS BUILT VL 6-17-04
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-30-03

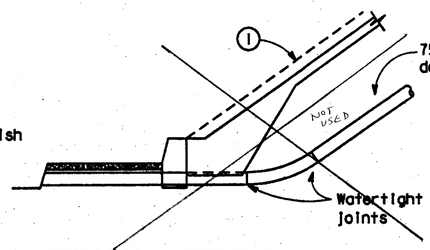


PICTORIAL VIEW OF TYPICAL INSTALLATION

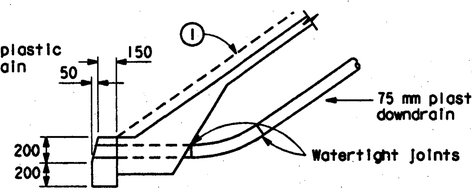


SECTION B-B

* This dimension becomes zero when edge of deck is at outside face of W.W.



TYPICAL - WITH SIDEWALK

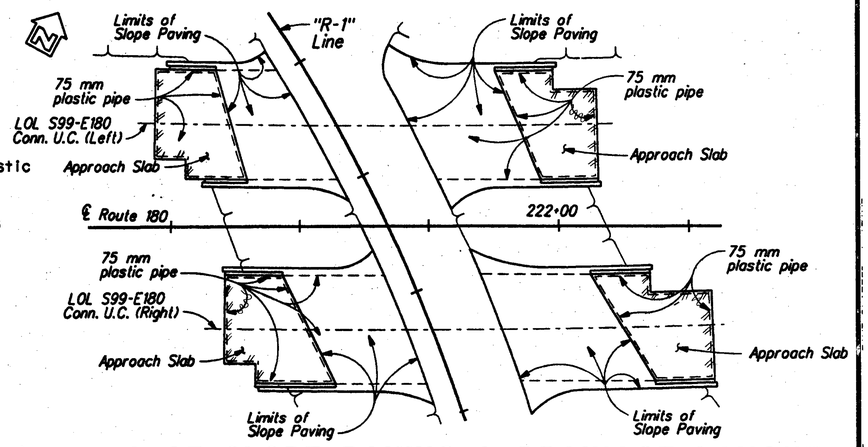


TYPICAL - WITH CURB

① DRAINAGE DETAILS

Note: Drainage details are only applicable when B0-3 3-5 is indicated on detail sheets.

① Top of rolled edge



① LIMITS OF SLOPE PAVING & DRAINAGE LAYOUT

No Scale

"SPECIAL DETAILS"

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

STANDARD DRAWING

FILE NO. XS 22-11 | DESIGN BY | CHECKED | APPROVAL RECOMMENDED BY
DRAWING DATE Revised | DETAILS BY R. YEE | CHECKED
SUBMITTED BY C.W. PURKISS | DESIGN SUPERVISOR

① Revised Detail

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN

BRIDGE NO. 42-312L/R
KILOMETER POST 90.79

N99-W180 CONNECTOR UNDERCROSSING
SLOPE PAVING - FULL SLOPE

CU 06222
EA 342321

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 1/30/98 2/05/98 6/15/98 12/28/98 6/24/99 12/30/99 3/27/01

SHEET 13 OF 14

DS OSD 2147A (METRIC) (REV. 2/25/97)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

FILE/I2227I/DGN/CCNW2BLDGN Page 09

br42312LR#13of14.tif

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5. R89.1/R91.0	455	461

Caltrans Metric

Michael Scott Traffalis
REGISTERED CIVIL ENGINEER
7-2-01
PLANS APPROVAL DATE

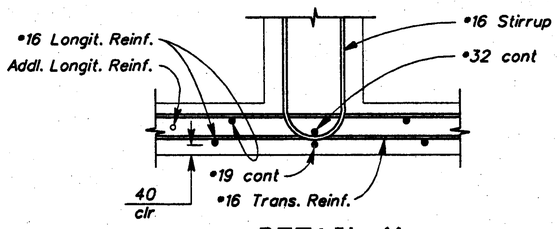
REGISTERED PROFESSIONAL ENGINEER — MICHAEL SCOTT TRAFFALIS — No. C46883 — Exp. 06/30/03 — CIVIL — STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA 95834

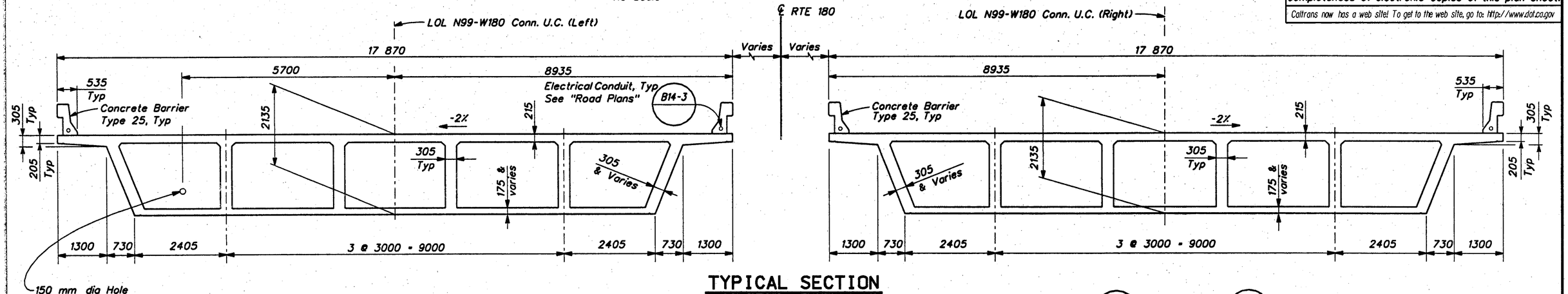
AS BUILT — VL 7/19/04
CORRECTIONS BY Peter Hong
CONTRACT NO. 06-342324
DATE 9-30-03

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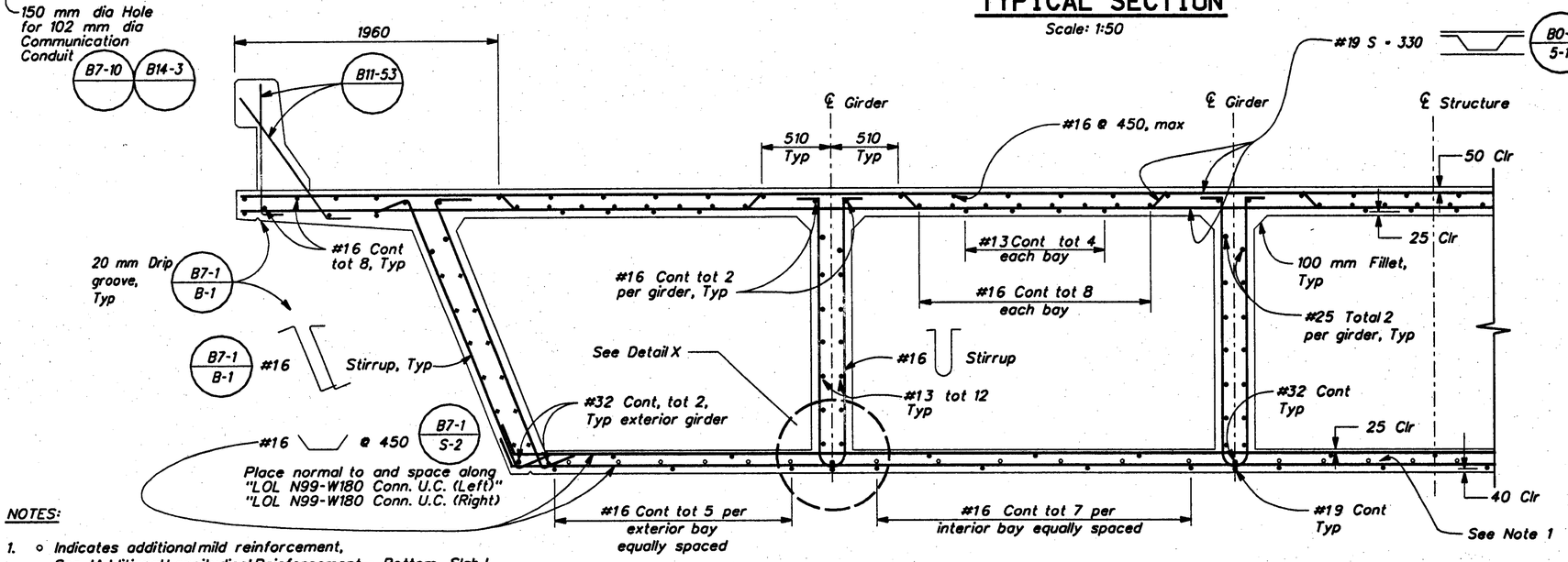
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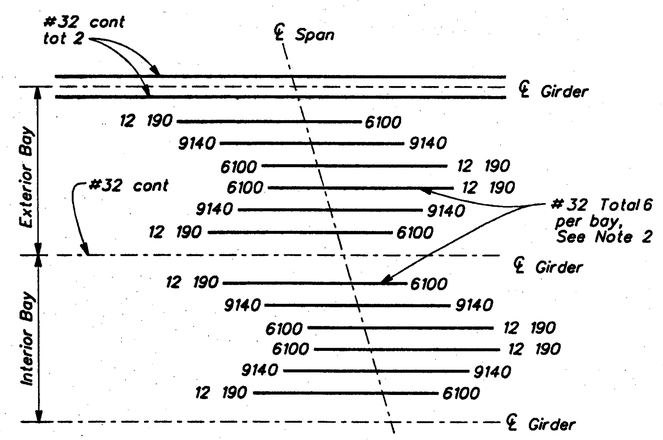


DETAIL X
No Scale



TYPICAL SECTION
Scale: 1:50





ADDITIONAL LONGITUDINAL REINFORCEMENT – BOTTOM SLAB
No Scale

* (Numbers at end of rebars indicate length in millimeters measured from the ℄ Span) Interior bay shown, exterior bay similar

PART TYPICAL SECTION
Scale: 1:20
B0-5 B7-1 B8-5

NO AS BUILT CHANGES

NOTES:

1. ○ Indicates additional mild reinforcement, See 'Additional Longitudinal Reinforcement - Bottom Slab.'
2. Additional mild steel shall have 80mm clearance to the bottom of soffit.

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

BZ Massey for Joel Escabar
DESIGN OVERSIGHT
4-18-01
SIGN OFF DATE

	BY	CHECKED
DESIGN	G. Lingor	F. Feng
DETAILS	T. Burns	S. Kazmi
QUANTITIES	G. Lingor	D. Paulis

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

M. Traffalis
PROJECT ENGINEER

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

CU 06222
EA 342321

BRIDGE NO. 42-312L/R
KILOMETER POST 90.79

N99-W180 CONNECTOR UNDERCROSSING
TYPICAL SECTION

DISREGARD PRINTS BEARING EARLIER REVISION DATES →
REVISION DATES (PRELIMINARY STAGE ONLY): 10/15/97 | 1/30/98 | 2/05/98 | 6/19/98 | 12/28/98 | 6/29/99 | 12/30/99 | 3/27/01

SHEET 8 OF 14

br42312LR*8of14.tif

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California Department of Transportation
Division of Maintenance

Structure Maintenance and Investigations

BRIDGE

INSPECTION

RECORDS

INFORMATION

SYSTEM

The requested documents have been generated by BIRIS.

These documents are the property of the California Department of Transportation and should be handled in accordance with Deputy Directive 55 and the State Administrative Manual.

Records for “Confidential” bridges may only be released outside the Department of Transportation upon execution of a confidentiality agreement.

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99 180	34.7/35.5 R89.1/R91.0	414RI	461

Caltrans Metric

REGISTERED CIVIL ENGINEER

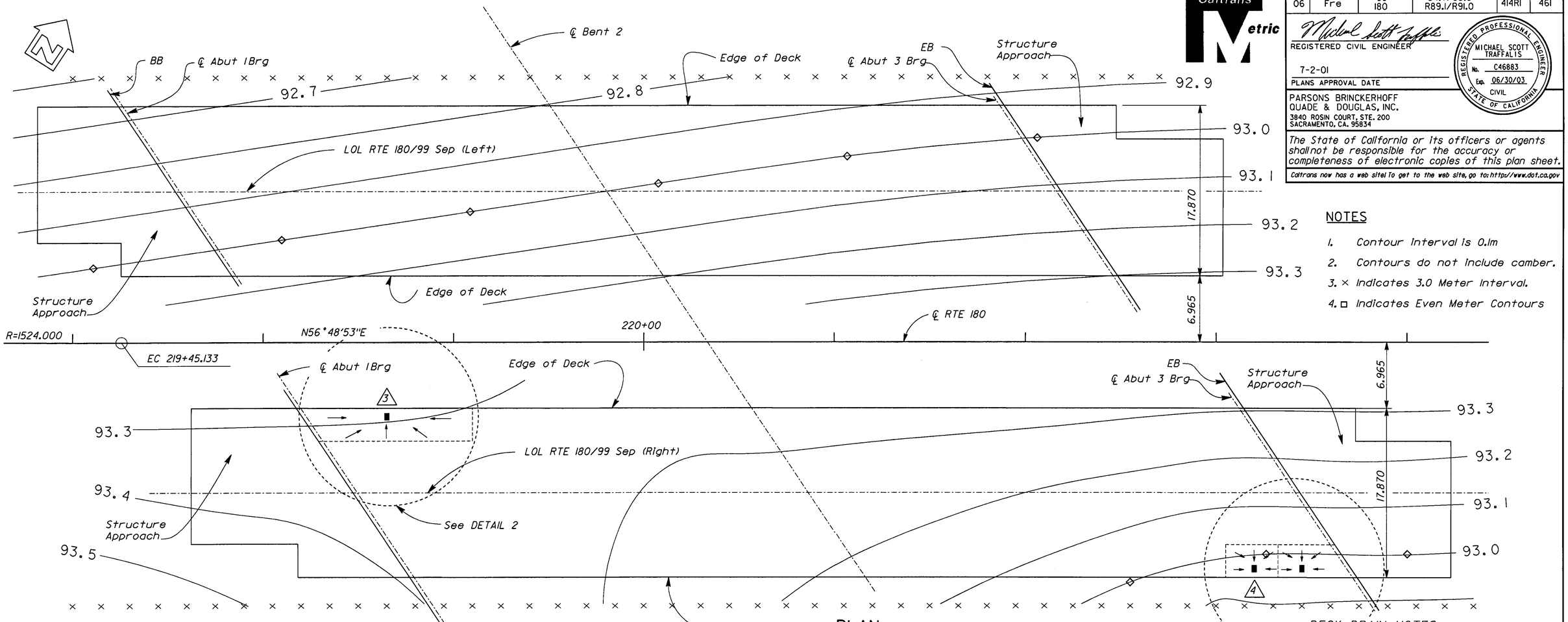
7-2-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL SCOTT TRAFFALIS — No. C46883 — Exp. 06/30/03 — CIVIL — STATE OF CALIFORNIA

PARSONS BRINCKERHOFF
QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA. 95834

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PLAN
Scale: 1:200

NOTES

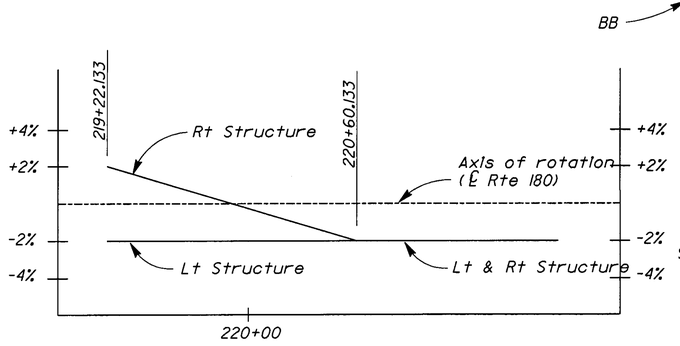
1. Contour interval is 0.1m
2. Contours do not include camber.
3. × Indicates 3.0 Meter Interval.
4. □ Indicates Even Meter Contours

DECK DRAIN NOTES

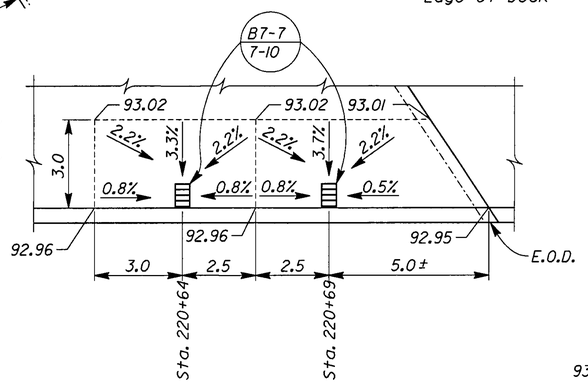
1. Deck drain surface will be approximately 25 mm below deck before re-contouring.
2. See "Girder Details" for pipe hanger expansion joint detail.
3. Modify haunched overhang Detail 7-10, to maintain all specified clearances while achieving 25mm drain depression.

AS BUILT VL 7/19/04

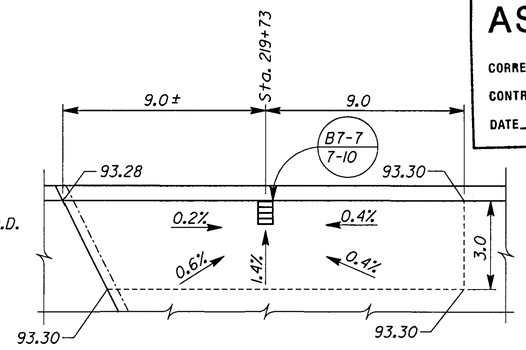
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-29-03



SUPERELEVATION DIAGRAM
No Scale



DETAIL 1 △1



DETAIL 2 △2

MARK	DATE	DECRIPTIONS	BY	CH'D
		REVISIONS		
4	11-15-01	Added drain	CER	ANS
3	11-15-01	Added drain	CER	ANS
2	11-15-01	Added Detail 2	CER	ANS
1	11-15-01	Revised Detail 1	CER	ANS

CONTRACT CHANGE ORDER NO. 16
SHEET 8 OF 10

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

John Symmonds for Joel Escabar
DESIGN OVERSIGHT
12/3/01
SIGN OFF DATE

	BY	CHECKED
DESIGN	E. Wojewoda	A. Dubovik
DETAILS	T. Burns	S. Kazmi
QUANTITIES	E. Wojewoda	C. Ramirez

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

M. Traffalis
PROJECT ENGINEER

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

CU 06222
EA 342321

BRIDGE NO. 42-299L/R
KILOMETER POST 90.61

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 1/20/98 | 2/05/98 | 6/08/98 | 6/19/98 | 12/29/98 | 6/29/99 | 12/28/99 | 03/27/01

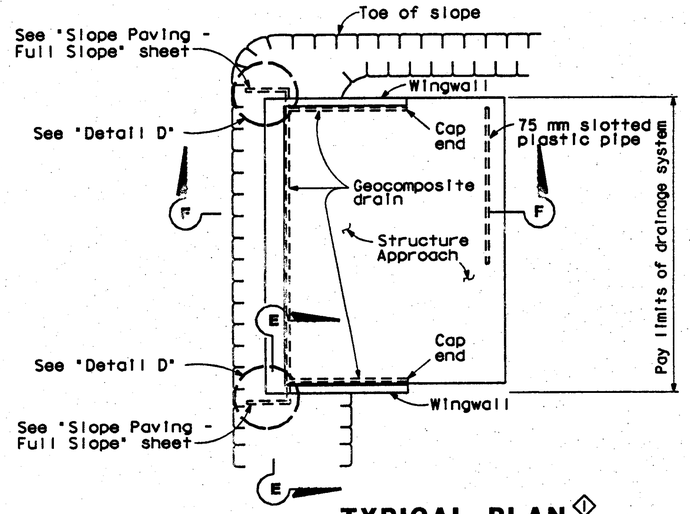
SHEET 3 OF 19

ROUTE 180/99 SEPARATION
DECK CONTOURS

FILE: I:/12272A/DGN/FRM PORTLAND/RTE180SEP/180SDC01-R1.DGN 19-NOV-01

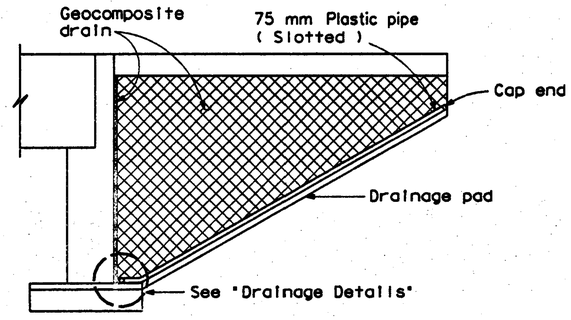
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RELEASED 3-25-97

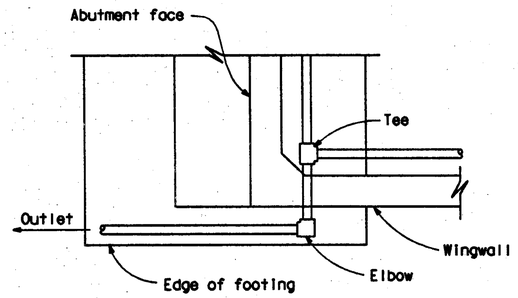


TYPICAL PLAN ①

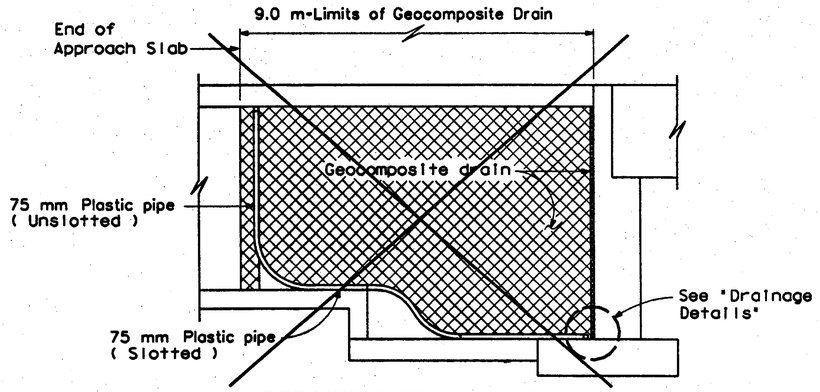
Abutment 3 - Left Structure Shown, Others Similar



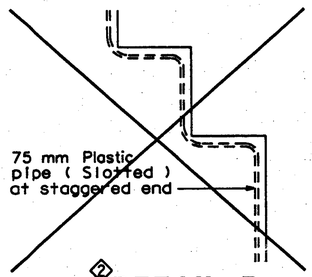
CANTILEVER WINGWALL SECTION F-F



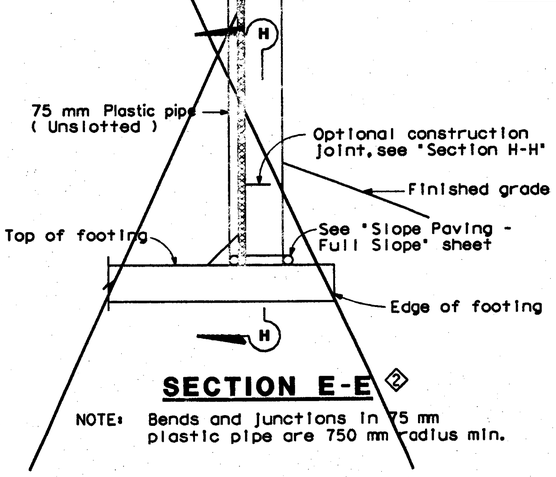
DETAIL D



② RETAINING WALL WINGWALL SECTION G-G

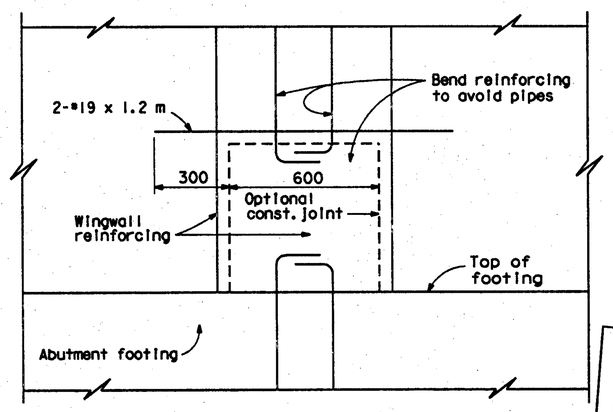


② DETAIL B

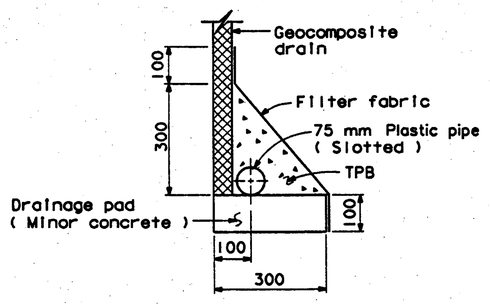


② SECTION E-E

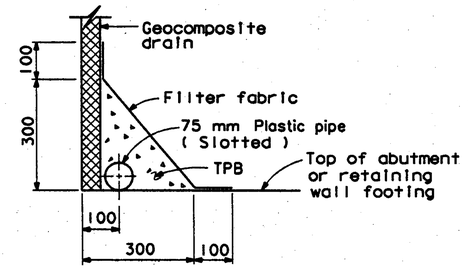
NOTE: Bends and junctions in 75 mm plastic pipe are 750 mm radius min.



① SECTION H-H



WITHOUT FOOTING



WITH FOOTING

DRAINAGE DETAILS

AS BUILT VL 6-17-04
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-29-03

NO AS BUILT CHANGES

90.61

"SPECIAL DETAILS"
NO SCALE
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	428	461

REGISTERED ENGINEER - CIVIL
MICHEAL SCOTT TRAFFALIS No. C46883 Exp. 06/30/03 CIVIL
7-2-01
PLANS APPROVAL DATE

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA. 95834

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STANDARD DRAWING					
FILE NO. XS 22-17	DESIGN	BY M. TRAFFALIS	CHECKED E. THORKILDSEN	APPROVAL RECOMMENDED BY	① Revised Detail
DRAWING DATE Revised	DETAILS	BY R. YEE	CHECKED E. THORKILDSEN	DESIGN SUPERVISOR	② Detail Not Needed
	SUBMITTED BY M. HA				

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
DIVISION OF STRUCTURES
STRUCTURE DESIGN

BRIDGE NO. 42-299L/R
KILOMETER POST

ROUTE 180/99 SEPARATION
STRUCTURE APPROACH DRAINAGE DETAILS

CU 06222
EA 342321

DISREGARD PRINTS BEARING EARLIER REVISION DATES →
REVISION DATES (PRELIMINARY STAGE ONLY): 1/30/98 | 2/05/98 | 6/19/98 | 2/22/99 | 6/24/99 | 12/30/99 | 3/27/0

SHEET 17 OF 19

DS OSD 2147A (METRIC) (REV. 2/25/97)

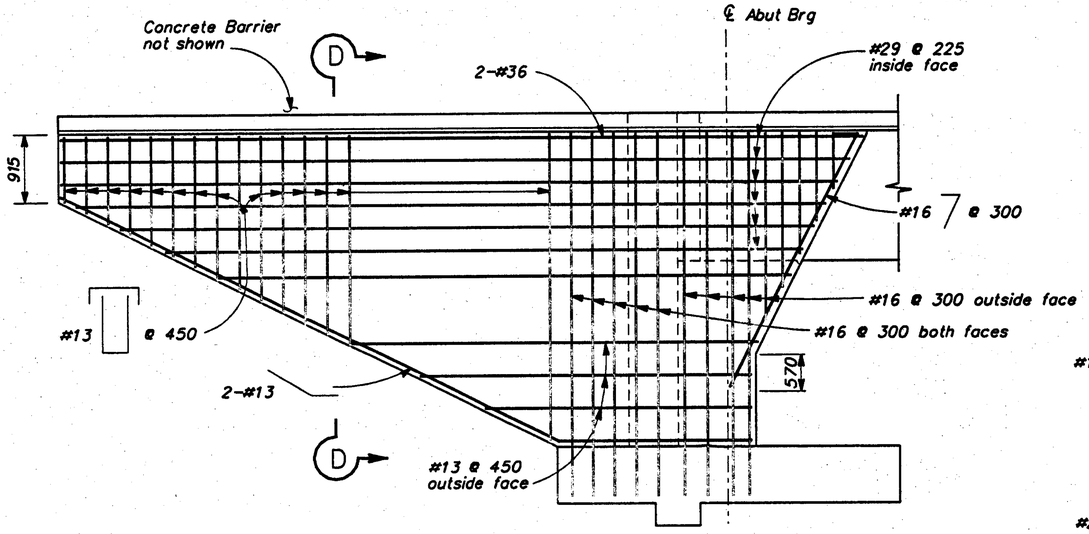
ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

FILE: /2227A/DGN/ITE30SEP/805227.DGN 15-apr-01

USERNAME -> USER PROJECT

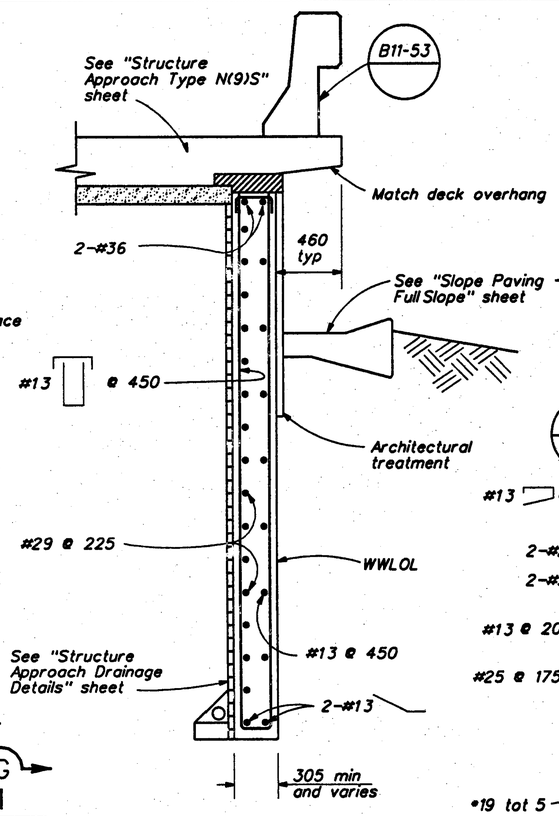
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ClibPDF - www.fastio.com



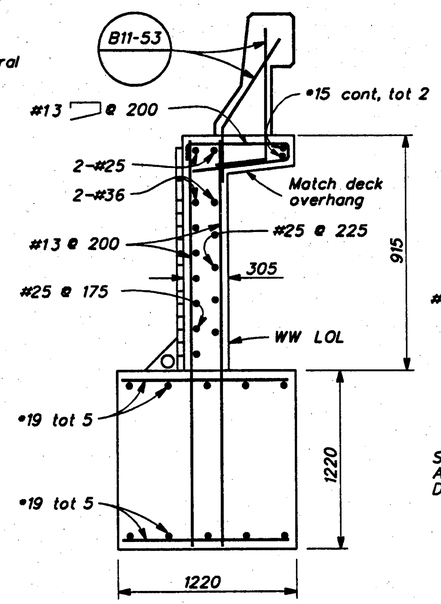
WINGWALL ELEVATION

Left Bridge, Abutment 3 north wingwall shown, other wingwalls similar
Scale: 1:40



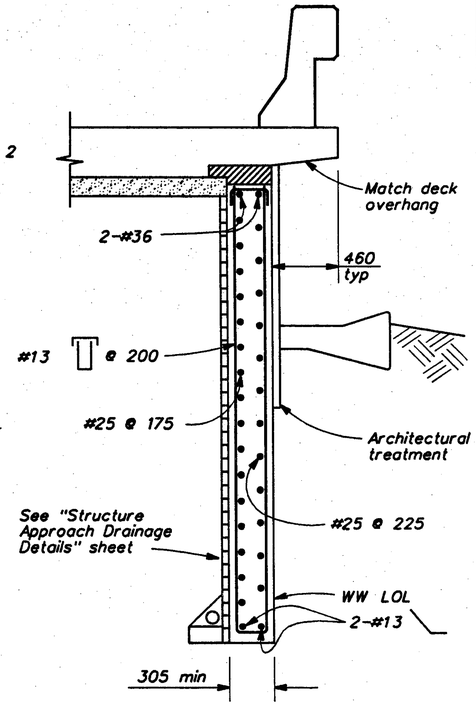
SECTION D-D

Scale: 1:20



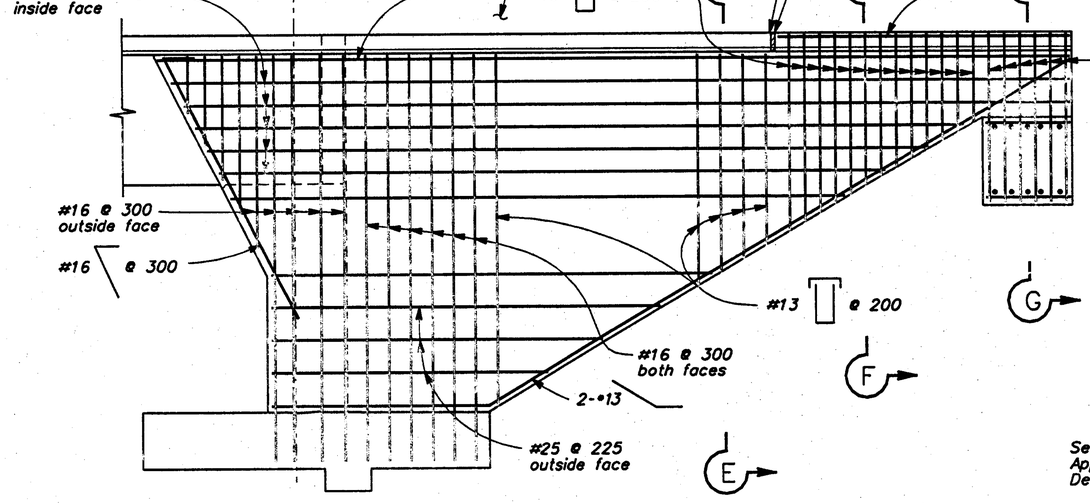
SECTION G-G

Scale: 1:20
For details not shown see "Section E-E"



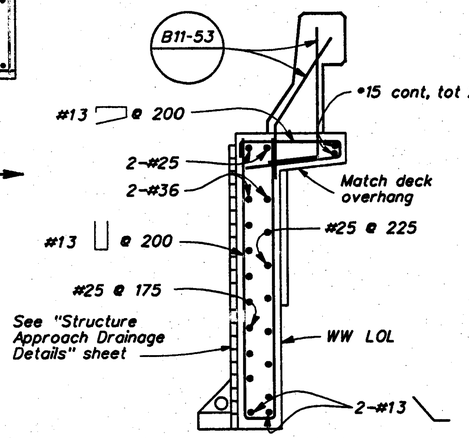
SECTION E-E

Scale: 1:20



ABUTMENT 3 SOUTH WINGWALL - LEFT STRUCTURE

Scale: 1:40



SECTION F-F

Scale: 1:20

NO AS BUILT CHANGES

AS BUILT 7/19/04 VL

CORRECTIONS BY Peter Mona

CONTRACT NO. 06-342324

DATE 9-29-03

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	419	461

Caltrans Metric

REGISTERED CIVIL ENGINEER — MICHAEL SCOTT TRAFFALIS — No. C46883 — Exp. 06/30/03 — CIVIL — STATE OF CALIFORNIA

7-2-01
PLANS APPROVAL DATE

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA. 95834

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B.Marsey for Joel Escabar
DESIGN OVERSIGHT
4-18-01
SIGN OFF DATE

DESIGN	BY E. Wojewoda	CHECKED A. Dubovik	
DETAILS	BY T. Burns	CHECKED S. Kazmi	
QUANTITIES	BY E. Wojewoda	CHECKED C. Ramirez	

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

M. Traffalis
PROJECT ENGINEER

CU 06222
EA 342321

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

BRIDGE NO.	ROUTE 180/99 SEPARATION
42-299L/R	ABUTMENT DETAILS NO. 3
KILOMETER POST 90.61	

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)								SHEET	OF
1/8/98	1/30/98	2/05/98	6/01/98	6/19/98	12/22/98	6/24/99	12/30/99	8	19

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	418	461

Caltrans Metric

Michael Scott Traffalis
REGISTERED CIVIL ENGINEER

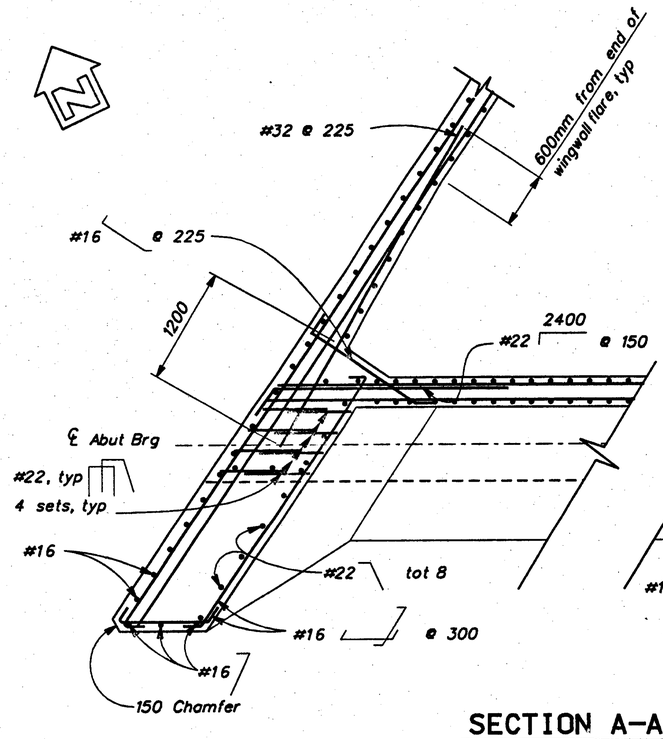
7-2-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL SCOTT TRAFFALIS — No. C46883 — Exp. 06/30/03 — CIVIL — STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA 95834

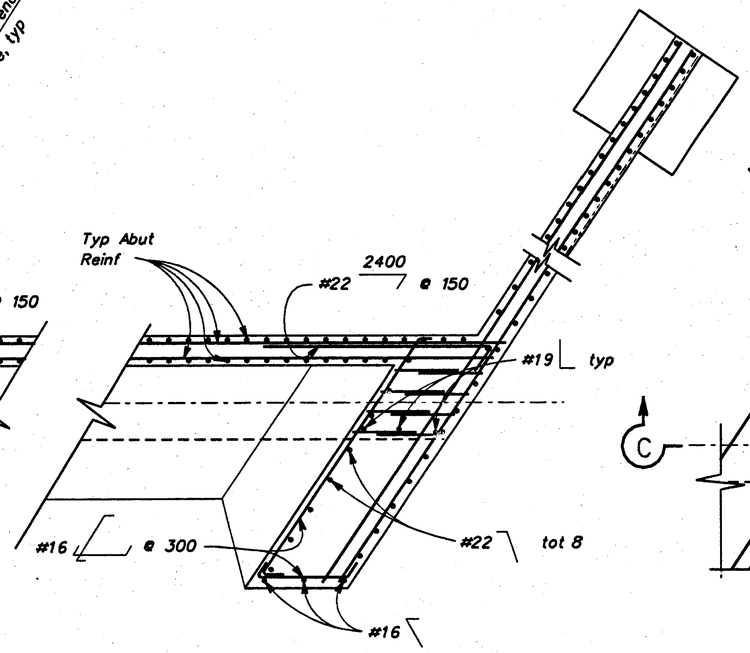
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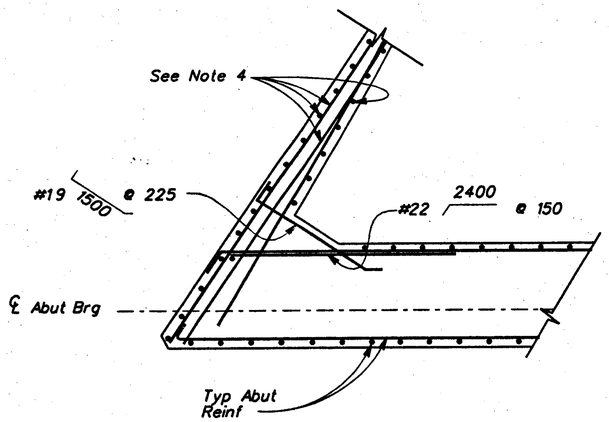
SECTION A-A

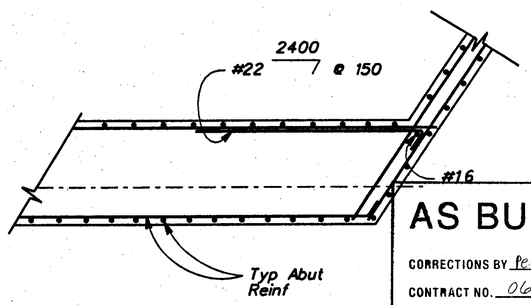
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NOTES:

1. For location of "Section A-A" and "Section B-B" see "Abutment Layout" sheet.
2. "Section A-A" and "Section B-B" are shown for Abutment 3 - Left bridge, other abutments similar.
3. Architectural treatment not shown.
4. For size and spacings, see "Abutment Details No. 3" sheet.



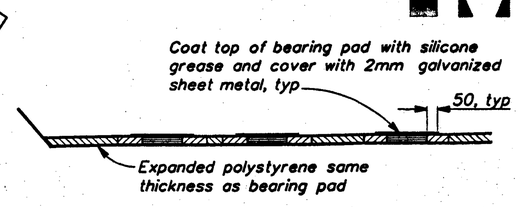


SECTION B-B

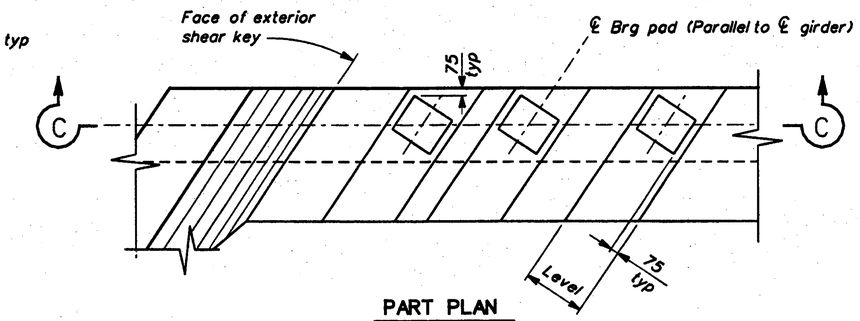
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AS BUILT VL 6-17-04
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-29-03

NO AS BUILT CHANGES



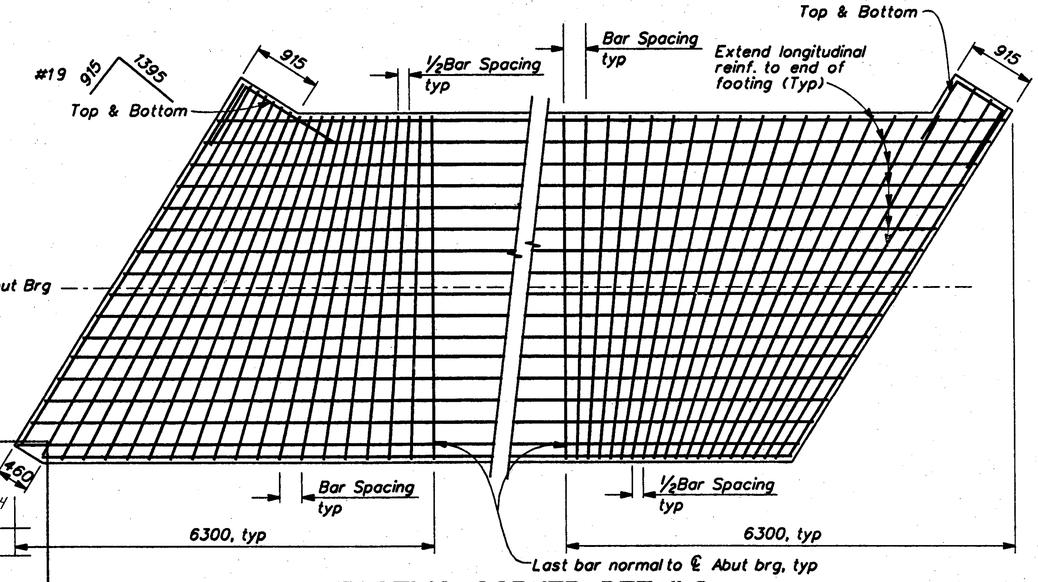
SECTION C-C



PART PLAN

BEARING PAD DETAIL

Scale: 1:40



FOOTING CORNER DETAILS

Scale: 1:40

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DESIGN	BY E. Wojewoda	CHECKED A. Dubovik	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	M. Traffalis PROJECT ENGINEER	BRIDGE NO. 42-299L/R
DETAILS	BY T. Burns	CHECKED S. Kazmi			KILOMETER POST 90.61
QUANTITIES	BY E. Wojewoda	CHECKED C. Ramirez			ROUTE 180/99 SEPARATION

BZ Massey for Joel Escabar
DESIGN OVERSIGHT
4-18-01
SIGN OFF DATE

ABUTMENT DETAILS NO. 2

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

CU 06222
EA 342321

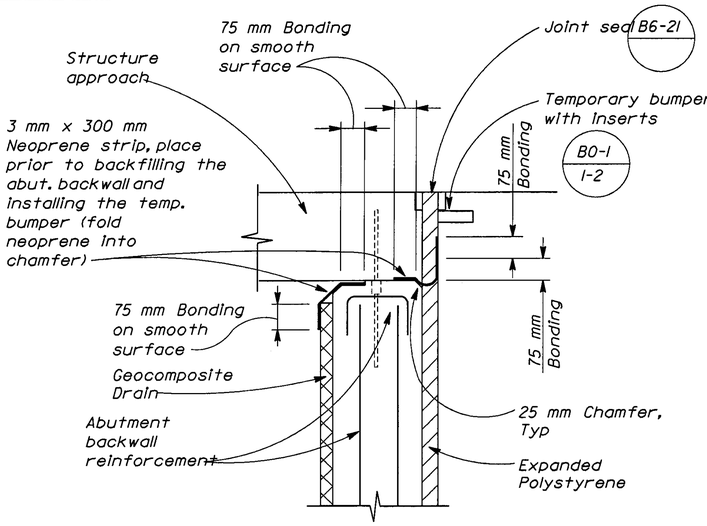
DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)									SHEET	OF
7/8/98	7/30/98	2/05/98	6/11/98	6/19/98	12/22/98	6/24/99	12/30/99	3/27/01	7	19

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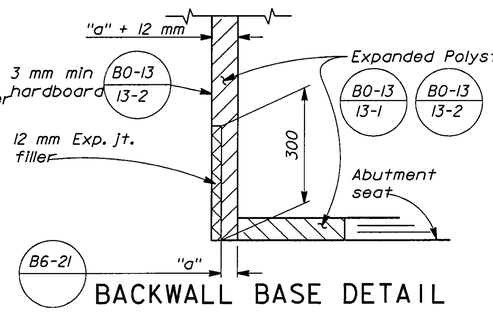
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JOINT PROTECTION DETAIL

Scale: 1:10



BACKWALL BASE DETAIL

No Scale

MARK	DATE	DECRIPTIONS	BY	CH'D
2	7-01-02	Changed size of utility opening	CER	TGT
1	7-01-02	Added detail	CER	TGT
REVISIONS				

CONTRACT CHANGE ORDER NO. 34
SHEET 5 OF 18

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99 180	34.7/35.5 R89.1/R91.0	417R1	461

Michael Scott Traffalis 7-1-02
REGISTERED CIVIL ENGINEER

7-2-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL SCOTT TRAFFALIS — No. C46883 — Exp. 06/30/03 — CIVIL — STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA. 95834

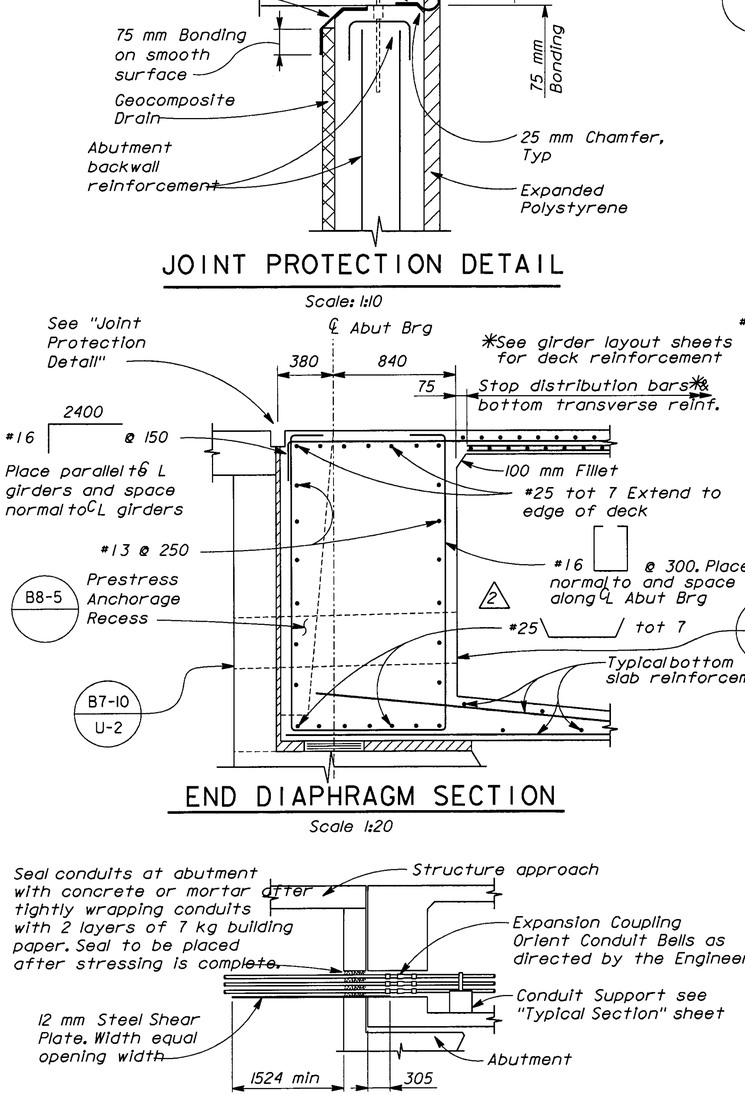
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AS BUILT VL 7/19/04
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-29-03

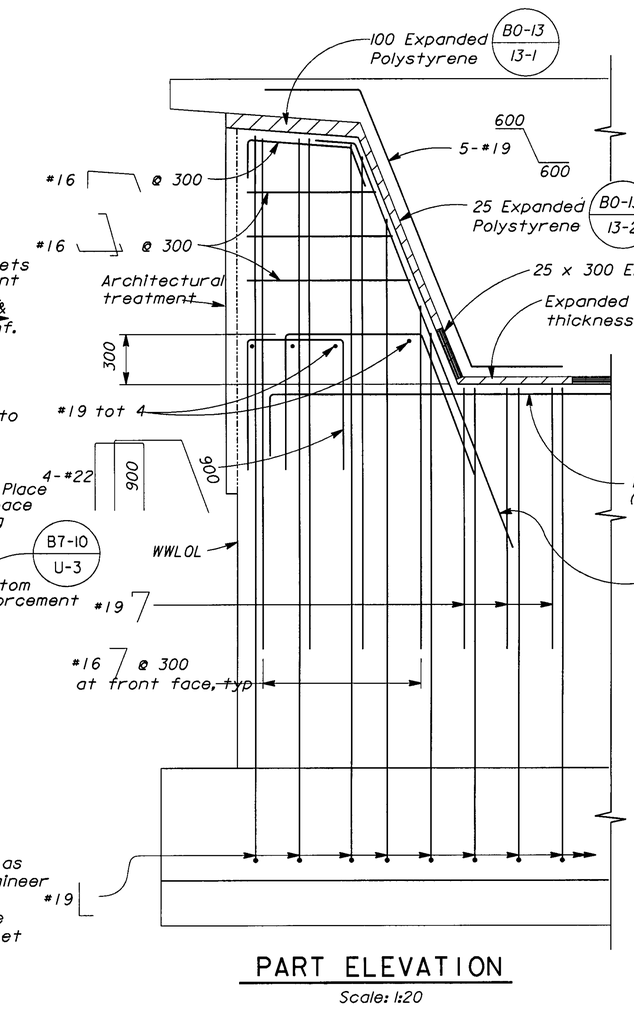
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Scale 1:20



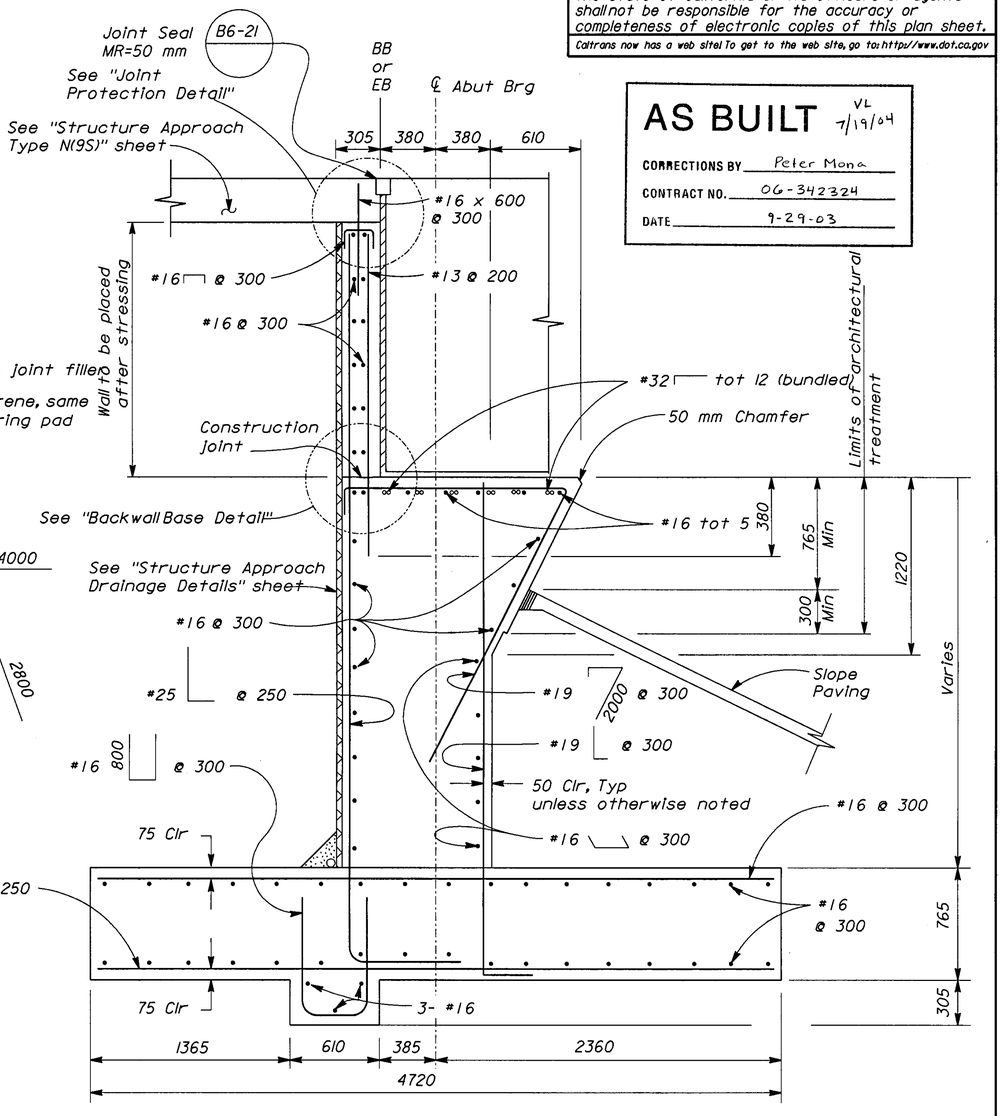
CONDUIT INSTALLATION AT ABUTMENT 1

No Scale



PART ELEVATION

Scale: 1:20



ABUTMENT SECTION

Scale: 1:20

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

FILE: i12227/DGN/rte180sep/180sAB02-r1.DGN 1-Jul-02

DESIGN OVERSIGHT Joel Escabar for John Lojewski 7/9/02 SIGN OFF DATE	DESIGN	BY E. Wojewoda	CHECKED A. Dubovik	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	M. Traffalis PROJECT ENGINEER
	DETAILS	BY T. Burns	CHECKED S. Kazmi		
	QUANTITIES	BY E. Wojewoda	CHECKED C. Ramirez		

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

CU 06222
EA 342321

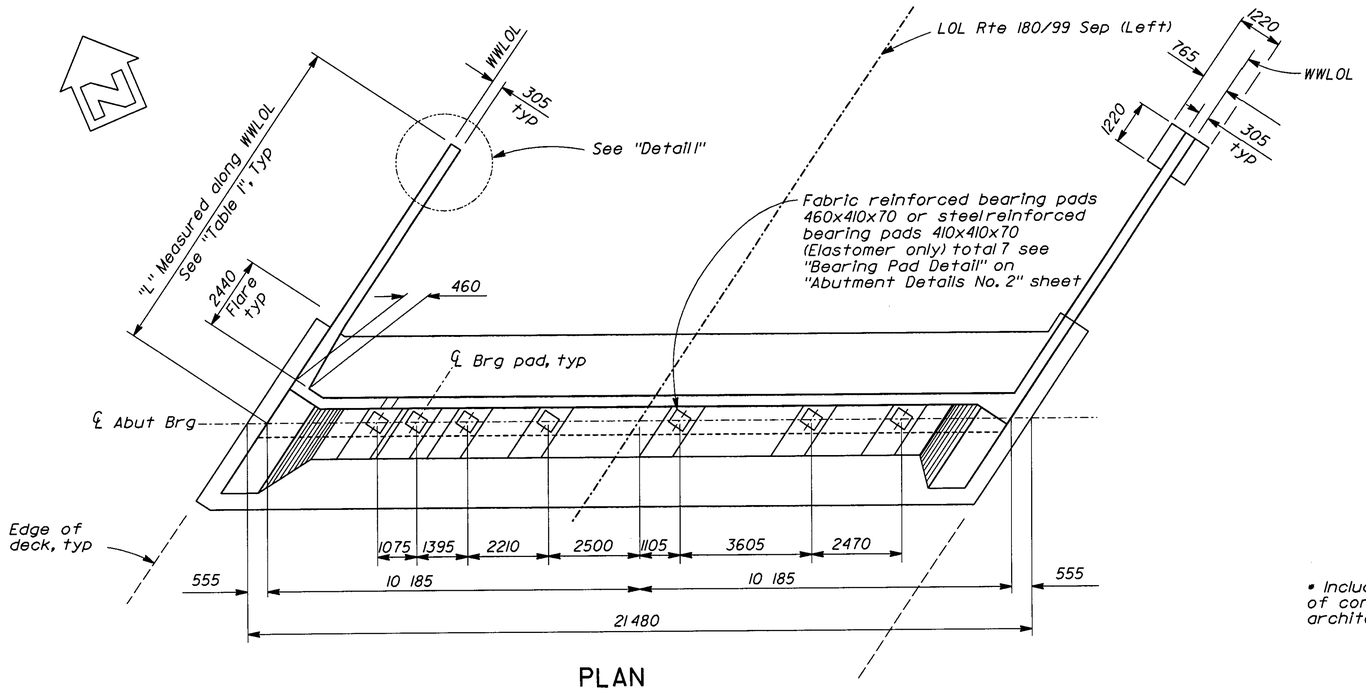
BRIDGE NO. 42-299L/R
KILOMETER POST 90.61

ROUTE 180/99 SEPARATION
ABUTMENT DETAILS NO. 1

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)									SHEET	OF
10/15/97	1/9/98	1/30/98	2/25/98	6/19/98	6/19/98	7/22/98	6/29/99	7/30/99	6	19

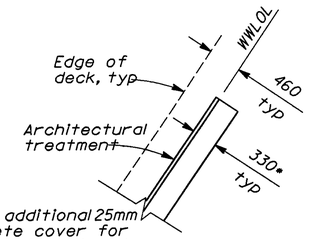
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PLAN

Abut 3 - Left structure shown, other abutments similar

Scale: 1:80



* Includes additional 25mm of concrete cover for architectural treatment

DETAIL I

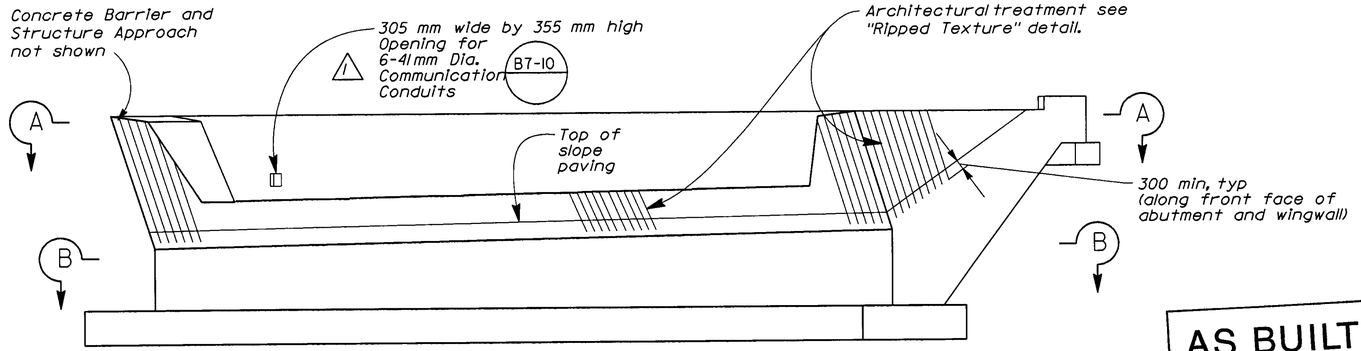
No Scale

TABLE I

(Wingwall Dimensions)

Location	North	South
Abut 1, Left	8700	9150
Abut 3, Left	8400	11130
Abut 1, Right	8250	9150
Abut 3, Right	9150	9150

Note: Only south wingwall for Abut 3 -Left structure will have a footing



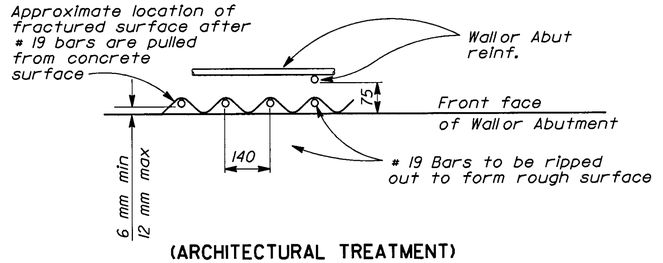
ELEVATION

Abut 3 - Left structure shown, other abutments similar

Scale: 1:80

NOTES:

1. Footing key in "Elevation" not shown.
2. For "Sections A-A" and "Section B-B" see "Abutment Details No. 2" sheet.



(ARCHITECTURAL TREATMENT)

RIPPED TEXTURE

No Scale

AS BUILT VL 7/19/04

CORRECTIONS BY Peter Mona

CONTRACT NO. 06-342324

DATE 9-29-03

MARK	DATE	DECRIPTIONS	BY	CH'D
		REVISIONS		
1	7-01-02	Changed size of utility opening	CER	TGT

CONTRACT CHANGE ORDER NO. 34

SHEET 4 OF 18

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99 180	34.7/35.5 R89.1/R91.0	416RI	461

Caltrans Metric

Michael Scott Traffalis 7-1-02

REGISTERED CIVIL ENGINEER

7-2-01

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL SCOTT TRAFFALIS — No. C46883 — Exp. 06/30/03 — CIVIL — STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
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John Fujimoto for Joel Escabar
DESIGN OVERSIGHT
7/2/02
SIGN OFF DATE

	BY		CHECKED	
DESIGN	E. Wojewoda		A. Dubovik	
DETAILS	T. Burns		S. Kazmi	
QUANTITIES	E. Wojewoda		C. Ramirez	

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

M. Traffalis
PROJECT ENGINEER

CU 06222
EA 342321

BRIDGE NO. 42-299L/R
KILOMETER POST 90.61

ROUTE 180/99 SEPARATION
ABUTMENT LAYOUT

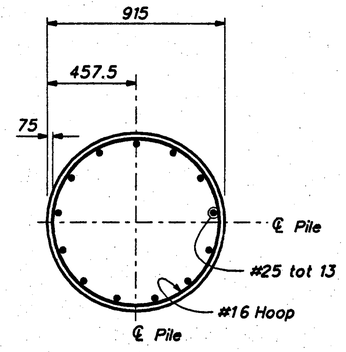
FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)										SHEET	OF
10/15/97	1/16/98	1/30/98	2/05/98	5/14/98	6/19/98	12/22/98	6/29/99	12/30/99	3/21/01	5	19

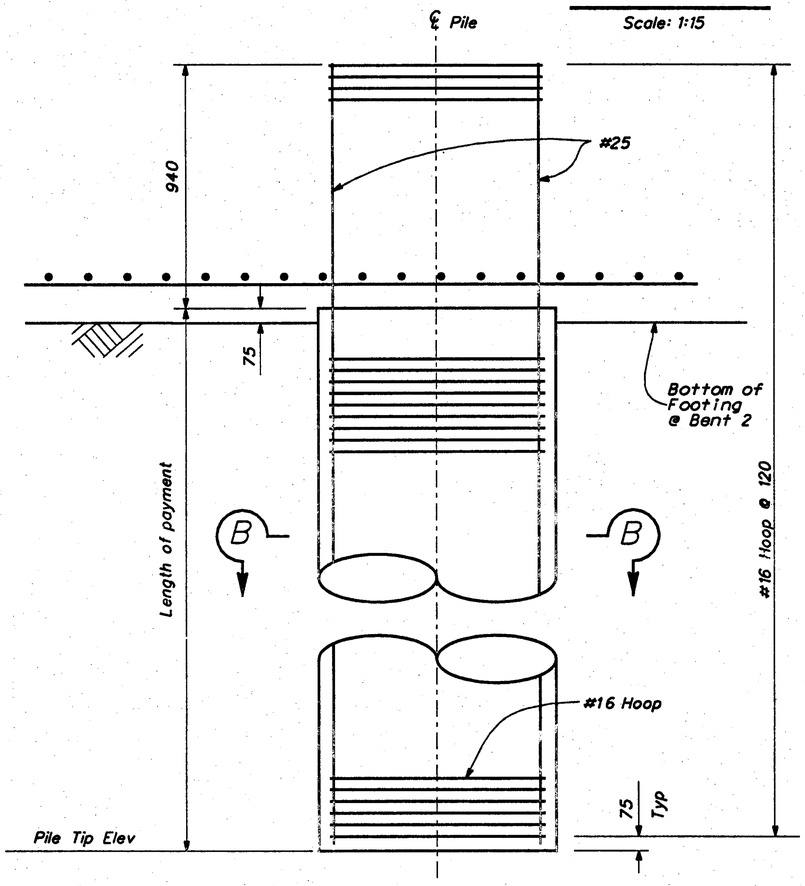
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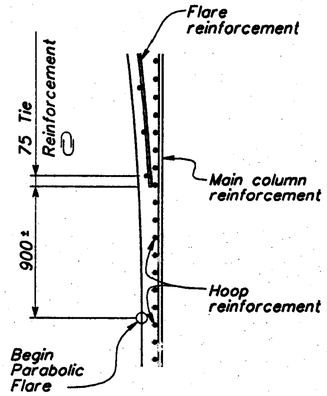
SECTION B-B

Scale: 1:15



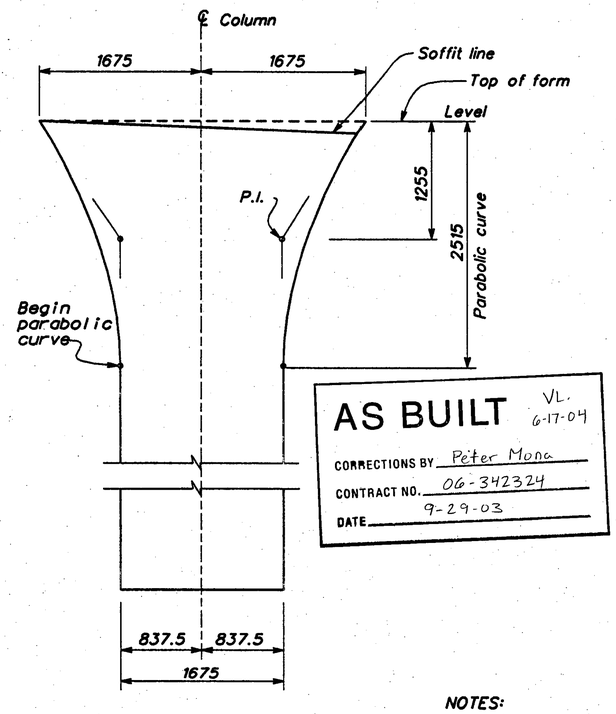
900 CAST-IN-DRILLED-HOLED (CIDH) CONCRETE PILE

Scale: 1:20



HOOP AND TIE DETAIL

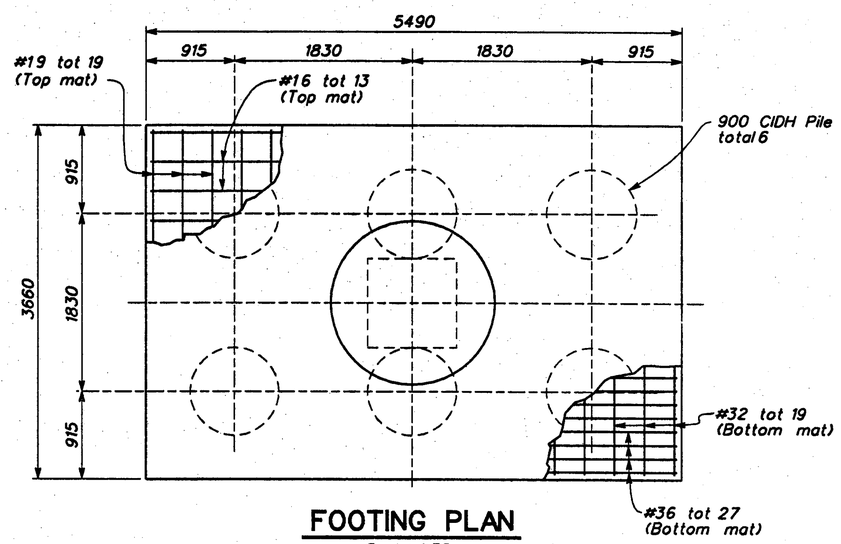
No Scale



COLUMN GEOMETRICS

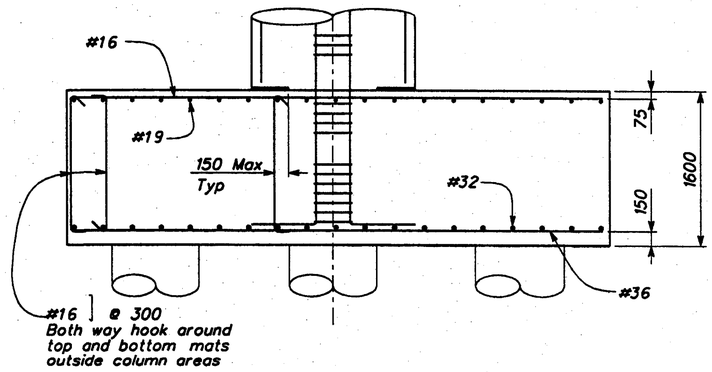
No Scale

AS BUILT VL. 6-17-04
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-29-03



FOOTING PLAN

Scale: 1:30



FOOTING ELEVATION

Scale: 1:30

NOTES:

1. Lap splice in longitudinal reinforcement for the CIDH pile not allowed.
2. All hoops shall be Butt Welded Continuous Hoops. See detail on "Girder Details" sheet.

NO AS BUILT CHANGES

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	422	461

Caltrans Metric

REGISTERED CIVIL ENGINEER — MICHAEL SCOTT TRAFFALIS

7-2-01
PLANS APPROVAL DATE

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B Z Marcy for Joel Escabar
DESIGN OVERSIGHT
4-18-01
SIGN OFF DATE

	BY		CHECKED
DESIGN	E. Wojewoda		A. Dubovik
DETAILS	T. Burns		S. Kazmi
QUANTITIES	E. Wojewoda		C. Ramirez

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

M. Traffalis
PROJECT ENGINEER

CU 06222
EA 342321

BRIDGE NO. 42-299L/R
KILOMETER POST 90.61

ROUTE 180/99 SEPARATION
BENT DETAILS NO. 3

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)									SHEET	OF
10/15/97	1/26/98	1/30/98	2/05/98	6/01/98	6/19/98	12/29/98	6/24/99	12/30/99	11	19
3/27/01										

FILE: /12227/DGN/rte180sep/180sbd03.DGN 16-apr-01

br42299LR#11of19.tif

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	421	461

Caltrans Metric

Michael Scott Traffalis
REGISTERED CIVIL ENGINEER

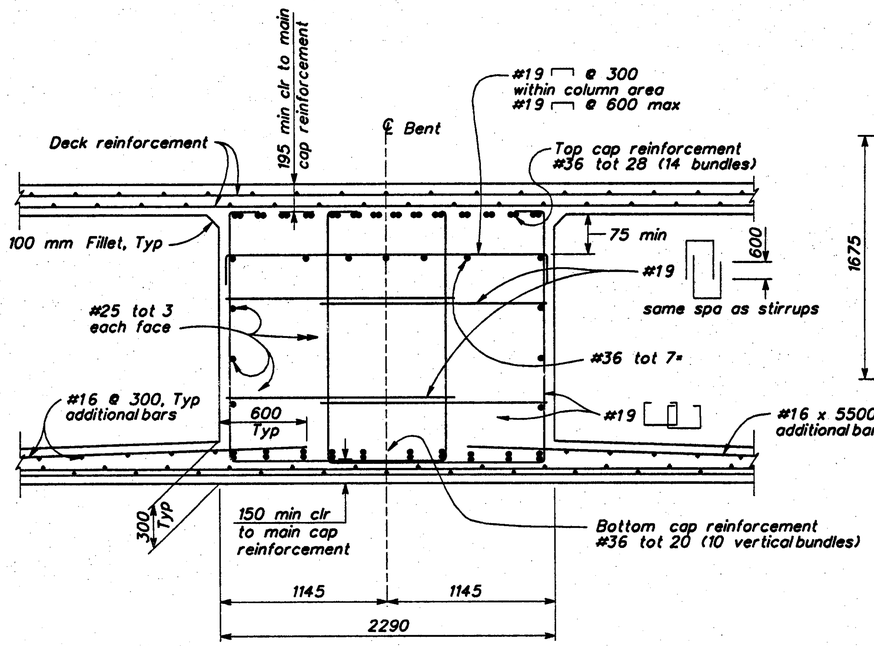
7-2-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL SCOTT TRAFFALIS — No. C46883 — Exp. 06/30/03 — CIVIL — STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA. 95834

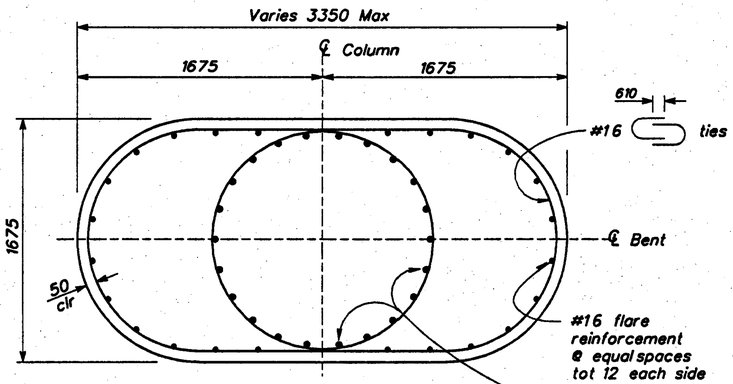
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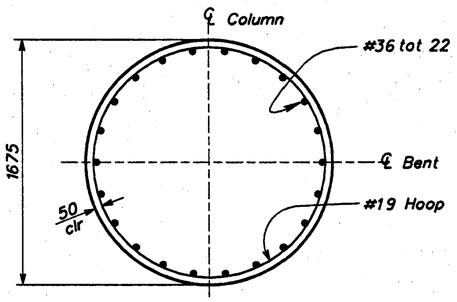


* Place reinforcement as required to clear pretstress duct

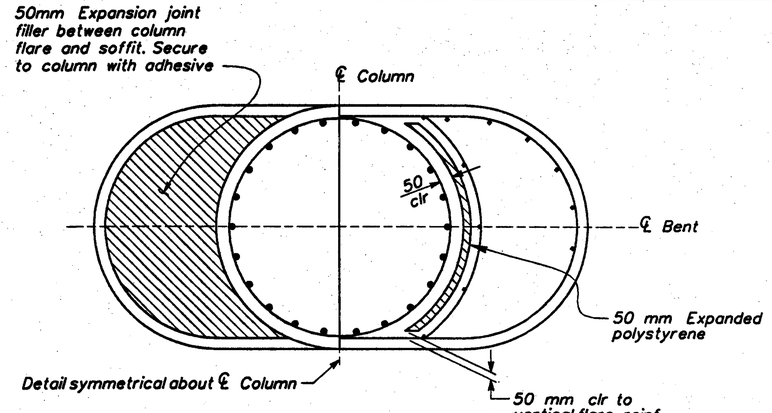
SECTION A-A
Scale: 1:20



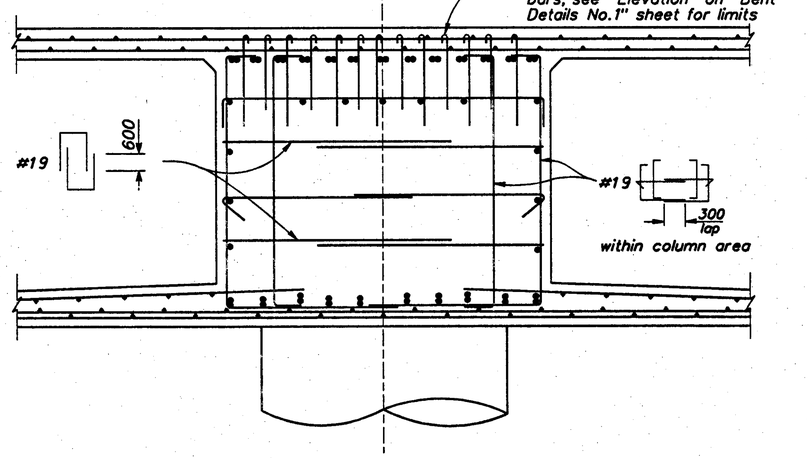
SECTION B-B
Scale: 1:20



SECTION C-C
Scale: 1:20



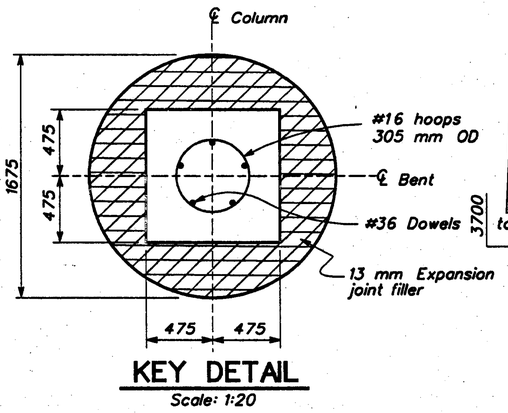
SECTION E-E



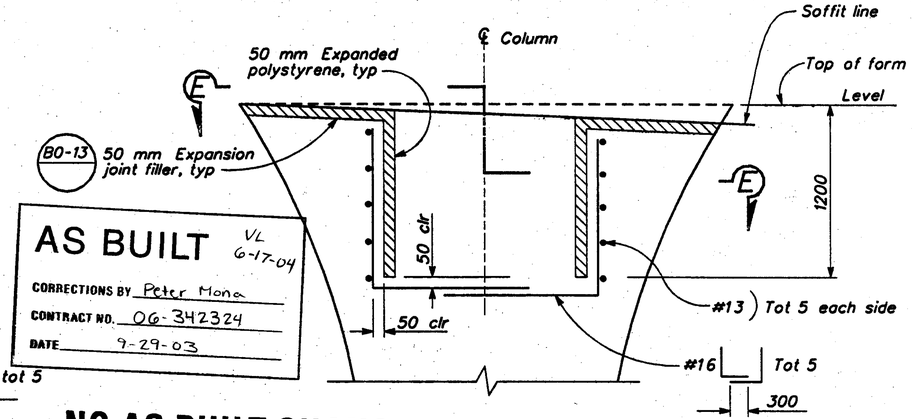
Column reinforcing not shown for clarity

SECTION D-D
Scale: 1:20

For details not shown, see "Section A-A"



KEY DETAIL
Scale: 1:20



AS BUILT VL 6-17-04
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-29-03

NO AS BUILT CHANGES

FLARE ISOLATION DETAIL
Scale: 1:20

NOTES:

1. For location of Sections A-A, B-B, C-C and D-D see "Bent Details No. 1" sheet.
2. All hoops shall be Butt Welded Continuous Hoops. See detail on "Girder Details" sheet.

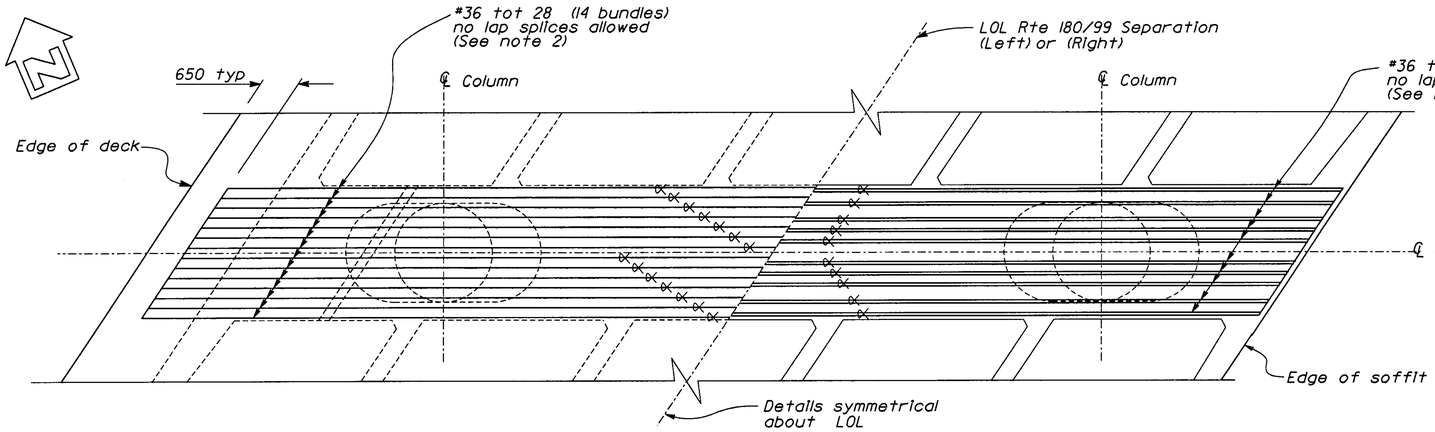
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

B2 Marcy for Joel Escabar, DESIGN OVERSIGHT, 4-18-01, SIGN OFF DATE		DESIGN: E. Wojewoda / A. Dubovik	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	M. Traffalis, PROJECT ENGINEER	BRIDGE NO. 42-299L/R; KILOMETER POST 90.61
		DETAILS: T. Burns / S. Kazmi			ROUTE 180/99 SEPARATION
		QUANTITIES: E. Wojewoda / C. Ramirez			BENT DETAILS NO. 2
FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100				CU 06222 EA 342321	DISREGARD PRINTS BEARING EARLIER REVISION DATES → REVISION DATES (PRELIMINARY STAGE ONLY): 10/15/97, 1/26/98, 1/30/98, 2/05/98, 6/07/98, 6/19/98, 12/29/98, 6/24/99, 12/30/99, 3/27/01	SHEET 10	OF 19

FILE:/12227/DGN/rte180sep/180sbd02.DGN 16-apr-01

br42299LR#10of19.tif

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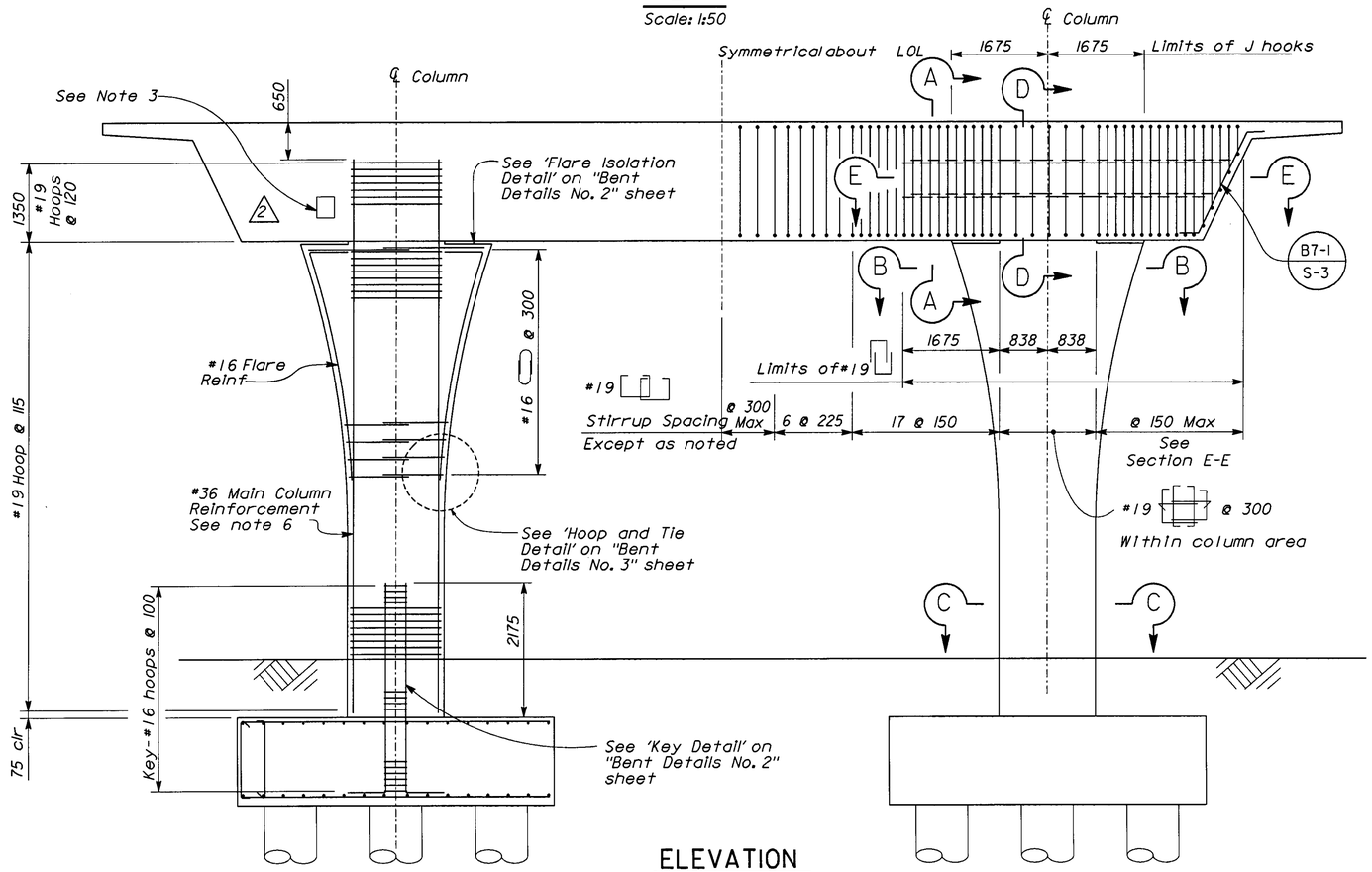


TOP REINFORCEMENT

BOTTOM REINFORCEMENT

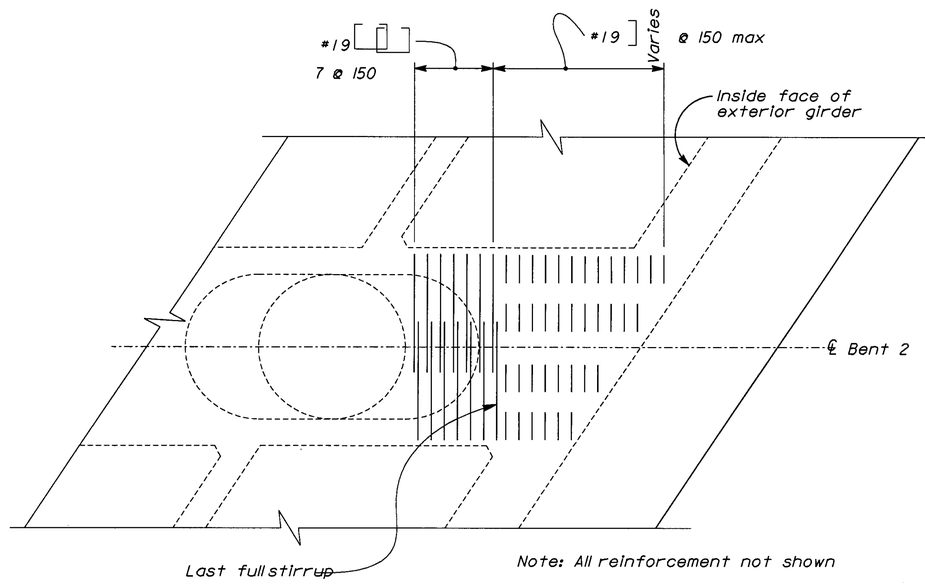
PLAN

Scale: 1:50



ELEVATION

Scale: 1:50



Note: All reinforcement not shown

SECTION E-E

No Scale

NOTES:

1. For Sections A-A, B-B, C-C, D-D and see "Bent Details No. 2" sheet.
2. All bent cap top and bottom main reinforcement shall be continuous. Mechanical splices of adjacent bars must be staggered 1000 mm minimum.
3. 305 mm wide by 355 mm high opening for communication conduits, left structure only. See "Typical Section" and Road Plan" B7-10 B14-3
4. For "Column Geometry" and "Footing Plan" see "Bent Details No. 3" sheet.
5. No splice in main column reinforcement will be allowed.

⊗ or ⊗ Indicates bundled bars.

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99 180	34.7/35.5 R89.1/R91.0	420R1	461

Caltrans Metric

Michael Scott Traffalis 7-1-02
REGISTERED CIVIL ENGINEER

7-2-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL SCOTT TRAFFALIS — No. C46883 — Exp. 06/30/03 — CIVIL — STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
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AS BUILT VL 7/19/04

CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-29-03

MARK	DATE	REVISIONS	BY	CH'D
2	7-01-02	Change shape of opening	CER	TGT
1	7-01-02	Change note 3	CER	TGT

CONTRACT CHANGE ORDER NO. 34
SHEET 6 OF 18

John Izumoto for Joel Escabar
DESIGN OVERSIGHT
7/9/02
SIGN OFF DATE

DESIGN	BY E. Wojewoda	CHECKED A. Dubovik
DETAILS	BY T. Burns	CHECKED S. Kazmi
QUANTITIES	BY E. Wojewoda	CHECKED C. Ramirez

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

M. Traffalis
PROJECT ENGINEER

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

CU 06222
EA 342321

BRIDGE NO. 42-299L/R
KILOMETER POST 90.61

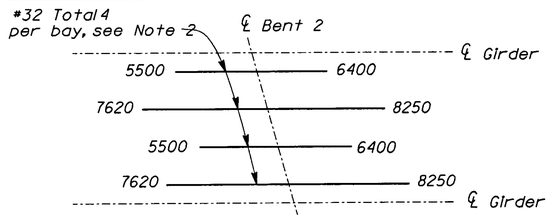
ROUTE 180/99 SEPARATION
BENT DETAILS NO. 1

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)									SHEET	OF
10/15/01	1/30/02	2/05/02	5/09/02	6/19/02	7/22/02	6/26/02	12/30/02	03/27/03	9	19

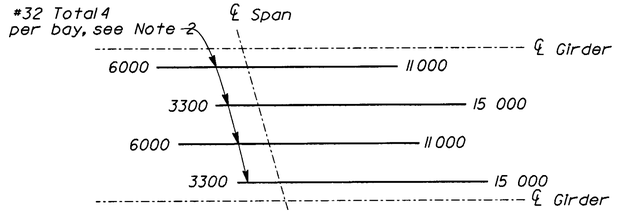
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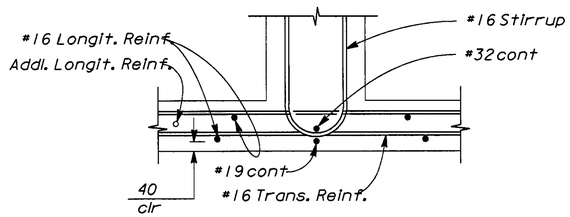
ADDITIONAL LONGITUDINAL REINFORCEMENT-TOP SLAB

(Right structure only)
No Scale



ADDITIONAL LONGITUDINAL REINFORCEMENT-BOTTOM SLAB

(Right structure - Span 2 only)
No Scale



DETAIL X

No Scale

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99 180	34.7/35.5 R89.1/R91.0	423RI	461

Michael Scott Traffalis 7-1-02
REGISTERED CIVIL ENGINEER

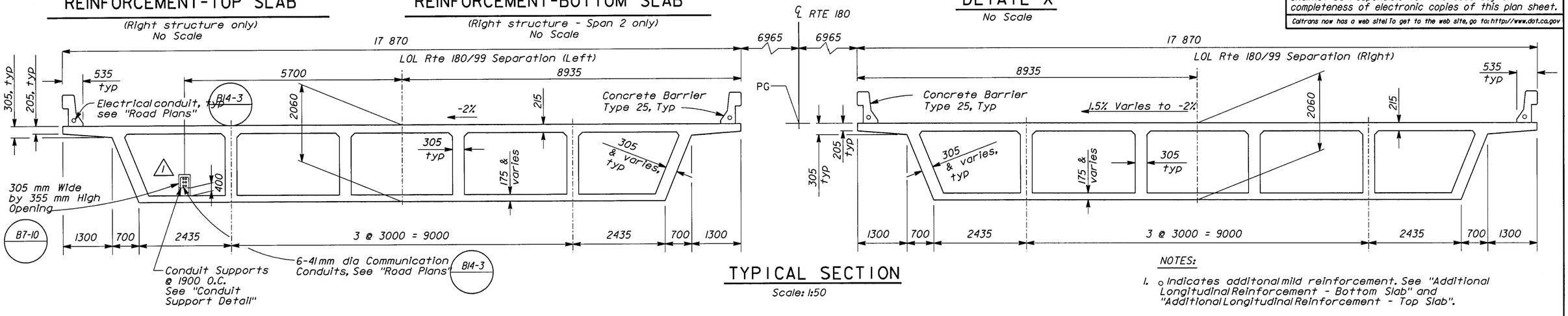
7-2-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL SCOTT TRAFFALIS — No. C46883 — Exp. 06/30/03 — CIVIL — STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA. 95834

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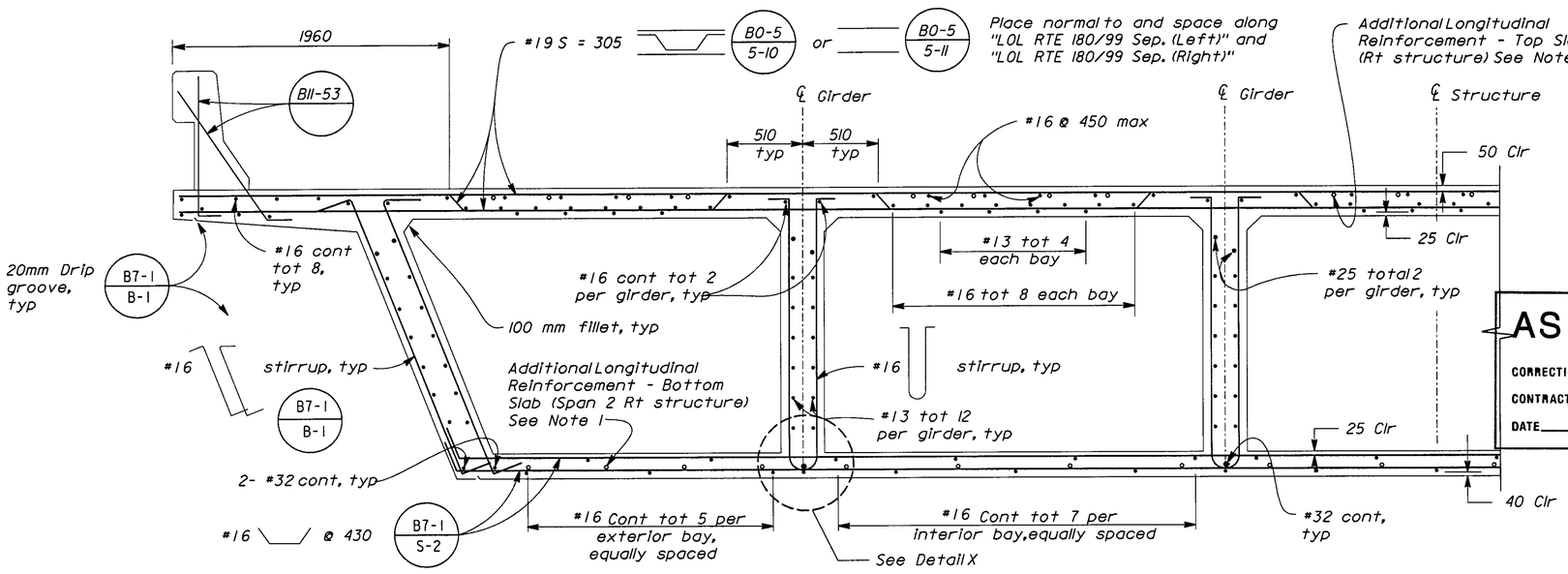


TYPICAL SECTION

Scale: 1:50

NOTES:

1. ○ Indicates additonal mild reinforcement. See "Additional Longitudinal Reinforcement - Bottom Slab" and "Additional Longitudinal Reinforcement - Top Slab".
2. Numbers at end of rebars show length of rebars in millimeters measured from ℄ Span and ℄ Bent.



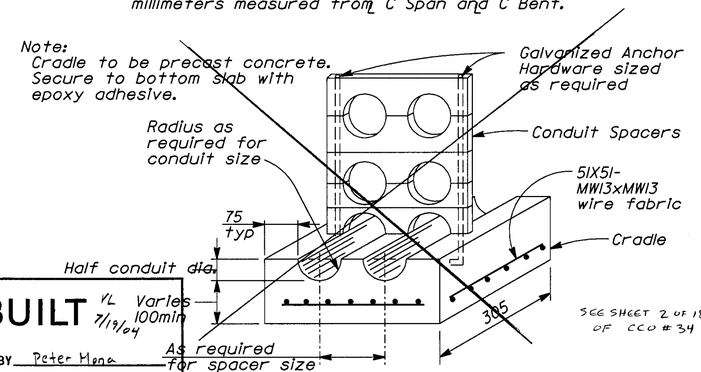
Place normal to and space along "LOL RTE 180/99 Sep. (Left)" and "LOL RTE 180/99 Sep. (Right)"

PART TYPICAL SECTION

B0-5 B7-1 B8-5

Scale: 1:20

Note: Cradle to be precast concrete. Secure to bottom slab with epoxy adhesive.



CONDUIT SUPPORT DETAIL

No Scale

AS BUILT 7/19/04 VL Varies 100min

CORRECTIONS BY Peter Mena
CONTRACT NO. 06-342324
DATE 9-29-03

MARK	DATE	REVISIONS	BY	CH'D
2	7-01-02	Added Conduit Support Detail	CER	TGT
1	7-01-02	Changed Utility opening size	CER	TGT

CONTRACT CHANGE ORDER NO. 34
SHEET 7 OF 18

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

John Iwawoto for Joel Escabar
DESIGN OVERSIGHT
7/9/02
SIGN OFF DATE

DESIGN	BY E. Wojewoda	CHECKED	A. Dubovik
DETAILS	BY T. Burns	CHECKED	S. Kazmi
QUANTITIES	BY E. Wojewoda	CHECKED	C. Ramirez

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

M. Traffalis
PROJECT ENGINEER

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

CU 06222
EA 342321

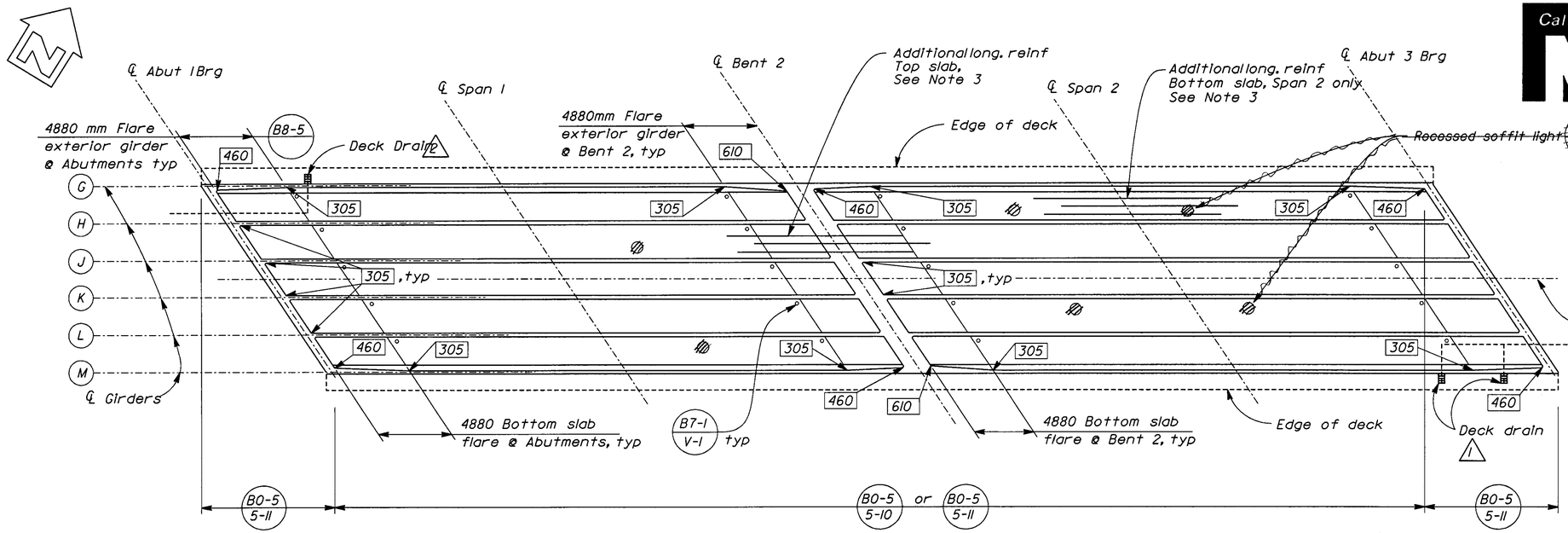
BRIDGE NO.	ROUTE 180/99 SEPARATION
42-299L/R	
KILOMETER POST	TYPICAL SECTION
90.61	

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)									SHEET	OF
10/15/97	1/8/98	1/30/98	2/05/98	6/01/98	6/09/98	10/29/98	6/29/99	12/30/99	12	19

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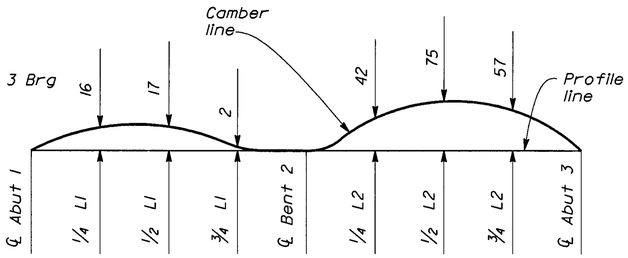
GIRDER LAYOUT - RIGHT STRUCTURE

Scale: 1:200

B0-5 B7-1 B8-5

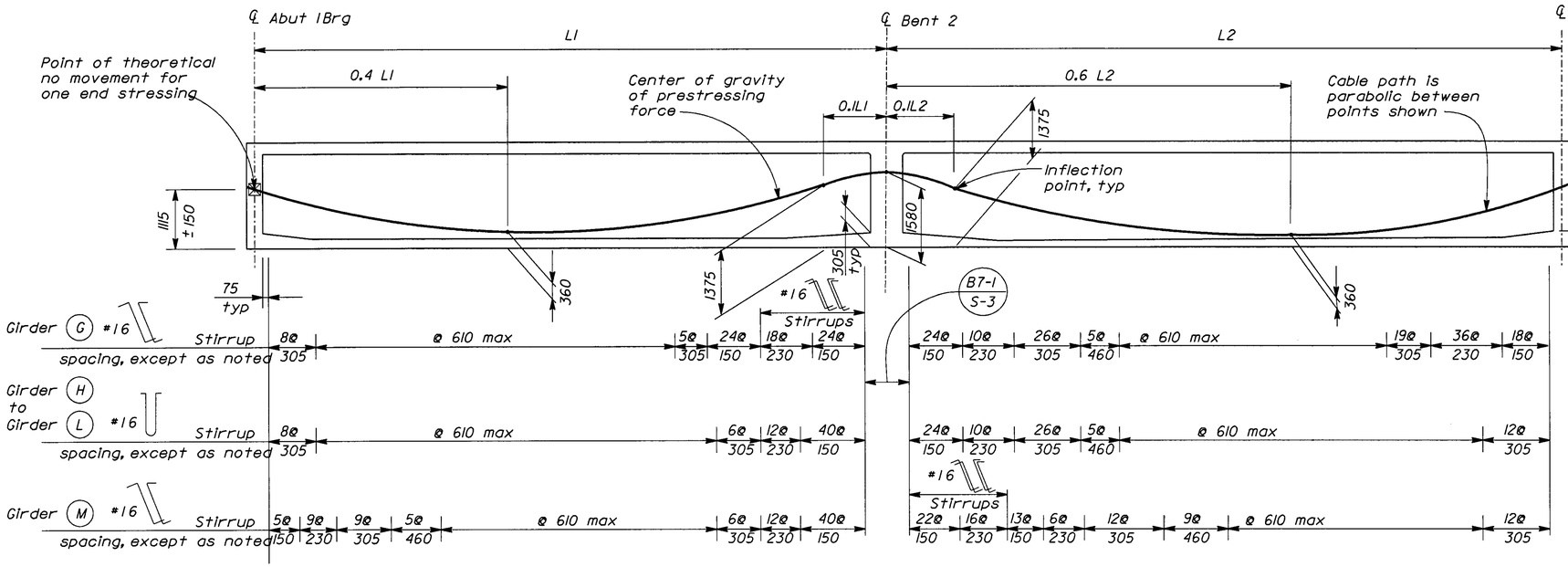
NOTES:

1. For 'Prestressing Notes' and 'Deck Corner Details' see "Girder Details" sheet.
2. 305 Indicates girder stem width in millimeters.
3. All bars not shown for clarity. For additional mild reinforcement see 'Additional Longitudinal Reinforcement-Bottom slab' on "Typical Section" sheet.
4. ~~For Recessed Soffit Lights see "Road Plans".~~ Deleted



CAMBER DIAGRAM

No Scale
(Does not include allowance for falsework settlement)



LONGITUDINAL SECTION - RIGHT STRUCTURE

No Scale

B8-5

AS BUILT

VL 7/19/04

CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-29-03

MARK	DATE	REVISIONS	BY	CH'D
2	11-15-01	Added drain	CER	ANS
1	11-15-01	Added drain	CER	ANS

CONTRACT CHANGE ORDER NO. 34
SHEET 8 OF 18

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5 R89.1/R91.0	425RI	461

Caltrans Metric

REGISTERED CIVIL ENGINEER
7-2-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL SCOTT TRAFFALIS — No. C46883 — Exp. 06/30/03 — CIVIL — STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA. 95834

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Joel Escabar for
DESIGN OVERSIGHT
12/3/01
SIGN OFF DATE

	BY	CHECKED
DESIGN	E. Wojewoda	A. Dubovik
DETAILS	T. Burns	S. Kazmi
QUANTITIES	E. Wojewoda	C. Ramirez

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

M. Traffalis
PROJECT ENGINEER

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS
0 20 40 60 80 100

CU 06222
EA 342321

BRIDGE NO. 42-299L/R
KILOMETER POST 90.61

ROUTE 180/99 SEPARATION
GIRDER LAYOUT NO 2

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)									SHEET	OF
10/15/97	1/8/98	1/30/98	2/05/98	6/09/98	6/15/98	6/23/98	6/26/98	7/16/99	3/27/01	14	19

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99 180	34.7/35.5 R89.1/R91.0	424RI	461

Caltrans Metric

Michael Scott Traffalis 7-1-02
REGISTERED CIVIL ENGINEER

7-2-01
PLANS APPROVAL DATE

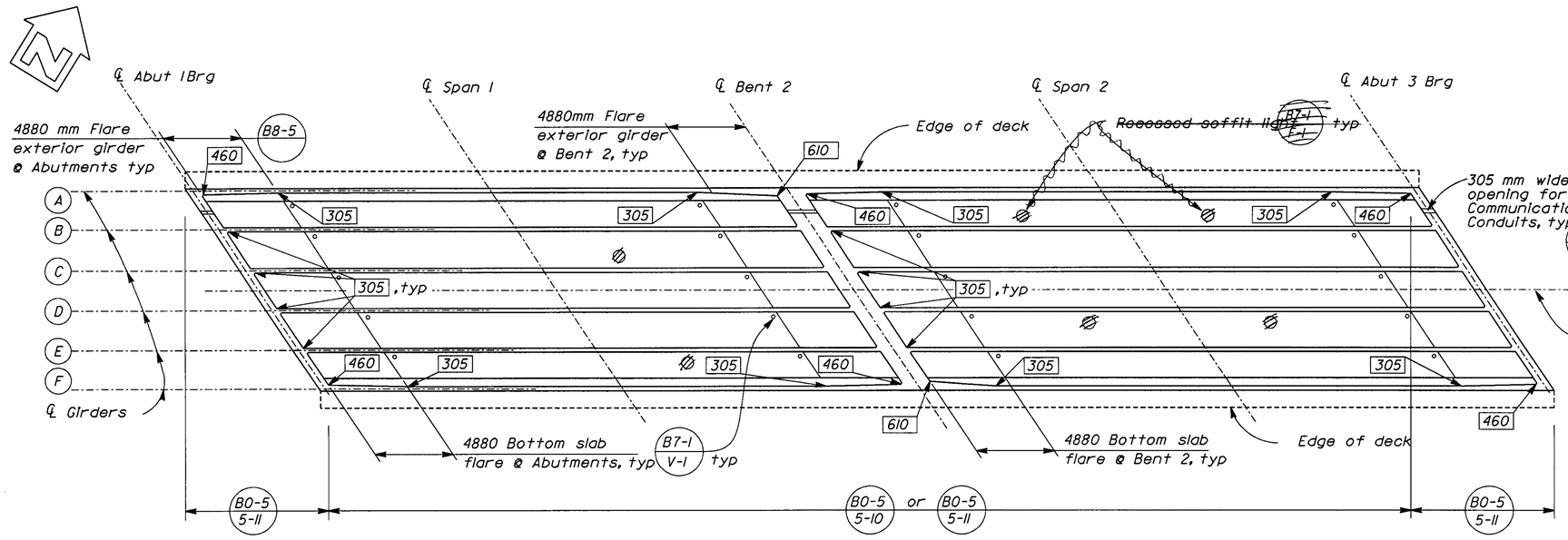
REGISTERED PROFESSIONAL ENGINEER — MICHAEL SCOTT TRAFFALIS — No. C46883 — Exp. 06/30/03 — CIVIL — STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
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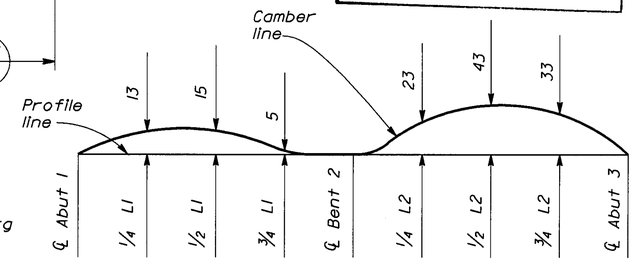
AS BUILT VL 7/19/04
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-29-03



GIRDER LAYOUT - LEFT STRUCTURE

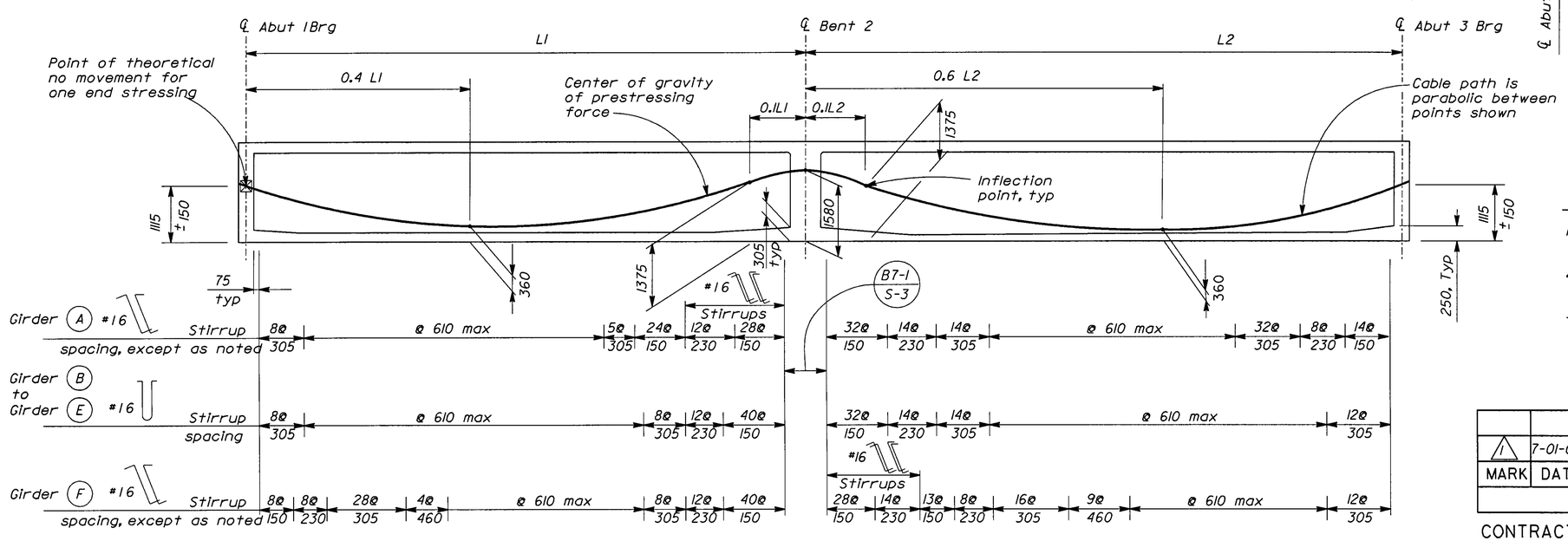
Scale: 1:200

B0-5 B7-1 B8-5



CAMBER DIAGRAM

No Scale
(Does not include allowance for falsework settlement)



LONGITUDINAL SECTION - LEFT STRUCTURE

No Scale

B8-5

NOTES:

1. For 'Prestressing Notes' and 'Deck Corner Details' see "Girder Details" sheet.
2. 305 Indicates girder stem width in millimeters.
3. ~~For Recessed Soffit Lights see "Road Plans".~~ DELETED

MARK	DATE	DECRIPTIONS	BY	CH'D
		REVISIONS		
1	7-01-02	Change note and size of utility opening	GER	TGT

CONTRACT CHANGE ORDER NO. 34
SHEET 9 OF 12

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

John Iyemoto for Joel Escabar
DESIGN OVERSIGHT
7/9/02
SIGN OFF DATE

	BY	CHECKED
DESIGN	E. Wojewoda	A. Dubovik
DETAILS	T. Burns	S. Kazmi
QUANTITIES	E. Wojewoda	C. Ramirez

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

M. Traffalis
PROJECT ENGINEER

CU 06222
EA 342321

BRIDGE NO. 42-299L/R
KILOMETER POST 90.61

ROUTE 180/99 SEPARATION
GIRDER LAYOUT NO 1

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)									SHEET	OF
10/15/97	1/16/98	1/30/98	2/10/98	6/19/98	6/19/98	6/22/98	6/29/98	12/16/99	13	19

FILE: /12227/DGN/rte180sep/180SGL01-r1.DGN 1-Jul-01

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DIST.	COUNTY	ROUTE	POST km TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	430	461

George P. Hattrup
REGISTERED GEOTECHNICAL ENGINEER

7-2-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — George P. Hattrup — No. No. 2353 — Exp. 6-30-01 — GEOTECHNICAL — STATE OF CALIFORNIA

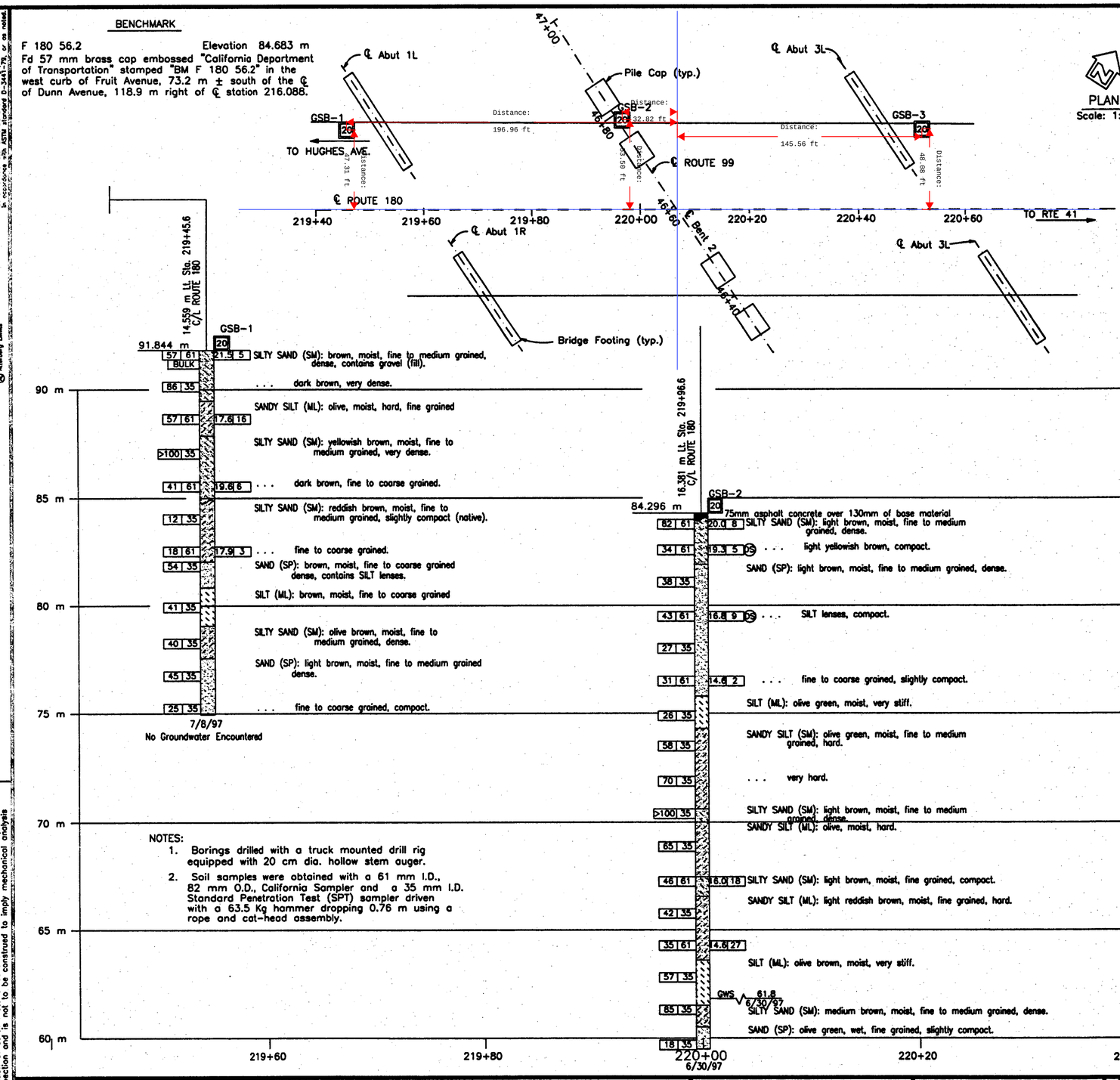
BSK & ASSOCIATES
567 WEST SHAW AVE. , SUITE B2
FRESNO, CA. 93704

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BENCHMARK

F 180 56.2 Elevation 84.683 m
Fd 57 mm brass cap embossed "California Department of Transportation" stamped "BM F 180 56.2" in the west curb of Fruit Avenue, 73.2 m ± south of the ℄ of Dunn Avenue, 118.9 m right of ℄ station 216.088.



PLAN
Scale: 1:400

Caltrans Metric

GSB-1

91.844 m

57 61 BULK	21.5 5		SILTY SAND (SM): brown, moist, fine to medium grained, dense, contains gravel (fill).	
86 35		. . .	dark brown, very dense.	
57 61	17.6 16		SANDY SILT (ML): olive, moist, hard, fine grained	
>100 35			SILTY SAND (SM): yellowish brown, moist, fine to medium grained, very dense.	
41 61	19.6 6	. . .	dark brown, fine to coarse grained.	
12 35			SILTY SAND (SM): reddish brown, moist, fine to medium grained, slightly compact (native).	
18 61	17.9 3	. . .	fine to coarse grained.	
54 35			SAND (SP): brown, moist, fine to coarse grained dense, contains SILT lenses.	
41 35			SILT (ML): brown, moist, fine to coarse grained	
40 35			SILTY SAND (SM): olive brown, moist, fine to medium grained, dense.	
45 35			SAND (SP): light brown, moist, fine to medium grained dense.	
25 35		. . .	fine to coarse grained, compact.	

7/8/97
No Groundwater Encountered

GSB-2

84.296 m

			75mm asphalt concrete over 130mm of base material	
82 61	20.0 8		SILTY SAND (SM): light brown, moist, fine to medium grained, dense.	
34 61	19.3 5 DS	. . .	light yellowish brown, compact.	
38 35			SAND (SP): light brown, moist, fine to medium grained, dense.	
43 61	16.8 9 DS	. . .	SILT lenses, compact.	
27 35				
31 61	14.6 2	. . .	fine to coarse grained, slightly compact.	
26 35			SILT (ML): olive green, moist, very stiff.	
58 35			SANDY SILT (SM): olive green, moist, fine to medium grained, hard.	
70 35		. . .	very hard.	
>100 35			SILTY SAND (SM): light brown, moist, fine to medium grained, dense.	
65 35			SANDY SILT (ML): olive, moist, hard.	
46 61	16.0 18		SILTY SAND (SM): light brown, moist, fine grained, compact.	
42 35			SANDY SILT (ML): light reddish brown, moist, fine grained, hard.	
35 61	14.6 27		SILT (ML): olive brown, moist, very stiff.	
57 35				
85 35			SILTY SAND (SM): medium brown, moist, fine to medium grained, dense.	
18 35			SAND (SP): olive green, wet, fine grained, slightly compact.	

GWS 61.8 6/30/97
6/30/97

GSB-3

91.994 m

61 61 BULK	19.0 8		SILTY SAND (SM): medium brown, moist, fine to medium grained, dense, contains gravel (fill).	
18 35		. . .	slightly compact.	
70 61	18.4 9	. . .	olive brown, dense.	
48 35		. . .	reddish brown, trace of clay.	
56 61	17.8 5	. . .	trace of asphalt.	
20 35		. . .	compact.	
112 61	15.9 9	. . .	very dense.	
23 35			SAND (SP): light brown, moist, fine to medium grained, compact.	
35 61	15.7 3			
25 35		. . .	olive brown, fine grained.	
53 61	15.9 5	. . .	fine to coarse grained.	
85 35			SANDY SILT (SM): olive brown, moist, fine grained, very hard.	

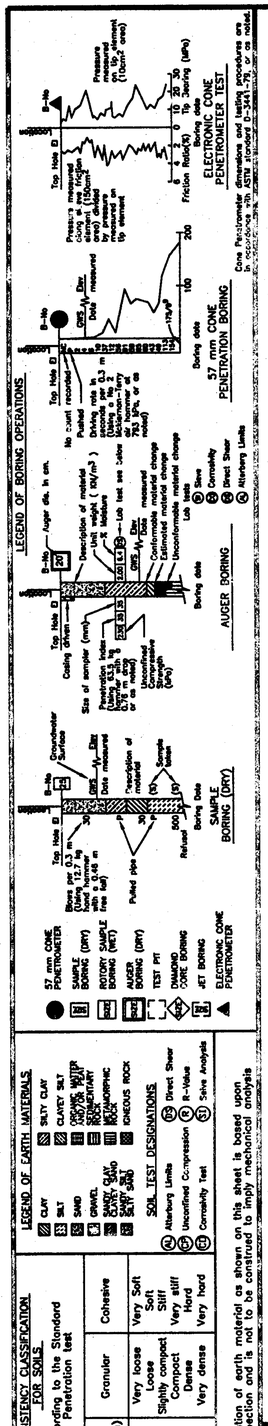
6/18/97
No Groundwater Encountered

NOTES:
1. Borings drilled with a truck mounted drill rig equipped with 20 cm dia. hollow stem auger.
2. Soil samples were obtained with a 61 mm I.D., 82 mm O.D., California Sampler and a 35 mm I.D. Standard Penetration Test (SPT) sampler driven with a 63.5 Kg hammer dropping 0.76 m using a rope and cat-head assembly.

NO AS BUILT CHANGES

PROFILE
Ver. Scale: 1:100
Hor. Scale: 1:200

AS BUILT VL 6-17-04
CORRECTIONS BY Peter Mena
CONTRACT NO. 06-342324
DATE 9-29-03



DESIGN OVERSIGHT 4-18-01	for JOEL ESCABAR	FIELD ENGINEER :	S. KAVATE 6/97 - 7/97
SIGNOFF DATE		DRAWN BY :	J. R. SCHNEIDER 10/97
		CHECKED BY :	G. P. HATTRUP, P. E. 10/97

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

George Hattrup, P. E.
PROJECT ENGINEER

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 20 40 60 80

CU 06
EA 342321

BRIDGE NO. 42-299L/R
KILOMETER POST 90.61

DISREGARD PRINTS BEARING EARLIER REVISION DATES

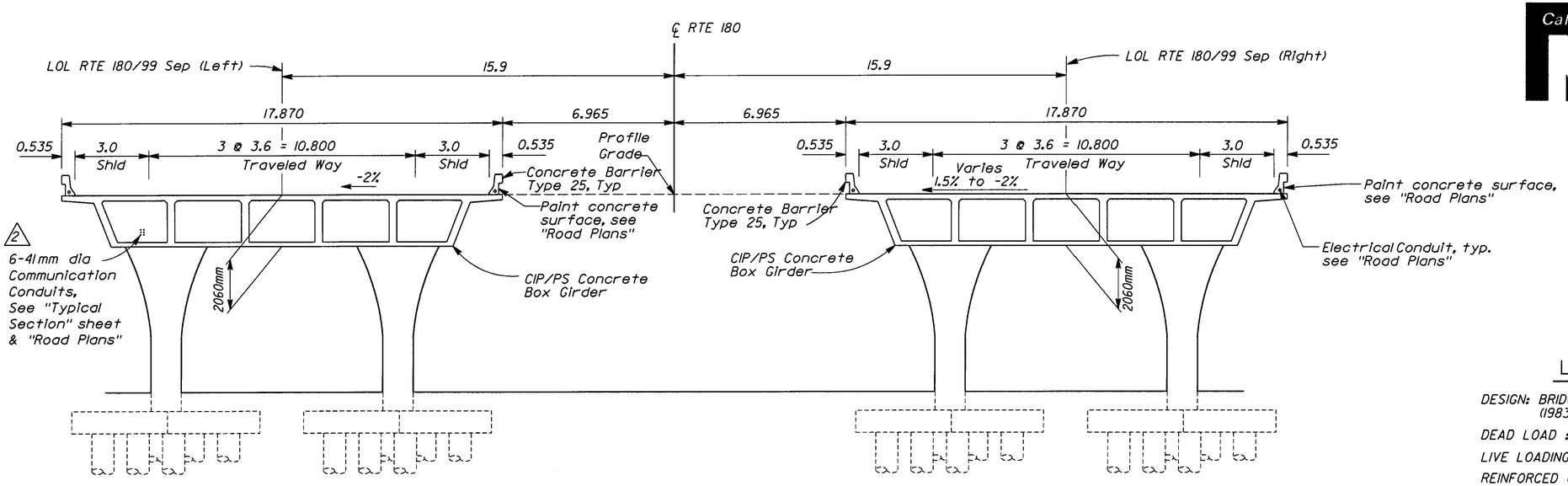
REVISION DATES (PRELIMINARY STAGE ONLY): 11/10/97 | 02/10/98 | 06/04/97 | 12/02/98 | 03/27/01

SHEET 19 OF 19

ROUTE 180/99 SEPARATION
LOG OF TEST BORINGS

br42299LR#19of19.tif

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LEFT STRUCTURE

RIGHT STRUCTURE

TYPICAL SECTION

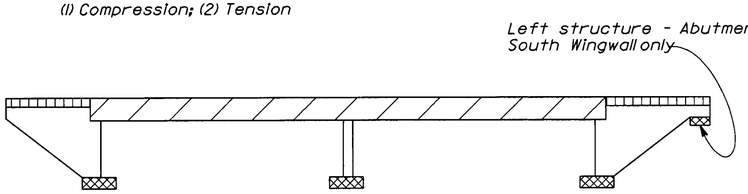
SCALE: 1:100

PILE DATA - CIDH CONCRETE PILES

Location	Pile Type	Nominal Resistance		Design Tip Elevation (Meters)	Specified Tip Elevation (Meters)
		Compression	Tension		
Lt Str Lt Ftg-Bent	900 mm	4400 kN	2180 kN	68.25 (1)(2)	68.25
Lt Str Rt Ftg-Bent	900 mm	4400 kN	2180 kN	68.00 (1)(2)	68.00
Rt Str Lt Ftg-Bent	900 mm	4400 kN	2180 kN	67.30 (1)(2)	67.30
Rt Str Rt Ftg-Bent	900 mm	4400 kN	2180 kN	67.00 (1)(2)	67.00

Design tip elevations are controlled by the following demands:
(1) Compression; (2) Tension

Left structure - Abutment 3 South Wingwall only



- Structural Concrete, Bridge (See Prestressing Notes on "Girder Details" sheet
- Structural Concrete, Bridge
- Structural Concrete, Bridge Footing
- Structural Concrete, Structure Approach

CONCRETE STRENGTH AND TYPE LIMITS

No Scale

INDEX TO PLANS

Title	Sheet
General Plan No. 1	1
General Plan No. 2	2
Deck Contours	3
Foundation Plan	4
Abutment Layout	5
Abutment Details No. 1	6
Abutment Details No. 2	7
Abutment Details No. 3	8
Bent Details No. 1	9
Bent Details No. 2	10
Bent Details No. 3	11
Typical Section	12
Girder Layout No. 1	13
Girder Layout No. 2	14
Girder Details	15
Structure Approach Type N(9S)	16
Structure Approach Drainage Details	17
Slope Paving - Full Slope	18
Log of Test Borings	19

STANDARD PLANS DATED JULY 1999

A10A	ABBREVIATIONS
A10B	SYMBOLS
A62C	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL BRIDGE
1	
B0-1	BRIDGE DETAILS
B0-3	BRIDGE DETAILS
B0-5	BRIDGE DETAILS
B0-13	BRIDGE DETAILS
B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 50 mm)
B7-1	BOX GIRDER DETAILS
B7-7	DECK DRAIN TYPE D-3
B7-10	UTILITY OPENING BOX GIRDER
B8-5	CAST-IN-PLACE PRESTRESSED GIRDER DETAILS
B11-53	CONCRETE BARRIER TYPE 25
B14-3	COMMUNICATION & SPRINKLER CONTROL CONDUITS (CONDUITS LESS THAN SIZE 103)

Standard Plan Sheet No.

Detail No.

AS BUILT VL 7/19/04

CORRECTIONS BY Peter Mona

CONTRACT NO. 06-342324

DATE 9-29-03

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5 R89.1/R91.0	413R2	461

Caltrans Metric

Michael Scott Traffalis 7-1-02
REGISTERED CIVIL ENGINEER

7-2-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL SCOTT TRAFFALIS — No. C46883 — Exp. 06/30/03 — CIVIL — STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA. 95834

FRESNO COUNTY TRANSPORTATION AUTHORITY
2220 Tulare Street, Suite 411
Fresno, CA 93721

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GENERAL NOTES

LOAD FACTOR DESIGN

DESIGN: BRIDGE DESIGN SPECIFICATIONS (1983 AASHTO with Interims and Revisions by CALTRANS)

DEAD LOAD : Includes 1.68 KPa for future wearing surface

LIVE LOADING: HS20-44 and alternative and permit design load

REINFORCED CONCRETE: f'c = 28 MPa
fy = 420 MPa
n = 8
Transverse deck slab (Working Stress Design)
fc = 8.3 MPa
fs = 138 MPa
n = 10

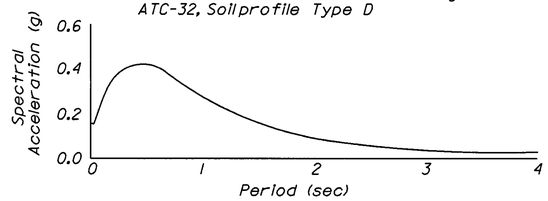
PRESTRESS CONCRETE : See "Prestressing Notes" on "Girder Layout No. 1" and "Girder Layout No. 2" sheets

FOOTING PRESSURE: (SERVICE LOADS)

Abut 1, Right Structure	190	190
Abut 3, Right Structure	190	190
Abut 1, Left Structure	190	190
Abut 3, Left Structure	190	190
Abut 3, Left Structure - Rt WW	190	190

Ultimate bearing capacities may be taken at three (3) times the allowable capacities.

SEISMIC LOADING: The following ARS Curve was used in evaluating the structures seismic response
Magnitude: 7.25 +- 0.25
Peak Bed Rock Acceleration = 0.1g
ATC-32, Soil profile Type D



MARK	DATE	DECRIPTIONS	BY	CH'D
		REVISIONS		
2	7-01-02	Changed to 6-41mm Communication conduits	CER	TGT
1	11-15-01	Deleted reference	CER	ANS

CONTRACT CHANGE ORDER NO. 34

SHEET 3 OF 18

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

John Figueroa for Joel Escabar DESIGN OVERSIGHT 7/9/02 SIGNOFF DATE	DESIGN	BY E. Wojewoda	CHECKED A.T. Dubovik	LOAD FACTOR DESIGN	Live Loading: HS20-44 and Alternative and Permit Design Load		
	DETAILS	BY T. Burns	CHECKED S. Kazmi	LAYOUT	BY E. Wojewoda	CHECKED J. Tehaney	
	QUANTITIES	BY E. Wojewoda	CHECKED C. Ramirez	SPECIFICATIONS	BY T. Tracy	PLANS AND SPECS COMPARED T. Tracy	

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

M. Traffalis, PROJECT ENGINEER

CU 06222
EA 342321

BRIDGE NO. 42-299L/R
KP (PM) 90.61 (56.30)

ROUTE 180/99 SEPARATION

GENERAL PLAN NO. 2

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 2/05/97 | 1/29/98 | 1/30/98 | 2/05/98 | 6/26/98 | 6/29/98 | 7/22/98 | 6/29/99 | 12/26/99 | 3/21/01

SHEET 2 OF 19

FILE:s1/12272A/DGN/FRM POTLAND/RTE180SEP/180SGP02-R2.DGN 02-Jul-02

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AS BUILT VL 7/19/04
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-29-03

EVC 217+80
Elev 92.670

BVC 220+10
Elev 93.360

+0.300%

120 VC
R/C=0.005%/Sta

EVC 221+30
Elev 93.360

-0.300%

PROFILE GRADE - RTE 180

No Scale

Legend:

■ Denotes Deck Drain Type D-3

----- Denotes Deck Drain Pipe locations

Curve Data
"Route 180"
R = 1524.000
△ = 32°11'04"
T = 439.660
L = 856.070

BB — 92.920 Measured along LOL RTE 180/99 Sep (Left) — EB
45.317 | 47.603

BB — 99.370 Measured along LOL RTE 180/99 Sep (Right) — EB
47.825 | 51.545

Approx OG

Approx OG taken @ RT Edge of deck of Right Bridge

6

6.138 Lt. Str.
7.074 Rt. Str.
Min Vert Clr

(1)(2) FS (1)(3) NS

Slope Paving, typ at all Abutments

Abut 1

Abut 3

Datum Elev 80.000

220+00

Bent 2

ELEVATION

Scale: 1:250

MARK	DATE	DECRIPTIONS	BY	CH'D
		REVISIONS		
4	11-15-01	Added note 6	CER	ANS
3	11-15-01	Added note 5	CER	ANS

QUANTITIES	
STRUCTURE EXCAVATION (BRIDGE)	1,710 m 3
STRUCTURE BACKFILL (BRIDGE)	1,350 m 3
900 MM CAST-IN-DRILLED-HOLE CONCRETE PILING	326 m
PRESTRESSING CAST-IN-PLACE CONCRETE	LUMP SUM
STRUCTURAL CONCRETE, BRIDGE FOOTING	455 m 3
STRUCTURAL CONCRETE, BRIDGE	2,645 m 3
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N)	247 m 3
RIPPED TEXTURE (REINFORCING BAR)	225 m 2
JOINT SEAL (MR 50 MM)	87 m
BAR REINFORCING STEEL (BRIDGE)	324,000 Kg
SLOPE PAVING (CONCRETE)	109 m 3
MISCELLANEOUS METAL (BRIDGE)	300 Kg
CONCRETE BARRIER (TYPE 25)	457 m

MARK	DATE	DECRIPTIONS	BY	CH'D
		REVISIONS		
2	11-15-01	Rebouted pipe & added note	CER	ANS
1	11-15-01	Add drain & note	CER	ANS

CONTRACT CHANGE ORDER NO. 34
SHEET ___ OF ___

NOTES:

(1) Paint "RTE 180/99 Separation"
(2) Paint "Br. No. 42-299L" and year constructed
(3) Paint "Br. No. 42-299R" and year constructed
(4) MBGR, see "Road Plans"
(5) Structural approach Type N (9S)
(6) Architectural Treatment
(7) ~~Soffit lights, see "Road Plans"~~ Deleted
◒ Point of minimum vert clearance NS - Near Side FS - Far Side

1. For "Typical Section" see "General Plan No. 2" sheet.
2. For "Index to Plans" and "General Notes", see "General Plan No. 2" sheet.
3. For "Pile Table" see "General Plan No. 2" sheet.
4. Elevations for existing approach fills are approximate.
3 5. Pipe extends to drain inlet # 44 @ STA 220+88.5
4 6. Pipe extends to drain inlet # 35

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Toe of Exist fill, Typ
Top of Exist fill, Typ
1:2± Exist Typ
Var
10.97
2.44
147+00 ℄ Route 99
N166°53'02"W
To Sacramento
3.05
10.97
Varies
EL=93.466
EL=93.492
EL=93.556
EL=93.642
EL=93.729
EL=93.787
EL=93.793
3.0
10.8
3.0
7.5
220+80
BB 15.900 Lt "℄ Rte 180"
219+50.765
Elev 92.864 N56°48'53"E
To Hughes Ave
LOL RTE 180/99 Sep (Left)
SKEW = 33°41'55" Typ
EB 15.900 Lt "℄ RTE 180"
220+43.685
Elev 93.115
EL=93.856
COPPER NAIL (TYP)
EL=94.134
EL=94.093
EL=94.008
EL=93.933
EL=93.880
EL=94.137
EC 219+45.133
R=1524.000
℄ Route 180
N56°48'53"E
220+00
"℄ RTE 180" 220+06.686 POT
"℄ RTE 99" 46+59.255 POT
N56°48'53"E
See note 6
EL=94.119
EL=94.111
EL=94.139
EL=94.168
EL=94.189
EL=94.161
EL=94.154
7.5
3.0
10.8
3.0
+73
BB 15.900 Rt "℄ Rte 180"
219+69.465 Elev 93.339
N56°48'53"E
LOL RTE 180/99 Sep. (Right)
See note 5
To Route 41
EB 15.900 Rt "℄ Rte 180"
220+68.835
Elev 93.132
+64
+69
EL=94.261
EL=94.222
EL=94.101
EL=93.998
EL=93.858
EL=93.771
EL=93.749
Top of Exist fill, Typ
Toe of Exist fill, Typ
To Bakersfield
1:2± Exist Typ

PLAN

Scale: 1:250

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5 R89.1/R91.0	412RI	461

Caltrans Metric

REGISTERED CIVIL ENGINEER

7-2-01
PLANS APPROVAL DATE

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2220 Tulare Street, Suite 411
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Joel Escabar for DESIGN OVERSIGHT	DESIGN	E. Wojewoda	A. T. Dubovik	LOAD FACTOR DESIGN	Live Loading: HS20-44 and Alternative and Permit Design Load
12/3/01 SIGNOFF DATE	DETAILS	T. Burns	S. Kazmi	LAYOUT	E. Wojewoda / J. Tehaney
	QUANTITIES	E. Wojewoda	C. Ramirez	SPECIFICATIONS	T. Tracy / PLANS AND SPECS COMPARED T. Tracy

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

M. Traffalis
PROJECT ENGINEER

CU 06222
EA 342321

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS
0 20 40 60 80 100

BRIDGE NO. 42-299L/R
KP (PM) 90.61(56.30)

ROUTE 180/99 SEPARATION

GENERAL PLAN NO. 1

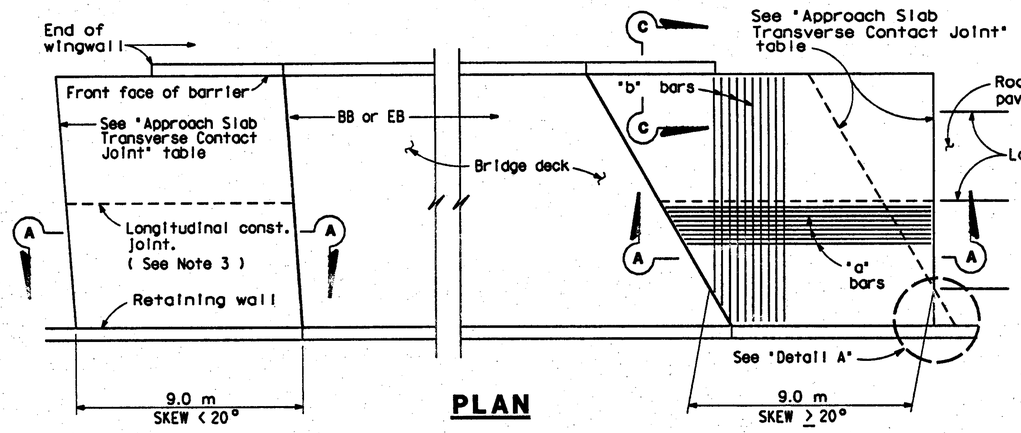
DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)										SHEET	OF
12/5/97	1/5/98	1/30/98	2/05/98	6/19/98	6/26/98	8/12/98	8/28/98	12/28/98	3/21/01	1	19

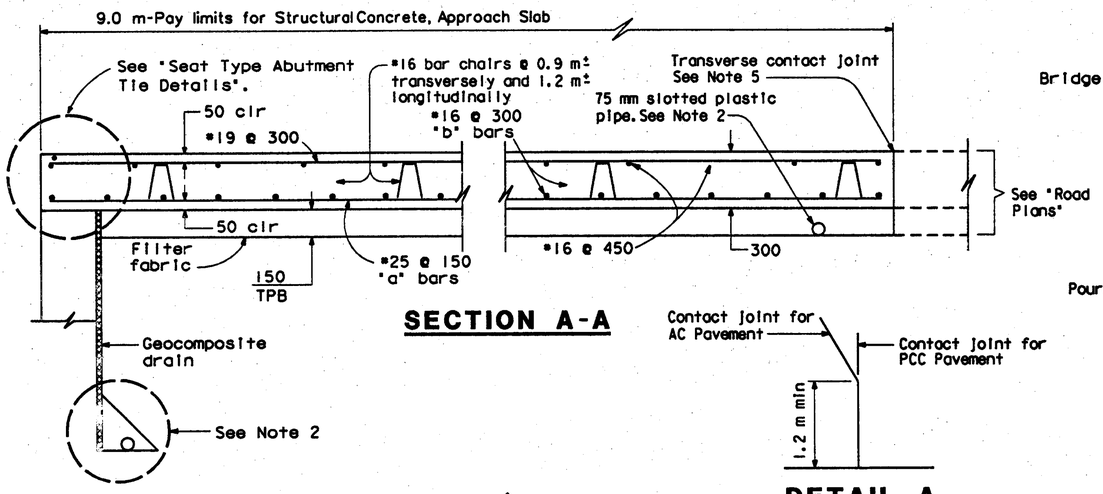
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RELEASED 3-25-97

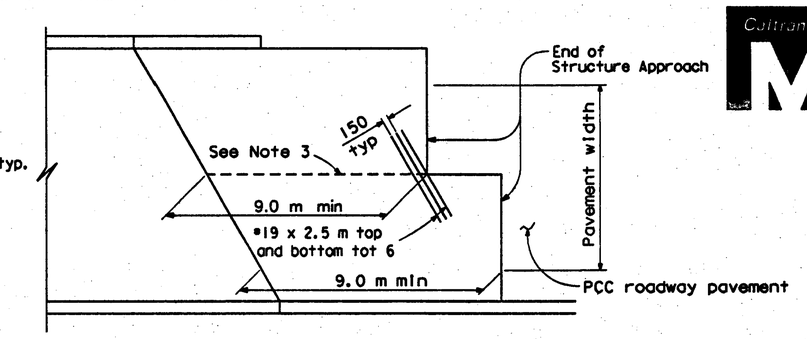


PLAN

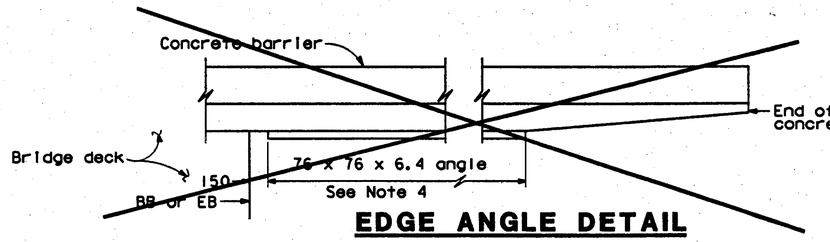


SECTION A-A

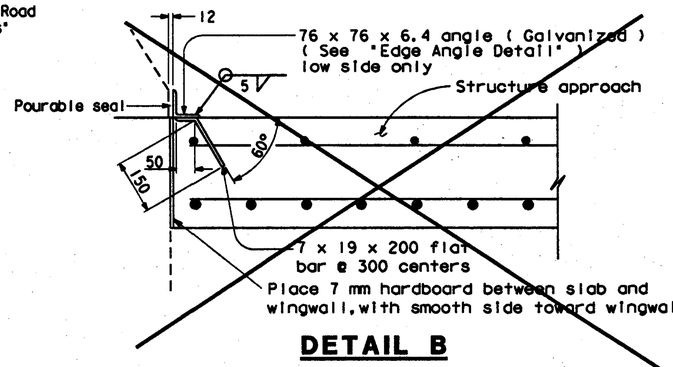
DETAIL A



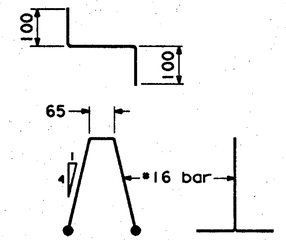
STRUCTURE APPROACH - END STAGGER DETAIL



EDGE ANGLE DETAIL



DETAIL B



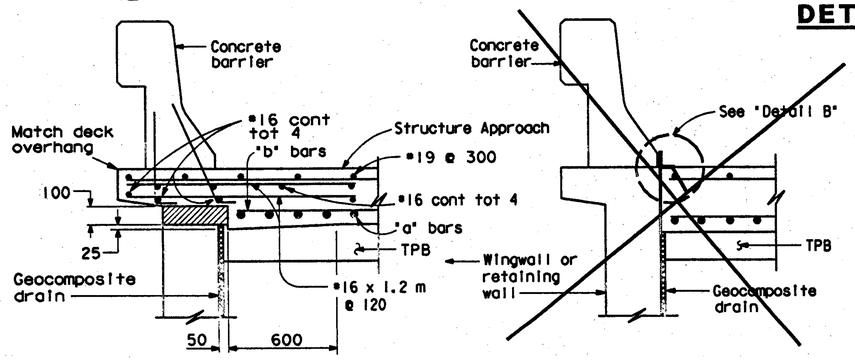
BAR CHAIR DETAIL

APPROACH SLAB TRANSVERSE CONTACT JOINT		
APPROACH SKEW	WITH AC ROADWAY PAVEMENT	WITH PCC ROADWAY PAVEMENT
< 20°	Parallel to face of paving notch	Parallel to face of paving notch
20°- 45°	Parallel to face of P N use (Detail A)	Stagger lines 7.2 m to 10.8 m apart.
> 45°	Parallel to face of P N use (Detail A)	Stagger at each lane line.

NOTES:

1. For details not shown, see Structure Plans. For MR ≤ 50 mm, adjust bar reinforcement to clear a sawcut for sealed joint, when required.
2. For drainage details, see "Structure Approach Drainage Details" sheet.
3. Longitudinal construction joints, when permitted by the Engineer, shall be located on lane lines.
4. End angle at beginning of barrier transition, end of wingwall or end of structure approach, as applicable.
5. For transverse contact joint with new PCC paving, refer to Standard Plan A35-A.
6. At the contractor's option, approach slab transverse reinforcement may be placed parallel to paving notch. Spacing of transverse reinforcement is measured along ℄ roadway.

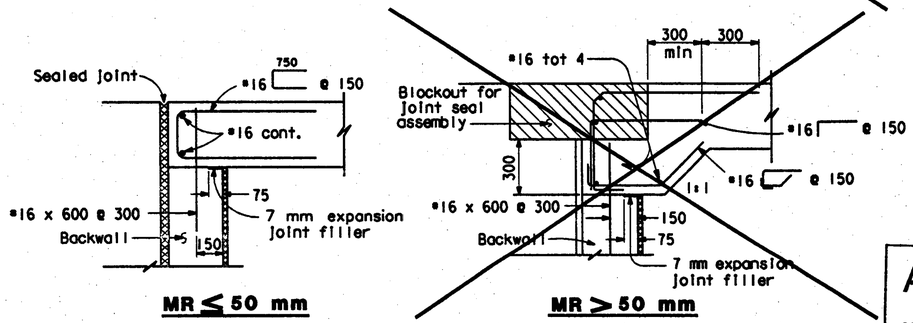
Remove all polystyrene.



TYPE E-1 TYPE E-2

SECTION C-C

(Type E-1 to be used, unless otherwise shown on plans)



MR ≤ 50 mm MR > 50 mm

SEAT TYPE ABUTMENT TIE DETAILS (SEE NOTE 1)

AS BUILT VL 6-17-04

CORRECTIONS BY Peter Mona

CONTRACT NO. 06-342324

DATE 9-29-03

NO AS BUILT CHANGES

NO SCALE

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	427	461

REGISTERED ENGINEER - CIVIL

7-2-01

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MICHEAL SCOTT TRAFFALIS No. C46883 Exp. 06/30/03 CIVIL STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA. 95834

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STANDARD DRAWING

FILE NO. XS 22-18	DESIGN BY M. TRAFFALIS	CHECKED E. THORKILDSEN	APPROVAL RECOMMENDED BY
DRAWING DATE 8/92	DETAILS BY R. YEE	CHECKED E. THORKILDSEN	DESIGN SUPERVISOR
	SUBMITTED BY M. HA		

DS OSD 2147A (METRIC) (REV. 2/25/97)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES STRUCTURE DESIGN

CU 06222 EA 342321

BRIDGE NO. 42-299L/R

KILOMETER POST

ROUTE 180/99 SEPARATION

STRUCTURE APPROACH TYPE N(9S)

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 7/30/98 2/05/99 6/15/99 12/22/99 6/21/99 12/30/99 3/21/00

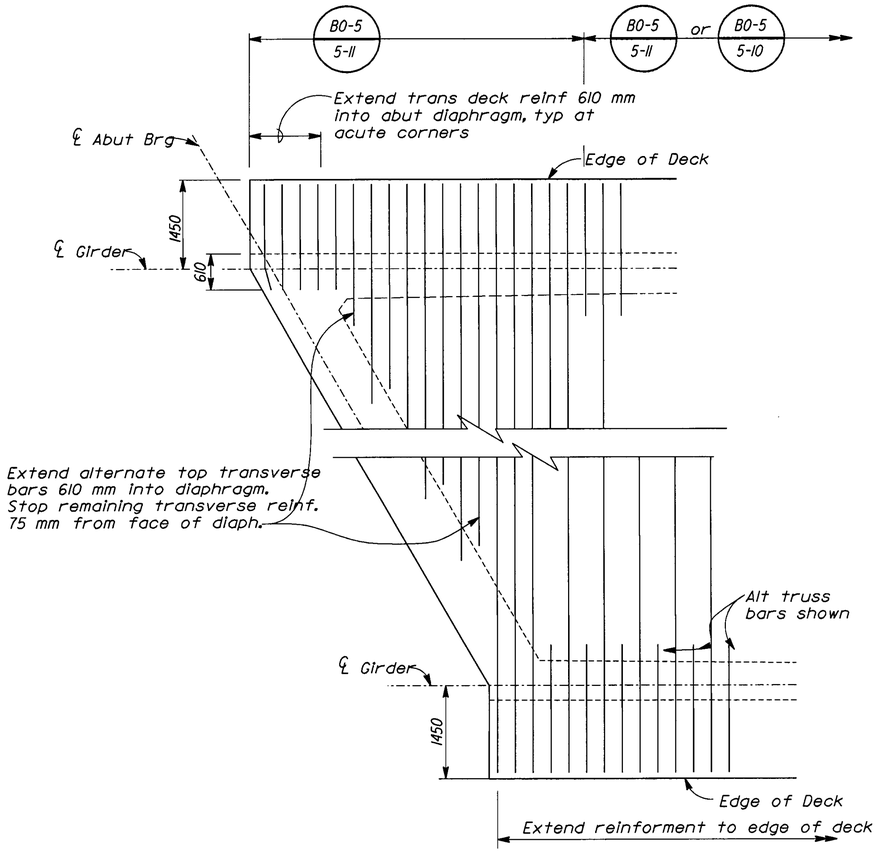
SHEET 16 OF 19

LICENSURE -> SIGNED PROJECT

FILE: i12227 N:\DGN\XTE180SEP1\I0052280.DGN 15-apr-01

br42299LR#16of19.tif

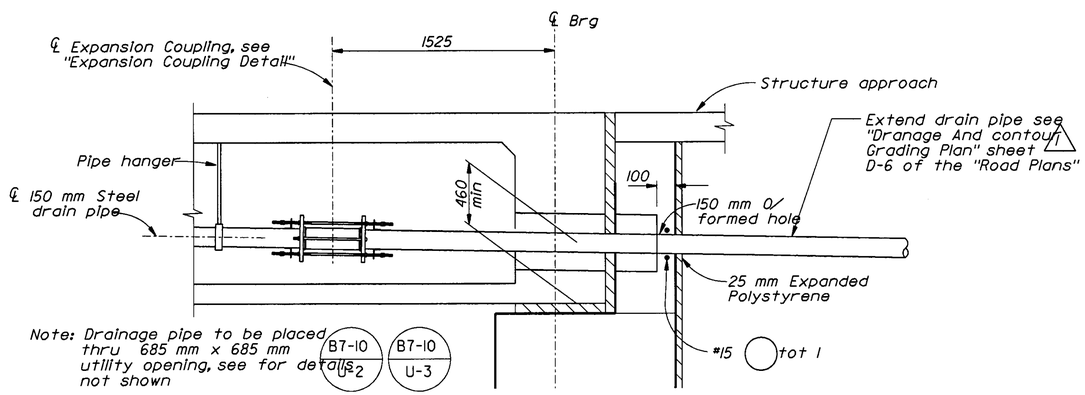
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DECK CORNER DETAIL

Left Bridge shown, Right Bridge similar

No Scale



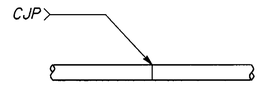
ABUTMENT DRAINAGE DETAIL

No scale

PRESTRESSING NOTES:

1. Design based on 1860 MPa Low Relaxation Strand.
2. Left Structure:
   Pjack = 55 600 KN (Total)
   Anchor set = 10 mm
   Total number of girders = 6

   Right Structure:
   Pjack = 61 400 KN (Total)
   Anchor set = 10 mm
   Total number of girders = 6
3. Distribution of prestress force (Pjack) between girders shall not exceed the ratio of 3:2. Maximum final force variation between girders shall not exceed 3225 KN.
4. Concrete: f'c = 28 MPa at 28 days
   f'ci = 25 MPa at time of stressing.
5. ☒ indicates point of no movement.
   One end stressing shall be performed from abutment 3.
6. Contractor shall submit elongation calculations based on initial stress as follow
   Left Structure☒ = 0.909 times jacking stress.
   Right Structure☒ = 0.912 times jacking stress.
7. Design is based on u = 0.20 and k = 0.00.
8. Tendons to be jacked to 0.74 f's
9. As= $\frac{Pjack}{0.74f's}$

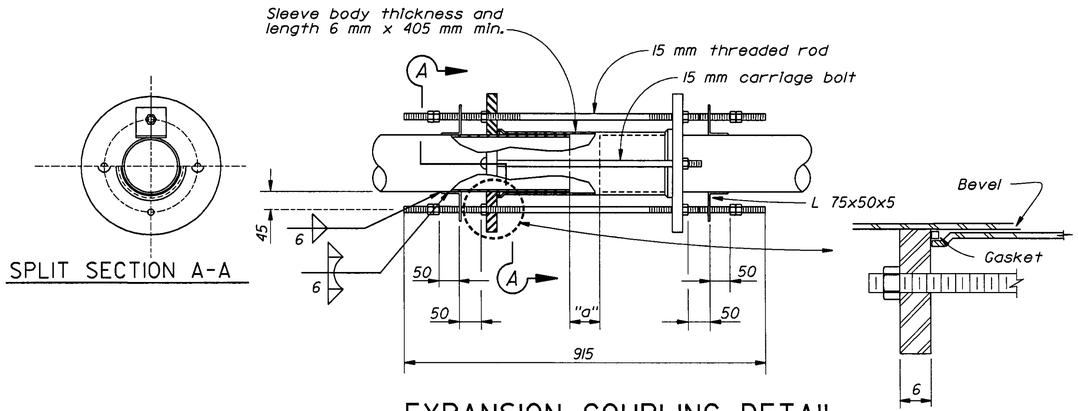


Individual hoops, made continuous with 100% penetration welds only allowed.

BUTT WELDED CONTINUOUS HOOP

BAR HOOP DETAIL

No Scale



SPLIT SECTION A-A

EXPANSION COUPLING DETAIL

No scale

AS BUILT VL 7/19/04
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-29-03

MARK	DATE	DECRIPTIONS	BY	CH'D
		REVISIONS		
1	11-15-01	Edited note	CER	ANS

CONTRACT CHANGE ORDER NO. 16
SHEET 10 OF 10

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5 R89.1/R91.0	426RI	461

Caltrans Metric

REGISTERED CIVIL ENGINEER

7-2-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL SCOTT TRAFFALIS — No. C46883 — Exp. 06/30/03 — CIVIL — STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA. 95834

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DESIGN	BY E. Wojewoda	CHECKED A. Dubovik	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	M. Traffalis, PROJECT ENGINEER
DETAILS	BY T. Burns	CHECKED S. Kazmi		
QUANTITIES	BY E. Wojewoda	CHECKED C. Ramirez		

Joel Escabar for
DESIGN OVERSIGHT
12/3/01
SIGN OFF DATE

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

CU 06222
EA 34232I

BRIDGE NO.	ROUTE 180/99 SEPARATION
42-299L/R	GIRDER DETAILS
KILOMETER POST	
90.61	

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)									SHEET	OF
10/15/97	1/15/98	1/30/98	2/15/98	6/10/98	6/15/98	12/29/98	6/29/99	12/30/99	15	19

FILE: I:/122724/DGN/FRM PORTLAND/RTE180SEP/180SGL03-R1.DGN 19-NOV-01

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RELEASED 3-26-97

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	429	461

Caltrans Metric

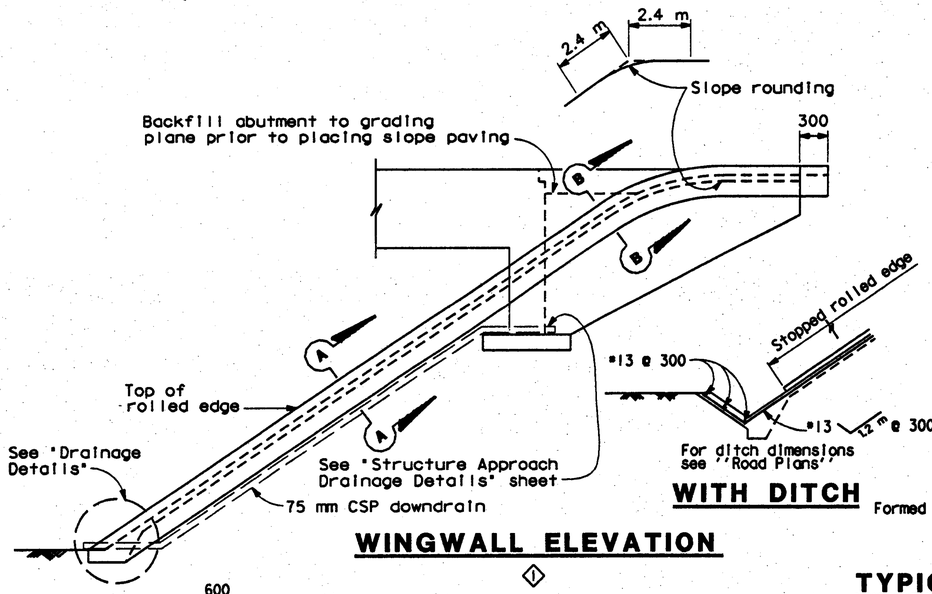
REGISTERED ENGINEER - CIVIL — MICHEAL SCOTT TRAFFALIS, No. C46883, Exp. 06/30/03, CIVIL, REGISTERED PROFESSIONAL ENGINEER, STATE OF CALIFORNIA

7-2-01
PLANS APPROVAL DATE

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA. 95834

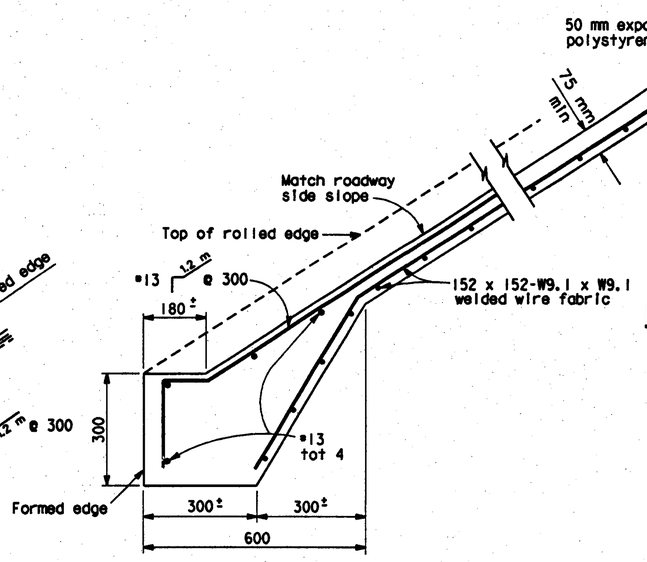
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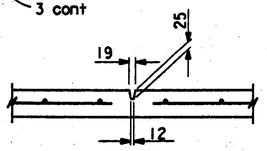


WINGWALL ELEVATION

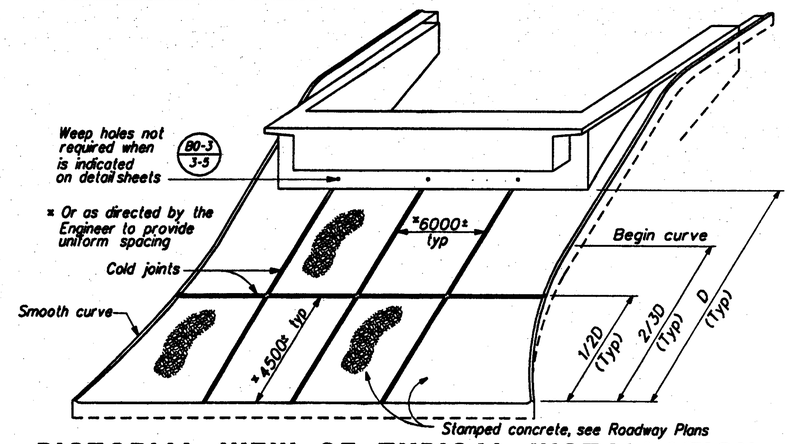
WITH DITCH



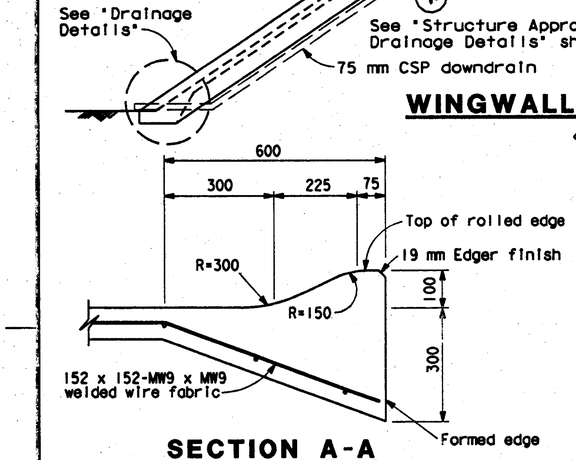
TYPICAL SECTION - CONCRETE PAVING



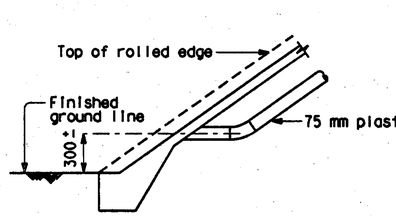
PREFORMED GROOVE



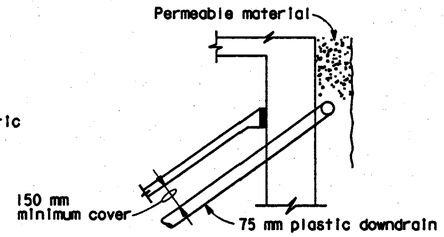
PICTORIAL VIEW OF TYPICAL INSTALLATION



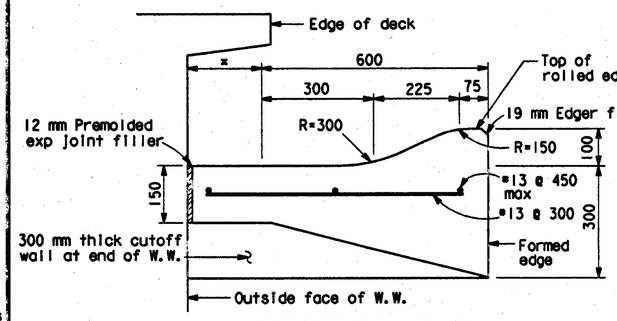
SECTION A-A



TYPICAL - NO CURB

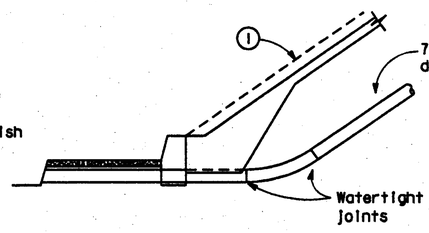


TYPICAL - DRAIN CONNECTION

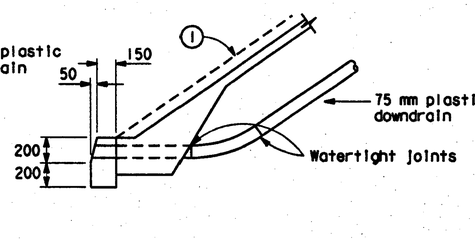


SECTION B-B

*This dimension becomes zero when edge of deck is at outside face of W.W.



TYPICAL - WITH SIDEWALK



TYPICAL - WITH CURB

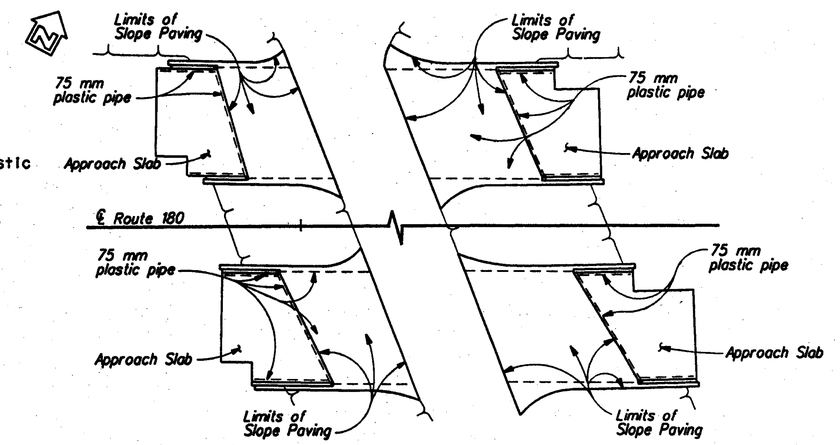
◇1 DRAINAGE DETAILS

Note: Drainage details are only applicable when is indicated on detail sheets. (B0-3 3-5)

◇1 Top of rolled edge

AS BUILT VL 6-17-04
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-29-03

NO AS BUILT CHANGES



◇1 LIMITS OF SLOPE PAVING & DRAINAGE LAYOUT

No Scale

"SPECIAL DETAILS"
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

STANDARD DRAWING

FILE NO. XS 22-11 | DESIGN BY | CHECKED | APPROVAL RECOMMENDED BY
DRAWING DATE Revised | DETAILS BY R. YEE | CHECKED
SUBMITTED BY C.W. PURKISS | DESIGN SUPERVISOR

◇1 Revised Detail

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
DIVISION OF STRUCTURES
STRUCTURE DESIGN

BRIDGE NO. 42-299L/R
KILOMETER POST 90.61

ROUTE 180/99 SEPARATION
SLOPE PAVING - FULL SLOPE

CU 06222
EA 342321

DISREGARD PRINTS BEARING EARLIER REVISION DATES →
REVISION DATES (PRELIMINARY STAGE ONLY): 1/30/98 | 2/05/98 | 6/15/98 | 2/22/99 | 6/24/99 | 12/30/99 | 3/27/0

SHEET 18 OF 19

DS OSD 2147A (METRIC) (REV. 2/25/97)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

FILE: //122271/DGN/RTE/CJEP/305221.DGN 15-JAN-04

USERNAME => USER

br42299LR#18of19.fit

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	415	461

Caltrans Metric

REGISTERED CIVIL ENGINEER — MICHEAL SCOTT TRAFFALIS, No. C46883, Exp. 06/30/03, CIVIL, STATE OF CALIFORNIA

7-2-01
PLANS APPROVAL DATE

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, SUITE 200
SACRAMENTO, CA. 95834

AS BUILT VL 7/19/04
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-29-03

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LEGEND:

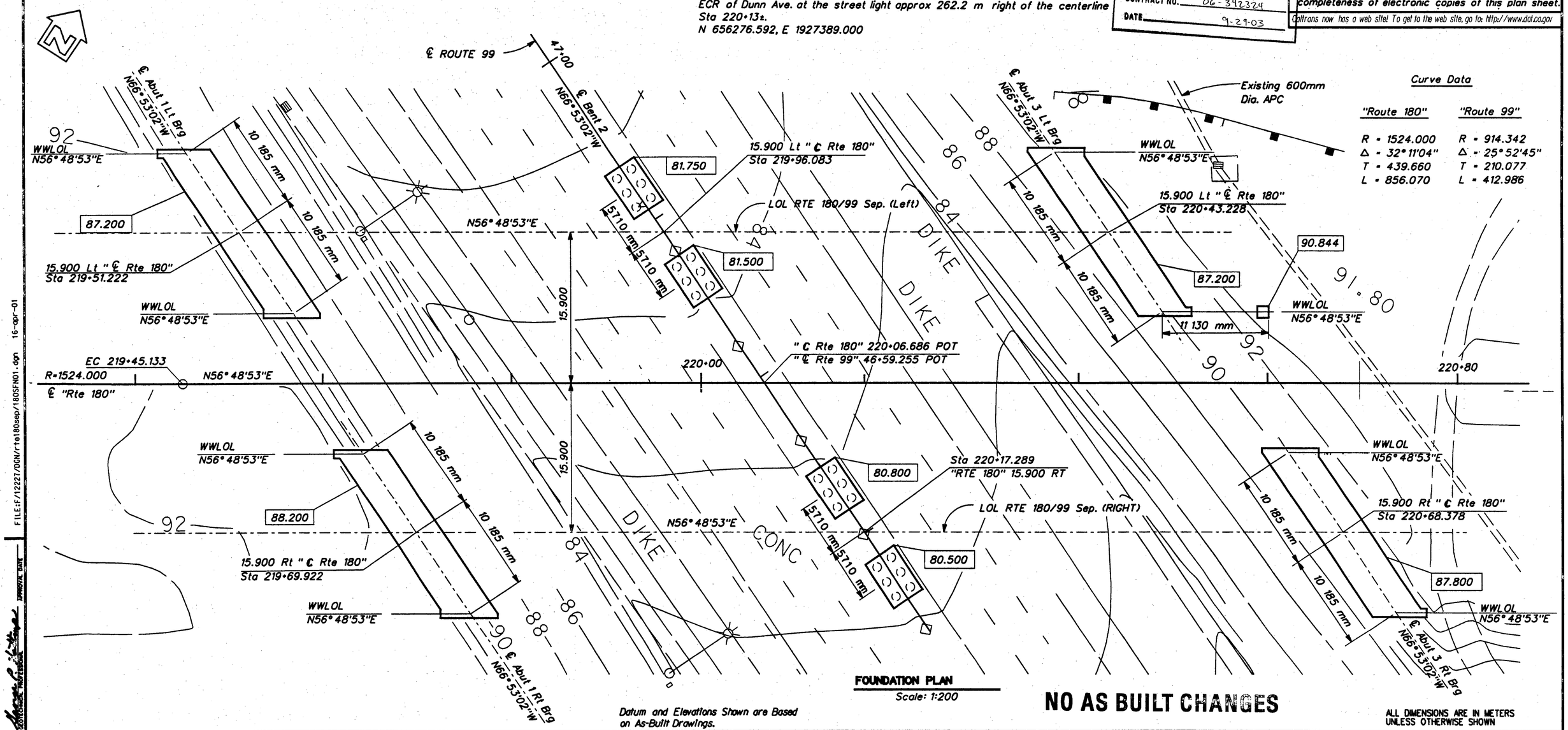
Indicates bottom of footing elevation

() Denotes CIDH Piles

Bench Marks

"BM" F180 56.2 Elev 84.682
0.686 m brass cap embossed "California Department of Transportation" stamped "BM" "F180 56.2" in the west curb of Fruit Ave. Approx 73.17 m south of the centerline of Dunn Ave. and approx 118.9 m right of centerline Sta 216+60±.
N 656213.497, E 1926981.531

"BM" F180 56.4 Elev 85.610
0.686 m brass cap embossed "California Department of Transportation" stamped "BM" "F180 56.4" at the southwest corner of Thorne Ave. and Dunn Ave. In the west curb of Thorne Ave. approx 1.52 m south of the ECR of Dunn Ave. at the street light approx 262.2 m right of the centerline Sta 220+13±.
N 656276.592, E 1927389.000



Curve Data

"Route 180"	"Route 99"
R = 1524.000	R = 914.342
Δ = 32°11'04"	Δ = 25°52'45"
T = 439.660	T = 210.077
L = 856.070	L = 412.986

FOUNDATION PLAN
Scale: 1:200

Datum and Elevations Shown are Based on As-Built Drawings.

NO AS BUILT CHANGES

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

FILE:F:/12227/DGN/rte180sep/180SFN01.dgn 16-apr-01

BZ Maesry & Joel Escabar
DESIGN OVERSIGHT
4-18-01
SIGNOFF DATE

PHOTOGRAMMETRY AS OF: 4-16-97		DRAWN	BY Radman Aerial Survey	DESIGN	BY E. Wojewoda	CHECKED E. Wojewoda
SURVEYED	BY Psomas & Associates	TRACED	BY Intergraph	DETAILS	BY E. Jao	CHECKED S. Kazmi
FIELD CHECKED	BY Psomas & Associates	CHECKED	BY	QUANTITIES	BY E. Wojewoda	CHECKED C. Ramirez

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

M. Traffalis
PROJECT ENGINEER

CU 06222
EA 342321

BRIDGE NO. 42-299L/R
KILOMETER POST 90.61

ROUTE 180/99 SEPARATION
FOUNDATION PLAN

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)								SHEET	OF
9/15/97	12/5/97	1/23/98	2/25/98	6/19/98	12/29/98	6/21/99	12/30/99	4	19

br42299LR#4of19.tif

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California Department of Transportation
Division of Maintenance

Structure Maintenance and Investigations

BRIDGE

INSPECTION

RECORDS

INFORMATION

SYSTEM

The requested documents have been generated by BIRIS.

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Records for “Confidential” bridges may only be released outside the Department of Transportation upon execution of a confidentiality agreement.

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	432	461

Caltrans Metric

REGISTERED CIVIL ENGINEER

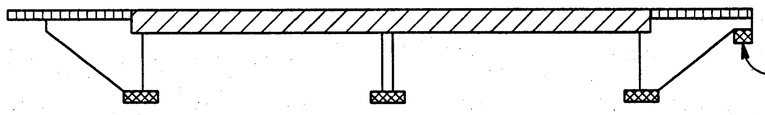
7-2-01
PLANS APPROVAL DATE

MICHAEL SCOTT TRAFFALIS, No. C46883, Exp. 06/30/03, CIVIL, REGISTERED PROFESSIONAL ENGINEER, STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA. 95834

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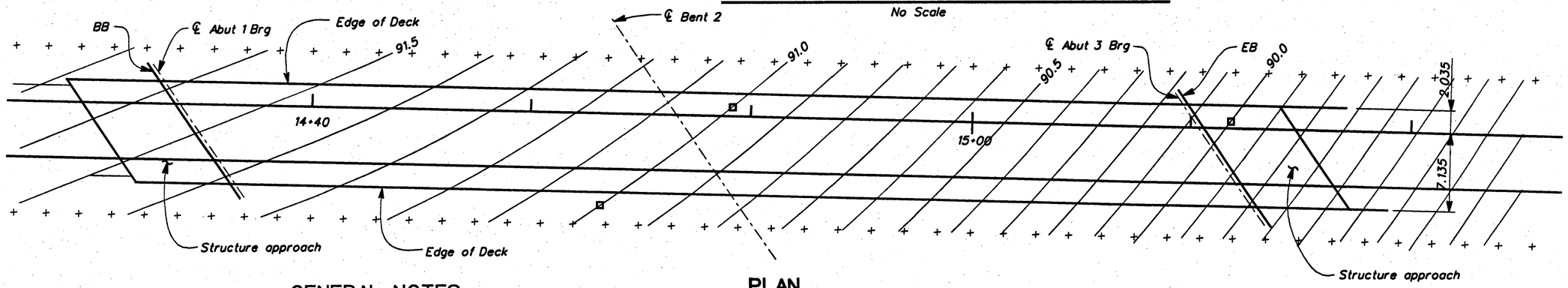
Structural Concrete, Bridge
Structural Concrete, Bridge (see prestressing notes on "Girder Layout No. 2" sheets)
Structural Concrete, Bridge Footing
Structural Concrete, Structure Approach

NOTES:

1. Contour interval is 0.1m
2. Contours do not include camber.
3. × Indicates 3.0 meters interval.
4. □ Indicates even meters contours.

CONCRETE STRENGTH AND TYPE LIMITS

No Scale



PLAN

Scale: 1:200

GENERAL NOTES

LOAD FACTOR DESIGN

DESIGN: BRIDGE DESIGN SPECIFICATIONS (1983 AASHTO with Interims and Revisions by CALTRANS)

DEAD LOAD : Includes 1.68 KPa for future wearing surface

LIVE LOADING: HS20-44 and alternative and permit design load

REINFORCED CONCRETE: f'c = 28 MPa, unless otherwise noted
fy = 420 MPa
n = 8
Transverse deck slab (Working Stress Design)
fc = 8.3 MPa
fs = 138 MPa
n = 10

PRESTRESS CONCRETE : See "Prestressing Notes" on "Girder Layout No. 2" sheet

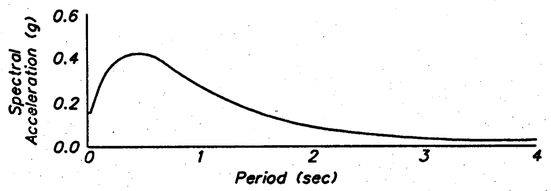
FOOTING PRESSURE: (SERVICE LOADS)

	ALLOWABLE (KPa)	DESIGN (KPa)
Abut 1	190	177
Abut 3	190	177
Abut 3, South WW	190	177

Ultimate Bearing Capacities may be taken as three (3) times the allowable capacities

SEISMIC LOADING: The following ARS Curve was used in evaluating the structures seismic response

Magnitude: 7.25 ± 0.25
Peak Bed Rock Acceleration = 0.1 g
ATC 32, Soil profile Type D



AS BUILT VL 6-17-04
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-30-03

INDEX TO PLANS

STANDARD PLANS DATED JULY 1999

A10A	ABBREVIATIONS
A10B	SYMBOLS
A62-C	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL-BRIDGE
B0-1	BRIDGE DETAILS
B0-3	BRIDGE DETAILS
B0-5	BRIDGE DETAILS
B0-13	BRIDGE DETAILS
B6-21	JOINT SEAL (MAXIMUM MOVEMENT RATING = 50 mm)
B7-1	BOX GIRDER DETAILS
B8-5	CAST-IN-PLACE PRESTRESSED GIRDER DETAILS
B11-53	CONCRETE BARRIER TYPE 25
B14-3	COMMUNICATION AND SPRINKLER CONTROL CONDUITS (CONDUIT LESS THAN SIZE 103)

Sheet	Title
1	General Plan
2	Deck Contours
3	Foundation Plan
4	Abutment Layout
5	Abutment Details No. 1
6	Abutment Details No. 2
7	Abutment Details No. 3
8	Bent Details No. 1
9	Bent Details No. 2
10	Bent Details No. 3
11	Typical Section
12	Girder Layout No. 1
13	Girder Layout No. 2
14	Structure Approach Type N(9S)
15	Structure Approach Drainage Details
16	Slope Paving - Full Slope
17	Log of Test Borings

Plan Sheet No.
Detail No.

NO AS BUILT CHANGES

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

BZ Massey for Joel Escabar
DESIGN OVERSIGHT
4-18-01
SIGN OFF DATE

	BY	CHECKED
DESIGN	T. Kimura	T. Holden
DETAILS	T. Burns	S. Kazmi
QUANTITIES	T. Kimura	J. Lee

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

M. Traffalis
PROJECT ENGINEER

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

CU 06222
EA 342321

BRIDGE NO. 42-299G
KILOMETER POST 90.63

E180-N99 CONNECTOR SEPARATION
DECK CONTOURS

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 1/30/98 | 2/05/98 | 6/18/98 | 12/22/98 | 6/21/99 | 12/30/99 | 3/27/01

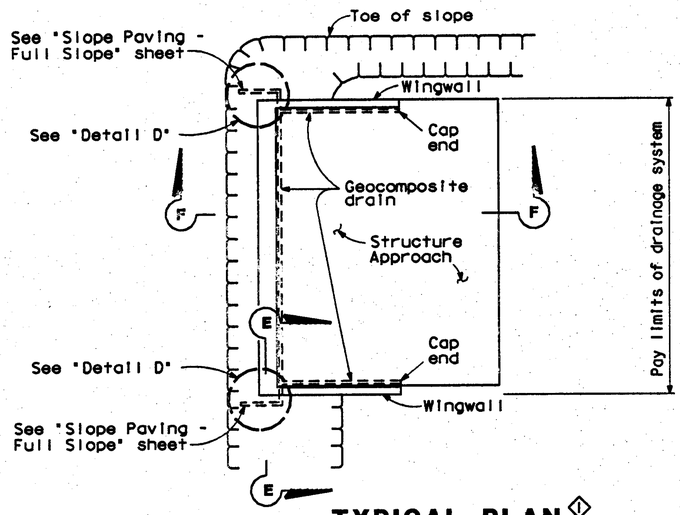
SHEET 2 OF 17

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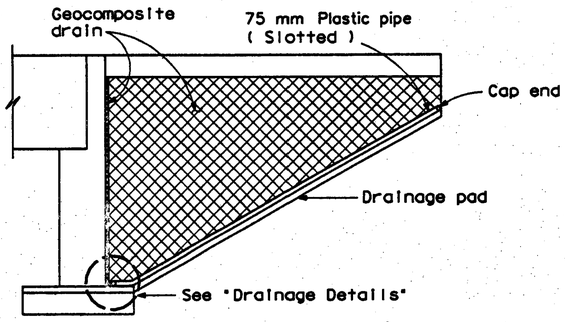
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RELEASED 3-25-97

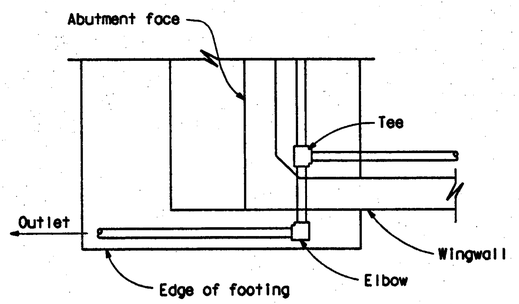


TYPICAL PLAN ①

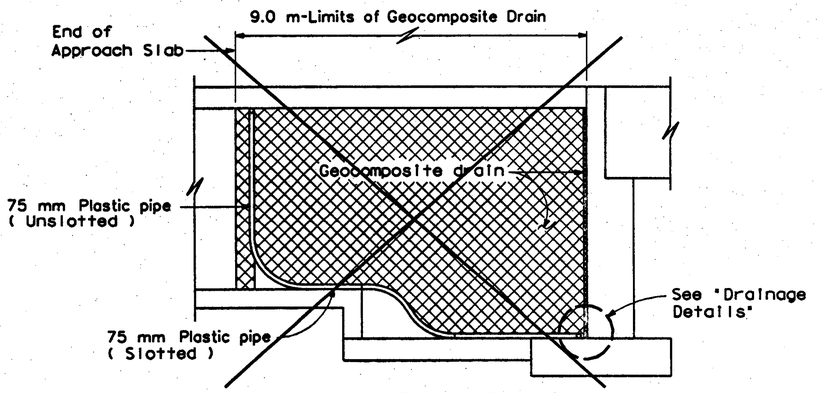
Abutment 2 - Left Structure Shown, Others Similar



CANTILEVER WINGWALL SECTION F-F

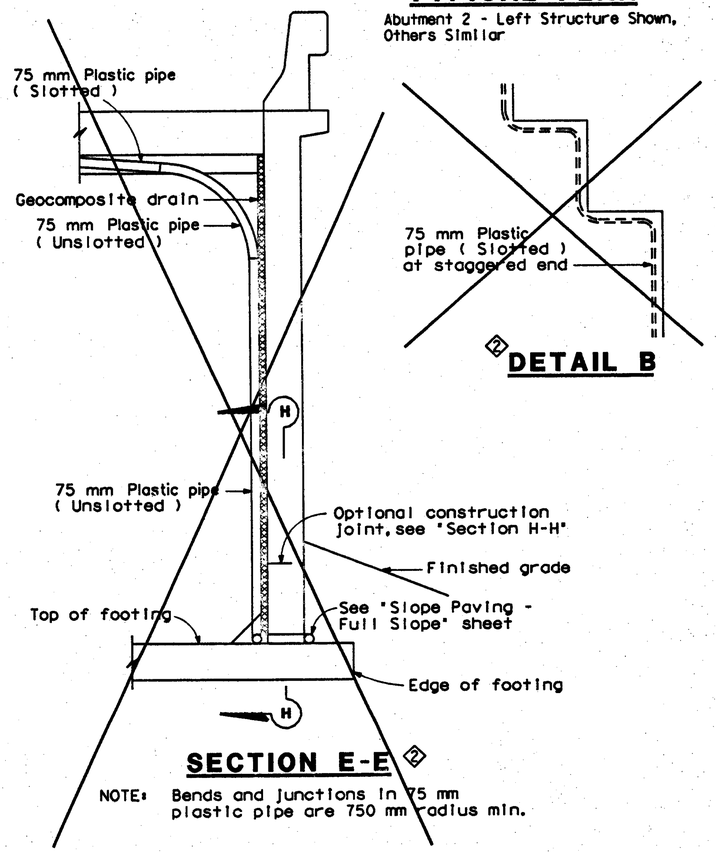


DETAIL D



② RETAINING WALL WINGWALL

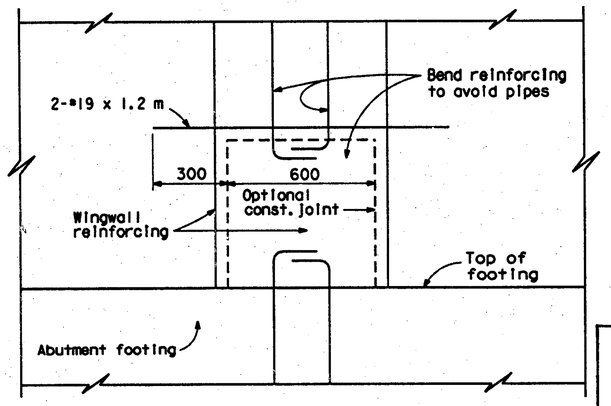
SECTION G-G



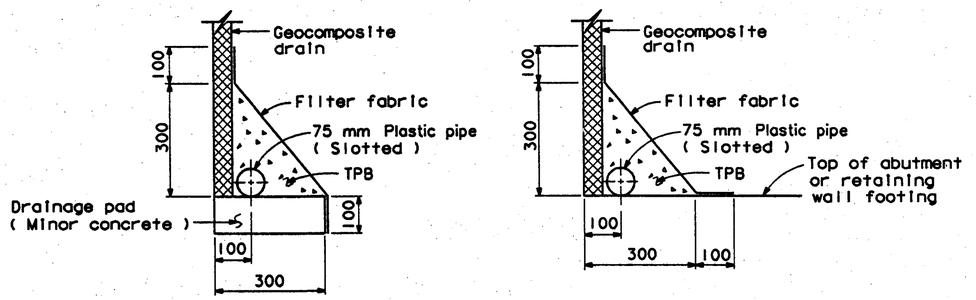
② DETAIL B

SECTION E-E ②

NOTE: Bends and junctions in 75 mm plastic pipe are 750 mm radius min.



SECTION H-H ①



WITHOUT FOOTING WITH FOOTING

DRAINAGE DETAILS

AS BUILT VL 6-17-04

CORRECTIONS BY Peter Mona

CONTRACT NO. 06-342324

DATE 9-30-03

NO AS BUILT CHANGES

"SPECIAL DETAILS"

NO SCALE

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	445	461

REGISTERED ENGINEER - CIVIL

MICHAEL SCOTT TRAFFALIS, No. C46883, Exp. 06/30/03, CIVIL, REGISTERED PROFESSIONAL ENGINEER, STATE OF CALIFORNIA

7-2-01

PLANS APPROVAL DATE

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA. 95834

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STANDARD DRAWING

FILE NO. X8 22-17 | DESIGN BY M. TRAFFALIS | CHECKED E. THORKILDSEN | APPROVAL RECOMMENDED BY

DRAWING DATE Revised | DETAILS BY R. YEE | CHECKED E. THORKILDSEN

SUBMITTED BY M. HA

DESIGN SUPERVISOR

① Revised Detail
② Detail Not Needed

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN

CU 06222
EA 342321

BRIDGE NO. 42-299G
KILOMETER POST 90.63

E180-N99 CONNECTOR SEPARATION

STRUCTURE APPROACH DRAINAGE DETAILS

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 7/30/98 | 2/05/99 | 12/22/99 | 6/21/00 | 12/30/02 | 3/27/03

SHEET 15 OF 17

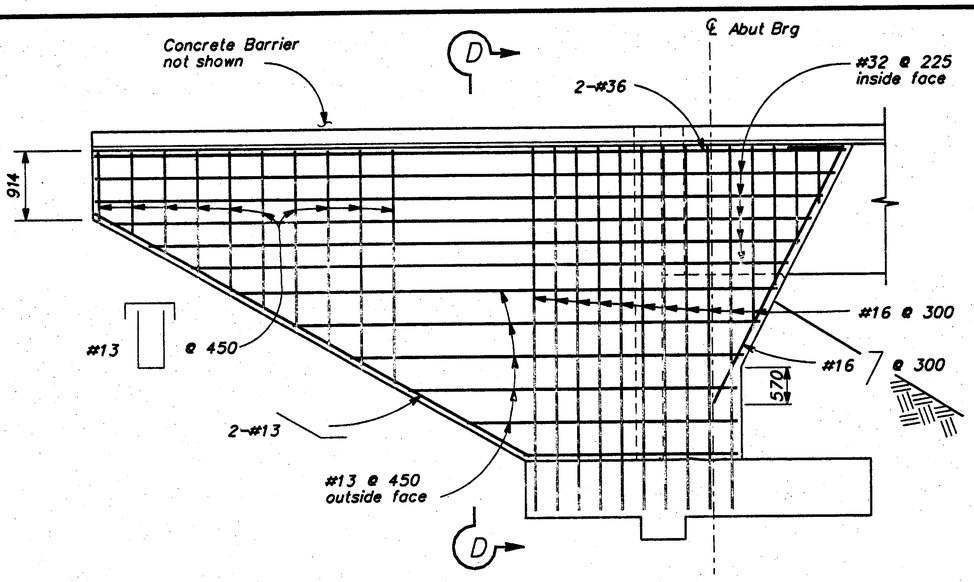
DS OSD 2147A (METRIC) (REV. 2/25/97)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

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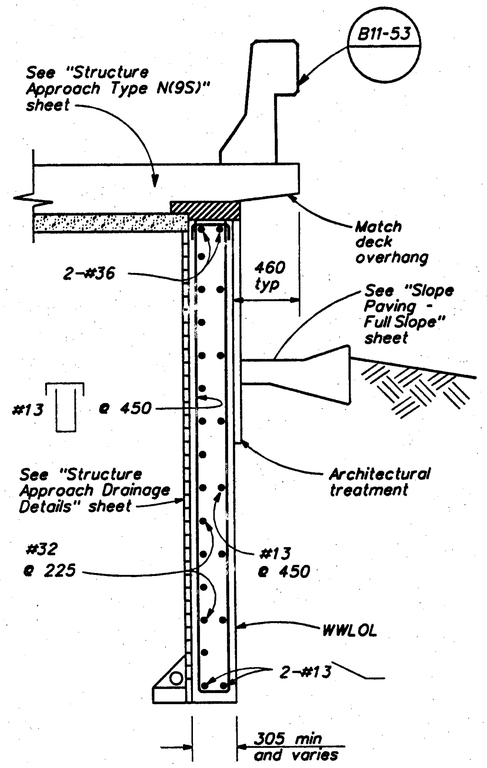
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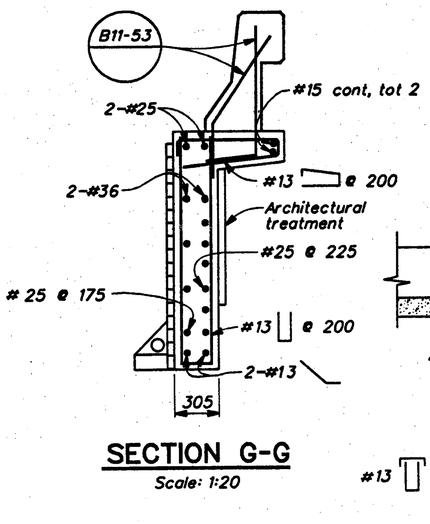
WINGWALL ELEVATION - (Abut 1 North & South, Abut 3 North)

No Scale



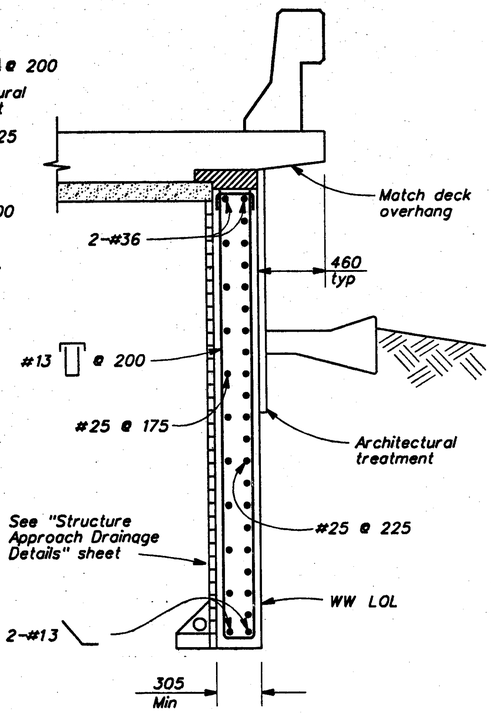
SECTION D-D

Scale: 1:20



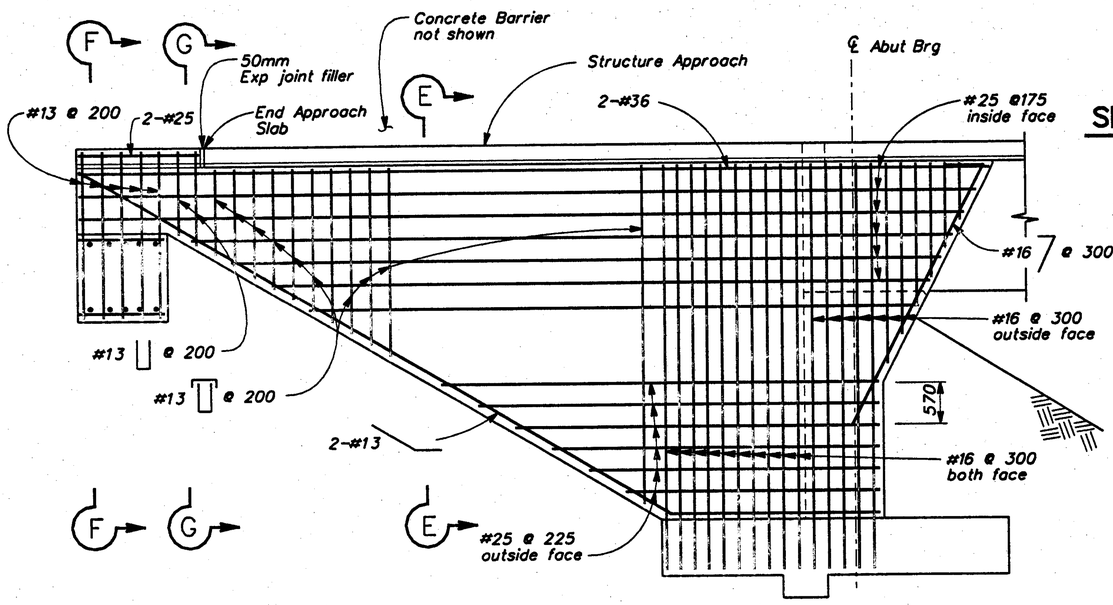
SECTION G-G

Scale: 1:20



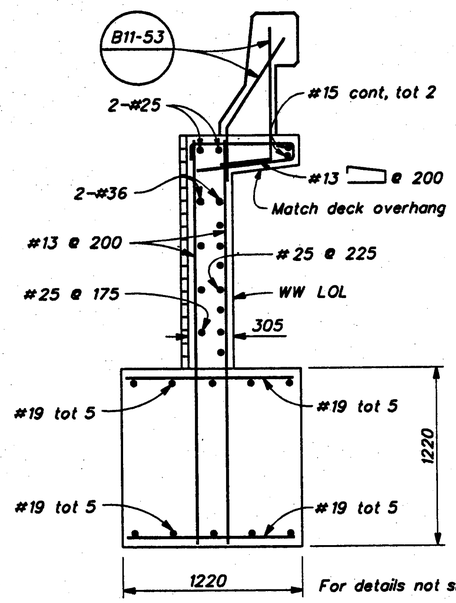
SECTION E-E

Scale: 1:20



WINGWALL ELEVATION - (Abut 3 South)

No Scale



For details not shown see "Section E-E"

SECTION F-F

Scale: 1:20

AS BUILT VL 6-17-04

CORRECTIONS BY Peter Mona

CONTRACT NO. 06-342324

DATE 9-30-03

NO AS BUILT CHANGES

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	437	461

Caltrans Metric

REGISTERED CIVIL ENGINEER

7-2-01

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL SCOTT TRAFFALIS — No. C46883 — Exp. 06/30/03 — CIVIL — STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
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DESIGN	BY T. Kimura	CHECKED T. Holden	
DETAILS	BY T. Burns	CHECKED S. Kazmi	
QUANTITIES	BY T. Kimura	CHECKED J. Lee	

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

M. Traffalis, PROJECT ENGINEER

BZ Massey Jr. Joel Escabar
DESIGN OVERSIGHT
4-18-01
SIGN OFF DATE

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

CU 06222
EA 342321

BRIDGE NO. 42-299G
KILOMETER POST 90.63

E180-N99 CONNECTOR SEPARATION
ABUTMENT DETAILS NO. 3

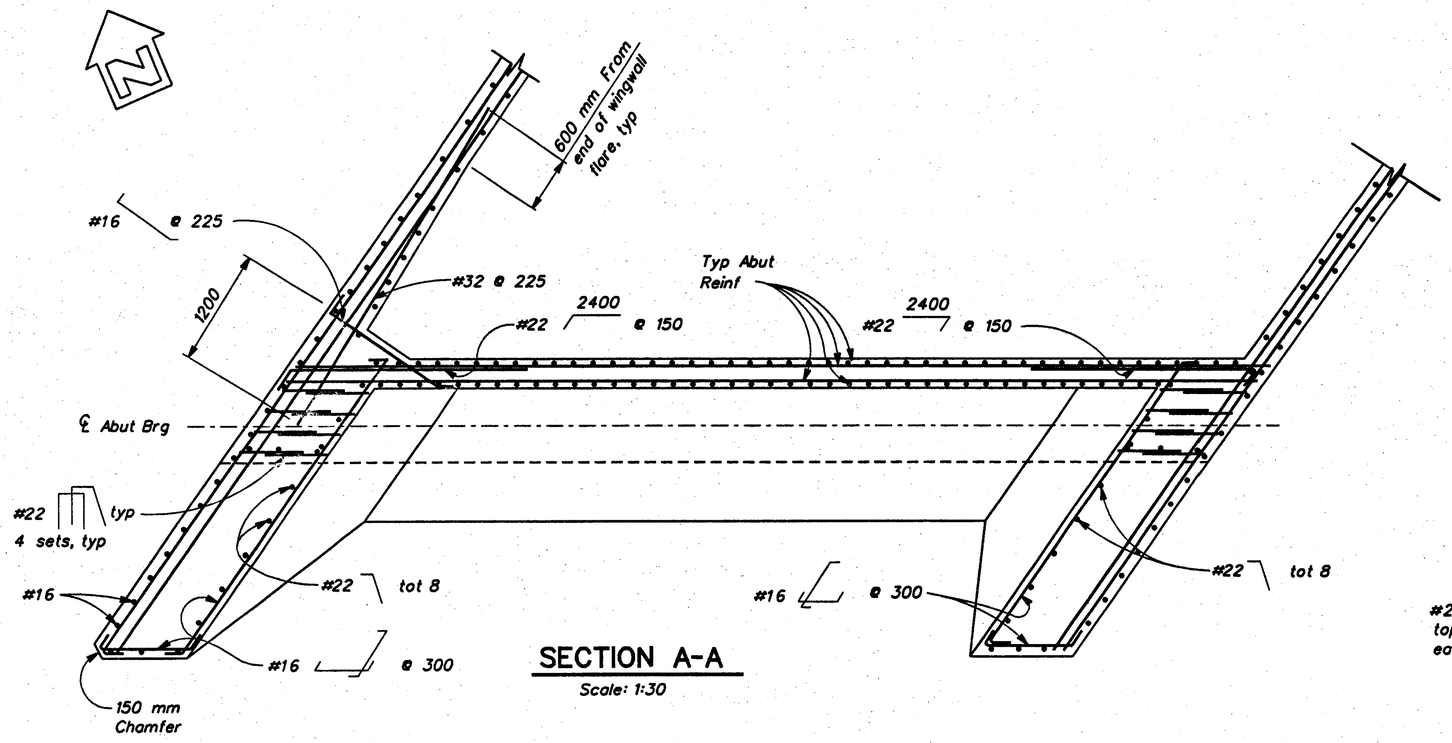
DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)									SHEET	OF
7/8/98	1/30/98	2/05/98	6/19/98	12/29/98	6/21/99	12/30/99	3/27/01		7	17

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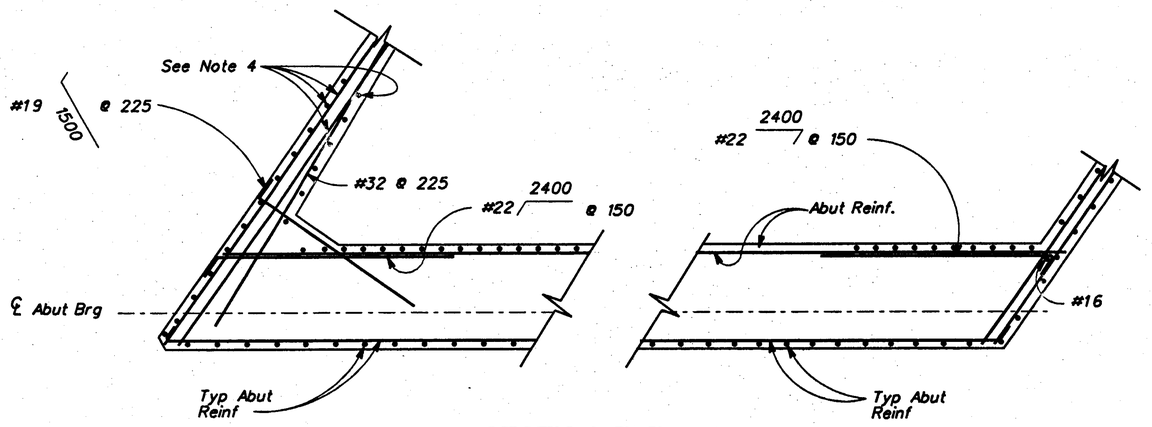
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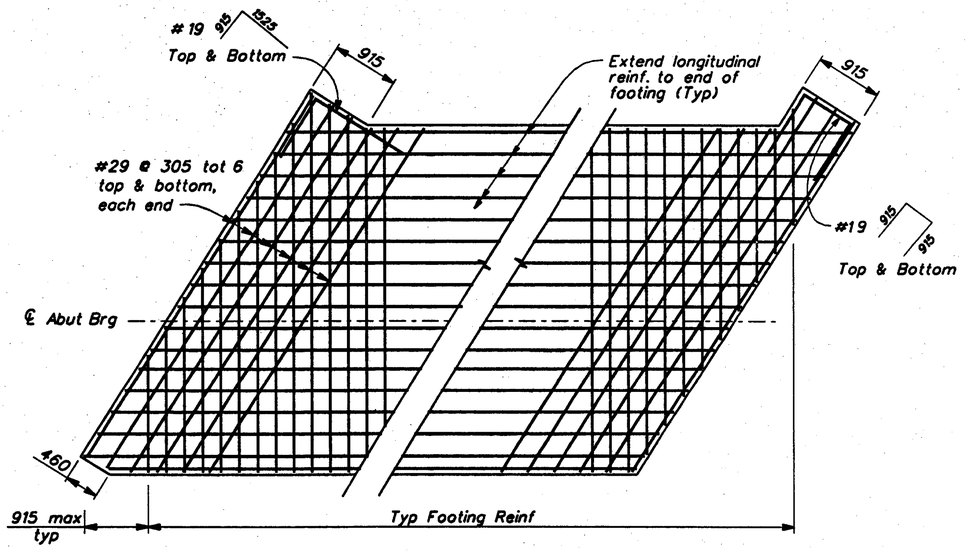
SECTION A-A

Scale: 1:30



SECTION B-B

Scale: 1:30



FOOTING CORNER DETAILS

Scale: 1:40

NOTES:

1. For location of "Section A-A" and "Section B-B" see "Abutment Layout" sheet.
2. "Section A-A" and "Section B-B" are shown for Abutment 3 , Abutment 1 similar.
3. "Footing Corner Details" are shown for Abutment 1, Abutment 3 similar.
4. For size and spacings see "Abutment Details No. 3" sheet.
5. Architectural treatment not shown.

AS BUILT VL 6-17-04
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-30-03

NO AS BUILT CHANGES

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	436	461

Michael Scott Traffalis
REGISTERED CIVIL ENGINEER
7-2-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL SCOTT TRAFFALIS — No. C46883 — Exp. 06/30/03 — CIVIL — STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
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B2Massey for Joel Escobar
DESIGN OVERSIGHT
4-18-01
SIGN OFF DATE

	BY	CHECKED
DESIGN	T. Kimura	T. Holden
DETAILS	T. Burns	S. Kazmi
QUANTITIES	T. Kimura	J. Lee

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

M. Traffalis
PROJECT ENGINEER

CU 06222
EA 342321

BRIDGE NO. 42-299G
KILOMETER POST 90.63

E180-N99 CONNECTOR SEPARATION
ABUTMENT DETAILS NO. 2

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

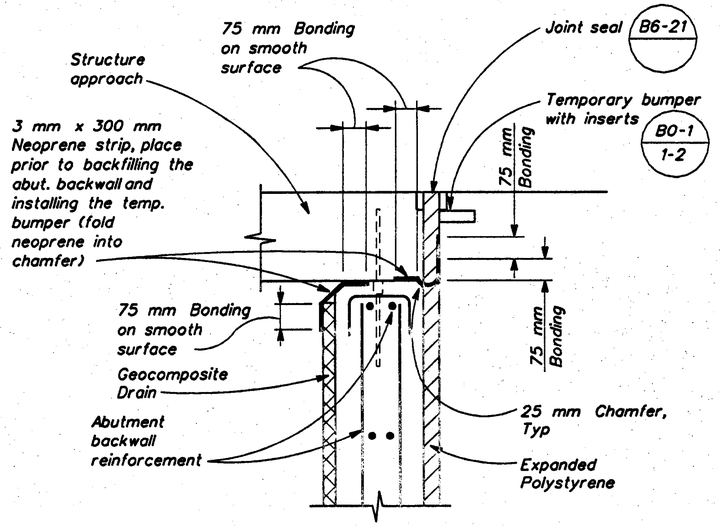
DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)								SHEET	OF
1/8/98	1/30/98	2/05/98	6/19/98	12/22/98	6/24/99	12/30/99	3/27/01	6	17

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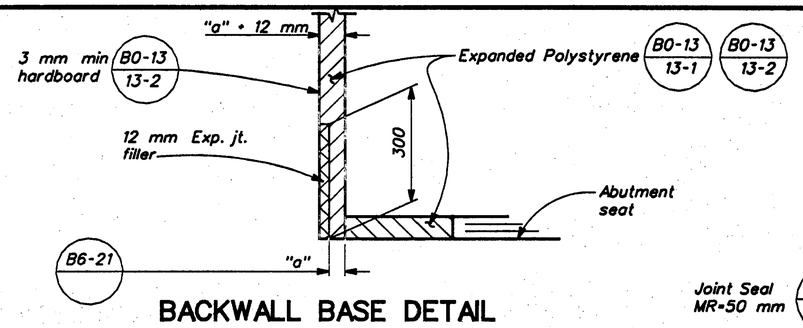
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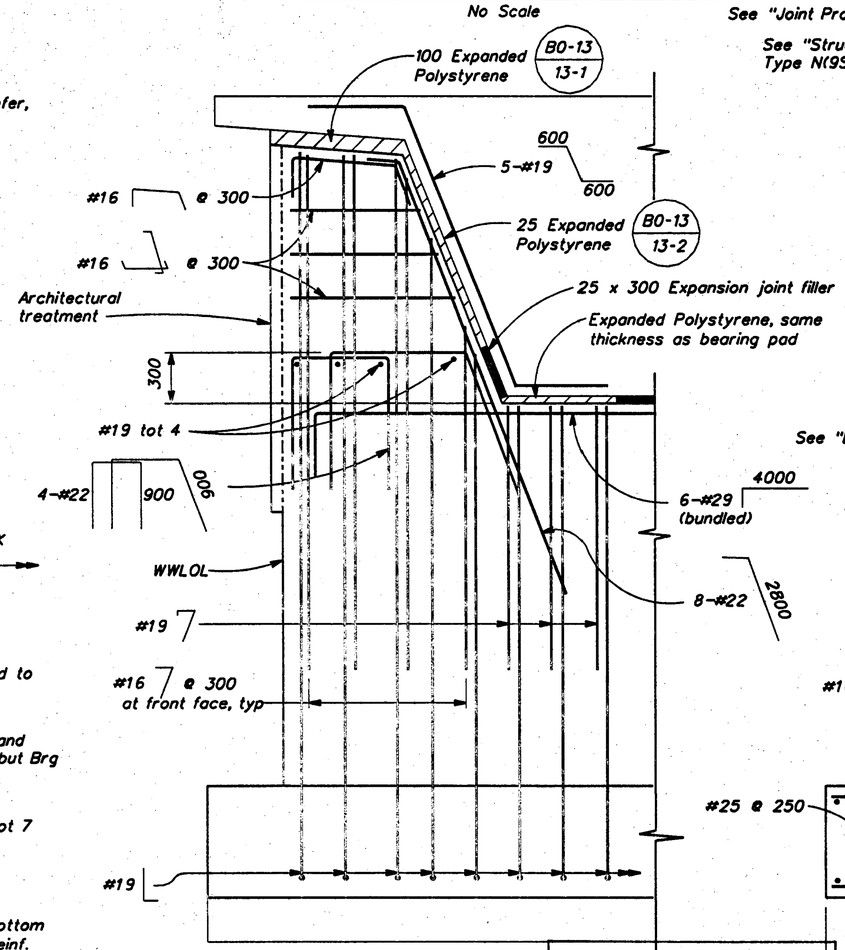
JOINT PROTECTION DETAIL

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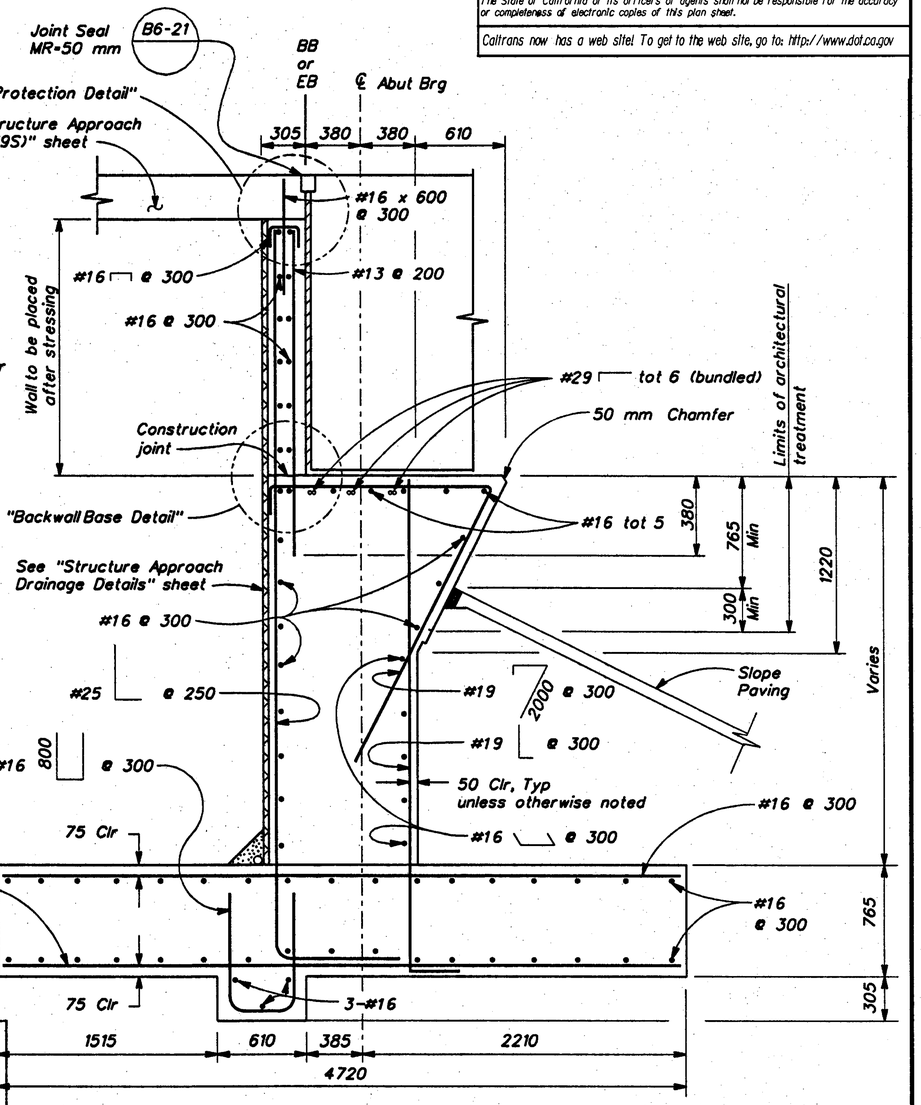
BACKWALL BASE DETAIL

No Scale



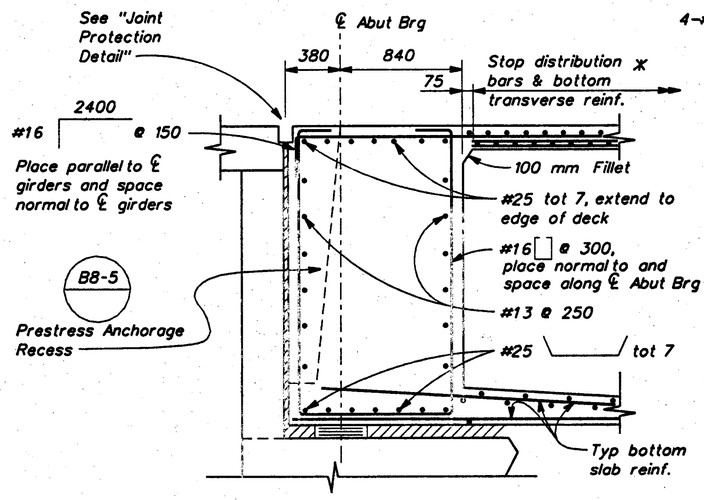
PART ELEVATION

Scale: 1:20



ABUTMENT SECTION

Scale: 1:20



END DIAPHRAGM SECTION

Scale 1:20

* See grider layout sheets 1 and 2 for distribution steel

NO AS BUILT CHANGES

AS BUILT VL 6-17-04

CORRECTIONS BY Peter Mona

CONTRACT NO. 06-342324

DATE 9-30-03

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	435	461

REGISTERED CIVIL ENGINEER

7-2-01

PLANS APPROVAL DATE

MICHAEL SCOTT TRAFFALIS, No. C46883, Exp. 06/30/03, CIVIL, REGISTERED PROFESSIONAL ENGINEER, STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
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DESIGN OVERSIGHT
4-18-01
SIGN OFF DATE

DESIGN	BY T. Kimura	CHECKED T. Holden
DETAILS	BY T. Burns	CHECKED S. Kazmi
QUANTITIES	BY T. Kimura	CHECKED J. Lee

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

M. Traffalis
PROJECT ENGINEER

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

CU 06222
EA 342321

BRIDGE NO. 42-299G
KILOMETER POST 90.63

E180-N99 CONNECTOR SEPARATION

ABUTMENT DETAILS NO. 1

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

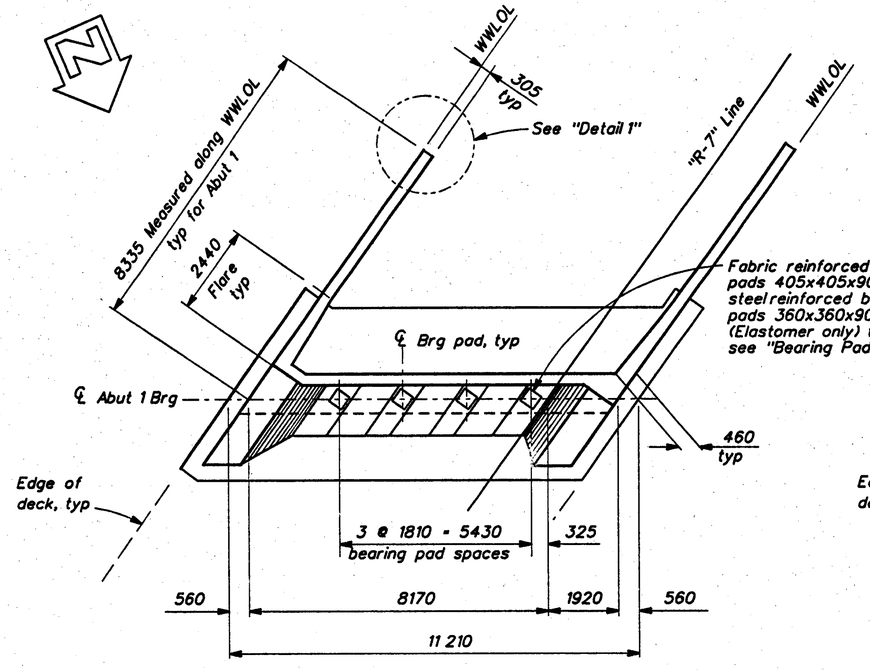
REVISION DATES (PRELIMINARY STAGE ONLY): 10/15/97 | 1/26/98 | 1/30/98 | 2/05/98 | 6/18/98 | 12/22/98 | 6/24/99 | 12/16/99 | 3/27/01

SHEET 5 OF 17

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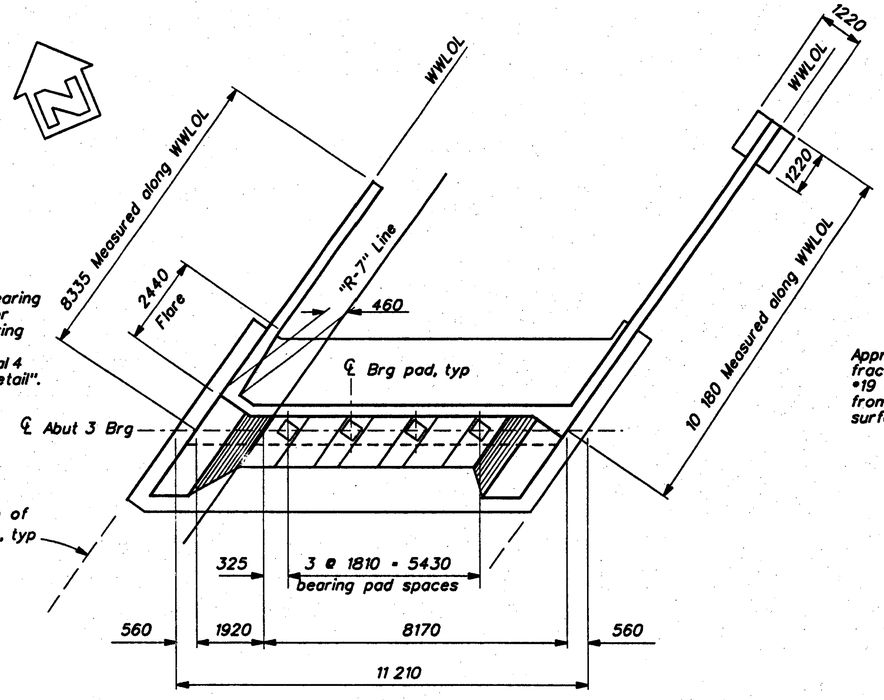
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PLAN - ABUTMENT 1

Scale: 1:80



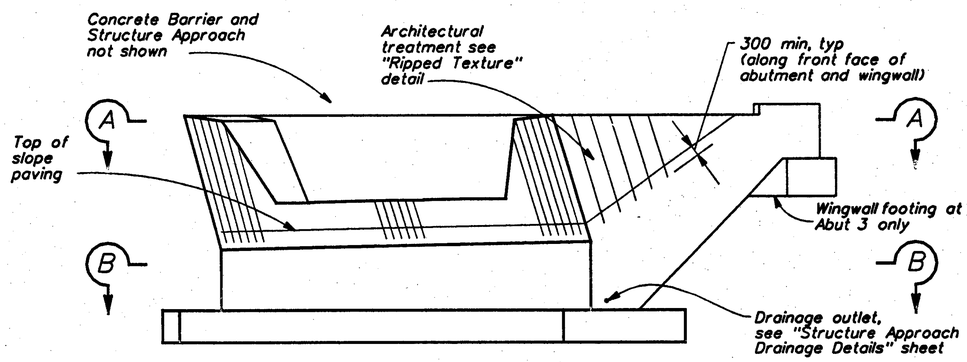
PLAN - ABUTMENT 3

(See "Plan Abutment 1" for details not shown

Scale: 1:80

NOTES:

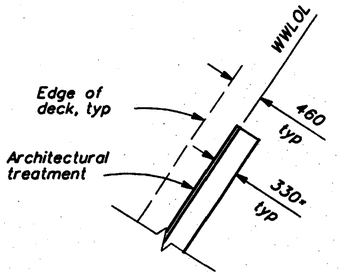
1. Footing key in "Elevation" not shown.
2. For "Sections A-A" and "Section B-B" see "Abutment Details No. 2" sheet.



ELEVATION

Abutment 3 shown, Abutment 1 similar

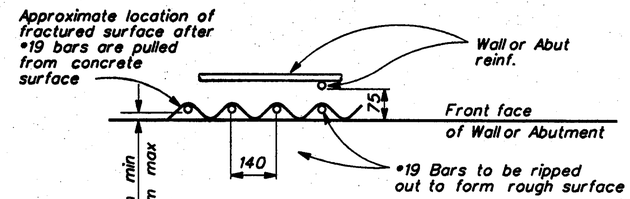
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* Includes additional 25mm of concrete cover for architectural treatment

DETAIL 1

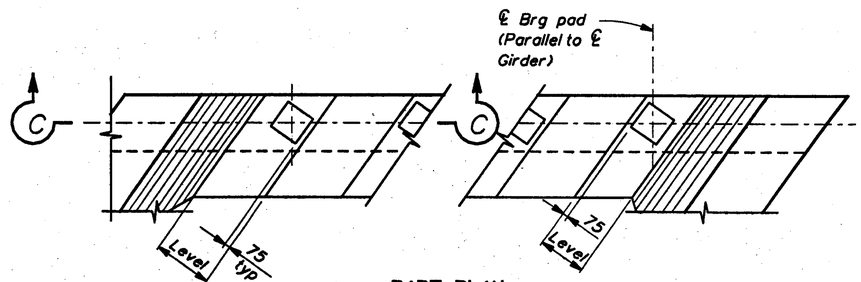
No Scale



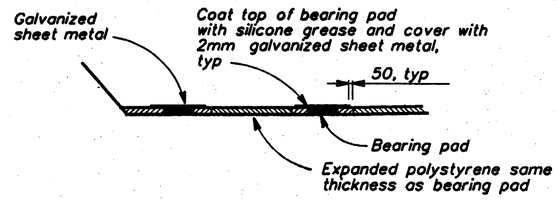
(ARCHITECTURAL TREATMENT)

RIPPED TEXTURE

No Scale



PART PLAN



SECTION C-C

BEARING PAD DETAIL

Scale: 1:40

AS BUILT YL 6-17-04
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-30-03

NO AS BUILT CHANGES

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	434	461

Caltrans Metric

REGISTERED CIVIL ENGINEER — MICHAEL SCOTT TRAFFALIS, No. C46883, Exp. 06/30/03, CIVIL, REGISTERED PROFESSIONAL ENGINEER, STATE OF CALIFORNIA

7-2-01
PLANS APPROVAL DATE

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3840 ROSIN COURT, STE. 200
SACRAMENTO, CA. 95834

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B Massey for Joel Escabar
DESIGN OVERSIGHT
4-18-01
SIGN OFF DATE

DESIGN	BY T. Kimura	CHECKED T. Holden	
DETAILS	BY T. Burns	CHECKED S. Kazmi	
QUANTITIES	BY T. Kimura	CHECKED J. Lee	

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

M. Traffalis
PROJECT ENGINEER

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

CU 06222
EA 342321

BRIDGE NO. 42-299G
KILOMETER POST 90.63

E180-N99 CONNECTOR SEPARATION
ABUTMENT LAYOUT

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)									SHEET	OF
7/30/98	2/05/98	6/19/98	12/29/98	6/24/99	12/30/99	3/27/01			4	17

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	440	461

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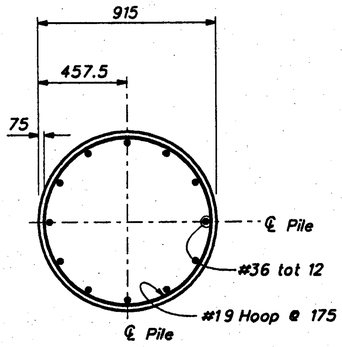
REGISTERED CIVIL ENGINEER — MICHAEL SCOTT TRAFFALIS, C46883, 06/30/03, CIVIL, REGISTERED PROFESSIONAL ENGINEER, STATE OF CALIFORNIA

7-2-01
PLANS APPROVAL DATE

PARSONS BRINCKERHOFF
QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA. 95834

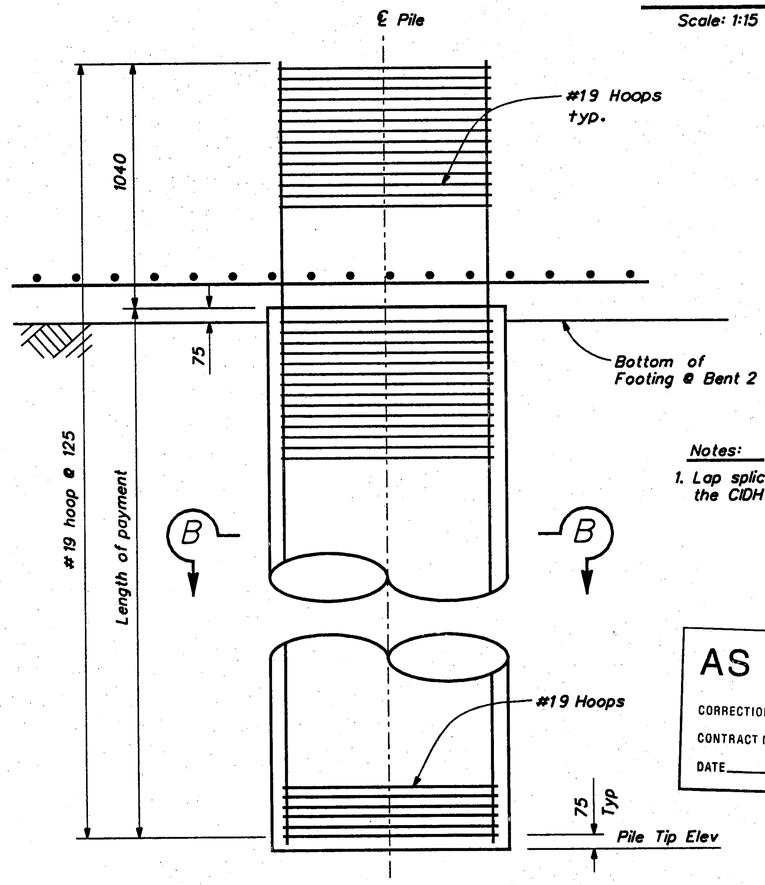
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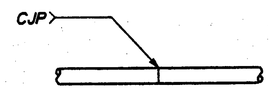
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SECTION B-B

Scale: 1:15





Individual hoops, made continuous with 100% penetration welds, only allowed.

BUTT WELDED CONTINUOUS HOOP

HOOP DETAIL

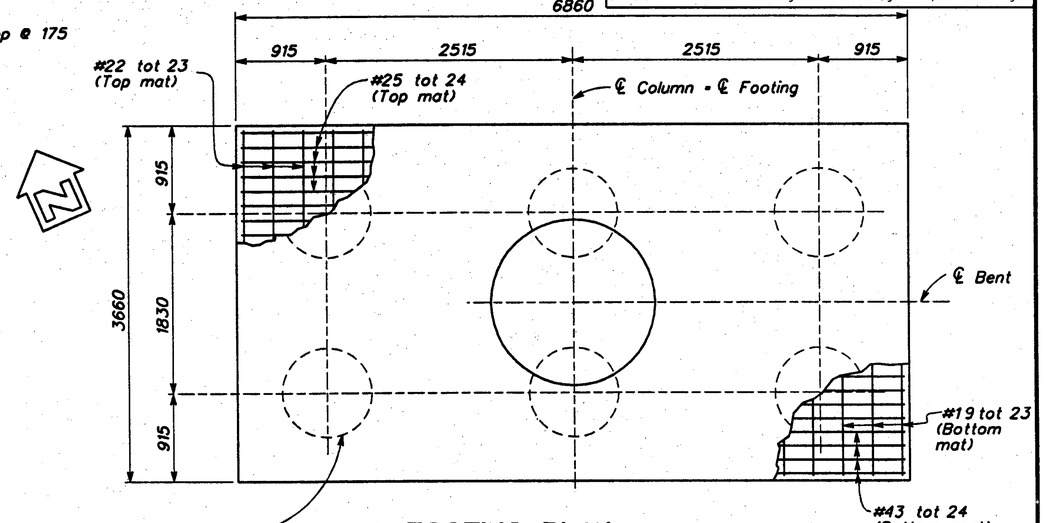
No Scale

900 DIA-CAST-IN-DRILLED-HOLE (CIDH) CONCRETE PILE

Scale: 1:20

AS BUILT VL 6-17-04
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-30-03

NO AS BUILT CHANGES

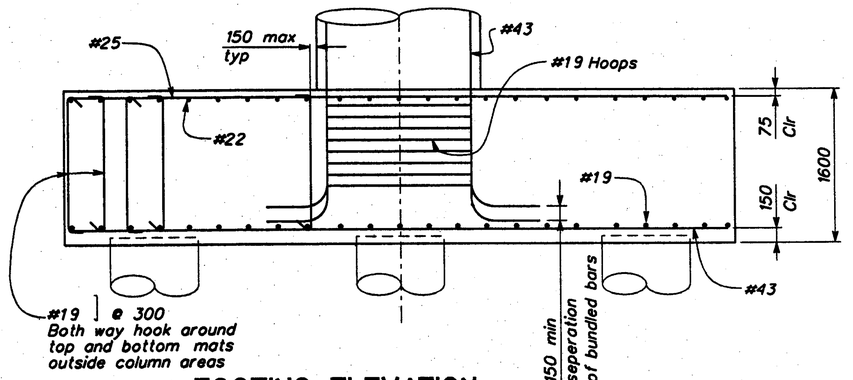


FOOTING PLAN

Scale: 1:30

Notes:

1. Lap splices in longitudinal reinforcement for the CIDH pile not allowed.



FOOTING ELEVATION

Scale: 1:30

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DESIGN	BY T. Kimura	CHECKED T. Holden	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	M. Traffalis PROJECT ENGINEER	BRIDGE NO. 42-299G
DETAILS	BY T. Burns	CHECKED S. Kazmi			KILOMETER POST 90.63
QUANTITIES	BY T. Holden	CHECKED J. Lee		CU 06222 EA 342321	E180-N99 CONNECTOR SEPARATION
					BENT DETAILS NO. 3

B2 Massey for Joel Escobar
DESIGN OVERSIGHT
4-18-01
SIGN OFF DATE

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

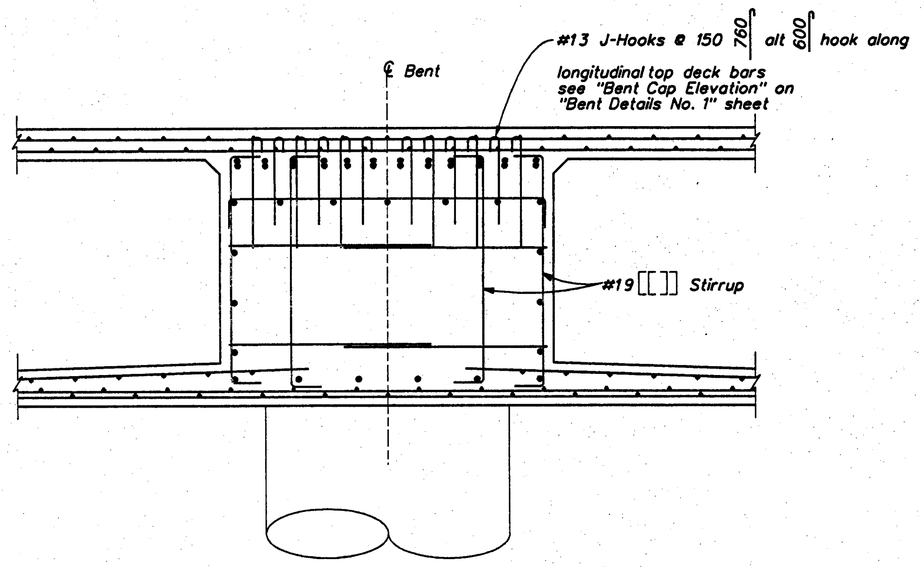
DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)							SHEET	OF
10/15/97	1/30/98	2/05/98	6/18/98	12/29/98	6/24/99	12/30/99	3/27/01	10	17

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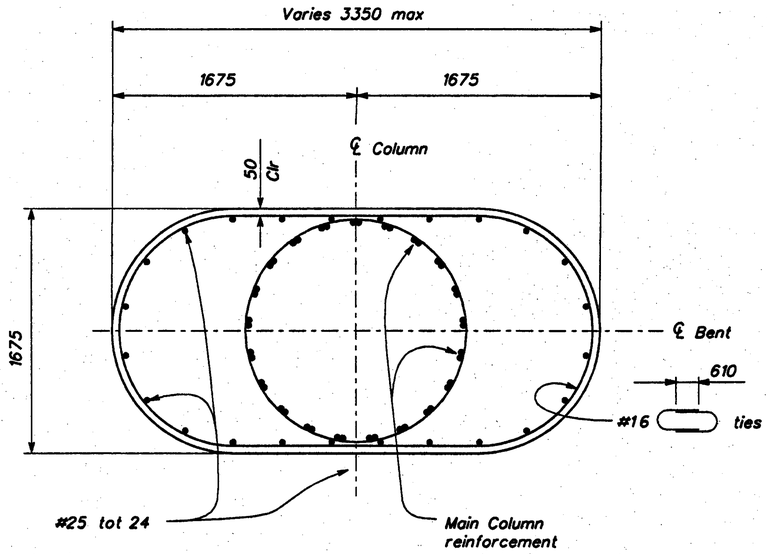
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SECTION B-B

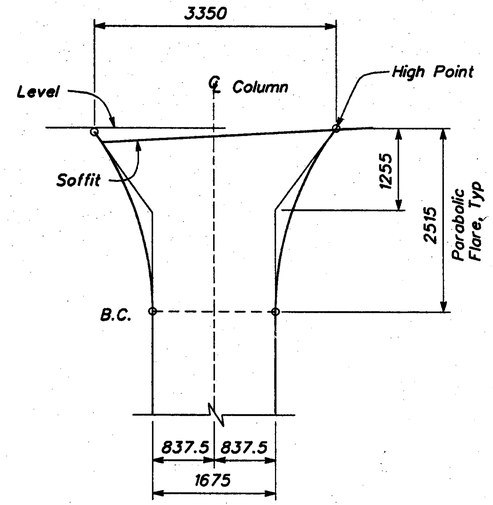
Scale: 1:20

For details not shown see Section A-A
Column Reinforcing not shown for clarity



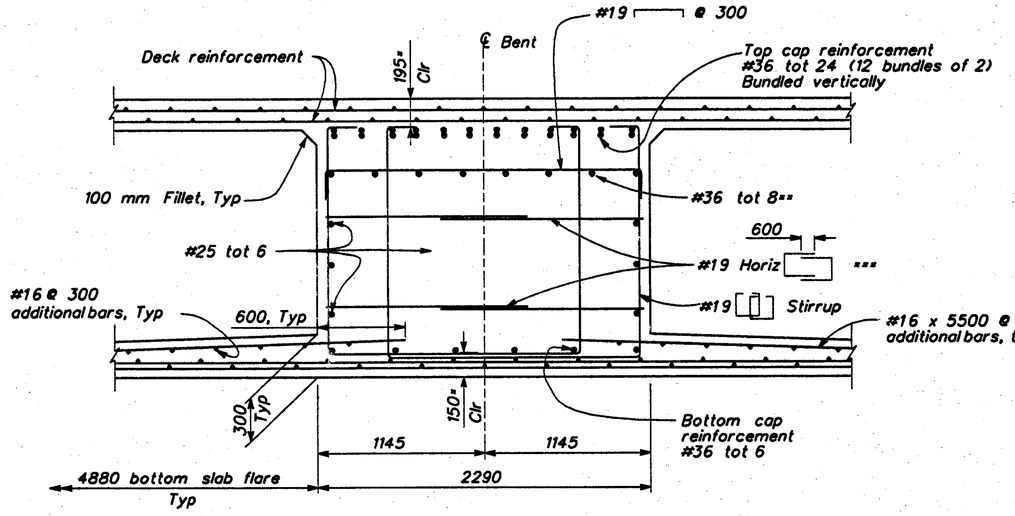
SECTION C-C

Scale: 1:20



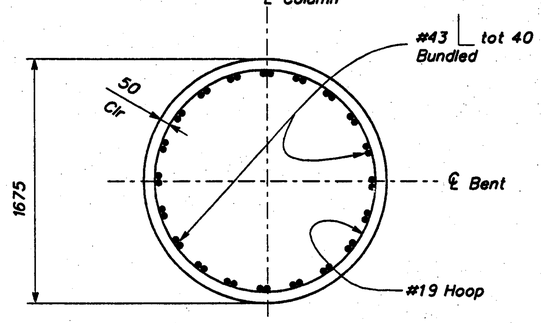
FLARE DETAIL

No Scale



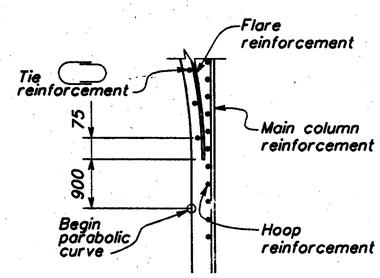
SECTION A-A

Scale: 1:20



SECTION D-D

Scale: 1:20



HOOP AND TIE DETAIL

No Scale

* Clearance to main cap reinforcement.

** Place reinforcement as required to clear prestress duct.

*** See "Bent Cap Elevation" on "Bent Details No. 1" sheet. Use same spacing as stirrups.

AS BUILT VL 6-17-04
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-30-03

NO AS BUILT CHANGES

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	439	461

Caltrans Metric

REGISTERED CIVIL ENGINEER
7-2-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL SCOTT TRAFFALIS — No. C46883 — Exp. 06/30/03 — CIVIL — STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
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DESIGN	T. Kimura	CHECKED	T. Holden
DETAILS	T. Burns	CHECKED	S. Kazmi
QUANTITIES	T. Kimura	CHECKED	J. Lee

B.Marney for Joel Escabar
DESIGN OVERSIGHT
4-18-01
SIGN OFF DATE

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

M. Traffalis
PROJECT ENGINEER

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

CU 06222
EA 342321

BRIDGE NO. 42-299G
KILOMETER POST 90.63

E180-N99 CONNECTOR SEPARATION
BENT DETAILS NO. 2

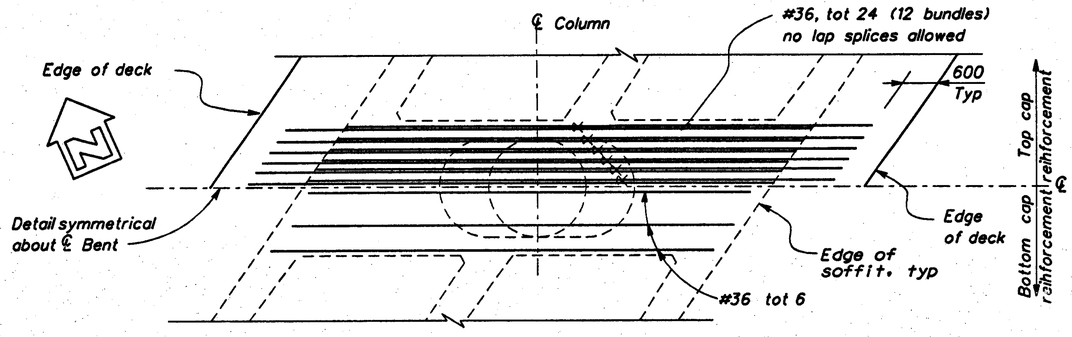
DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)								SHEET	OF
10/15/97	7/30/98	2/15/98	6/19/98	12/29/98	6/29/99	12/29/99	3/27/01	9	17

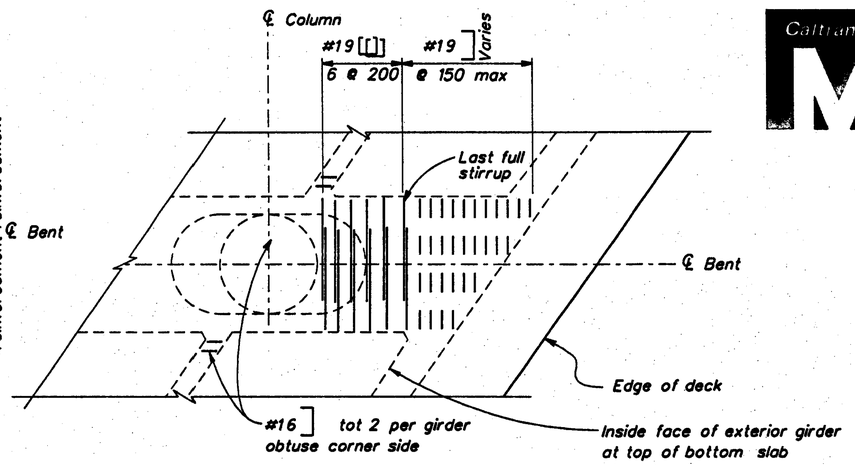
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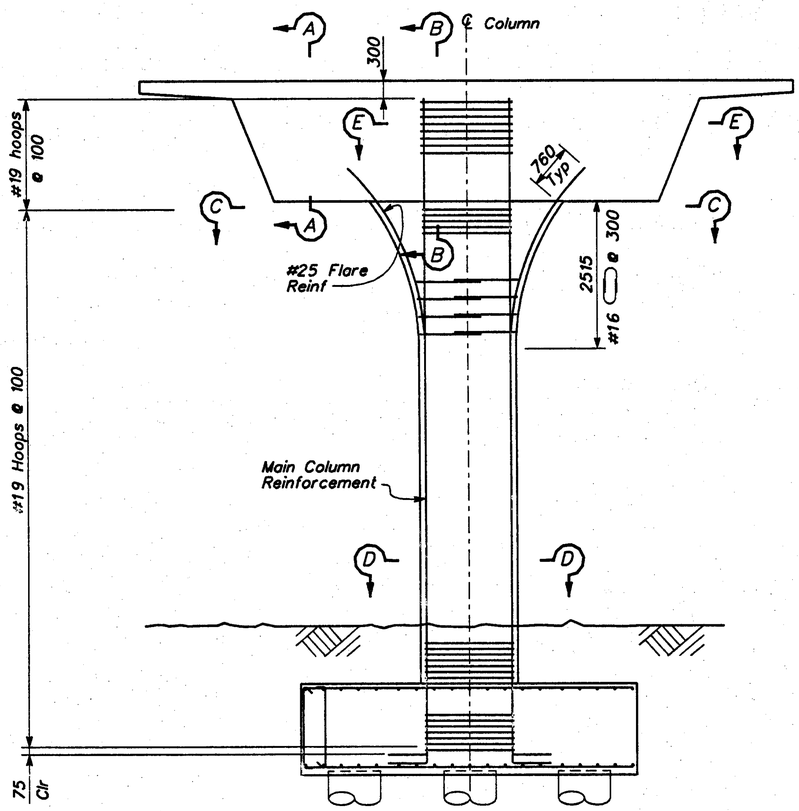
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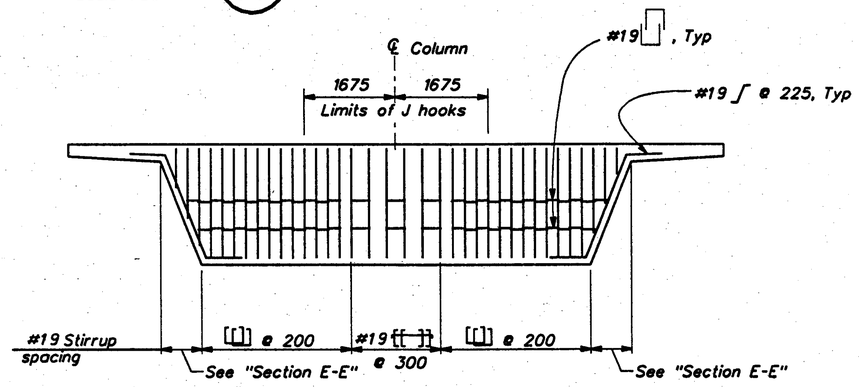
PLAN
Scale: 1:50



SECTION E-E
B7-1 / S-3
Scale: 1:50



ELEVATION
Scale: 1:50



BENT CAP ELEVATION
B7-1 / S-3
Scale: 1:50

NOTES:

1. For Sections A-A, B-B. C-C & D-D see "Bent Details No. 2" sheet
2. All bent cap main reinforcement and main column reinforcment shall be continuous unless otherwise noted.
3. Main column reiforcement may be adjusted to clear P/S ducts

Indicates bundled bars

AS BUILT VL 6-17-04
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-30-03

NO AS BUILT CHANGES

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	438	461

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REGISTERED CIVIL ENGINEER
7-2-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL SCOTT TRAFFALIS — No. C46883 — Exp. 06/30/03 — CIVIL — STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
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DETAILS	BY T. Burns	CHECKED S. Kazmi	
QUANTITIES	BY T. Kimura	CHECKED J. Lee	

B2 Massey for Joel Escabar
DESIGN OVERSIGHT
4-18-01
SIGN OFF DATE

M. Traffalis
PROJECT ENGINEER

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

CU 06222
EA 342321

BRIDGE NO. 42-299G
KILOMETER POST 90.63

E180-N99 CONNECTOR SEPARATION
BENT DETAILS NO. 1

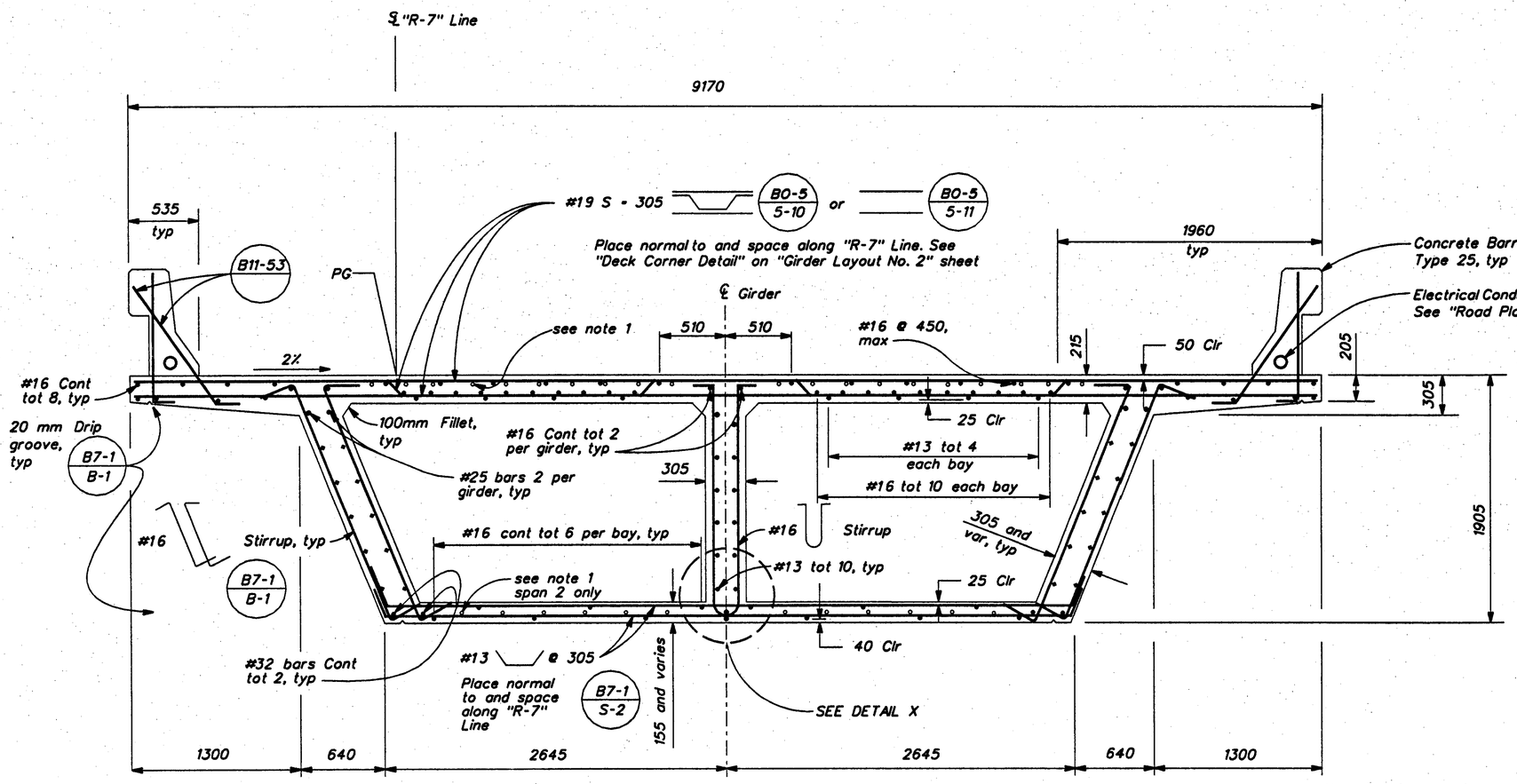
DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)								SHEET	OF
10/15/97	7/30/98	2/15/99	6/19/98	12/22/98	6/29/99	12/30/99	3/27/01	8	17

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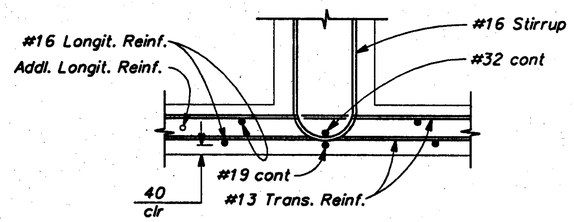
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TYPICAL SECTION

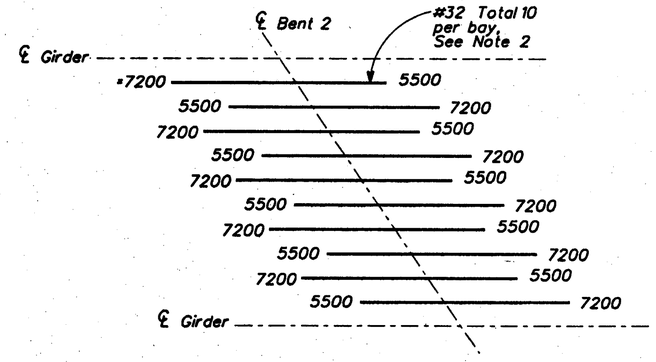
B0-5 B7-1 B8-5

Scale: 1:20

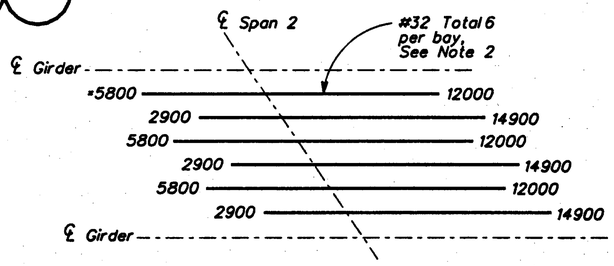


DETAIL X

No Scale



* Numbers at end of rebars indicate length in millimeters measured from the ℄ of Bent 2



* Numbers at end of rebars indicate length in millimeters measured from the ℄ of Span 2

ADDITIONAL LONGITUDINAL REINFORCEMENT (Span 2 only)- BOTTOM SLAB

No Scale

ADDITIONAL LONGITUDINAL REINFORCEMENT - TOP SLAB

No Scale

NOTES

1. ○ Indicates additional mild reinforcement, See "Additional Longitudinal Reinforcement - Top Slab" and "Additional Longitudinal Reinforcement - Bottom Slab".
2. Additional mild steel shall have 80mm clearance to the top of top slab and bottom of soffit.
3. No lap splices shall be allowed in the additional longitudinal reinforcement.

AS BUILT VL 6-17-04
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-30-03

NO AS BUILT CHANGES

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	441	461

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Michael Scott Traffalis
REGISTERED CIVIL ENGINEER
7-2-01
PLANS APPROVAL DATE

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PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
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B. Murray for Joel Escabar
DESIGN OVERSIGHT
4-18-01
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	BY	CHECKED
DESIGN	T. Kimura	T. Holden
DETAILS	T. Burns	S. Kozmi
QUANTITIES	T. Kimura	J. Lee

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

M. Traffalis
PROJECT ENGINEER

CU 06222
EA 342321

BRIDGE NO. 42-299G
KILOMETER POST 90.63

E180-N99 CONNECTOR SEPARATION

TYPICAL SECTION

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

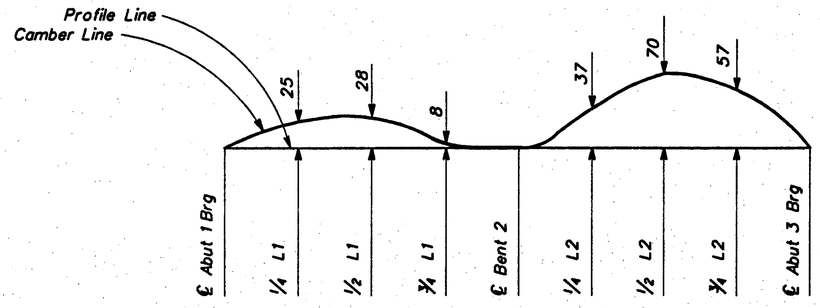
REVISION DATES (PRELIMINARY STAGE ONLY)								SHEET	OF
10/15/97	1/30/98	2/05/98	6/18/98	12/29/98	6/29/99	12/30/99	3/27/01	11	17

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

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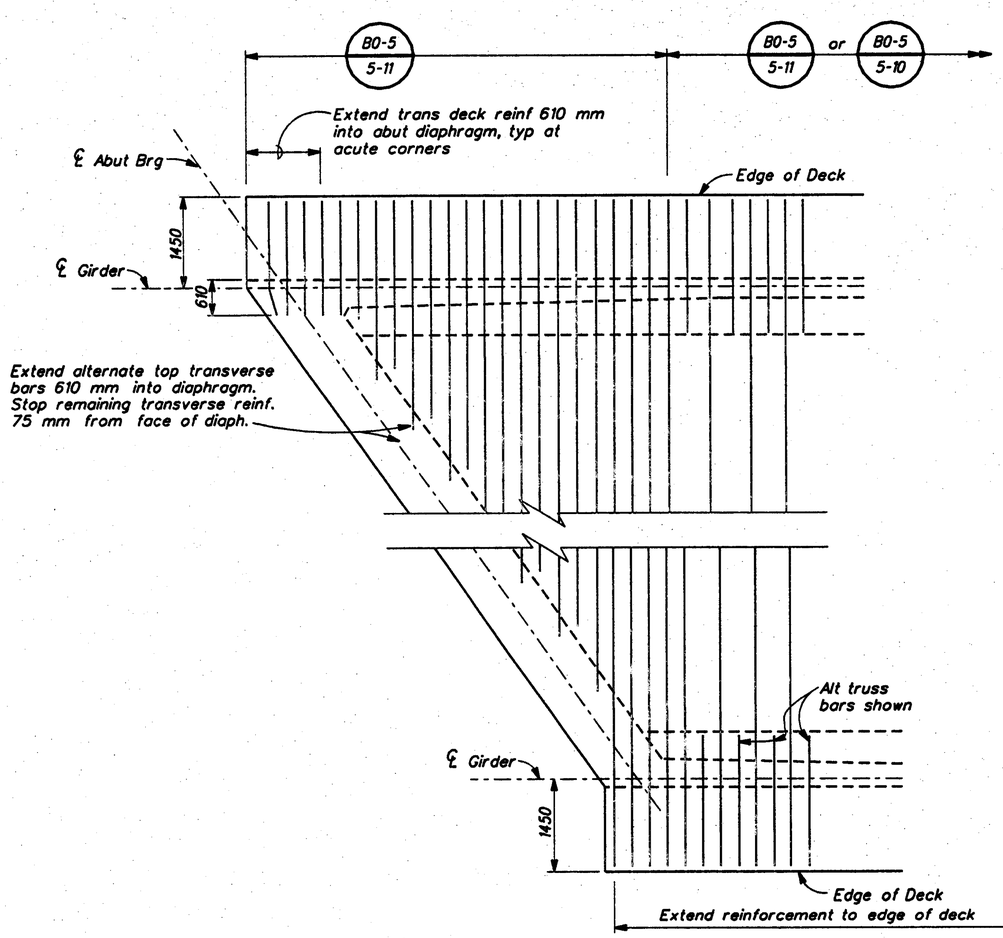
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CAMBER DIAGRAM

No Scale

Camber diagram does not include allowance for falsework settlement



DECK CORNER DETAIL

No Scale

PRESTRESSING NOTES:

1. Design based on 1860 MPa Low Relaxation Strand.
2. Pjack = 26 500 kN (Total)
   Anchor set = 10 mm
   Total number of girders = 3
3. Distribution of prestress force (Pjack) between girders shall not exceed the ratio of 3:2. Max. final force variation between girders shall not exceed 3225 KN
4. Concrete: f'c = 28 MPa at 28 days
   f'ci = 25 MPa at time of stressing.
5. ☒ Indicates point of no movement.
   One end stressing shall be performed from abutment 3.
6. Contractor shall submit elongation calculations based on initial stress at ☒ = 0.835 times jacking stress.
7. Design is based on $\mu = 0.20$ and $k = 0.00$.
8. Tendons to be jacked to 0.73 f's.
9. $As = \frac{Pjack}{0.73\ f's}$

AS BUILT VL 6-17-04

CORRECTIONS BY Peter Mona

CONTRACT NO. 06-342324

DATE 9-30-03

NO AS BUILT CHANGES

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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REGISTERED CIVIL ENGINEER — MICHAEL SCOTT TRAFFALIS, No. C46883, Exp. 06/30/03, CIVIL, STATE OF CALIFORNIA

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DESIGN	T.Kimura	CHECKED	T.Holden
DETAILS	T. Burns	CHECKED	S. Kazmi
QUANTITIES	T. Kimura	CHECKED	J. Lee

DESIGN OVERSIGHT Joel Escabar
SIGN OFF DATE 4-18-01

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

M. Traffalis
PROJECT ENGINEER

CU 06222
EA 342321

BRIDGE NO. 42-299G
KILOMETER POST 90.63

E180-N99 CONNECTOR SEPARATION
GIRDER LAYOUT NO 2

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 10/15/97 | 1/30/98 | 2/05/98 | 6/18/98 | 12/23/98 | 6/21/99 | 12/30/99 | 3/27/01

SHEET 13 OF 17

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	442	461

Caltrans Metric

Michael Scott Traffalis
REGISTERED CIVIL ENGINEER

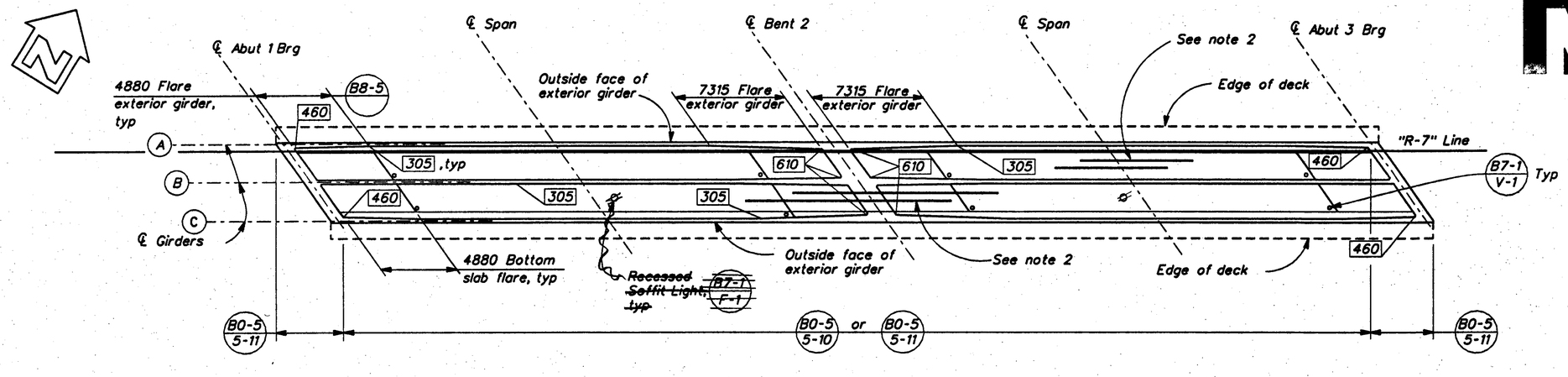
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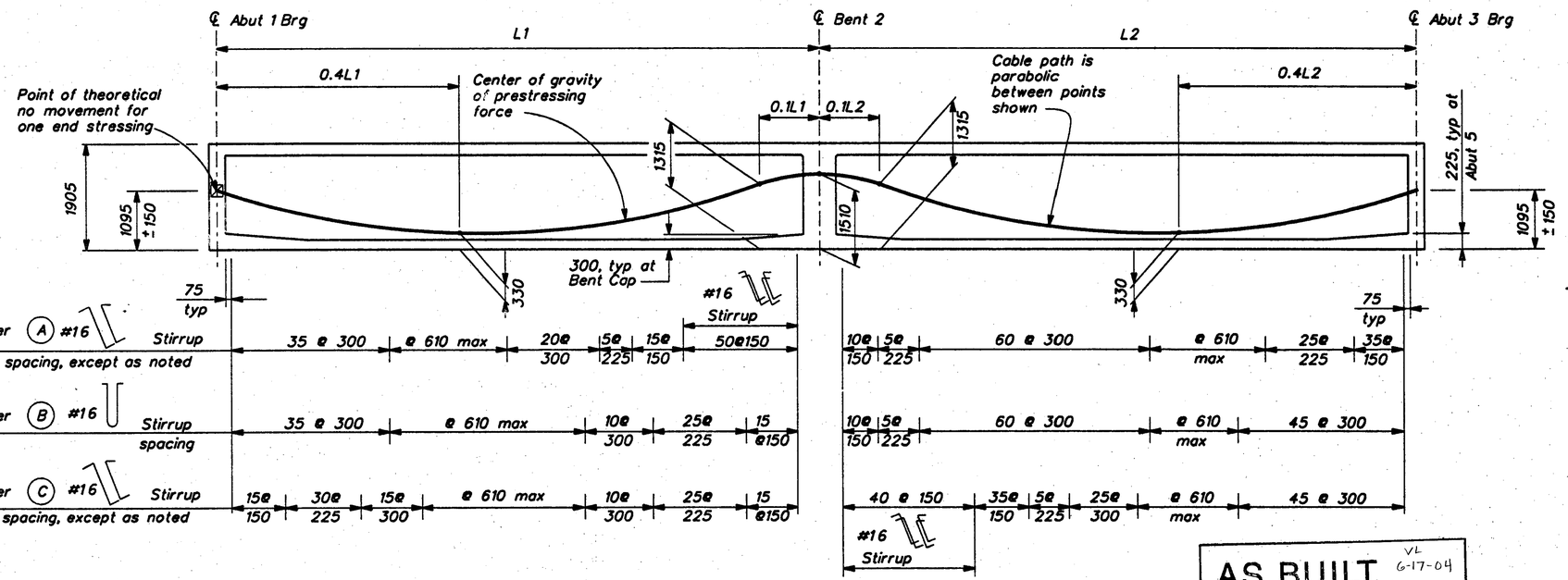
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GIRDER LAYOUT

B7-1 B8-5 B0-5

Scale: 1:200



LONGITUDINAL SECTION

B8-5

No Scale

NOTES:

1. Indicates girder flare width in millimeters see (B7-1 / S-3)
2. All bars not shown for clarity. For additional mild reinforcement, see "Typical Section" sheet.
3. For "Deck Corner Detail" and "Prestressing Notes" see "Girder Layout No. 2" sheet.
4. For "Prestressing Notes" and "Camber Diagram" see Girder Layout No. 2" sheet.
5. ~~For Recessed Soffit Light locations, see "Road Plans".~~ Deleted

AS BUILT VL 6-17-04
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-30-03

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

B2 Massey for Joel Escabar
DESIGN OVERSIGHT
4-18-01
SIGN OFF DATE

DESIGN	BY T. Kimura	CHECKED T. Holden	
DETAILS	BY T. Burns	CHECKED S. Kazmi	
QUANTITIES	BY T. Kimura	CHECKED J. Lee	

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

M. Traffalis
PROJECT ENGINEER

CU 06222
EA 342321

BRIDGE NO.	E180-N99 CONNECTOR SEPARATION
42-299G	
KILOMETER POST 90.63	GIRDER LAYOUT NO 1

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 10/15/97 | V30/98 | 2/05/98 | 6/15/98 | 12/22/98 | 6/21/99 | 12/30/99 | 3/27/01

SHEET 12 OF 17

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DIST.	COUNTY	ROUTE	POST km TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	447	461

George P. Hattrup
REGISTERED GEOTECHNICAL ENGINEER

7-2-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — George P. Hattrup — No. No. 2353 — Exp. 6-30-01 — GEOTECHNICAL — STATE OF CALIFORNIA

BSK & ASSOCIATES
567 WEST SHAW AVE. , SUITE B2
FRESNO, CA. 93704

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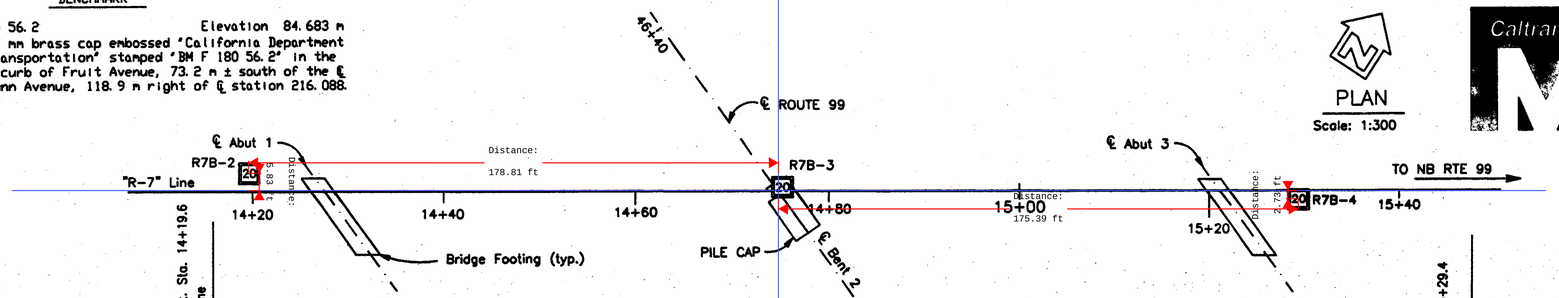
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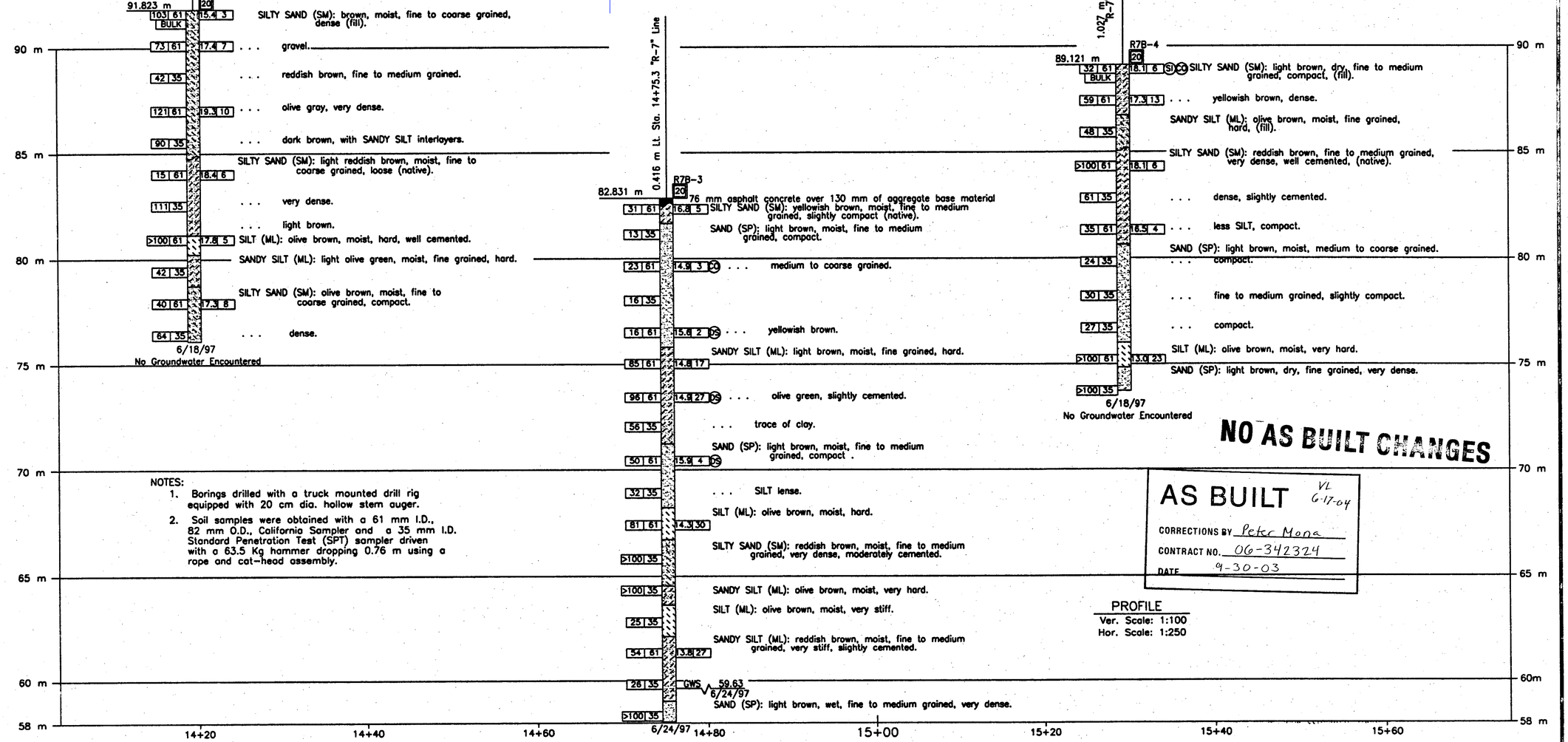
Caltrans Metric

BENCHMARK

F 180 56.2 Elevation 84.683 m
Fd 57 mm brass cap embossed 'California Department of Transportation' stamped 'BM F 180 56.2' in the west curb of Fruit Avenue, 73.2 m ± south of the ℄ of Dunn Avenue, 118.9 m right of ℄ station 216.088.

PLAN
Scale: 1:300





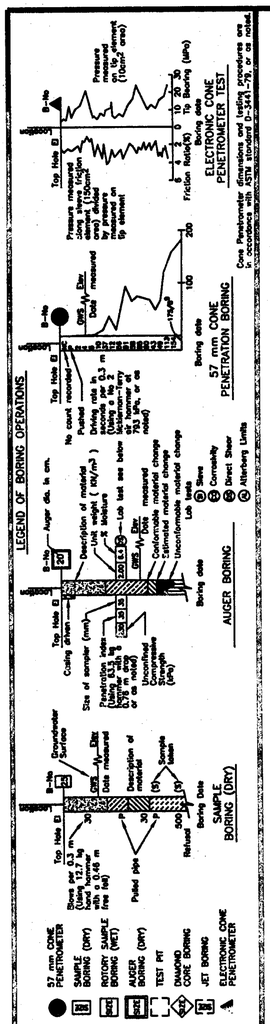
NOTES:
1. Borings drilled with a truck mounted drill rig equipped with 20 cm dia. hollow stem auger.
2. Soil samples were obtained with a 61 mm I.D., 82 mm O.D., California Sampler and a 35 mm I.D. Standard Penetration Test (SPT) sampler driven with a 63.5 Kg hammer dropping 0.76 m using a rope and cat-head assembly.

NO AS BUILT CHANGES

AS BUILT VL 6-17-04
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-30-03

PROFILE
Ver. Scale: 1:100
Hor. Scale: 1:250

LEGEND OF BORING OPERATIONS



LEGEND OF EARTH MATERIALS

CONSISTENCY CLASSIFICATION FOR SOILS
According to the Standard Penetration test

Penetration Index (Blows/0.3 m)	Granular	Cohesive
0–4	Very loose	Very Soft
5–9	Loose	Soft
10–19	Slightly compact	Stiff
20–34	Compact	Very stiff
35–69	Dense	Hard
>70	Very dense	Very hard

NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis

DESIGN OVERSIGHT	JOEL ESCABAR	
SIGNOFF DATE	4-18-01	
FIELD ENGINEER :	K. ROMERO & S. KAWATE	6/97
DRAWN BY :	J. R. SCHNEIDER	10/97
CHECKED BY :	G. P. HATTRUP, P. E.	10/97

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

George Hattrup, P. E.
PROJECT ENGINEER

CU 06
EA 342321

BRIDGE NO. 42-299G
KILOMETER POST 90.63

DISREGARD PRINTS BEARING EARLIER REVISION DATES

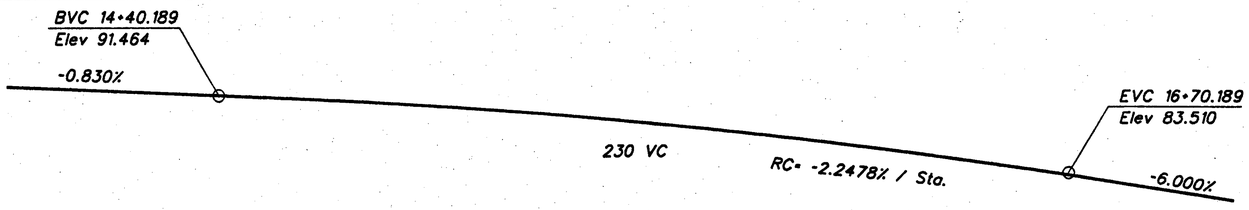
ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 20 40 60 80

E180–N99 CONNECTOR SEPARATION
LOG OF TEST BORINGS

REVISION DATES (PRELIMINARY STAGE ONLY)					SHEET	OF
12/19/97	03/04/98	06/02/98	12/02/98	03/27/01	17	17

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PROFILE GRADE- "R-7"

No Scale

NOTES:

1. Paint "E180-N99 CONNECTOR SEPARATION."
2. Paint "Br. No. 42-299G" and year constructed
3. MBGR (See Road Plans)
4. Structure Approach Type N(9S)
5. Architectural Treatment
6. ~~Soffit lights (see Road Plans)~~ Deleted

⊕ Point of Minimum Vert. Clearance

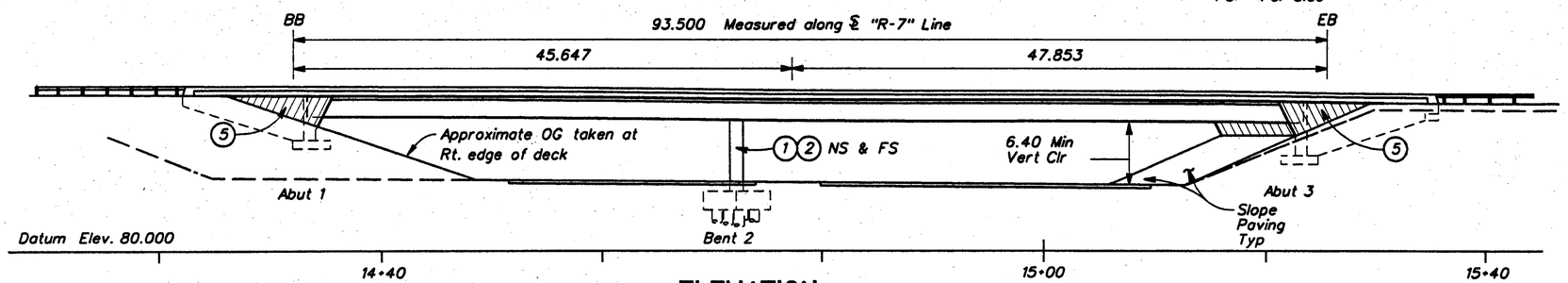
For "General Notes" see "Deck Contours" sheet.

For "Index to Plans" see "Deck Contours" sheet.

Elevations for approach fills are approximate.

NS - Near Side

FS - Far Side



ELEVATION

Scale: 1:250

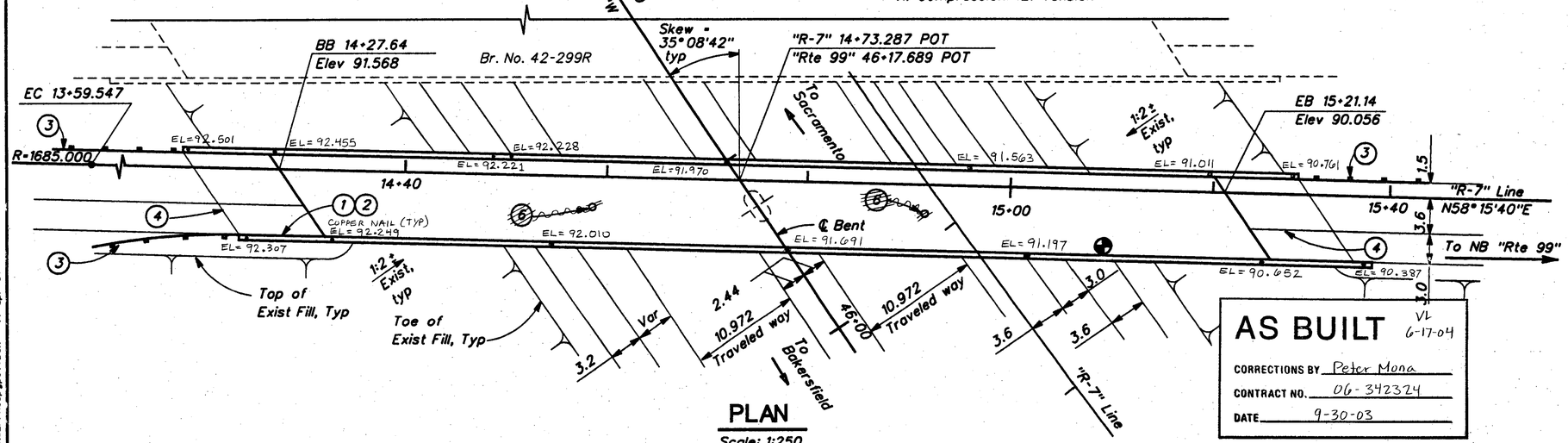
Curve Data

"Route 99"	"R-7"
R = 914.342	R = 1685.000
Δ = 25°52'45"	Δ = 8°55'11"
T = 210.077	T = 131.424
L = 412.986	L = 262.317

PILE DATA - CIDH CONCRETE PILES

Location	Pile Type	Nominal Resistance		Design Tip Elevation (Meters)	Specified Tip Elevation (Meters)
		Compression	Tension		
Bent 2	900 mm	5340 kN	2620 kN	65.000 (1)(2)	65.000

Design tip elevations are controlled by the following demands:
(1) Compression; (2) Tension



PLAN

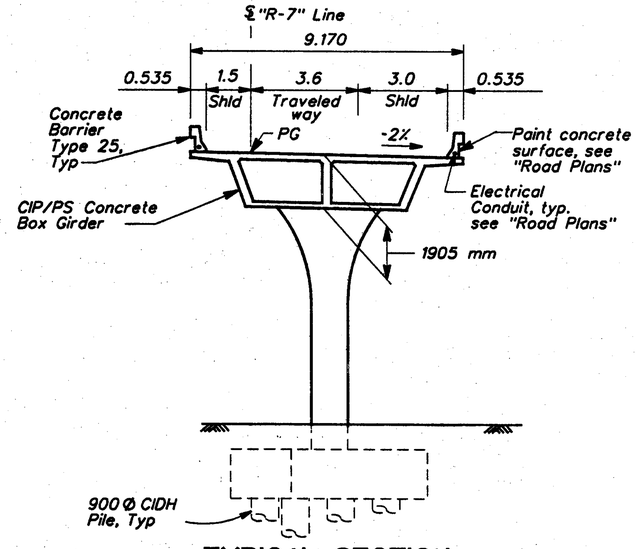
Scale: 1:250

AS BUILT VL 6-17-04

CORRECTIONS BY Peter Mona

CONTRACT NO. 06-342324

DATE 9-30-03



TYPICAL SECTION

Scale: 1:100

QUANTITIES

STRUCTURE EXCAVATION (BRIDGE)	510	m^3
STRUCTURE BACKFILL (BRIDGE)	355	m^3
900 MM CAST-IN-DRILLED-HOLE CONCRETE PILING	95	m
PRESTRESSING CAST-IN-PLACE CONCRETE	LUMP SUM	
STRUCTURAL CONCRETE, BRIDGE FOOTING	120	m^3
STRUCTURAL CONCRETE, BRIDGE	620	m^3
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N)	44	m^3
RIPPED TEXTURE (REINFORCING BAR)	80	m^2
JOINT SEAL (MR 50 MM)	23	m
BAR REINFORCING STEEL (BRIDGE)	88,000	kg
SLOPE PAVING (CONCRETE)	26	m^3
CONCRETE BARRIER (TYPE 25)	223	m

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	431	461

Michael Scott Traffalis
REGISTERED CIVIL ENGINEER

7-2-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL SCOTT TRAFFALIS — No. C46883 — Exp. 06/30/03 — CIVIL — STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA 95834

FRESNO COUNTY TRANSPORTATION AUTHORITY
2220 Tulare Street, Suite 411
Fresno, CA 93721

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DESIGN	BY T. Kimura	CHECKED T. Holden	LOAD FACTOR DESIGN	Live Loading: HS20-44 and Alternative and Permit Design Load			
DETAILS	BY T. Burns	CHECKED S. Kazmi	LAYOUT	BY T. Kimura	CHECKED T. Holden		
QUANTITIES	BY T. Kimura	CHECKED J. Lee	SPECIFICATIONS	BY T. Tracy	PLANS AND SPECS COMPARED T. Tracy		

B.C. Massey Jr. Joel Escabar
DESIGN OVERSIGHT 4-18-01
SIGNOFF DATE

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

M. Traffalis
PROJECT ENGINEER

CU 06222
EA 342321

BRIDGE NO.	E180-N99 CONNECTOR SEPARATION
42-299G	
KP (PM)	GENERAL PLAN
90.63(56.32)	

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)									SHEET	OF
9/15/97	12/15/97	1/9/98	1/30/98	2/25/98	6/19/98	12/29/98	6/21/99	12/30/99	3/27/01	1	17

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RELEASED 3-25-97

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	444	461

Caltrans Metric

REGISTERED ENGINEER - CIVIL

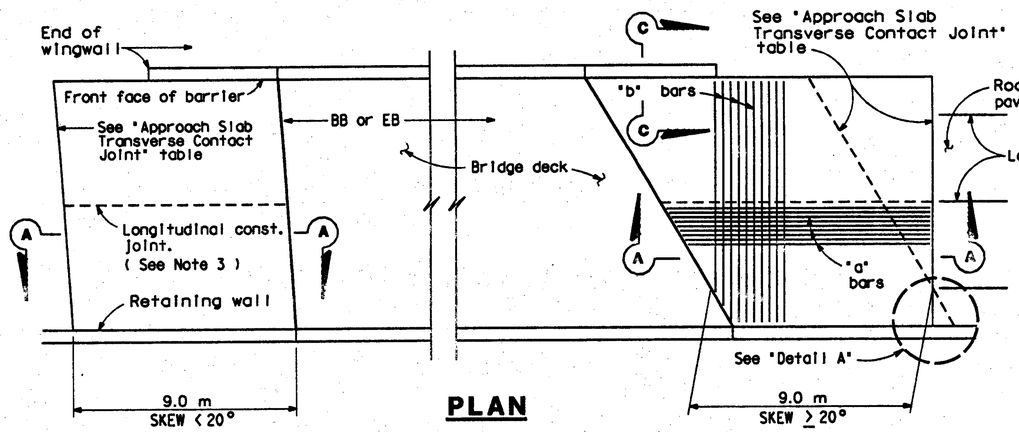
7-2-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL SCOTT TRAFFALIS — No. C46883 — Exp. 06/30/03 — CIVIL — STATE OF CALIFORNIA

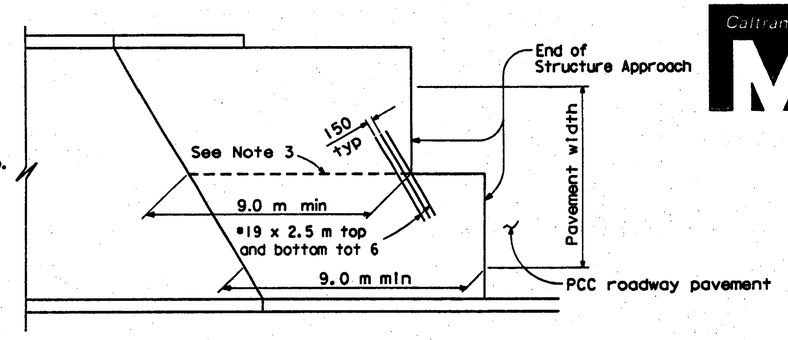
PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA. 95834

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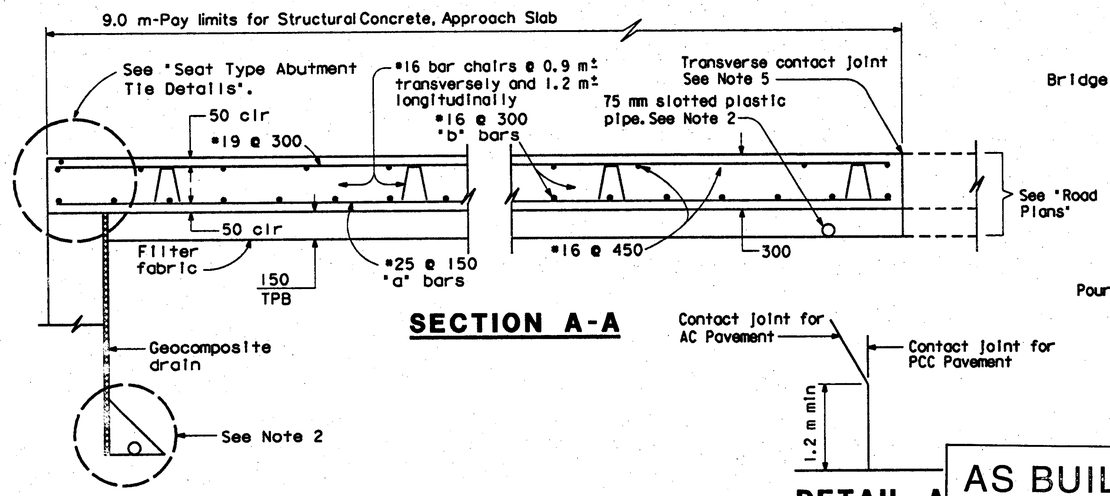
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PLAN

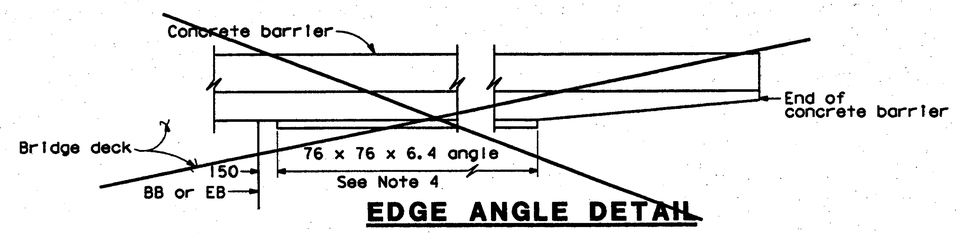


STRUCTURE APPROACH - END STAGGER DETAIL

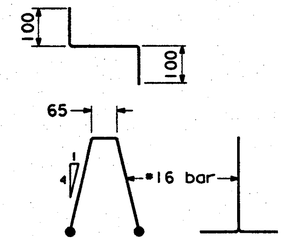


SECTION A-A

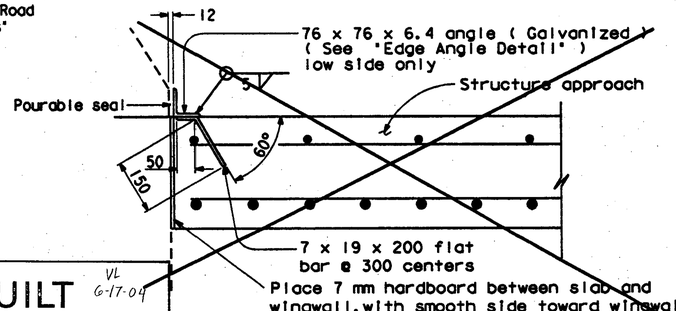
DETAIL A



EDGE ANGLE DETAIL



BAR CHAIR DETAIL



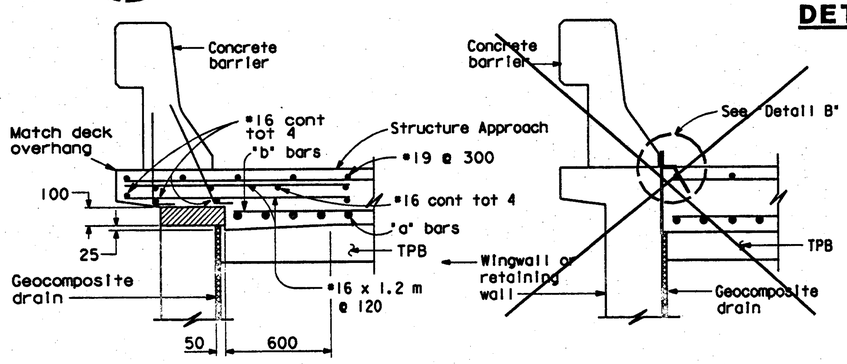
DETAIL B

APPROACH SLAB TRANSVERSE CONTACT JOINT		
APPROACH SKEW	WITH AC ROADWAY PAVEMENT	WITH PCC ROADWAY PAVEMENT
< 20°	Parallel to face of paving notch	Parallel to face of paving notch
20°- 45°	Parallel to face of P N use (Detail A)	Stagger lines 7.2 m to 10.8 m apart.
> 45°	Parallel to face of P N use (Detail A)	Stagger at each lane line.

NOTES:

1. For details not shown, see Structure Plans. For MR ≤ 50 mm, adjust bar reinforcement to clear a sawcut for sealed joint, when required.
2. For drainage details, see "Structure Approach Drainage Details" sheet.
3. Longitudinal construction joints, when permitted by the Engineer, shall be located on lane lines.
4. End angle at beginning of barrier transition, end of wingwall or end of structure approach, as applicable.
5. For transverse contact joint with new PCC paving, refer to Standard Plan A35-A.
6. At the contractor's option, approach slab transverse reinforcement may be placed parallel to paving notch. Spacing of transverse reinforcement is measured along ℄ roadway.

▨ Remove all polystyrene.

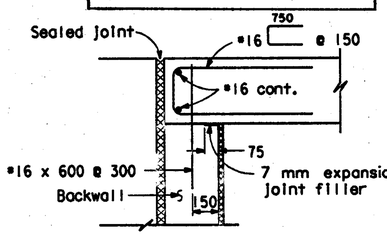


TYPE E-1

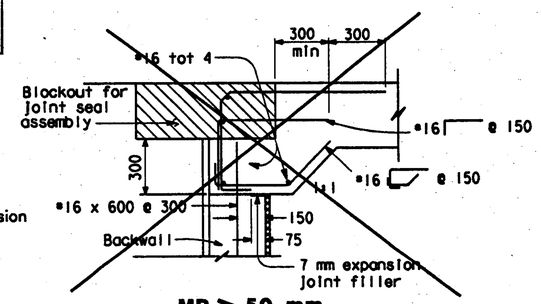
TYPE E-2

SECTION C-C

(Type E-1 to be used, unless otherwise shown on plans)



MR ≤ 50 mm



MR > 50 mm

SEAT TYPE ABUTMENT TIE DETAILS (SEE NOTE 1)

AS BUILT VL 6-17-04
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-30-03

NO AS BUILT CHANGES

NO SCALE
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

STANDARD DRAWING				
FILE NO. X8 22-18	DESIGN	BY M. TRAFFALIS	CHECKED E. THORKILDSEN	APPROVAL RECOMMENDED BY
DRAWING DATE 8/92	DETAILS	BY R. YEE	CHECKED E. THORKILDSEN	DESIGN SUPERVISOR
	SUBMITTED BY M. HA			

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
DIVISION OF STRUCTURES
STRUCTURE DESIGN

CU 06222
EA 342321

BRIDGE NO. 42-299G
KILOMETER POST 90.63

E180-N99CONNECTOR SEPARATION

STRUCTURE APPROACH TYPE N(9S)

DISREGARD PRINTS BEARING EARLIER REVISION DATES → REVISION DATES (PRELIMINARY STAGE ONLY): 1/30/98 | 2/05/98 | 6/15/98 | 2/22/99 | 6/24/99 | 2/20/00 | 3/27/01

SHEET 14 OF 17

DS OSD 2147A (METRIC) (REV. 2/25/97)

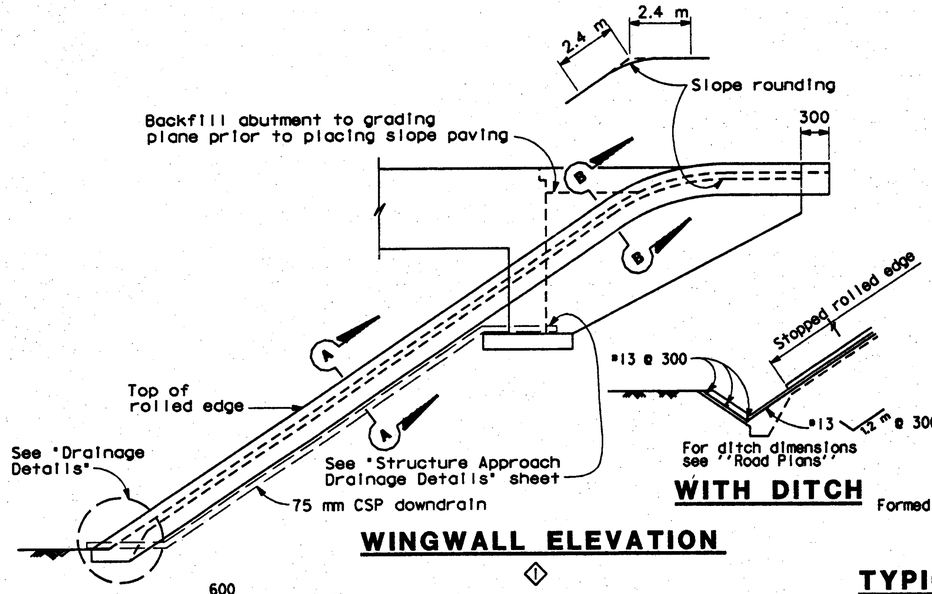
ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

FILES/12273A/DGN/KONSEP/ICS22IBDGN 15-apr-01

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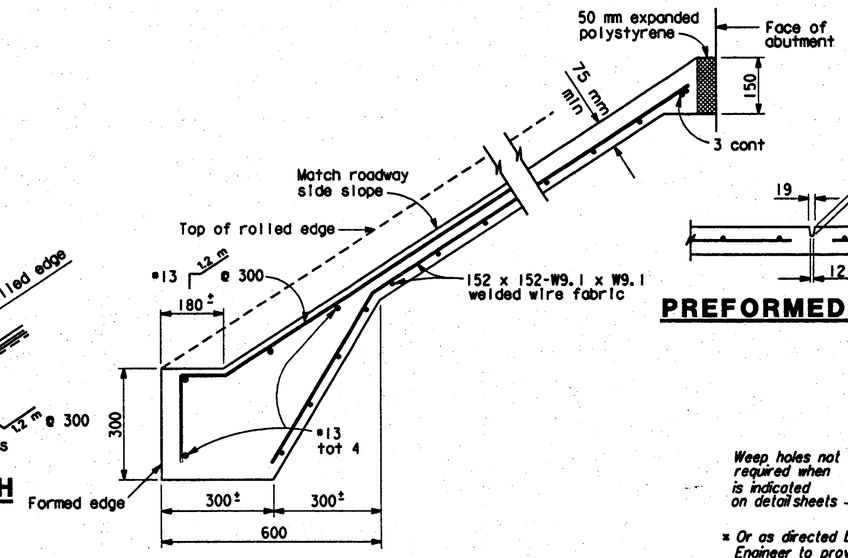
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RELEASED 3-26-97

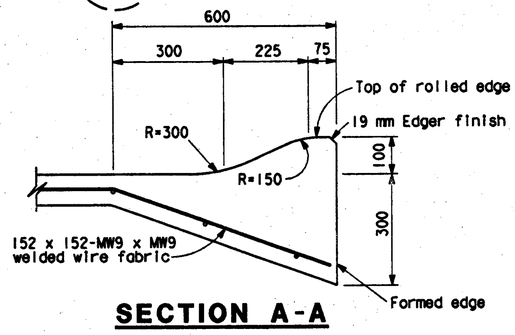


WINGWALL ELEVATION

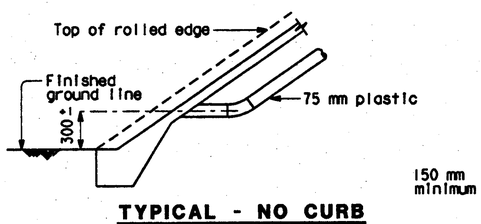
WITH DITCH



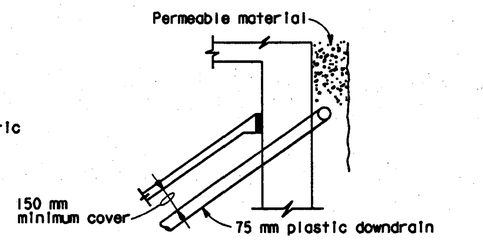
TYPICAL SECTION - CONCRETE PAVING



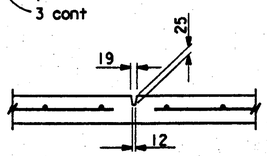
SECTION A-A



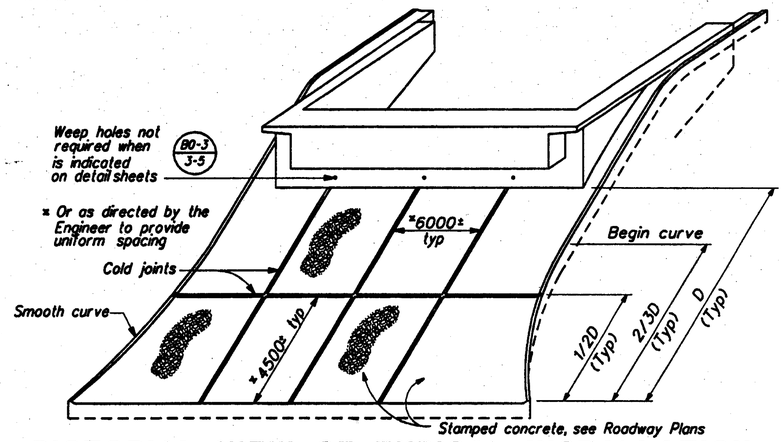
TYPICAL - NO CURB



TYPICAL - DRAIN CONNECTION

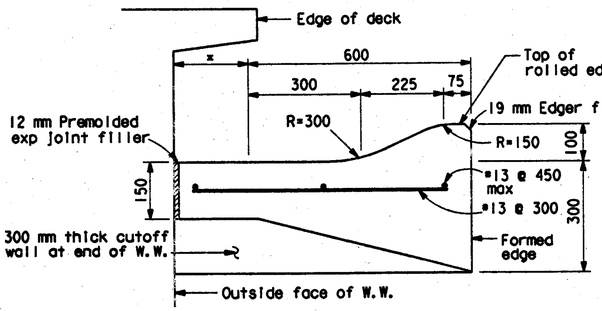


PREFORMED GROOVE



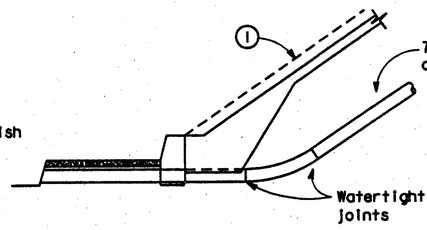
PICTORIAL VIEW OF TYPICAL INSTALLATION

Note: For actual limits of slope paving on this project, see sketch below.

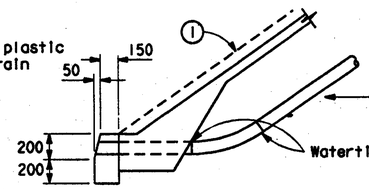


SECTION B-B

*This dimension becomes zero when edge of deck is at outside face of W.W.



TYPICAL - WITH SIDEWALK

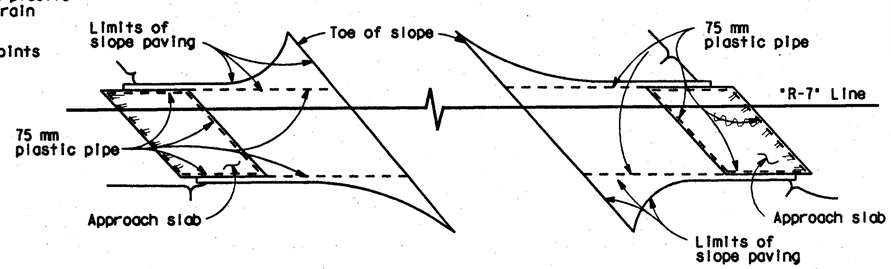


TYPICAL - WITH CURB

① DRAINAGE DETAILS

Note: Drainage details are only applicable when B0-3 / 3-5 is indicated on detail sheets.

① Top of rolled edge



LIMITS OF SLOPE PAVING & DRAINAGE LAYOUT

NO SCALE

"SPECIAL DETAILS"

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	446	461

Caltrans Metric

REGISTERED ENGINEER - CIVIL

7-2-01

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL SCOTT TRAFFALIS — No. C46883 — Exp. 06/30/03 — CIVIL — STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, STE. 200
SACRAMENTO, CA. 95834

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

Caltrans now has a web site! To get to the web site, go to: http://www.dot.ca.gov

AS BUILT VL 6-17-04

CORRECTIONS BY Peter Mone

CONTRACT NO. 06-342324

DATE 9-30-03

STANDARD DRAWING

FILE NO. XS 22-11 | DESIGN | BY | CHECKED

DRAWING DATE Revised | DETAILS | BY R. YEE | CHECKED

SUBMITTED BY C.W. PURKISS

APPROVAL RECOMMENDED BY

DESIGN SUPERVISOR

DS OSD 2147A (METRIC) (REV. 2/25/97)

① Revised Detail

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN

CU 06222
EA 342321

BRIDGE NO. 42-299G

KILOMETER POST 90.63

E180-N99 CONNECTOR SEPARATION

SLOPE PAVING - FULL SLOPE

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 1/30/98 | 2/05/98 | 6/19/98 | 12/22/98 | 6/24/99 | 12/30/99 | 3/27/0

SHEET 16 OF 17

FILE: //2227/V/30W:/CONSEP/MCS22N1.DGN 15-apr-01

br42299G#16of17.tif

ClibPDF - www.fastio.com

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99, 180	34.7/35.5, R89.1/R91.0	433	461

Caltrans Metric

REGISTERED CIVIL ENGINEER

7-2-01

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL SCOTT TRAFFALIS — No. C46883 — Exp. 06/30/03 — CIVIL — STATE OF CALIFORNIA

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.
3840 ROSIN COURT, SUITE 200
SACRAMENTO, CA 95834

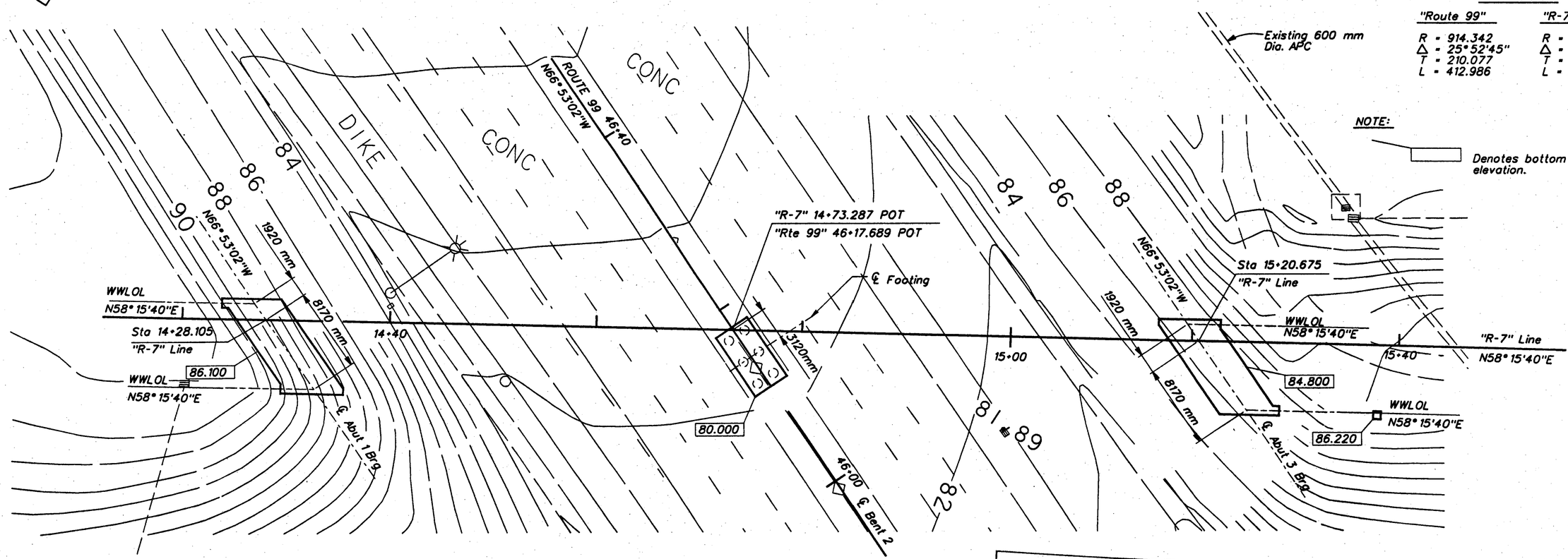
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

Caltrans now has a web site! To get to the web site, go to: http://www.dot.ca.gov

Bench Marks

"BM" F180 56.2 Elev 84.682
0.686 m brass cap embossed "California Department of Transportation" stamped "BM" "F180 56.2" in the west curb of Fruit Ave. Approx 73.17 m south of the centerline of Dunn Ave. and approx 118.9 m right of centerline Sta 216+60+.
N 656213.497, E 1926981.531

"BM" F180 56.4 Elev 85.610
0.686 m brass cap embossed "California Department of Transportation" stamped "BM" "F180 56.4" at the southwest corner of Thorne Ave. and Dunn Ave. In the west curb of Thorne Ave. approx 1.52 m south of the ECR of Dunn Ave. at the street light approx 262.2 m right of the centerline Sta 220+13+.
N 656276.592, E 1927389.000



FOUNDATION PLAN

Scale: 1:200

AS BUILT VL 6-17-04
CORRECTIONS BY Peter Mona
CONTRACT NO. 06-342324
DATE 9-30-03

NO AS BUILT CHANGES

BZ Massoud Jr Joel Escobar DESIGN OVERSIGHT 4/18/01 SIGNOFF DATE	PHOTOGRAMMETRY AS OF: 4-16-97		DRAWN	BY Radman Aerial Surveys	DESIGN	BY T. Kimura	CHECKED T. Holden	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	M. Traffalis PROJECT ENGINEER	BRIDGE NO. 42-299G	E180-N99 CONNECTOR SEPARATION
	SURVEYED	BY Psomas & Assoc.	TRACED	BY Intergraph	DETAILS	BY E. Jao	CHECKED S. Kazmi			KILOMETER POST 90.63	FOUNDATION PLAN
	FIELD CHECKED	BY Psomas & Assoc.	CHECKED	BY	QUANTITIES	BY T. Kimura	CHECKED J. Lee				

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80 100

CU 06222
EA 342321

DISREGARD PRINTS BEARING EARLIER REVISION DATES → REVISION DATES (PRELIMINARY STAGE ONLY): 9/15/97 | 12/15/97 | 2/15/98 | 6/19/98 | 12/29/98 | 9/24/99 | 12/30/99 | 3/27/01

SHEET 3 OF 17

br42299G#3of17.tif

ClibPDF - www.fastio.com

California Department of Transportation
Division of Maintenance

Structure Maintenance and Investigations

BRIDGE

INSPECTION

RECORDS

INFORMATION

SYSTEM

The requested documents have been generated by BIRIS.

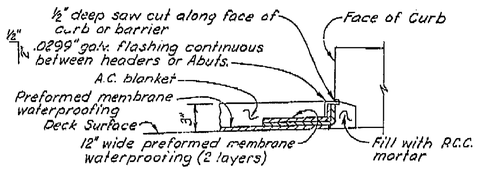
These documents are the property of the California Department of Transportation and should be handled in accordance with Deputy Directive 55 and the State Administrative Manual.

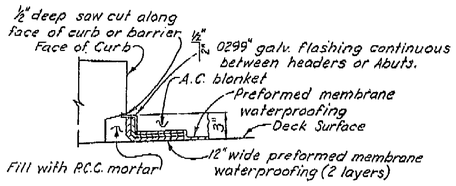
Records for “Confidential” bridges may only be released outside the Department of Transportation upon execution of a confidentiality agreement.

DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	20..	2	2

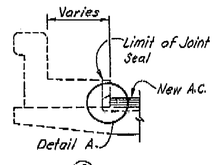
DESIGN SECTION SUPERVISOR — REGISTERED CIVIL ENGINEER NUMBER

DATE APPROVED February 19, 1974

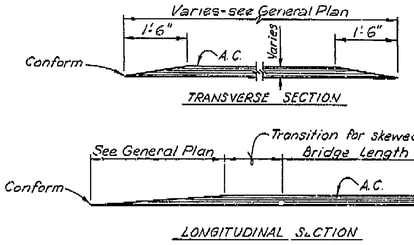




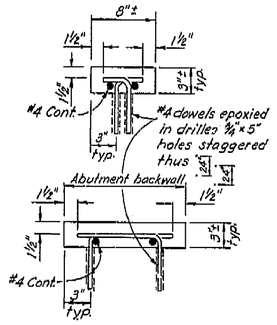
DETAIL A



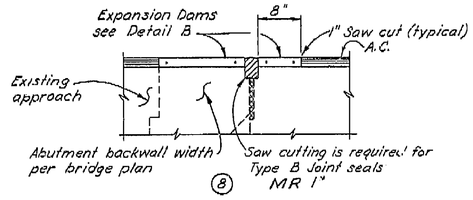
DECK SEAL DETAIL



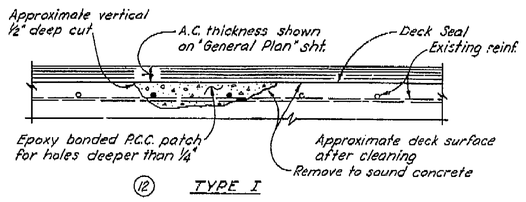
APPROACH RAMP



DETAIL B



DECK JOINTS



TYPICAL DECK REPAIRS

AS BUILT PLANS
Contract No. 06-124504
Date Completed 2-74
Document No. 6000 2094

No
AS BUILT
CORRECTION BY R.A. Yerger
CONTRACT NO. 06124503
DATE 8-21-74

NOTE:
THE CONTRACTOR SHALL VERIFY ALL DEPENDENT DIMENSIONS IN THE FIELD BEFORE ORDERING OR FABRICATING ANY MATERIAL.

	By	Checked
DESIGN	T. W. Hoyt	G. W. Heller
DETAILS	Colleen Walter	G. W. Heller
QUANTITIES	F. A. Hoyt	G. W. Heller

State of CALIFORNIA
DEPARTMENT OF TRANSPORTATION

BRIDGE DEPARTMENT
DESIGN SECTION M
PROJECT ENGINEER

BRIDGE NO.	POST MILE
42-218	20.1

ROUTE 99 OFF-RAMP O.C. DECK REHABILITATION

DECK REHABILITATION DETAILS

HDD D 128

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU
WO

Disregard prints bearing earlier revision dates →

REVISION DATES (PRELIMINARY STAGE ONLY)

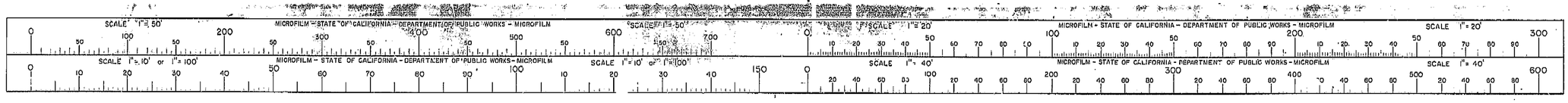
SHEET	OF
2	2

REV. 3011, 48116-906 11-72 5M D DBP

2

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 10/2/79 PHOTO Dick Meadows TITLE Microfilm Supervisor



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DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
6	Fre	99	20.1	1	2

DISTRICT ENGINEER — REGISTERED CIVIL ENGINEER NUMBER 7015

Dale F. Downing
ASSISTANT STATE HIGHWAY ENGINEER — REGISTERED CIVIL ENGINEER NUMBER 3310

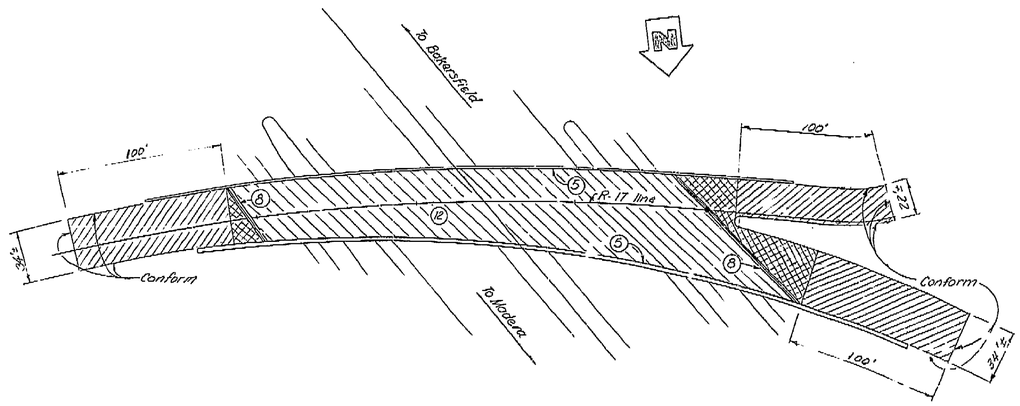
DATE APPROVED February 19, 1974

Index to Plans

Sht. No.	Title
1	General Plan
2	Deck Rehabilitation Details

Standard Plans dated January 1973

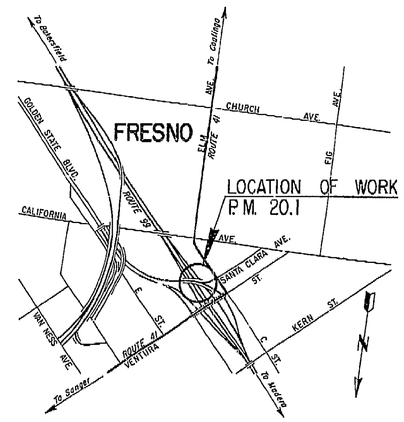
B6-21 Joint Seal Details

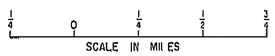


Route 99 Off-Ramp O.C.
Br. No. 42-218
1"=40'
℄ = 337'± along face of N'ly curb.

APPROXIMATE QUANTITIES

REMOVE UNSOUND CONCRETE	1000 CF
ASPHALT CONCRETE (TYPE B)	400 TON
EPOXY ADHESIVE (BOND COAT)	200 GAL
PORTLAND CEMENT CONCRETE (PATCH)	1000 CF
EXPANSION DAM	215 CF
JOINT SEAL (TYPE B1-MR 1")	157 LF
MEMBRANE WATERPROOFING (DECK SEAL) (PREFORMED)	14,600 SQ FT





LOCATION MAP

STATE OF CALIFORNIA
BUSINESS AND TRANSPORTATION AGENCY
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY

IN FRESNO COUNTY IN FRESNO
AT ROUTE 99 OFF-RAMP OVERCROSSING
BRIDGE NO. 42-218

to be supplemented by Standard Plans dated January, 1973

Contract No. 06-124504

No.
AS BUILT
CORRECTIONS BY R.A. Yerger
CONTRACT NO. 06-124503
DATE 8-21-74

Note:
1. ▨ Place asphalt concrete on approach section.
2. ▨ Remove unsound concrete and scale. Patch holes deeper than 1½". Seal with preformed membrane waterproofing and place 3" blanket of asphalt concrete.
3. ▨ 3" blanket of asphalt concrete at bridge ends, transition area for skewed bridges.
4. For (5), (8), (12) See "Deck Rehabilitation Details" sheet

AS BUILT PLANS
Contract No. 06-124504
Date Completed 2-74
Document No. 6000 2094

NOTE:
THE CONTRACTOR SHALL VERIFY ALL DEPENDENT DIMENSIONS IN THE FIELD BEFORE ORDERING OR FABRICATING ANY MATERIAL.

~~FOR GENERAL NOTES SEE~~
~~LIVE LOADING H20-S16-44 AND ALTERNATIVE~~

BRIDGE DEPARTMENT
MAINTENANCE SECTION
Section Supervisor D. Dashiell
Project Engineer

DESIGN	By F. Eustis 6-73	Checked	G.M. Miller 8/73
DETAILS	By R. Winnel 12/72	Checked	G.M. Miller 9/73
QUANTITIES	By F. Eustis 9/73	Checked	G.M. Miller 9/73
SPECIFICATIONS	By	Plans and Estim. Complete	

Approval Recommended by D.K. Liggett, BRIDGE MAINTENANCE ENGINEER — This Improvement Regr. License No. 8066

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
ROUTE 99 OFF-RAMP O.C.
DECK REHABILITATION
GENERAL PLAN

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-218	20.1		1	2

REVISION DATES (PRELIMINARY STAGE ONLY)

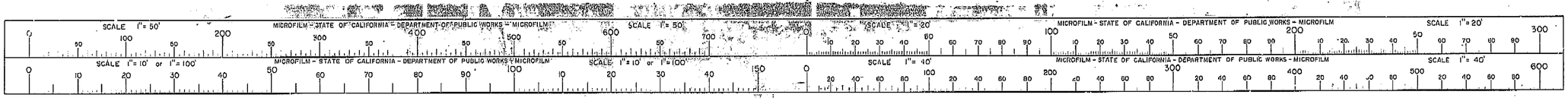
WO 06202
124501

Disregard prints bearing earlier revision dates →

EST. 6811 (6-72) 0-181 500 DBP

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 10/7/74 SIGNATURE Dick Meadows TITLE Microfilm Supervisor



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VI | Fre | 99

U-006-2-(6)
F-006-2-(5)

FED. ROAD DIV. NO	STATE	F. A. PROJECT NO.	SHEET NO	TOTAL SHEETS
7	CALIF.		349	424

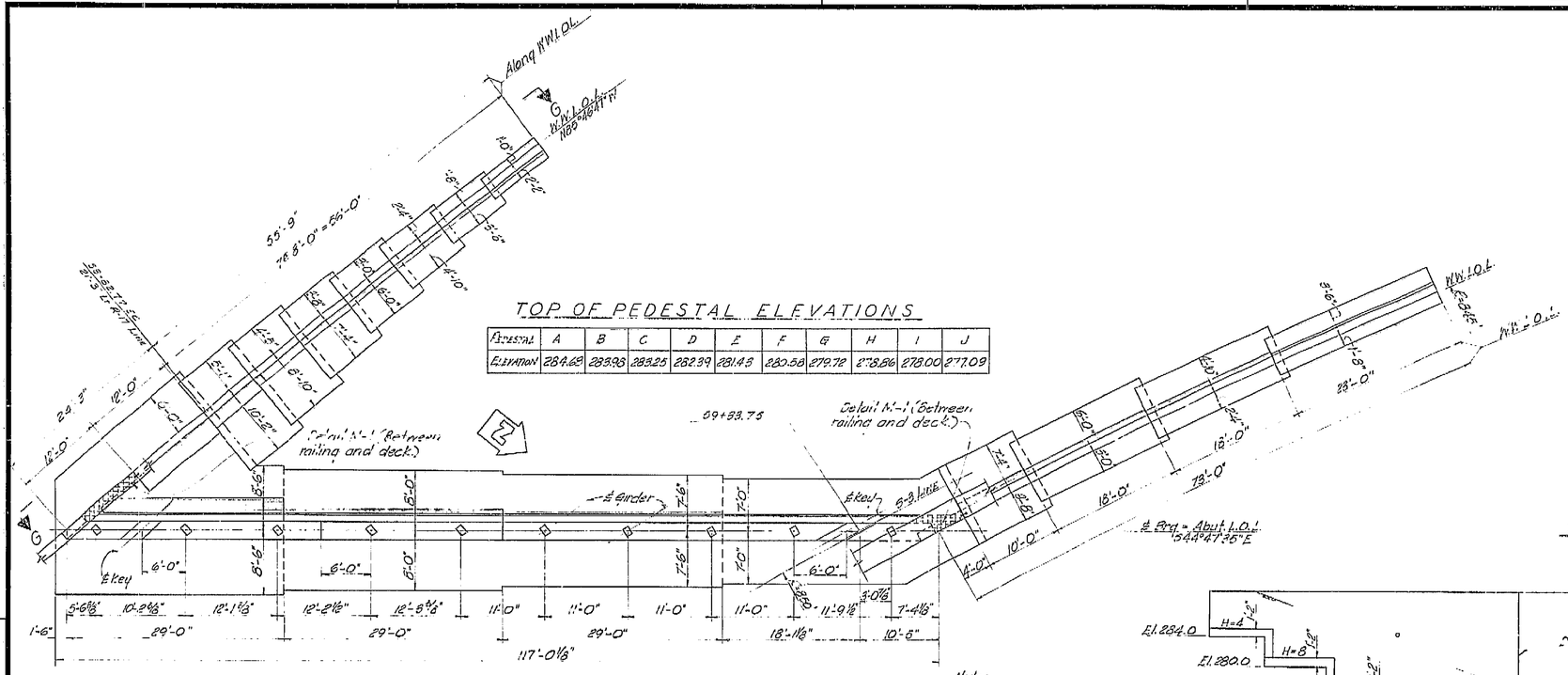
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	99			

BRIDGE ENG. MGR. — CIVIL ENGINEER—LICENSE 9585

DATE APPROVED: August 28, 1961

TOP OF PEDESTAL ELEVATIONS

Pedestal	A	B	C	D	E	F	G	H	I	J
Elevation	284.69	283.93	283.25	282.39	281.43	280.58	279.72	278.86	278.00	277.09

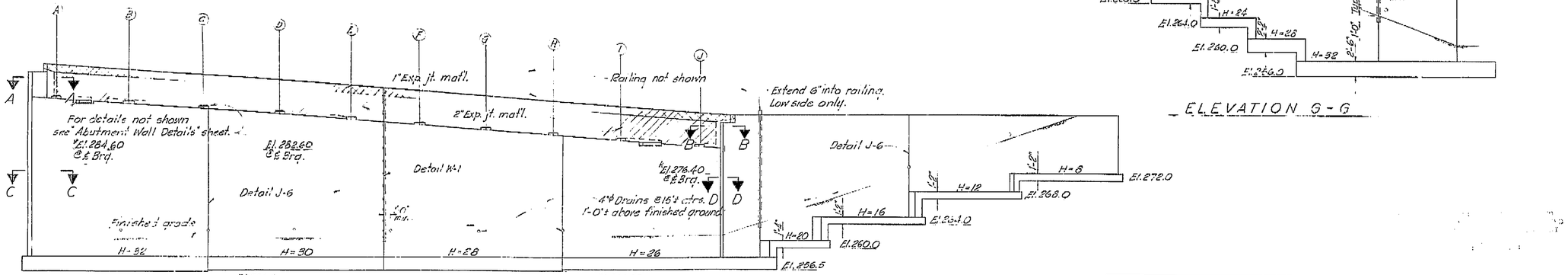


PLAN

For footing corner reinf., see "Abutment 1 Details" sheet.

Note:
For wall details not shown, see "Type 1 Cantilever Retaining Wall Details" sheet, and "Abutment Wall Details" sheet.

ELEVATION G-G



ELEVATION

³ Elevation is at inside face of curtain wall.

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 69001062

BRIDGE DEPARTMENT
DESIGN SECTION 2
Section Supervisor W. J. Jurtzick

DESIGN	By D. A. Smith	3/60
	Checked W. F. Cochran	3/61
DETAILS	By K. J. Erickson	3/61
	Checked D. V. Lockhart	3/61
QUANTITIES	By R. L. Gilchrist	3/61
	Checked A. J. Zaccheo	3/61

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

99 OFF-RAMP O.C.

ABUTMENT 5 DETAILS

SCALE	BRIDGE	FILE	DRAWING
⅛" = 1'-0"	42-218		C-42218-5

Disregard prints bearing earlier numbers →

PREL. DRAWING No. P-42218-15 (1/62) (3/61)

581

349

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DATE ____ SIGNATURE ____ TITLE ____

SCALE 1"=50' MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM SCALE 1"=20'
SCALE 1"=10' or 1"=100' MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM SCALE 1"=40'

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VI | Fre | 99

U-006-2 (6)
F-006-2 (5)

FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	BRIDGE NO.	TOTAL SHEETS
7	CALIF.		348	224

DIST.	COUNTY	ROUTE	SECTION	BRIDGE NO.	TOTAL SHEETS
VI	Fre	99		348	224

BRIDGE ENGINEER — CIVIL ENGINEER — LICENSE 5585

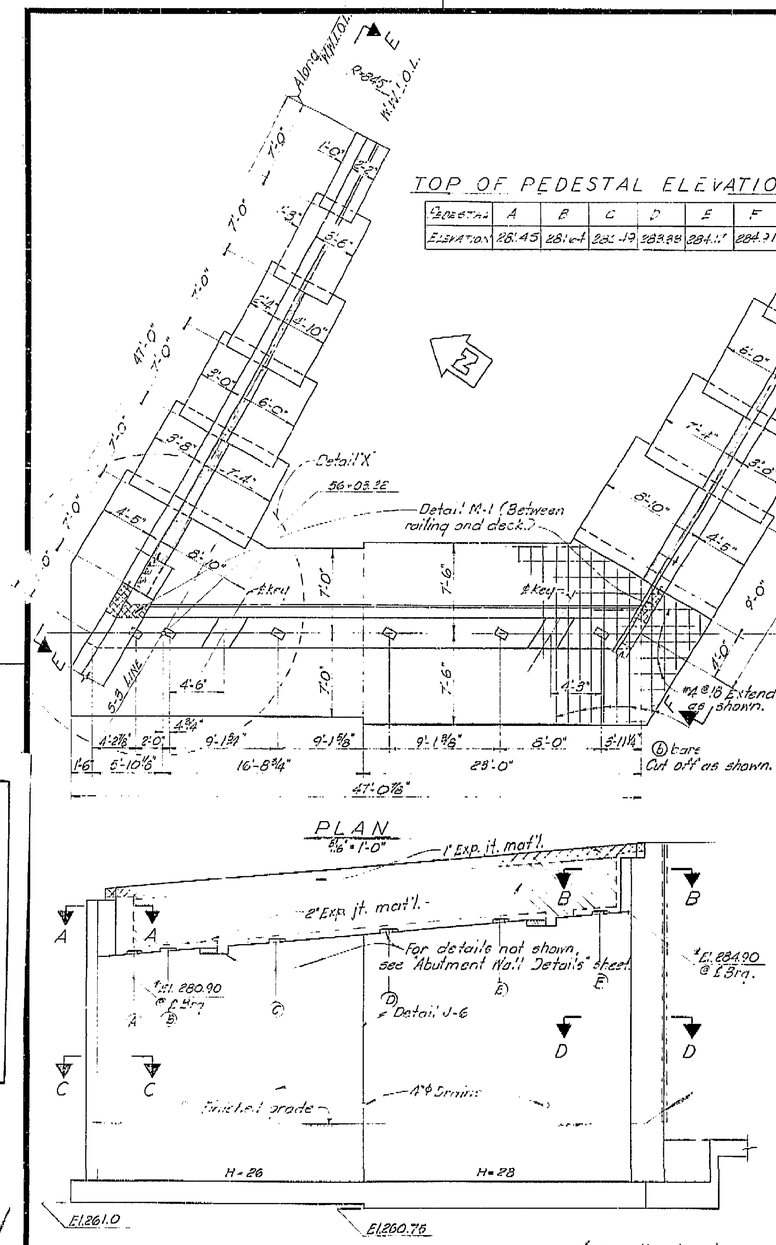
DATE APPROVED August 25, 1961

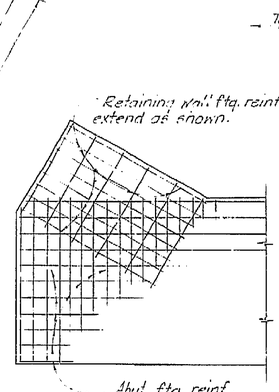
AS BUILT PLANS
Contract No. 62-671353
Date Completed
Document No. 6000062

348

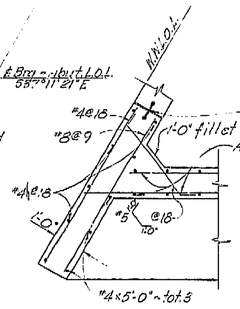
TOP OF PEDESTAL ELEVATIONS

Pedestal	A	B	C	D	E	F
Elevation	288.45	286.64	284.49	282.86	284.11	284.71

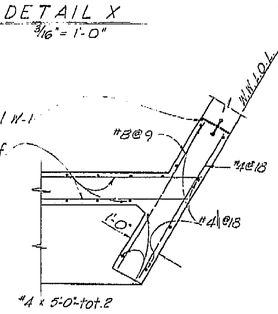




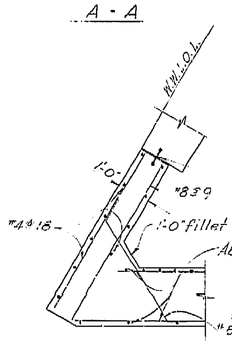
DETAIL X
3/16" = 1'-0"



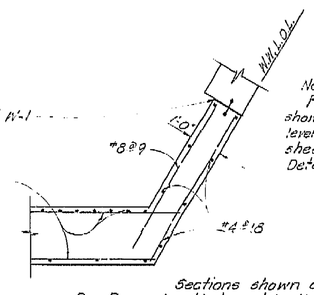
A - A



B - B



C - C

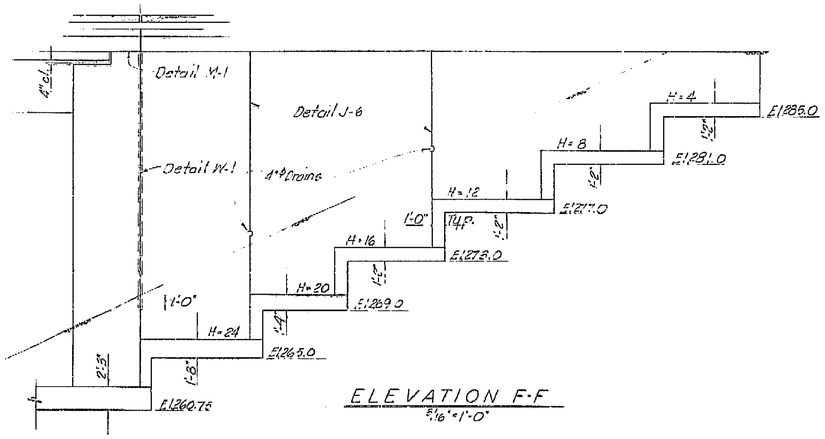


D - D

SECTIONS
1/2" = 1'-0"

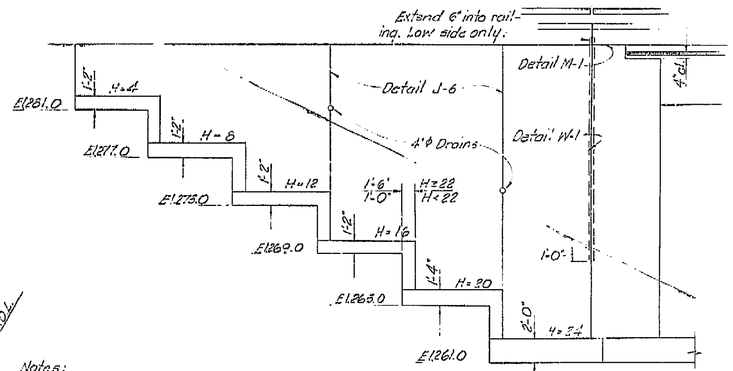
Sections shown are for Abutment 1. Abutment 6 is similar.

Type 1 Barrier Railing — Type 1A Barrier Railing



ELEVATION F-F
3/16" = 1'-0"

Type 2A Barrier Railing — Type 2 Barrier Railing



ELEVATION E-E
3/16" = 1'-0"

Notes:
For wall details not shown, see "Type 1 Cantilever Retaining Wall Details" sheet or "Abutment Wall Details" sheet.

BRIDGE DEPARTMENT
DESIGN SECTION 2
Section Supervisor W. J. Isenhardt

DESIGN	By R.A. — 10-60	4-1-60
	Checked E.J. Knutson	3/61
DETAILS	By [illegible]	7-60
	Checked W.E. Lindsay	7/61
QUANTITIES	By A.J. May	3/61
	Checked [illegible]	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ROUTE 99 — OFF-RAMP O.C.

ABUTMENT 1 DETAILS

SCALE As Noted | BRIDGE 42-218 | FILE | DRAWING C-42218-4

Disregard prints bearing earlier numbers → PREL. DRAWING No. P-42218-14 11/3/61 12/1/61

580

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-10-72 SIGNATURE [illegible] TITLE [illegible]

MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM

SCALE 1" = 50' | SCALE 1" = 50' | SCALE 1" = 20' | SCALE 1" = 20'

SCALE 1" = 10' or 1" = 100' | SCALE 1" = 10' or 1" = 100' | SCALE 1" = 40' | SCALE 1" = 40'

ClibPDF - www.fastio.com

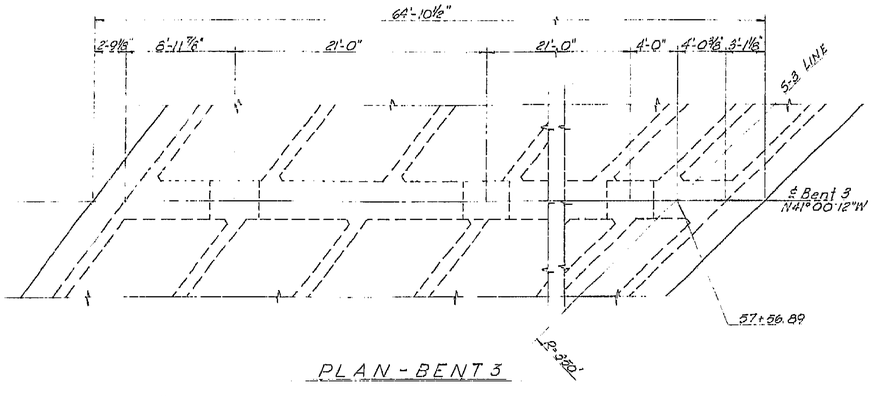
VI Fre 99

U-006-2 (6)
F-006-2 (5)

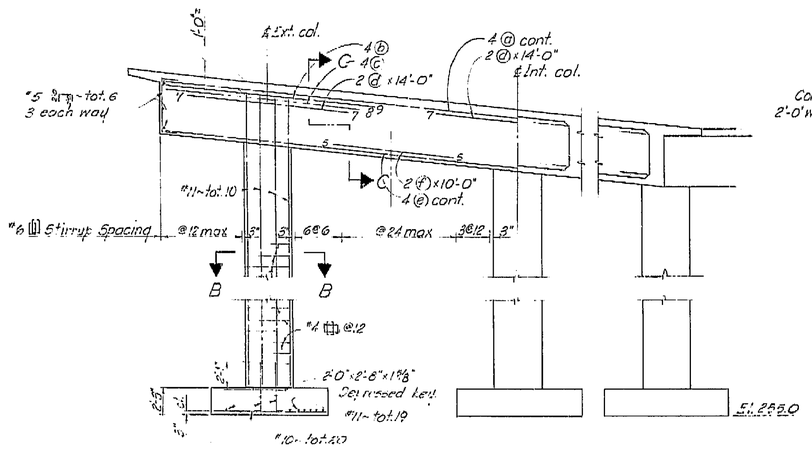
FED. ROAD DIV. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.		354	424

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	99			

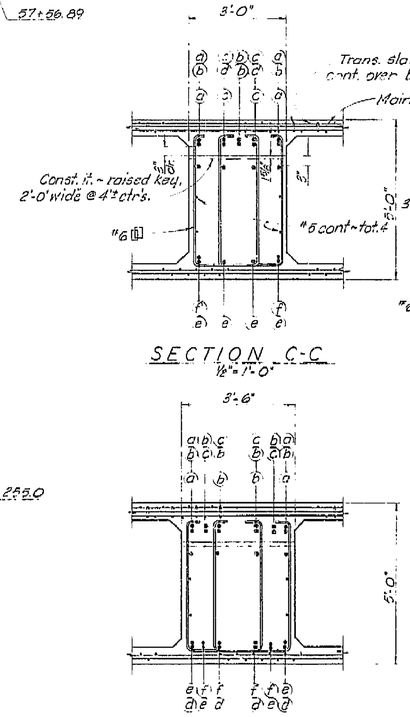
DATE APPROVED August 28 1961



PLAN - BENT 3

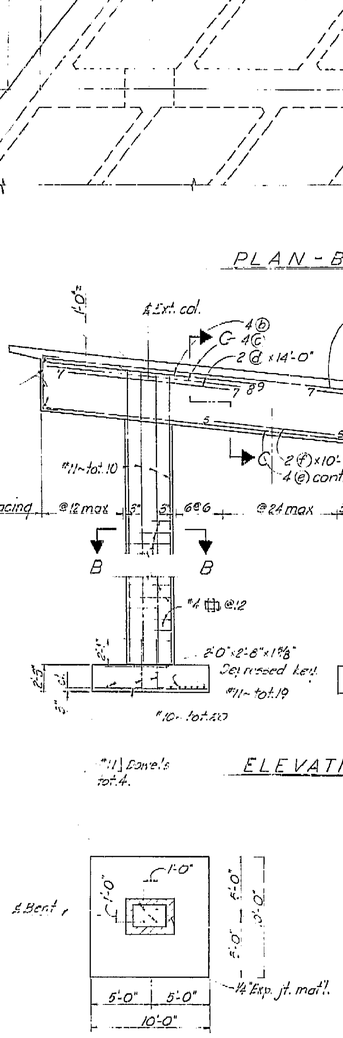


ELEVATION

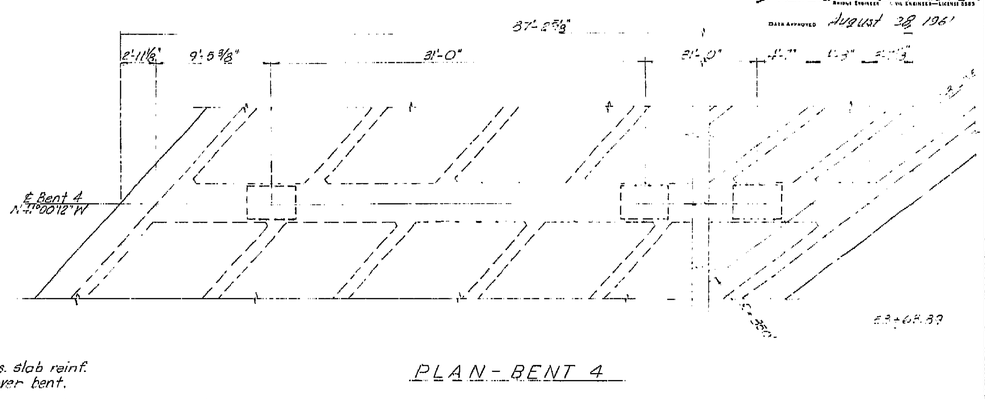


SECTION C-C
1/8" = 1'-0"

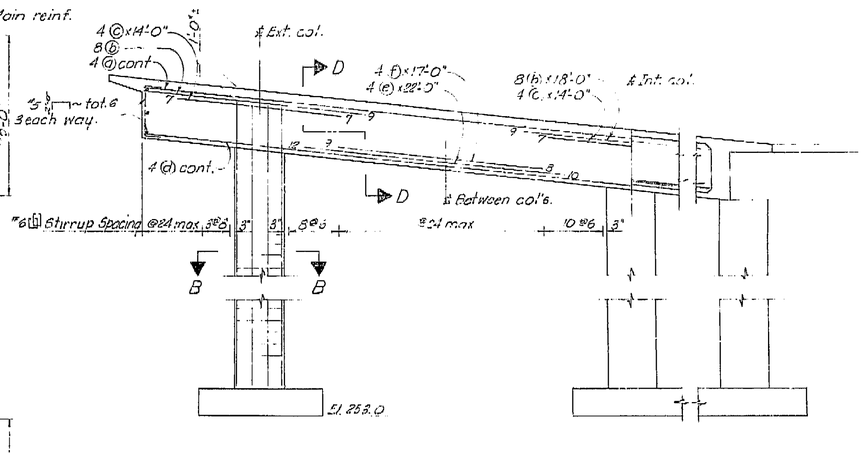
SECTION D-D
1/8" = 1'-0"



TYPICAL FOOTING PLAN



PLAN - BENT 4



ELEVATION

Note:
All bars are #11 except as noted. Numbers at ends of bars indicate distance in feet from ℄ column for top reinf. and from ℄ between col's. for bottom reinf.
Reinf. symmetrical about ℄ int. column.
For Section B-B see "Bent 3 Details" sheet.

AS BUILT PLANS
Contract No. 62-6T1363
Date Completed
Document No. 60001062

BRIDGE DEPARTMENT
DESIGN SECTION 2
Section Supervisor M. J. Jantzen

DESIGN	By	C. A. Wilson 7-61
	Checked	D.L.E. Erdman 7-61
DETAILS	By	T. Tsuji 8-61
	Checked	D.L.E. Erdman 8-61
QUANTITIES	By	R. A. Nye 3/61
	Checked	D.L.E. Erdman 3-61

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ROUTE 99 OFF-RAMP O. C.

BENT 3 & 4 DETAILS

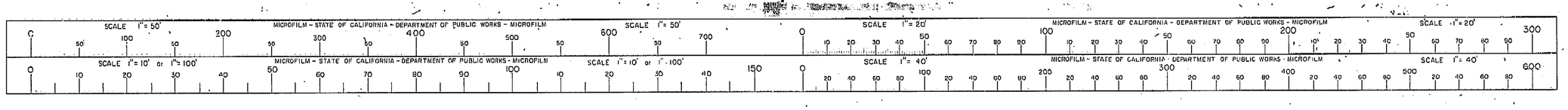
Except as noted SCALE 3/16" = 1'-0" | BRIDGE 48-8.18 | FILE | DRAWING C-A2218-10

Disregard prints bearing earlier numbers → PREL. DRAWING NO. P-42217-20 4/21/61 5/3

354

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-11-72 SIGNATURE [illegible] TITLE [illegible]



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V1	Fre	99

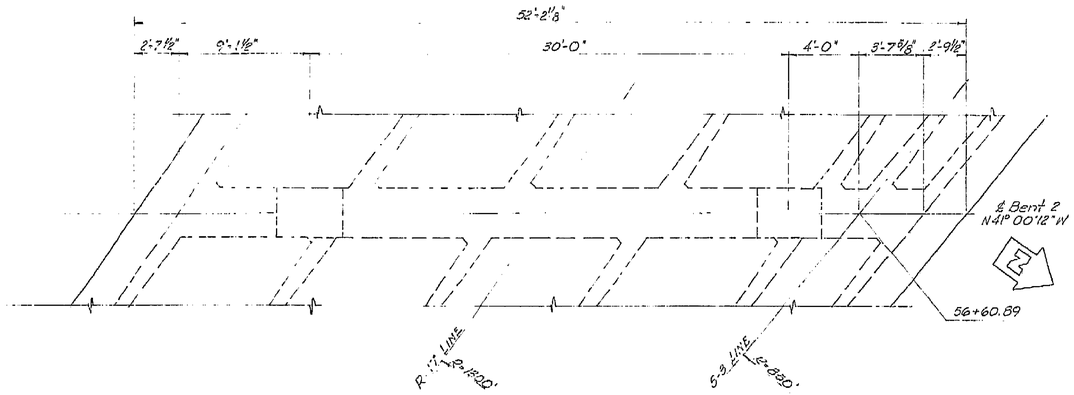
V-006-2 (6)
F-006-2 (6)

FED. ROAD DIST. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.		353	424

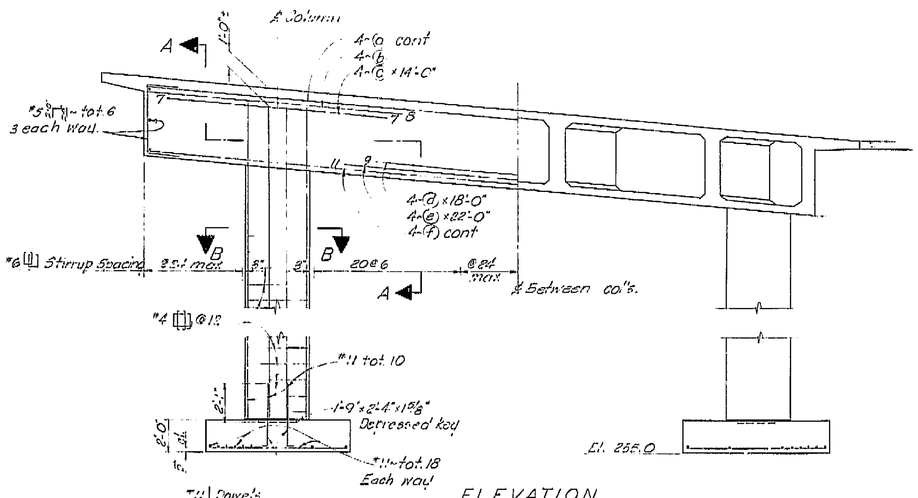
DIST.	COUNTY	ROUTE	SECTION	MILES	TOTAL PROJECT
11	Fre.	99			97.0

Bridge Engineer — Civil Engineer—License 5583

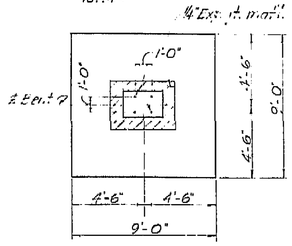
Date Approved August 28, 1961



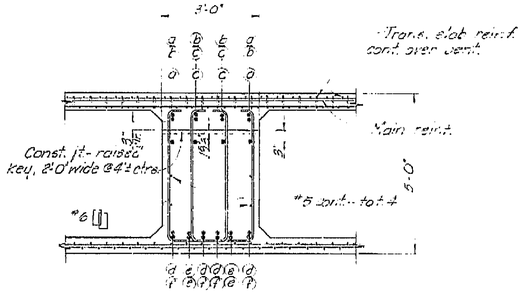
PLAN
1/4" = 1'-0"



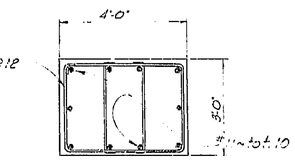
ELEVATION
1/4" = 1'-0"



FOOTING PLAN
1/4" = 1'-0"



SECTION A-A
1/2" = 1'-0"



SECTION B-B
1/2" = 1'-0"

Note:
All bars are #11 except as noted. Numbers at ends of bars indicate distance in feet from ℄ Column for top reinf. and from ℄ Between col's. for bottom reinf.
Reinf. symmetrical about ℄ Between col's.

AS BUILT PLANS
Contract No. 62-671303
Date Completed
Document No. 6000 1062

353

DESIGN SECTION 2		
Section Supervisor	W. J. Hentrich	
DESIGN	By	H. Tadros 2/61
	Checked	W. Hentrich 2/61
DETAILS	By	J. T. Ross 12/60
	Checked	G. A. Adams 2/61
QUANTITIES	By	Jay A. Lotz 3/61
	Checked	W. Hentrich 3/61

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ROUTE 99 OFF-RAMP O. C.

BENT 2 DETAILS

Scale As Noted | Bridge 42-218 | File | Drawing C.A2218-9

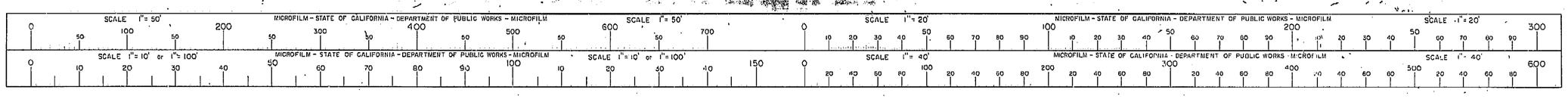
Disregard prints bearing earlier numbers →

PREL. DRAWING NO. P-12218-19 | 1/61 | 8/61 | 6/63

585

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DATE 1-12-73 SIGNATURE [illegible] TITLE [illegible]



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V.I. | Fre | 99

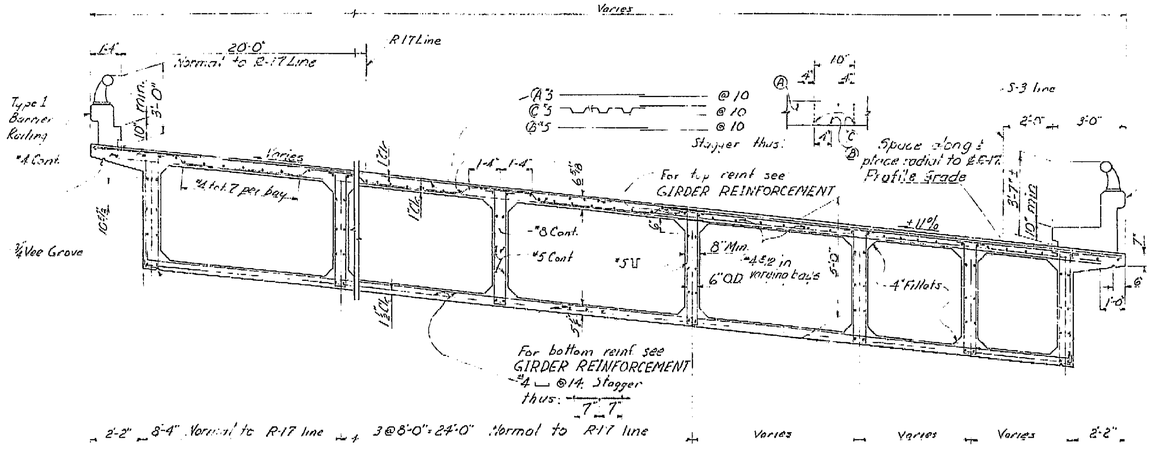
U-006-2(6)
F-006-2(5)

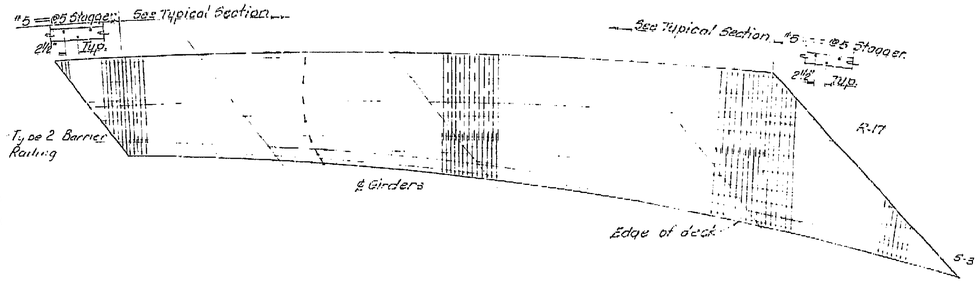
FED. ROAD DIV No	STATE	F. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
7	CALIF.		355	424

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	99			18

BRIDGE ENGINEER — CIVIL ENGINEER — LICENSE 5533

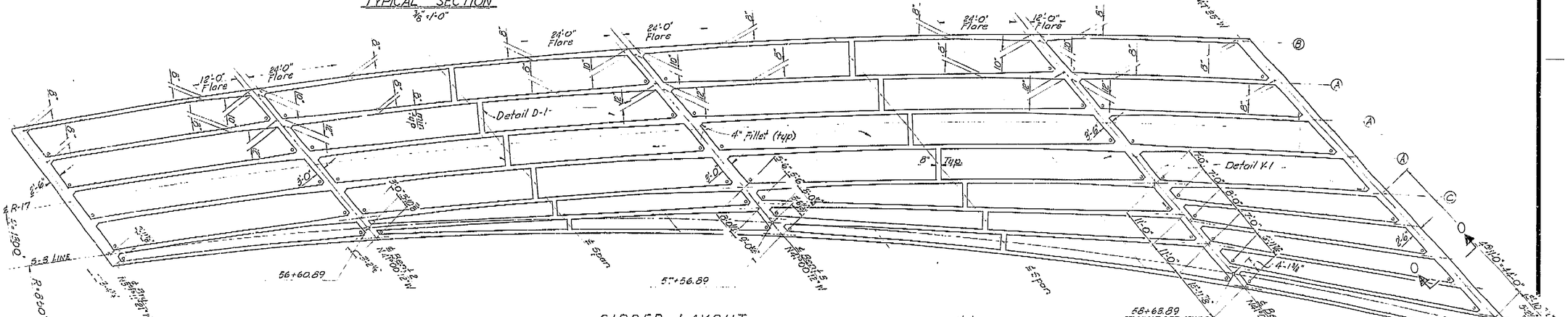
DATE APPROVED: August 28, 1961



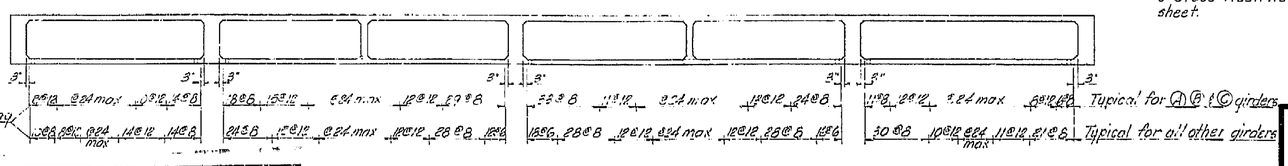


TOP SLAB TRANSVERSE REINFORCEMENT
1/4"=1'-0"

TYPICAL SECTION
3/8"=1'-0"



GIRDER LAYOUT
No Scale



LONGITUDINAL SECTION
No Scale

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed ____
Document No. 60001062

355

BRIDGE DEPARTMENT DESIGN SECTION 2			
Section Supervisor	W. J. Yerkovich		
DESIGN	By	D. L. Smith	2/61
	Checked	W. J. Yerkovich	3/61
DETAILS	By	R. E. C.	12-60
	Checked	W. J. Yerkovich	3/61
QUANTITIES	By	R. A. Ng	3/61
	Checked	T. Fujikawa	3-61

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ROUTE 99 OFF-RAMP O. C.

TYPICAL SECTION & GIRDER LAYOUT

SCALE As Noted | BRIDGE 42-218 | FILE | DRAWING C-42.18-11

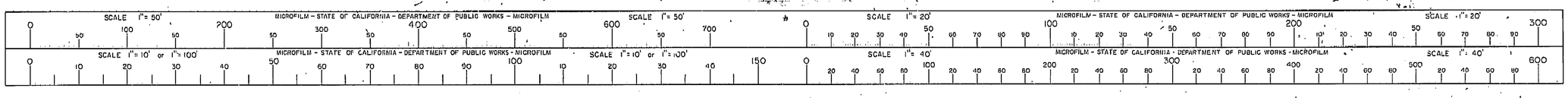
Disregard prints bearing earlier numbers →

PREL. DRAWING NO. P-42.18-21 | 1/62 | 2/61 | 3/61

587

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DATE 1-12-82 SIGNATURE [illegible] TITLE [illegible]



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DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
7	KER	99		17	1424

FIELD STUDY	by Miller 11-60
DRAWN	by Darr 12-60
CHECKED	by Miller 12-60

Approved Recommended by [illegible] Engineer
[illegible] Engineer

DIST.	COUNTY	ROUTE	POST MILE	SHEET NO.	TOTAL SHEETS
7	KER	99	17.4	17	1424

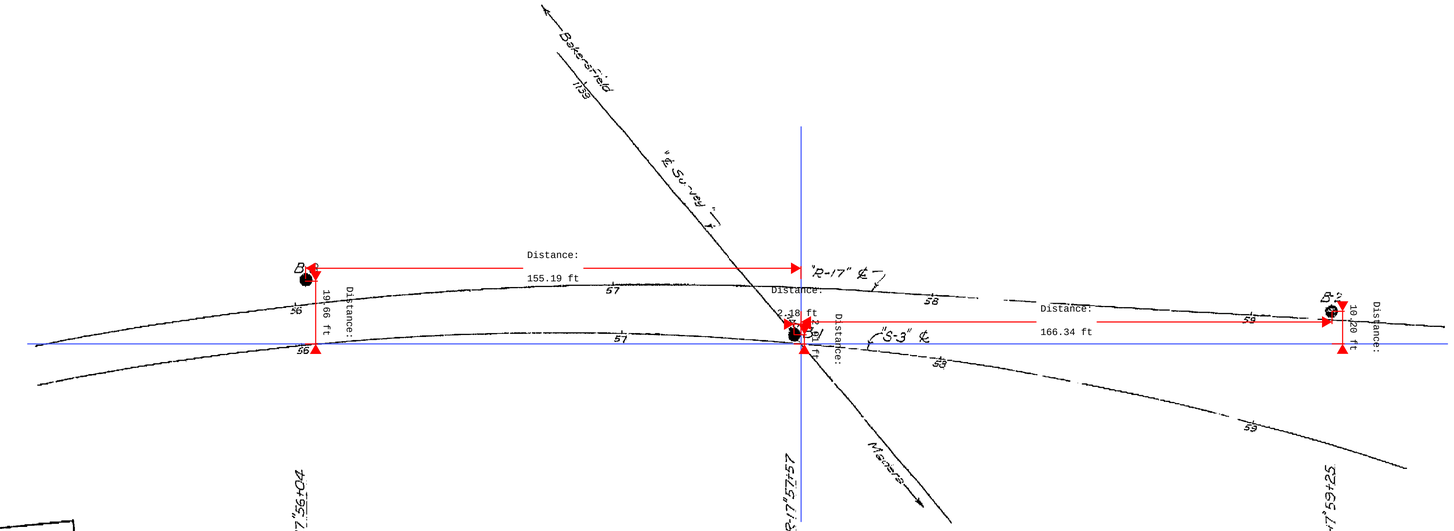
[illegible] BRIDGE ENGINEER — CIVIL ENGINEER — LICENSE 9385

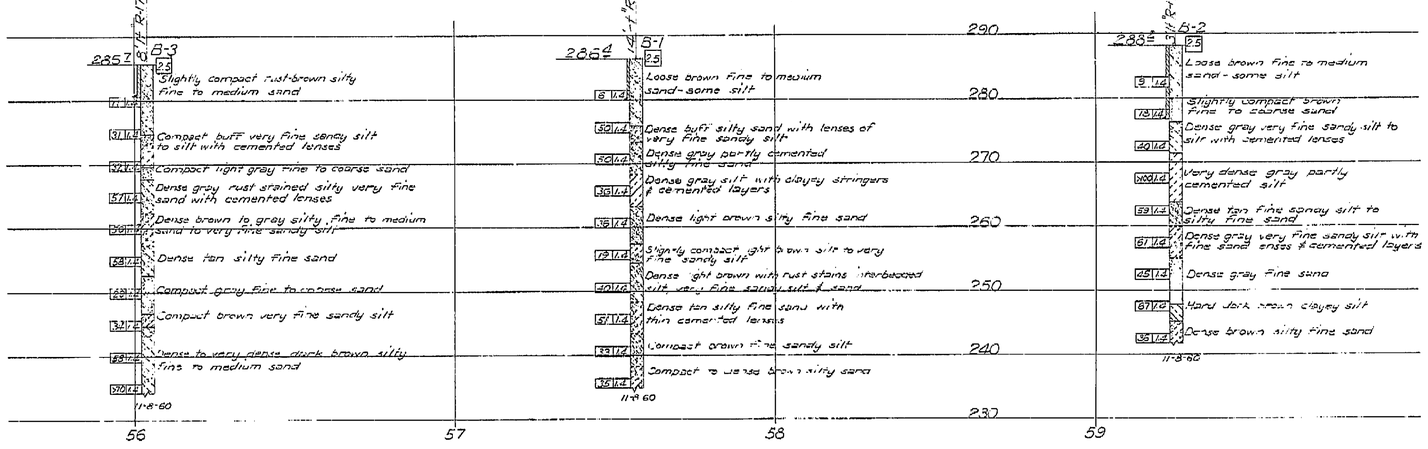
DATE APPROVED August 28, 1961

BRIDGE DEPARTMENT

AS BUILT PLANS
Contract No. 62-6T1303
Date Completed
Document No. 60001062

361





B.M. "San Benito"
Spike in power pole
32'rt & S.-ley 1136+50
Elev. 269.39

NO GROUND WATER ENCOUNTERED

CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS

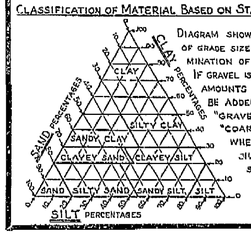


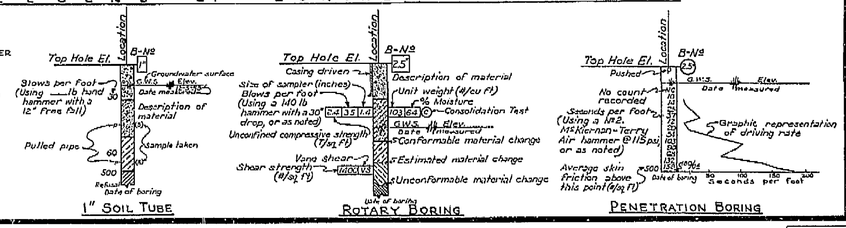
DIAGRAM SHOWING THE BASIS FOR ESTIMATES OF GRADE SIZE DISTRIBUTION USED IN DETERMINATION OF CLASS NAMES. IF GRAVEL IS PRESENT IN APPRECIABLE AMOUNTS THE TERM "GRAVELLY" MAY BE ADDED TO THE CLASS NAME, VIZ. "GRAVELLY SAND." THE TERMS "COARSE", "MEDIUM" AND "FINE" WHEN USED TO DESCRIBE SAND, SILT AND GRAVEL REFER TO STANDARD GRADE SIZE LIMITS.

LEGEND OF EARTH MATERIALS

- GRAVEL
- SAND
- SILT
- CLAY
- SANDY CLAY OR CLAYEY SAND
- SANDY SILT OR SILTY SAND
- SILTY CLAY OR CLAYEY SILT
- PEAT AND/OR ORGANIC MATTER
- FILL MATERIAL
- IGNEOUS ROCK
- SEDIMENTARY ROCK
- METAMORPHIC ROCK

LEGEND OF BORING OPERATIONS

- PLAN OF ANY BORING
- PENETROMETER
- 2½" CONE PENETROMETER
- SAMPLER BORING (DRY)
- ROTARY BORING (WET)
- AUGER BORING (DRY)
- JET BORING
- CORE BORING
- TEST PIT



NOTE

Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ROUTE 99 OFF-RAMP OVERCROSSING

LOG OF TEST BORINGS

SCALE Horiz. 1"=20' Vert. 1"=10' | BRIDGE 42-218 | FILE | DRAWING C-42218-17

PREL. DRAWING NO. P-42218-21

PR-7076-3 542

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DATE _____ SIGNATURE _____ TITLE _____

SCALE 1"= 50' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"= 50'
SCALE 1"= 20' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"= 20'
SCALE 1"= 10' or 1"= 100' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"= 10' or 1"= 100'
SCALE 1"= 40' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"= 40'

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VI | Fre | 99

U-006-2 (6)
F-006-2 (5)

FED. ROAD DIV. NO.	STATE	F. A. PROJECT NO.	TOTAL SHEETS
7	CALIF.		345

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE.	99	16.6/R16.7	1	18

P.M. 20.1

APPROXIMATE QUANTITIES

*STRUCTURE EXCAVATION (BRIDGE)	1,620 C.Y.
*STRUCTURE BACKFILL (BRIDGE)	2,400 C.Y.
*CLASS "A" CONCRETE (BRIDGE)	2,120 C.Y.
RUBBER WATERSTOPS	112 L.F.
*BAR REINFORCING STEEL (BRIDGE)	474,000 LBS.
BARRIER RAILING (TYPE 1)	407 L.F.
BARRIER RAILING (TYPE 2)	457 L.F.

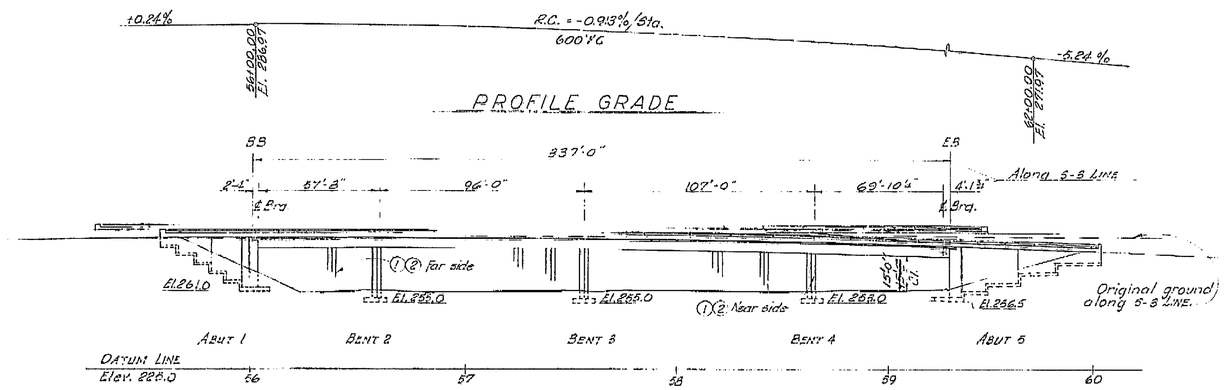
*FINAL QUANTITIES

BRIDGE ENGINEER — CIVIL ENGINEER—LICENSE 1345

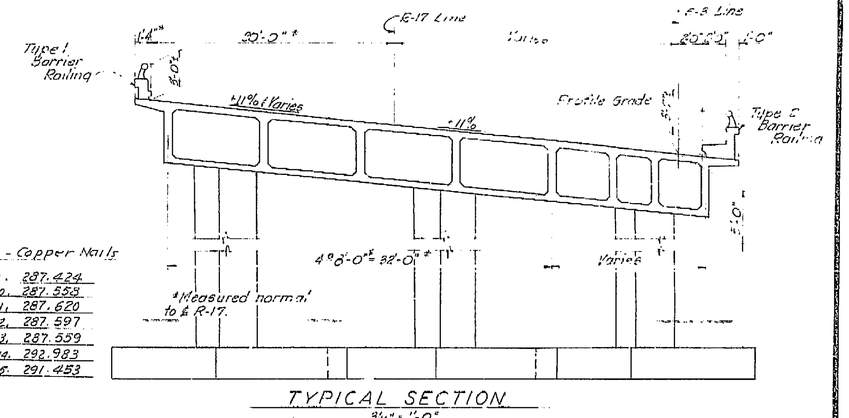
ASSISTANT STATE HIGHWAY ENGINEER — CIVIL ENGINEER—LICENSE 5396

DATE APPROVED August 28 1961

STATE HIGHWAY ENGINEER — CIVIL ENGINEER—LICENSE 5985



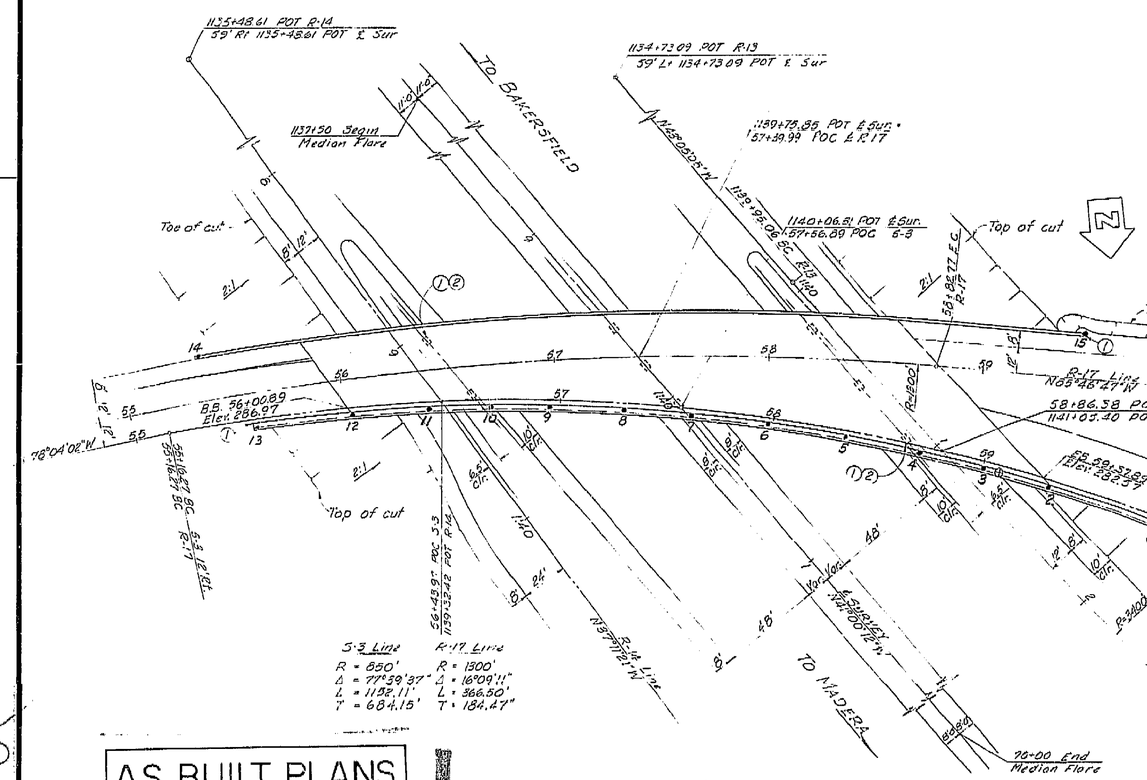
ELEVATION



TYPICAL SECTION
3/16" = 1'-0"

Final Elevations - Copper Nails

1.	280.758	9.	287.424
2.	283.095	10.	287.555
3.	283.451	11.	287.620
4.	285.012	12.	287.597
5.	285.784	13.	287.559
6.	286.335	14.	292.983
7.	286.802	15.	291.453
8.	287.156		



PLAN

FOR GENERAL NOTES SEE "Grid of Deck Elevations" sheet.

LIVE LOADING H20-S16-44 AND ALTERNATIVE

4-8-63 J.W. Beck DVI 11-22-63

INDEX TO PLANS

SHEET No.	TITLE
1	General Plan
2	Grid of Deck Elevations
3	Foundation Plan
4	Abutment 1 Details
5	Abutment 6 Details
6	Abutment Wall Details
7	Type 1 Cantilever Retaining Wall
8	Retaining Wall Details No. 1
9	Bent 2 Details
10	Bent 3 & 4 Details
11	Typical Section & Girder Layout
12	Girder Reinforcement - I
13	Girder Reinforcement - II
14	Standard Details No. 1
15	Barrier Railing Sheet 1
16	Barrier Railing Sheet 2
17	Log of Test Borings
18	Lighting (Plan)

① Indicates location for painting Bridge Number & year constructed.
② Indicates location for painting Route 4 Off-Ramp Overcrossing
③ Indicates location of minimum vertical clearance.

Note: Route Change (VI-Fre-99)

Contract "62-6T13C3-F

BRIDGE DEPARTMENT
DESIGN SECTION 2
Section Supervisor W.D. Jurtovich
Project Designer E.V. Hanson

DESIGN	By E.V. Hanson 11/61	Checked W.D. Jurtovich 11/61
DETAILS	By J.A. Smith 11/61	Checked W.D. Jurtovich 11/61
LAYOUT	By J.A. Smith 11/61	Checked W.D. Jurtovich 11/61
QUANTITIES	By R.W. Lee 11/61	Checked E.V. Hanson 11/61
SPECIFICATIONS	By C.F. Hoover 11/61	Plans and Specs. Ordered

Approval Recommended by _____ Bridge Engineer — Civil Engr. License No. 5396

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ROUTE 4 OFF-RAMP O.C.
99
LOCATED WITHIN THE CITY OF FRESNO

GENERAL PLAN

Except as noted SCALE 1" = 50' | BRIDGE 42-218 | FILE | DRAWING C-42218-1

PRELIMINARY DRAWING No. P-42218-1

REVISION DATES 11/30/60 12/5/60 12/12 12/14 1/30/61 2/61

Discard prints bearing earlier revision dates →

345

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed _____
Document No. 60001062

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-12-62 SIGNATURE _____ TITLE _____

SCALE 1" = 50' | SCALE 1" = 20' | MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

SCALE 1" = 10' or 1" = 100' | SCALE 1" = 40' | MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

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Revision offset values added 9-58

Revision: Optional type Key. 9-58 JTJ

Mod. note in Design Manage Dec. 10-59 JTJ

VI	Fre	99

V-006-2 (6)
F-006-2 (5)

FED. ROAD DIV. No.	STATE	PROJ. No.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			352	424

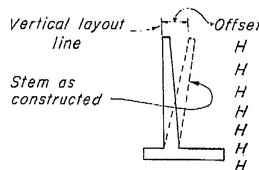
To Accompany Plans Dated August 28, 1961

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE.	4	Prefix	W-3	Not Shown

Bridge Engineer — Civil Engineer License No. 5585

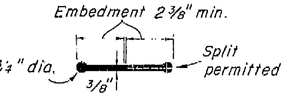
Date Approved August 6, 1958

State Highway Engineer
Civil Engineer License No. 10864



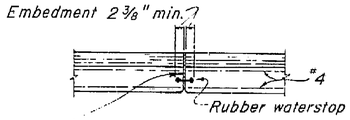
H 4 = 1/4" H 18 = 1 1/2"
H 6 = 3/8" H 20 = 1 3/4"
H 8 = 1/2" H 22 = 2"
H 10 = 5/8" H 24 = 2 1/4"
H 12 = 3/4" H 26 = 2 1/2"
H 14 = 1" H 28 = 2 1/2"
H 16 = 1 1/4" H 30 = 2 1/2"

WALL OFFSET VALUES H 32 = 2 1/2"

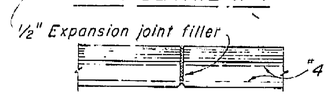


RUBBER WATERSTOP

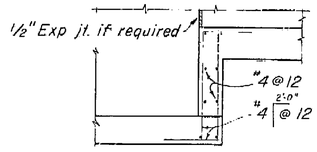
Use only when watertight joint is required



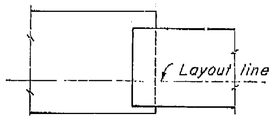
PLAN OF WALL WITH DETAIL W-1



PLAN OF WALL WITH EXPANSION JOINT ONLY

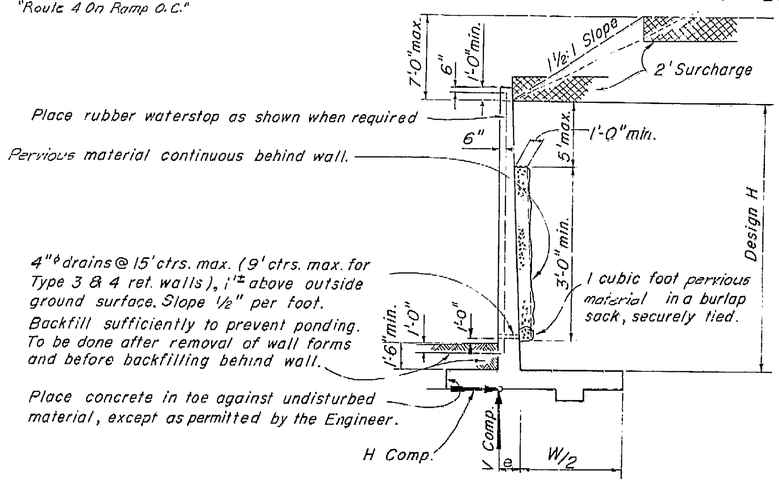


1'-0" H = 4' to 22'
1'-6" H = 24 to 30'



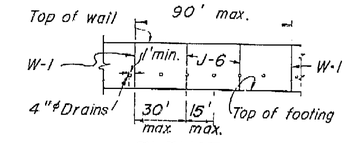
FOOTING STEP

Note: For details of "Alternative Waterstop" see "Standard Details No. 1" sheet "Route 4 On Ramp O.C."

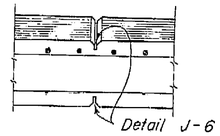


DESIGN AND DRAINAGE

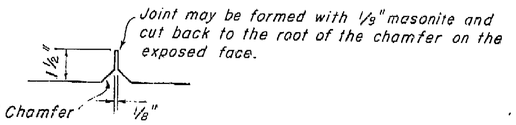
Surcharge limits shown apply to Retaining walls Type 1 and 3.



ELEVATION

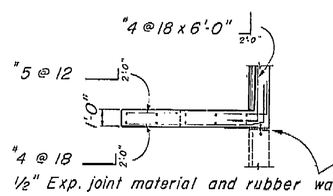


SECTION

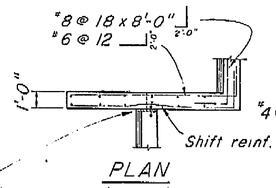


PLAN

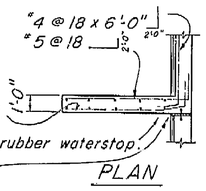
DETAIL J-6



PLAN



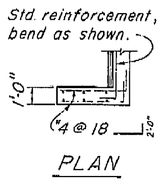
PLAN



PLAN

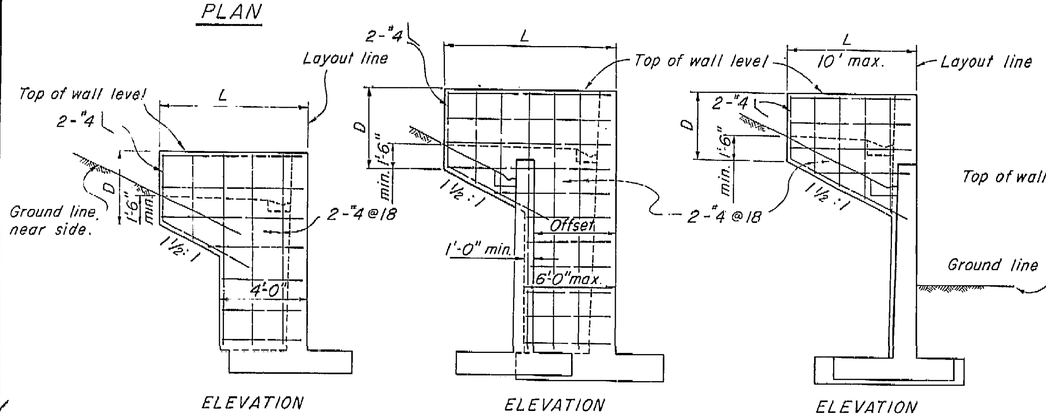
Shift reinf. to clear rubber waterstop.

1/2" Exp. joint material and rubber waterstop as shown when required.



PLAN

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062



ELEVATION
RETURN WALL TYPE 'A'
Use where H = 8' or less

ELEVATION
RETURN WALL TYPE 'B'
Use where H = 10' or more on offset walls

ELEVATION
RETURN WALL TYPE 'C'
Use where H = 10' or more on straight walls

ELEVATION
RETURN WALL TYPE 'D'
Use where H = 6' or less

NOTES

Design Conditions:

Design H may be exceeded by 6" before going to the next size.
Footing key is required except when found unnecessary by the Engineer
Special footing design is required where foundation material is incapable of supporting toe pressure loads listed in table.

THIS SET OF PLANS HAS BEEN CORRECTED TO CONFORM TO THE "AS BUILT" PRINTS DATED AS SUBMITTED BY RESIDENT
PLANS CORRECTED BY ____ DATE: ____

Design Data:

fc = 1200 psi f'c = 3000 psi fs = 20,000 psi n = 10 earth = 120 pcf

Equivalent fluid pressure = 36 pcf max. for determination of toe pressure.
27 pcf min. for determination of heel pressure.

BRIDGE DEPARTMENT			
DESIGN SECTION 2			
Project Designer: Earl B. Thurston			
Chief Designer: W. D. Jonkowski			
DESIGN	By D. H. Smith 7-29	Checked	J. D. Hoskins 8/61
DETAILS	By L. F. Kramer 7-60	Checked	W. D. Jonkowski 8/61
QUANTITIES	By Ray Mayo 3/61	Checked	J. Lemmon 8/61
SPECIFICATIONS	By	Plans and Form Checked	
Approved Recommended by: Rex Hatch		Civil and Structural Engineer No. 5439	

10/59

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ROUTE 99 OFF-RAMP O.C.

RETAINING WALL DETAILS NO. 1

SCALE NONE	BRIDGE 42-218	XS 3-45 FILE	DRAWING C-42218-8

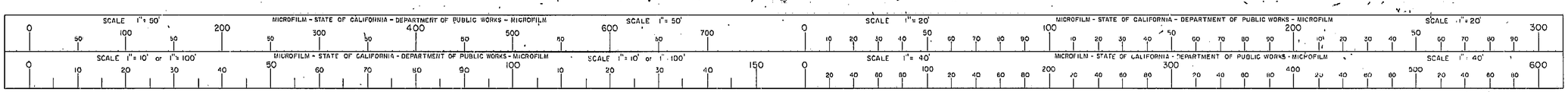
PREL. DRAWING NO. P-42218-18 8/23/61 9/6/61 9/13

W-1

584

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 12-12-62 SIGNATURE [signature] TITLE [illegible]



352

John J. Kaufmann Structural Engineer 1958 — 6729

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To Accompany Plans Dated August 28, 1961

Approved [signature] Bridge Engineer

Date Approved August 8, 1958

[signature] State Highway Engineer

Civil Engineer License No. 2084

Revised 9-24-58 Added Note ◉

V. Location Key. 9-30-58 JTS

Section Reinf. moved. 10-21-58 JTS

Changed note at top "Spread Ftg. Sec." 6-21-60 JTS

Divisions in table 1-60 JTS

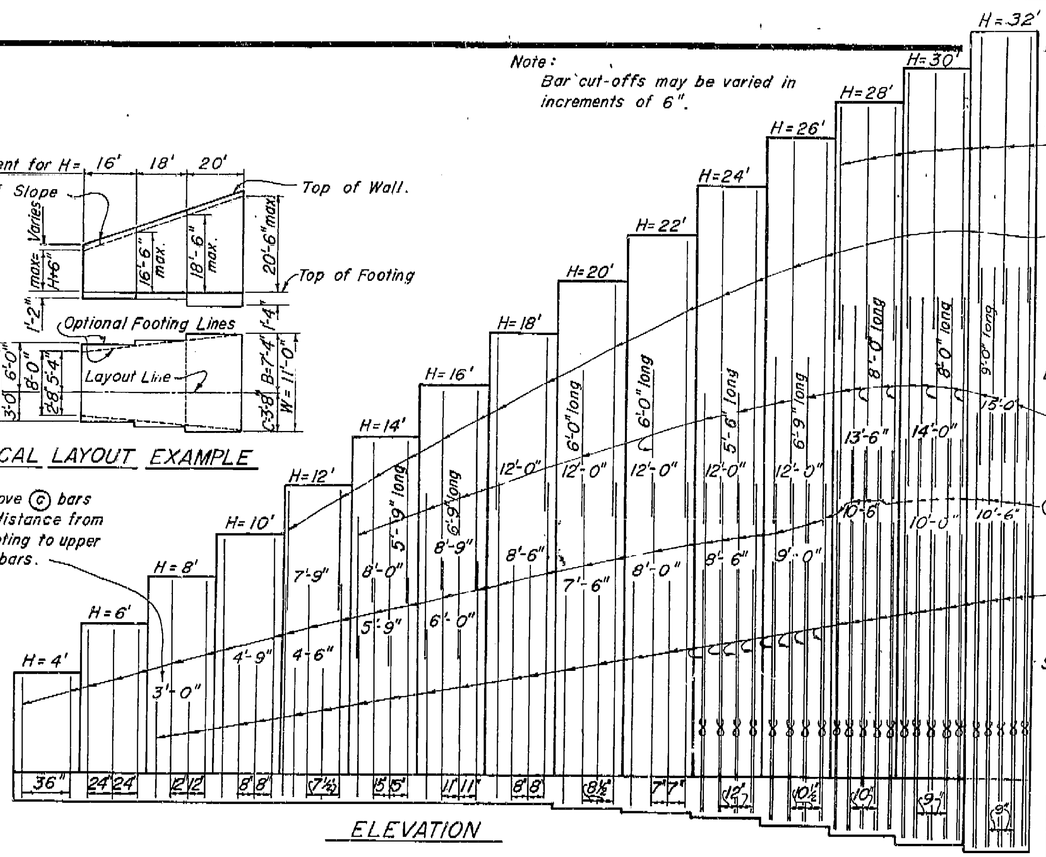
AS BUILT PLANS
Contract No 62-617303
Date Completed
Document No 6000062

Note: Bar cut-offs may be varied in increments of 6".

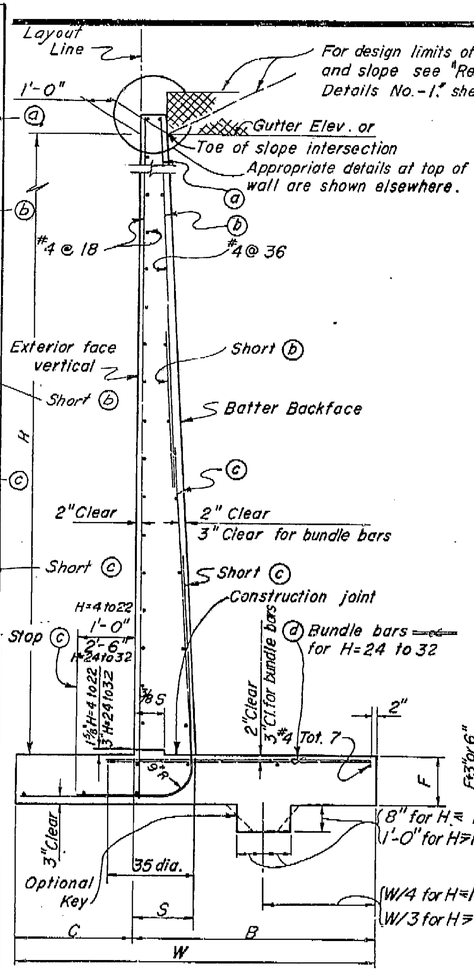
Use Reinforcement for H= 16' 18' 20'

TYPICAL LAYOUT EXAMPLE

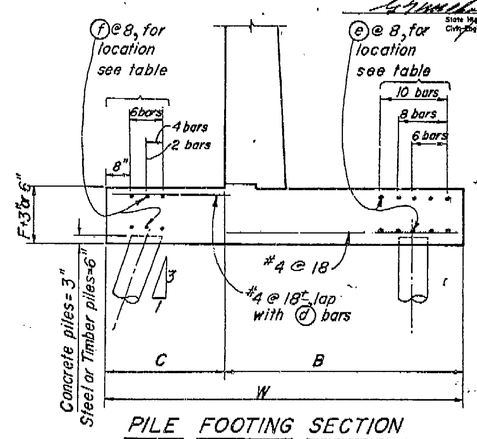
Number above ⓒ bars indicates distance from top of footing to upper end of ⓒ bars.



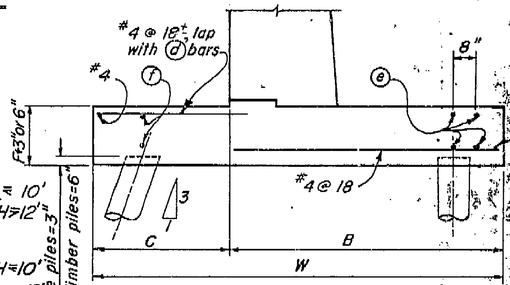
ELEVATION



SPREAD FOOTING SECTION



PILE FOOTING SECTION
H= 4 Thru H= 22



PILE FOOTING SECTION
H= 24 Thru H=32

TABLE OF REINFORCING STEEL DIMENSIONS AND DATA

Design H	◉ 4'	6'	8'	10'	12'	14'	16'	18'	20'	22'	24'	26'	28'	30'	32'
W	3'-2"	4'-2"	5'-2"	6'-2"	7'-2"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-3"	14'-3"	15'-3"	16'-3"	17'-0"
C	1'-0"	1'-4"	1'-8"	2'-0"	2'-4"	2'-8"	3'-0"	3'-4"	3'-8"	4'-0"	4'-5"	4'-9"	5'-1"	5'-5"	6'-0"
B	2'-2"	2'-10"	3'-6"	4'-2"	4'-10"	5'-4"	6'-0"	6'-8"	7'-4"	8'-0"	8'-10"	9'-6"	10'-2"	10'-10"	11'-0"
F Spread Ftg.	1'-2"	1'-2"	1'-2"	1'-2"	1'-2"	1'-2"	1'-2"	1'-2"	1'-4"	1'-6"	1'-8"	1'-11"	2'-2"	2'-4"	2'-6"
F+3" Conc. Pile	1'-5"	1'-5"	1'-5"	1'-5"	1'-5"	1'-5"	1'-5"	1'-5"	1'-7"	1'-9"	1'-11"	2'-2"	2'-5"	2'-8"	2'-10"	
F+6" Stl. or Tmr. p.	1'-8"	1'-8"	1'-8"	1'-8"	1'-8"	1'-8"	1'-8"	1'-8"	1'-10"	2'-0"	2'-2"	2'-5"	2'-8"	2'-10"	
S	1'-2"	1'-3"	1'-4"	1'-5"	1'-6"	1'-7"	1'-8"	1'-9"	1'-10"	1'-11"	2'-3"	2'-4½"	2'-9"	3'-2½"	3'-8"
Batter	½:12	½:12	½:12	½:12	½:12	½:12	½:12	½:12	½:12	½:12	⅝:12	⅝:12	¾:12	⅞:12	1:12
ⓒ bars													#7@20	#7@18	#7@18
ⓓ bars					#5@30	#5@15	#5@11	#6@24	#7@17	#7@14	#8@12	#8@10½	#9@10	#9@9	#9@9
ⓒ bars	#5@36	#5@24	#5@12	#5@8	#6@7½	#10@15	#10@11	#10@8	#11@8½	#11@7	#11@12ᶜᶜ	#11@10½ᶜᶜ	#11@10ᶜᶜ	#11@9ᶜᶜ	#11@9ᶜᶜ
ⓓ bars	#5@36	#5@24	#4@12	#4@8	#5@7½	#9@15	#9@11	#9@8	#10@8½	#10@7	#10@12ᶜᶜ	#10@10½ᶜᶜ	#9@10ᶜᶜ	#9@9ᶜᶜ	#9@9ᶜᶜ
Total ⓔ bars	6-#6	6-#6	6-#6	10-#7	10-#7	10-#7	10-#7	8-#7	8-#7	8-#7	4-#7	4-#7	4-#7	4-#7	
Total ⓕ bars				6-#7	6-#7	6-#7	6-#7	4-#7	4-#7	4-#7	2-#7	2-#7	2-#7	2-#7	
H Comp. pounds	850	1440	2170	3050	4070	5240	6540	8000	9730	11630	13730	15950	18650	21145	23920
V Comp. pounds	2020	3460	5230	7340	9760	12180	15260	18670	22690	27070	31750	36870	44560	50450	60000
e feet	.50	.60	.79	.94	1.07	1.28	1.41	1.54	1.72	1.90	2.08	2.25	2.52	2.70	2.82
Toe Pressure P.S.F.	1240	1570	1930	2270	2640	2980	3290	3590	4000	4480	4640	5040	5810	6190	7150
Spread Footing Conc. CF/ft.	8.9	12.6	16.3	20.2	24.3	29.5	33.8	38.5	45.0	52.1	63.1	73.0	87.6	102.7	120
Conc. pile ftg. Steel lbs/ft.	24	31	39	74	92	120	144	198	236	289	348	413	449	504	
Conc. pile ftg. Conc. CF/ft.	8.8	12.8	16.7	20.8	25.2	29.5	34.1	39.0	45.8	53.1	64.4	74.6	89.4	104.8	

ᶜᶜ Denotes a bundle of 2 bars.

Note:
For details not shown and drainage notes see "Retaining Wall Details No. 1."

◉ For pile footing Design H = 4' use same footing dimensions as Design H = 6'

Note:
Reinforcement detailed is to be placed in addition to that shown for spread footing. All piles not shown, see Pile Layout on other sheets.

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer [signature]
Chief Designer W.J. Gutknecht

DESIGN	W.J.G.	Checked W.S. Nelson 3/61
DETAILS	J.T.S.	Checked M.B. Nelson 3/61
QUANTITIES	J.T.S.	Checked L. Rasmussen
SPECIFICATIONS	W.J.G.	Checked

Approved for Publication by [signature] Chief Bridge Engineer
Registered Civil Engineer
S 45

9/60

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ROUTE 99 OFF-RAMP O.C.

TYPE I, CANTILEVER RETAINING WALL

SCALE none | BRIDGE 42-218 | XS 3-46 FILE | DRAWING C-122

PREL. DRAWING No. P-42218-17 3/61 8/61

W-3

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

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Division: 9-22-60
Made #8 bar cont. in Detail J-1. STK.

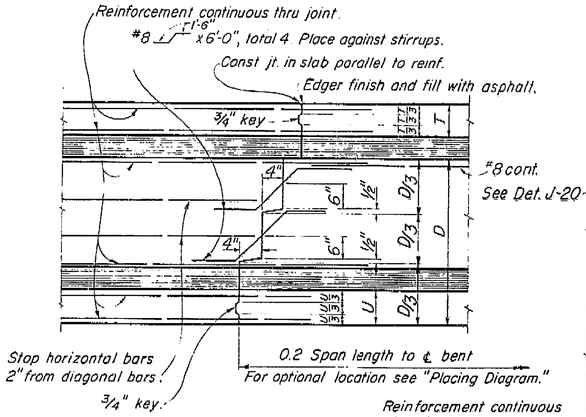
Rev.-Detailed gate in Detail J-1 & reversed position of precast notes 1-6-0 STK.

V-006-2 (6)
F-006-2 (5)

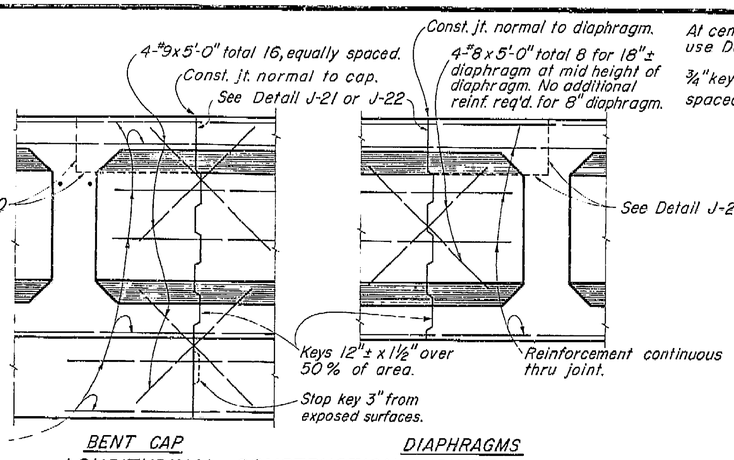
FED. ROAD DIV. NO.	STATE	PROJ. NO.	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.			358	424

DIST.	COUNTY	ROUTE	SECTION	POST MILES	TOTAL SHEETS
VI	Fre	99			

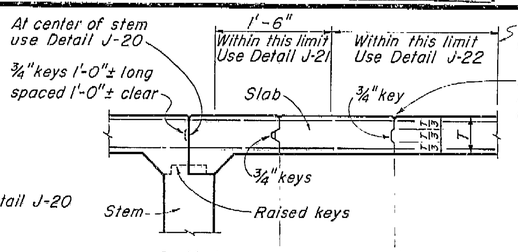
August 28, 1961

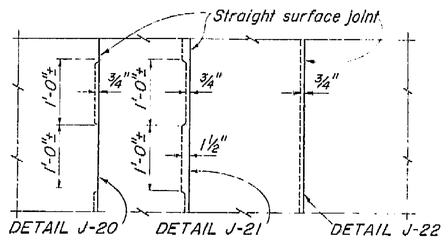


TRANSVERSE GIRDER CONSTRUCTION JOINTS
DETAIL J-3



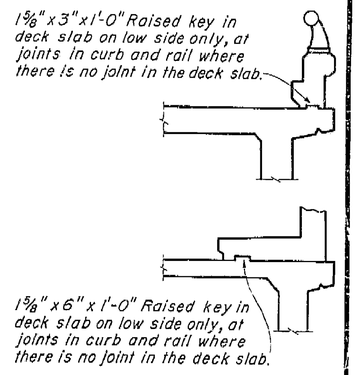
BENT CAP LONGITUDINAL CONSTRUCTION JOINTS DIAPHRAGMS
DETAIL J-4



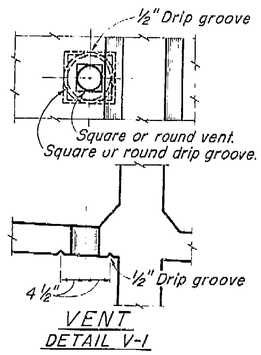


DECK SLAB
LONGITUDINAL CONSTRUCTION JOINTS

Note: Longitudinal construction joints in slab, if required, are to be located at edge of traffic lanes except as approved by the Engineer.

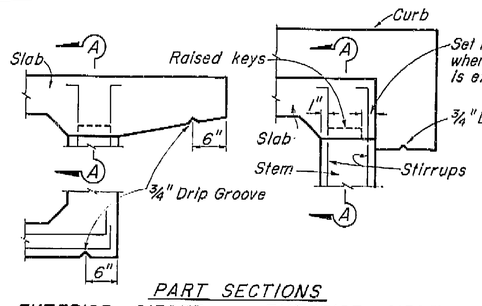


CURB AND SIDEWALK EXPANSION JOINT
DETAIL C-1

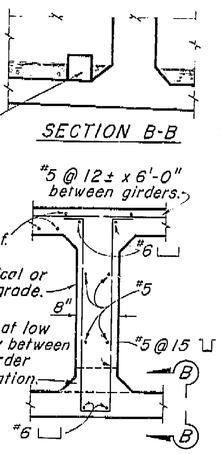


VENT
DETAIL V-1

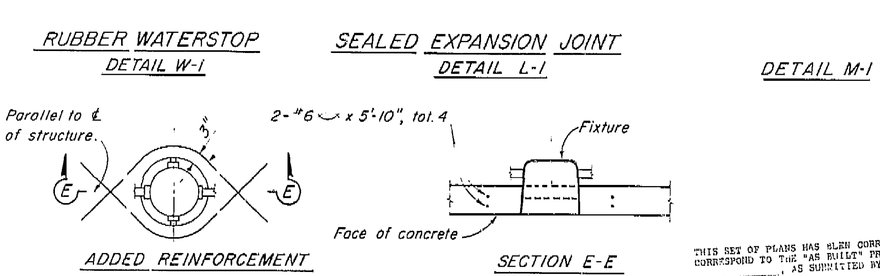
Note:
5" ϕ Vent in lower slab.
Min. of two vents per span in each bay between girders. One vent to be located at low point of span and other vent to be located at opposite end of span @ 1'-6" from face of Abutment or Bent. See "Girder Layout".



PART SECTIONS
EXTERIOR GIRDER WITH SLAB CANTILEVER
EXTERIOR GIRDER WITH CURB



INTERMEDIATE DIAPHRAGM SECTION
DETAIL D-1



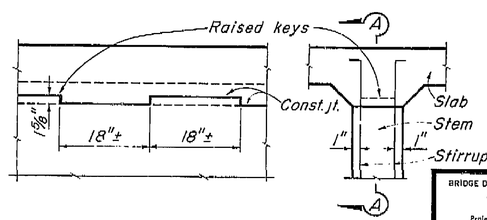
RUBBER WATERSTOP
DETAIL W-1

SEALED EXPANSION JOINT
DETAIL L-1

DETAIL M-1

ADDED REINFORCEMENT
SECTION E-E

RECESSED SOFFIT LIGHT
DETAIL F-1



SECTION A-A
PART SECTION INTERIOR GIRDER

KEY-GIRDER STEM TO SLAB
DETAIL J-5

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED AS SUBMITTED BY RESIDENT ENGINEER.
DATED
TRACINGS CORRECTED BY: DATE:

STANDARD DRAWING
Bridge Details
Approved 11/60

BRIDGE DEPARTMENT
DESIGN SECTION
Project Designer
Chief Designer
DESIGN
DETAILS
QUANTITIES
SPECIFICATIONS
Approved for recommended by

11/60
STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ROUTE 99 OFF-RAMP O.C.

STANDARD DETAILS NO. 1 (BOX GIRDER)

SCALE NONE | BRIDGE 42-218 | FILE XS-16-22 | DRAWING C-422 8-14

PREL. DRAWING NO P-42218-24 12/16/13

590

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE SIGNATURE TITLE

SCALE 1"=50' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"=20'
SCALE 1"=10' or 1"=100' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"=40'

ClibPDF - www.fastio.com

Rev.-Added ¼"r on "Section A-A & D-D." Added 2¾" long dim. in "Rail Connection" dtl. 11-60 RFK

VI	Fre	99

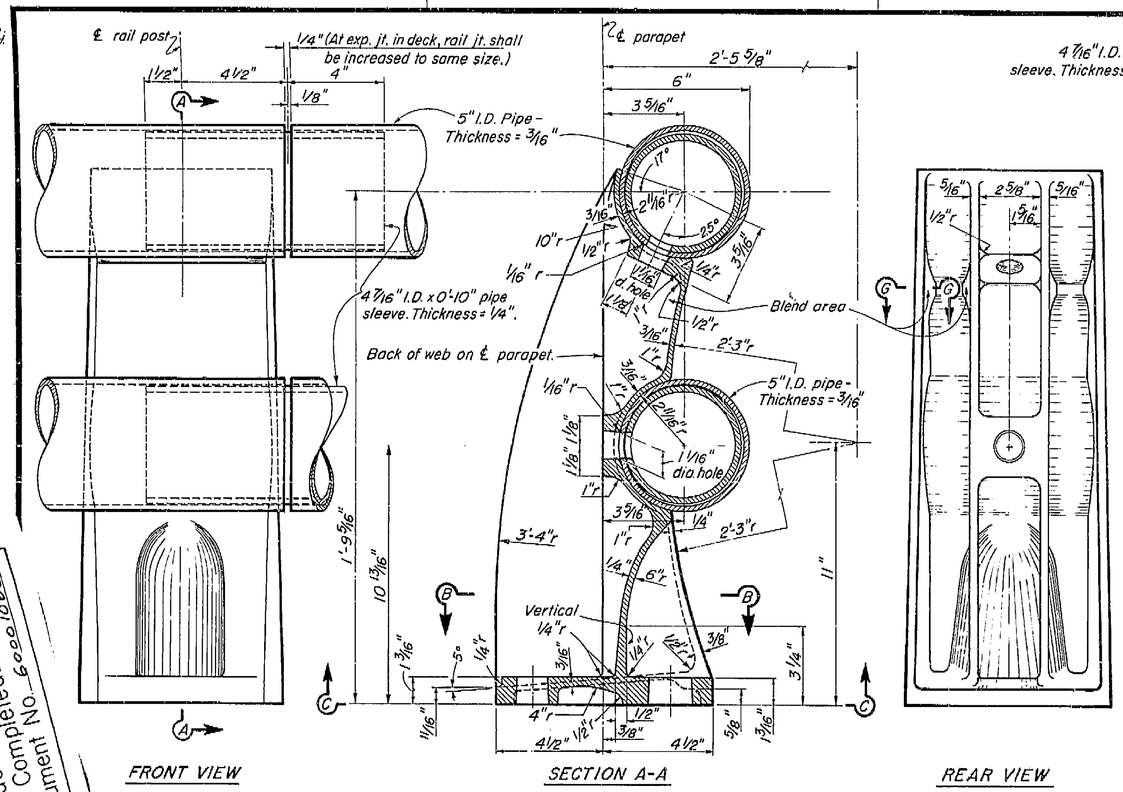
V-006-2 (6)
F-006-2 (5)

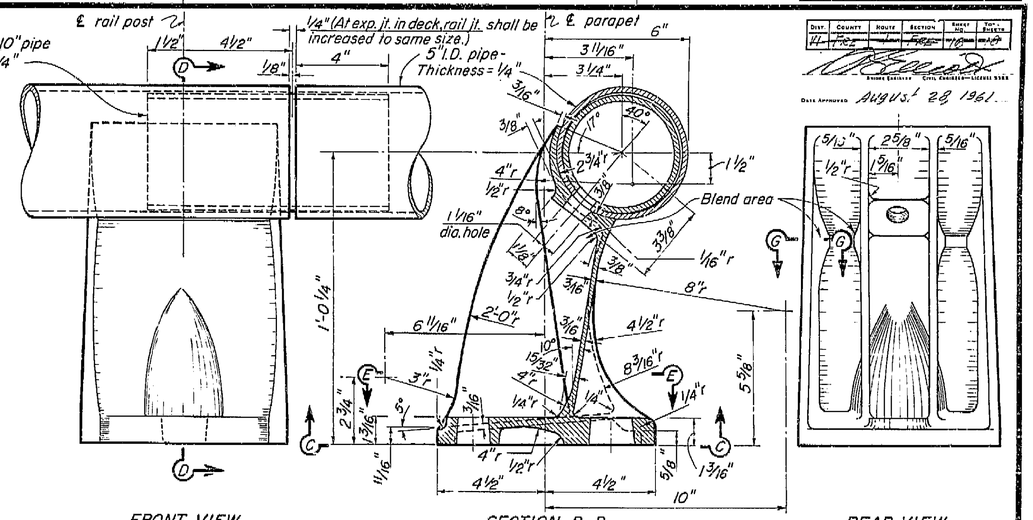
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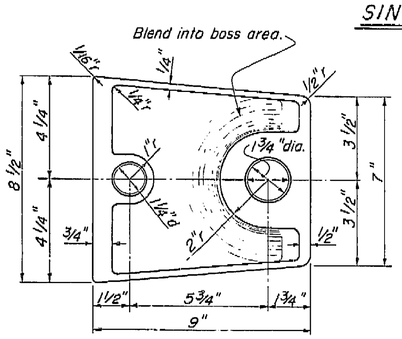
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VI	Fre	99		170	426

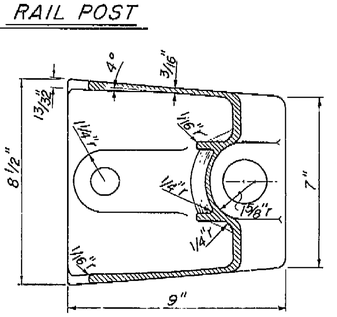
Date Approved August 28, 1961

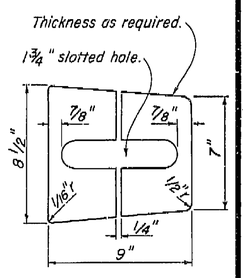
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62-6T13C3
Contract No.
Date Completed
Document No. 6000162

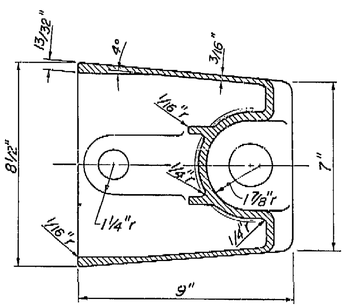


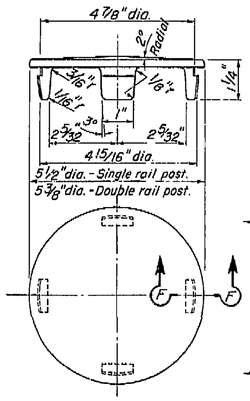


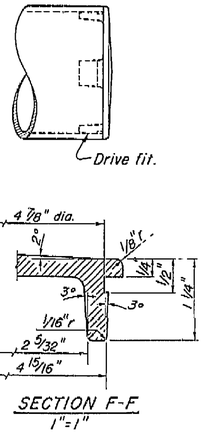


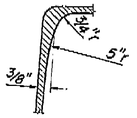


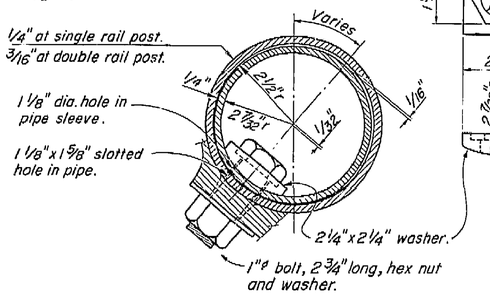


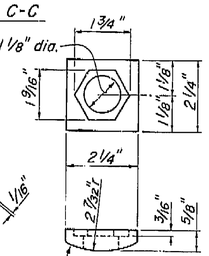












Notes:

1. At the option of the contractor, material for the railing shall be one of the following:
   a. Aluminum pipe rail and cast aluminum post.
   b. Steel pipe rail and cast steel post. Rail and posts to be galvanized. Steel pipe rail shall be 3/16" thick with 5" I.D. Rail post dimensions shall be revised as necessary to fit the steel pipe.
2. Shims are to be of asbestos sheet packing.
3. For railing on a horizontal curve the pipe rail shall be bent to the curve or the spacing of posts adjusted so that the middle ordinate between posts will not exceed 1".

BRIDGE DEPARTMENT		
DESIGN SECTION		
Section Supervisor	W.J. Quintrell	
DESIGN	By	D.A. Smith 12-60
	Checked	W.F. Redden 2/61
DETAILS	By	R. Rasmussen 12-60
	Checked	W.F. Redden 2/61
QUANTITIES	By	John Ahlgren 3/61
	Checked	R. Rasmussen 3/61

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

11/60

99
ROUTE # OFF - RAMP O.C.

BARRIER RAILING SHEET 2

Except as noted
SCALE 3/8" = 1'

BRIDGE 42-218

XS-9-71
FILE

DRAWING C-A 2218-16

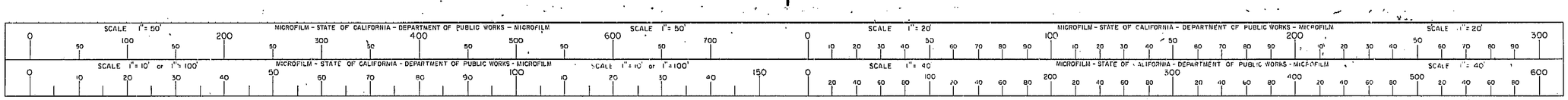
Disregard prints bearing earlier numbers →

PREL. DRAWING No. P-42218-26 11/5/61

592

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____



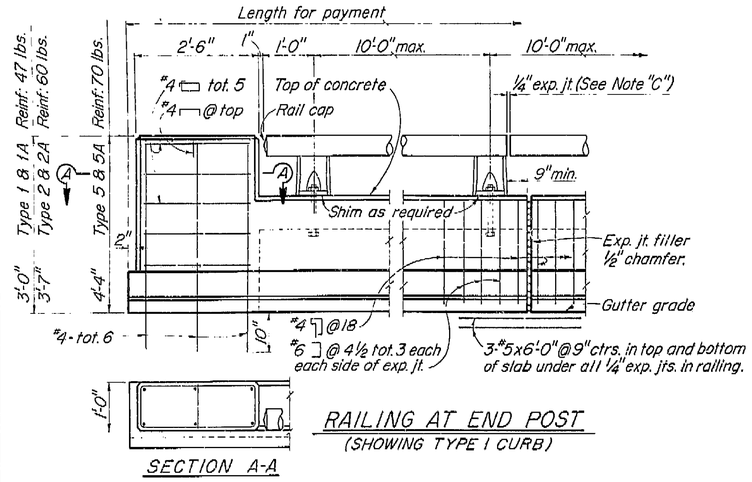
ClibPDF - www.fastio.com

VI | Fre | 99

U-006-2 (6)
F-006-2 (5)

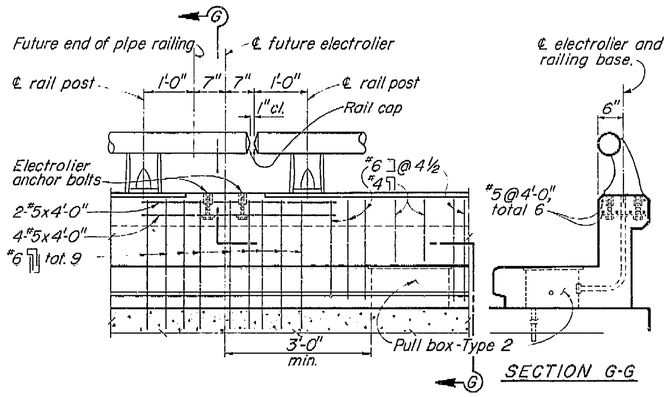
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7	CALIF.		339	424

August 28, 1961



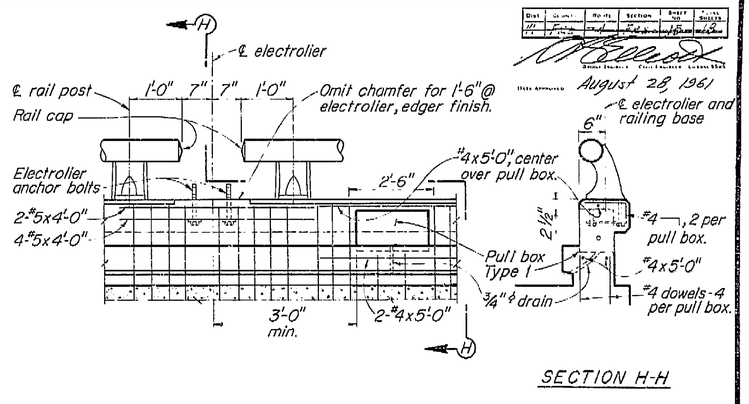
SECTION A-A

RAILING AT END POST
(SHOWING TYPE 1 CURB)



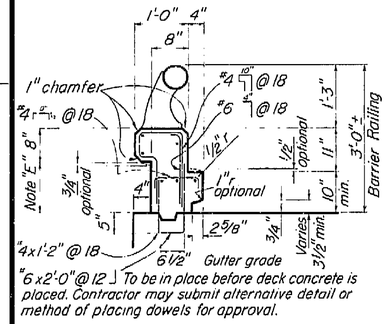
SECTION G-G

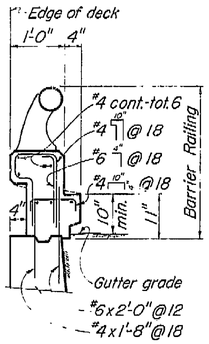
RAILING CLOSURE AT ELECTROLIER
(SHOWING TYPE 2 CURB)

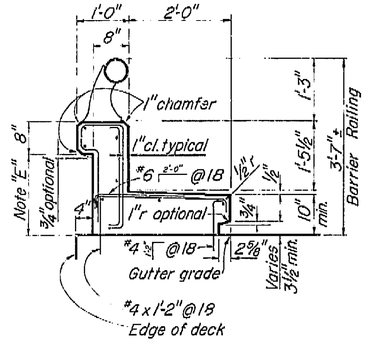


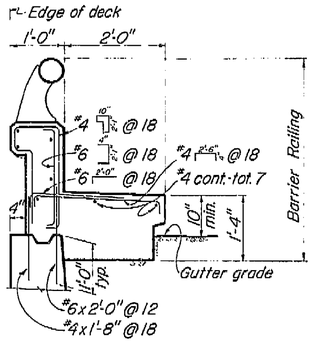
SECTION H-H

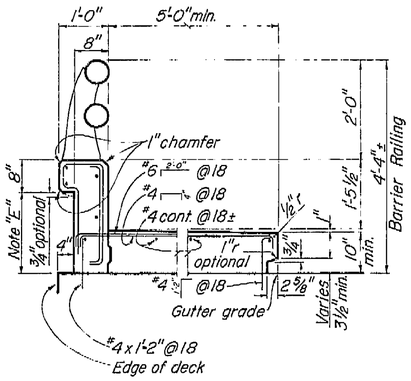
RAILING AT ELECTROLIER
(SHOWING TYPE 1 CURB)

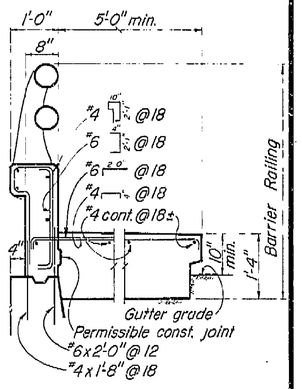












Note: Type 1A and 2A are similar to Type 1 and 2 except as noted.

TYPE 1
Conc. 1.61 cu. ft. / lin. ft.
Reinf. 11.8 lbs. / lin. ft.

TYPE 1A
Conc. 1.61 cu. ft. / lin. ft.
Reinf. 12.0 lbs. / lin. ft.

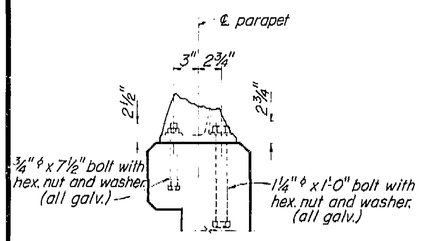
TYPE 2
Conc. 3.43 cu. ft. / lin. ft.
Reinf. 14.7 lbs. / lin. ft.

TYPE 2A
Conc. 4.30 cu. ft. / lin. ft.
Reinf. 17.3 lbs. / lin. ft.

TYPE 5
Conc. 6.10 cu. ft. / lin. ft. } For 5'-0" width
Reinf. 17.2 lbs. / lin. ft.
Conc. 0.84 cu. ft. / lin. ft. } Per additional ft. (width)
Reinf. 2.1 lbs. / lin. ft.

TYPE 5A
Conc. 8.35 cu. ft. / lin. ft.
Reinf. 19.7 lbs. / lin. ft.
Conc. 1.34 cu. ft. / lin. ft.
Reinf. 2.1 lbs. / lin. ft.

TYPICAL CURB AND RAIL SECTIONS



RAIL POST ANCHOR BOLT DETAIL
Scale: 1 1/2" = 1'-0"

Note:
A. Railing shall conform to horizontal and vertical alignment.
B. Posts shall be normal to railing.
C. Curb and wall exp. jts. to be located at all deck joints, at ℄ piers or bents and at uniform spacing (40' max.) between those specified. Joint size to be 1/4" min. and increased to match deck joints.
D. Construct 3" deep x 12" wide overflow scupper 2" above deck at low points in grade.
E. Dimension will vary with cross-slope of deck.
F. Walls are to be backfilled before railing is placed.
G. Clearance to reinforcing steel in curb and railing to be 1".

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 6000.1062

BRIDGE DEPARTMENT DESIGN SECTION			
Section Supervisor			
DESIGN	Checked		
DETAILS	By		
	Checked		
QUANTITIES	By		
	Checked		

10/60

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ROUTE 99 # OFF-RAMP O. C.

BARRIER RAILING SHEET 1

Except as noted SCALE 3/4" = 1'-0" | BRIDGE 42-818 | XS-9-63 FILE | DRAWING C-42218-15

Disregard prints bearing earlier numbers → PREL. DRAWING No. P-42218-25

359

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"= 50' SCALE 1"= 50'
SCALE 1"= 10' or 1"= 100' SCALE 1"= 10' or 1"= 100'
SCALE 1"= 20' SCALE 1"= 20'
SCALE 1"= 40' SCALE 1"= 40'

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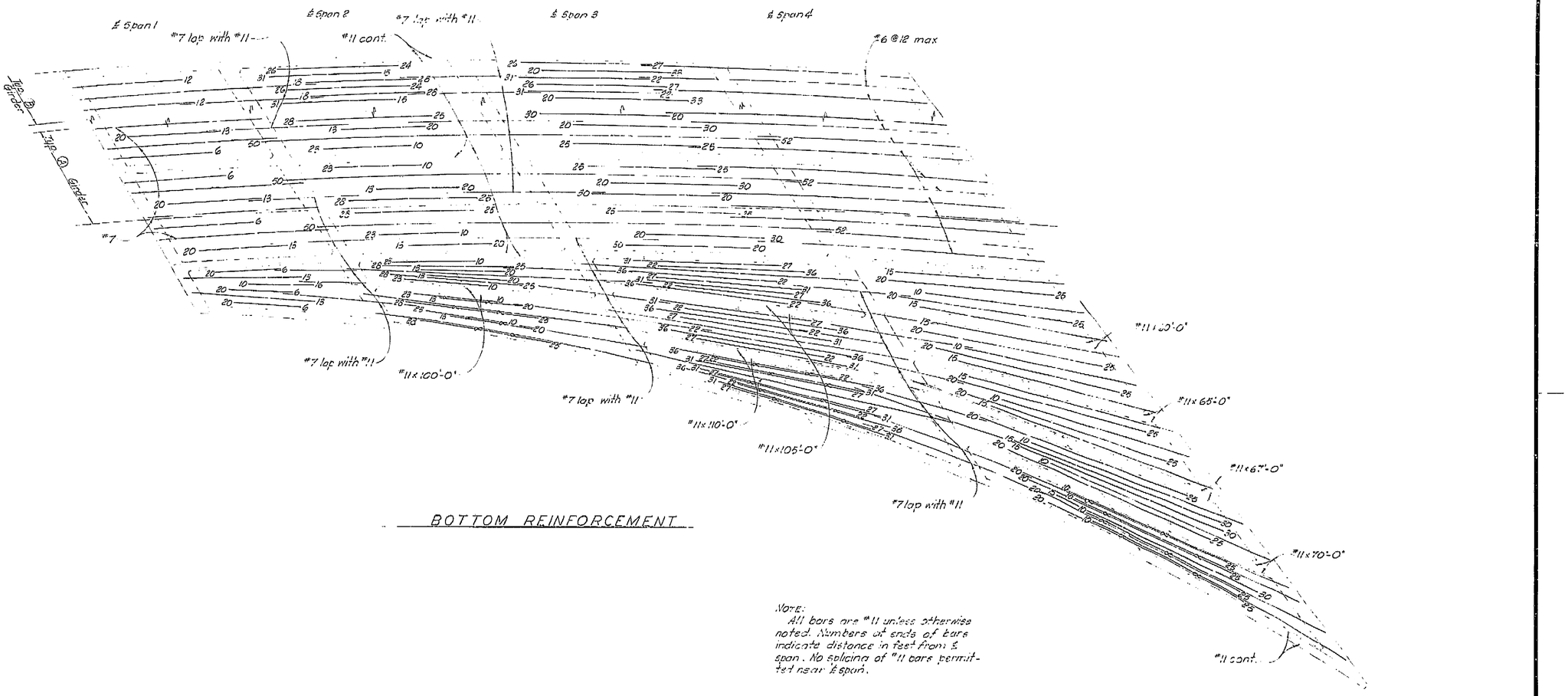
VI	Fre	99

V-006-2 (6)
F-006-2 (5)

FED. ROAD DIV. No	STATE	F. A. PROJECT No	SHEET No	TOTAL SHEETS
7	CALIF.		357	424

DIST.	COUNTY	ROUTE	SECTION	SHEET No	TOTAL SHEETS
VI	Fre	99	Frs	18	18

DATE APPROVED: August 28 1961



BOTTOM REINFORCEMENT

Note:
All bars are #11 unless otherwise noted. Numbers at ends of bars indicate distance in feet from ℄ span. No splicing of #11 bars permitted near ℄ span.

All splices of bars in bundles shall be made in 35 diameter lgc. ∞ - Denotes bundled bars.

AS BUILT PLANS
Contract No. 62-671363
Date Completed
Document No. 60001062

357

BRIDGE DEPARTMENT
DESIGN SECTION 2
Section Supervisor W. J. Mundorff

DESIGN	By O. J. Sturm	Date 7-60
	Checked J. Lasmi	7-60
DETAILS	By F. Parenti	7-60
	Checked Jr. Sturm	7-60
QUANTITIES	By Engl Dec 1961	
	Checked F. Parenti	8-61

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ROUTE 99 OFF-RAMP O. C.

GIRDER REINFORCEMENT - II

SCALE	BRIDGE	FILE	DRAWING
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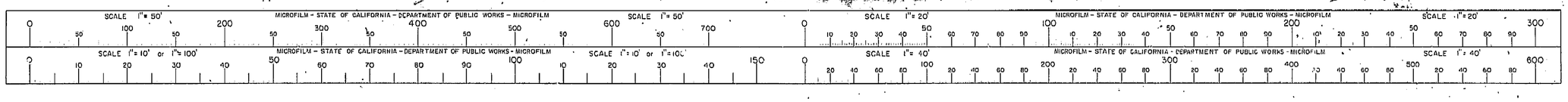
PREL. DRAWING No. P-42218-23 8/3/61 8/31/61

Disregard prints bearing earlier numbers →

589

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-12-72 SIGNATURE [signature] TITLE [illegible]



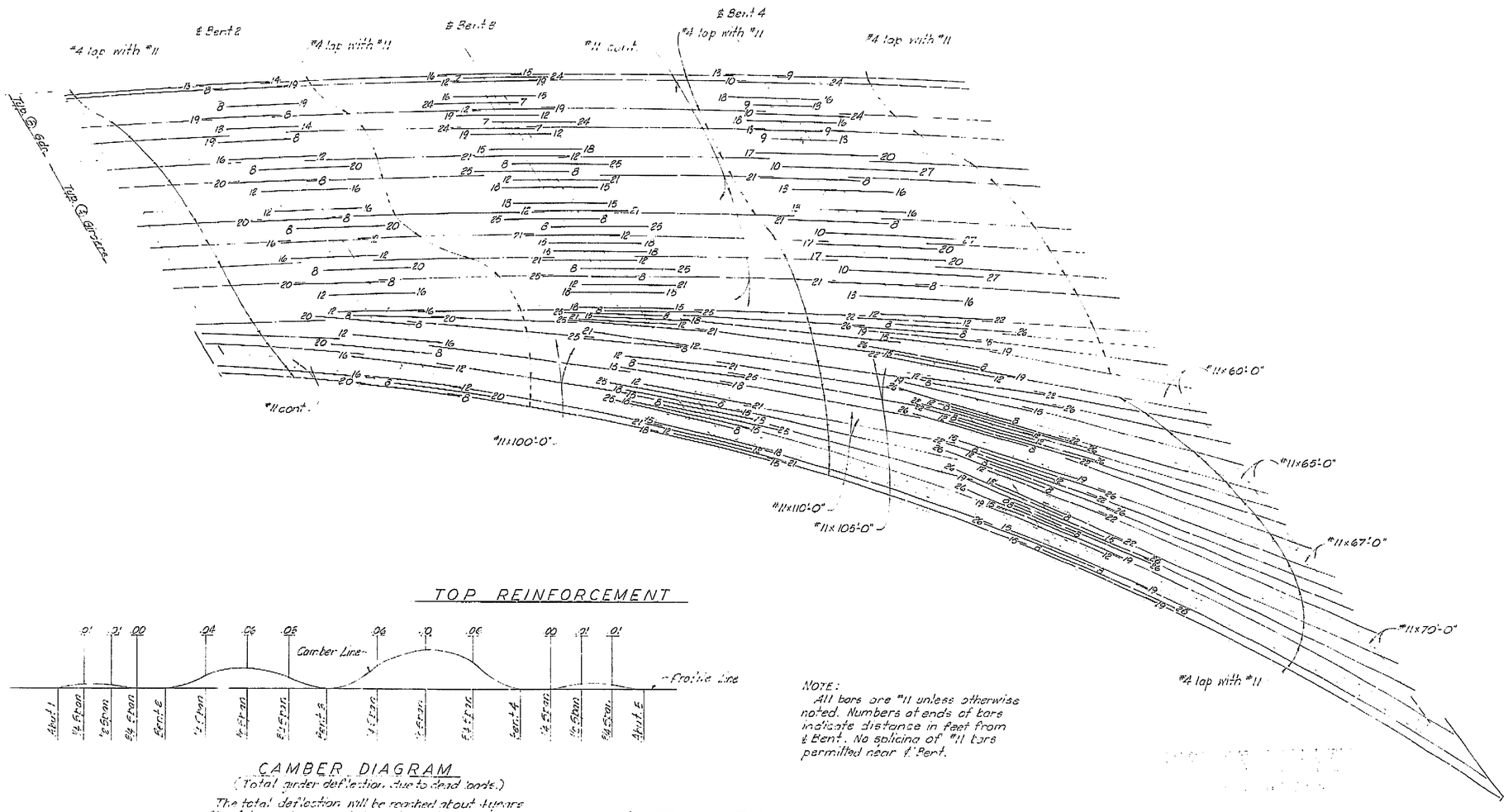
ClibPDF - www.fastio.com

FED. ROAD DIV. No.	STATE	F. A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.		356	422

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	Fre	99	42218	12	18

BRIDGE ENGINEER — CIVIL ENGINEER — LICENSE 8388

DATE APPROVED August 28, 1961



TOP REINFORCEMENT

CAMBER DIAGRAM

(Total girder deflection due to dead loads.)

The total deflection will be reached about 4 years after falsework removal. For values at time of falsework removal divide those shown by 4.

The amount of camber for construction will be determined by the Engineer.

NOTE:
All bars are #11 unless otherwise noted. Numbers at ends of bars indicate distance in feet from ℄ Bent. No splicing of #11 bars permitted near ℄ Bent.

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed ____
Document No. 6000.1062

BRIDGE DEPARTMENT
DESIGN SECTION 2
Section Supervisor W. J. Quinton

DESIGN	By	[illegible]
	Checked	W. J. Quinton 7/61
DETAILS	By	[illegible]
	Checked	W. J. Quinton 7/61
QUANTITIES	By	R. A. Oldfield 7/61
	Checked	J. Rowbotham 7/61

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ROUTE 99 OFF-RAMP O. C.

GIRDER REINFORCEMENT-I

SCALE NONE | BRIDGE 42-218 | FILE | DRAWING C-42218-12

Disregard prints bearing earlier numbers → PREL. DRAWING No. P-42218-22 (1/63) (8/61)

588

356

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-10-72 SIGNATURE [illegible] TITLE [illegible]

SCALE 1"= 50' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"= 50'
SCALE 1"= 10' or 1"= 100' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"= 10' or 1"= 100'
SCALE 1"= 20' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"= 20'
SCALE 1"= 40' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"= 40'

ClibPDF - www.fastio.com

VI | Fre | 99

U-006-2 (6)
F-006-2 (5)

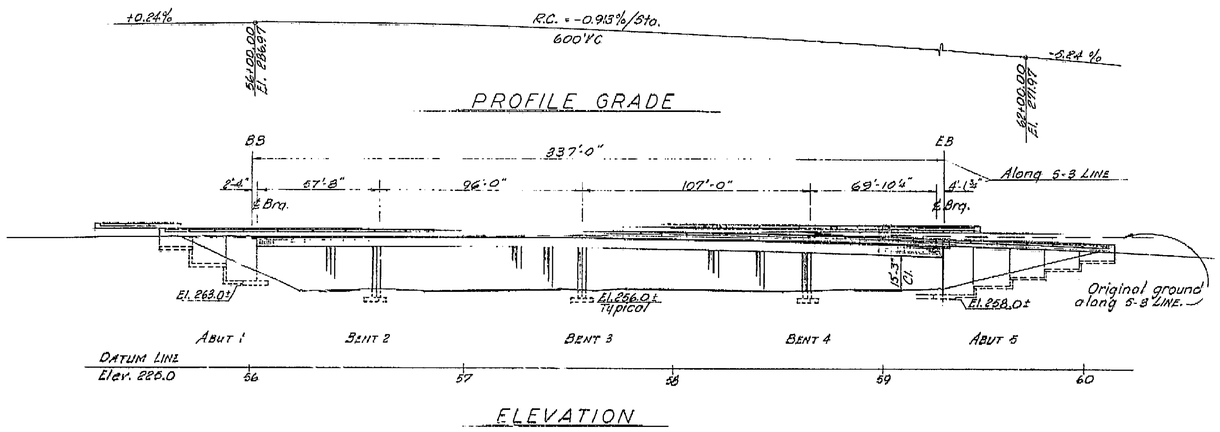
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7	CALIF.		362	424

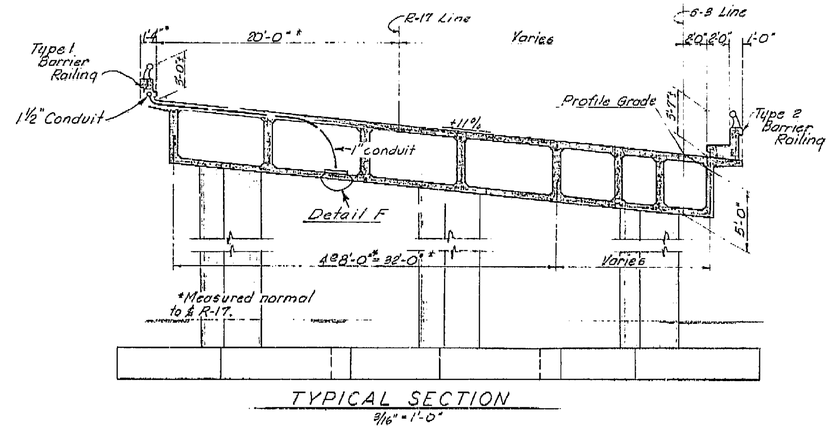
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	41	FRE-41	7/8	18

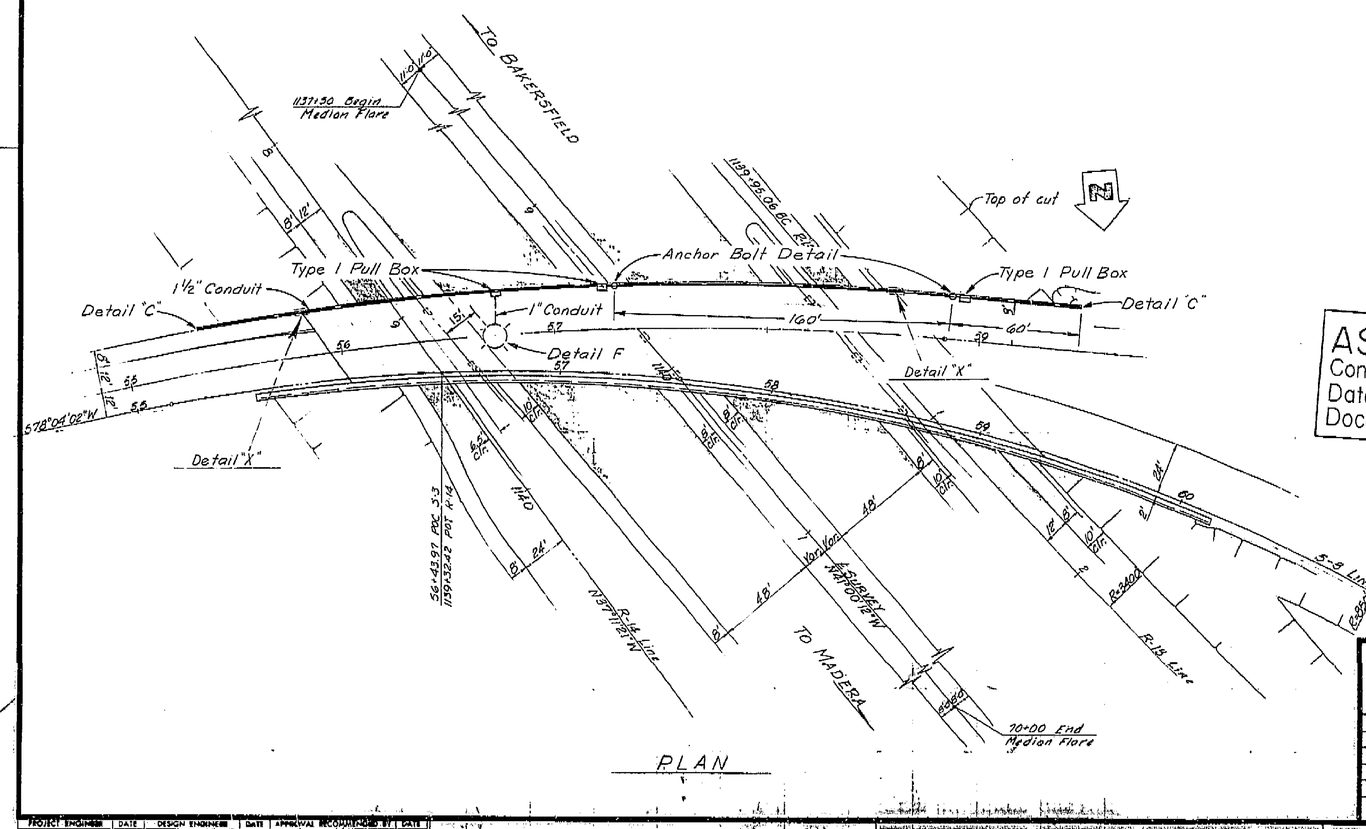
DISTRICT ENGINEER

ASSISTANT STATE HIGHWAY ENGINEER — CIVIL ENGINEER — LICENSE #1280

DATE APPROVED: August 28, 1961







Note: This plan accurate for highway lighting only.

AS BUILT PLANS
Contract No. 62-671363
Date Completed
Document No. 60001062

For additional notes see Sheet No. ES-7-4

362

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL RECOMMENDED BY	DATE
O.E. Schubert	4/61	E.M. Taylor	4/61		4/61

BRIDGE DEPARTMENT
DESIGN SECTION 2
Section Supervisor
Project Designer Earl A. Taylor

DESIGN	By D.A. Smith 11/60	Checked	
DETAILS	By R.J. Sorensen 11/60	Checked	
LAYOUT	By	Checked	
QUANTITIES	By	Checked	
ELECTRICAL	By	Plans and Specs. Engineer	

Approval Recommended by _____ Design Engineer — Civil Engr. License No. 5436

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ROUTE 41 OFF-RAMP O.C.

LOCATED WITHIN THE CITY OF FRESNO

LIGHTING PLAN

Except as noted SCALE 1"=10'-1" | BRIDGE 42-218 | FILE | DRAWING 42218-18

LIGHTING

Disregard prints bearing earlier revision dates →

PRELIMINARY DRAWING No. P-42218-1

REVISION DATES: 11/8/60 | 12/26/60 | 1/3/61

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

ClibPDF - www.fastio.com

VI	Fre	99

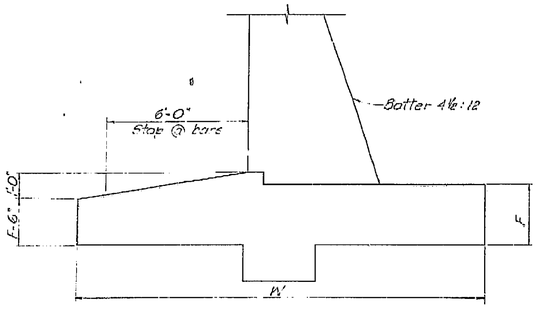
U-006-2 (6)
F-006-2 (5)

FED. ROAD DIV. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.		350	424

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	99			

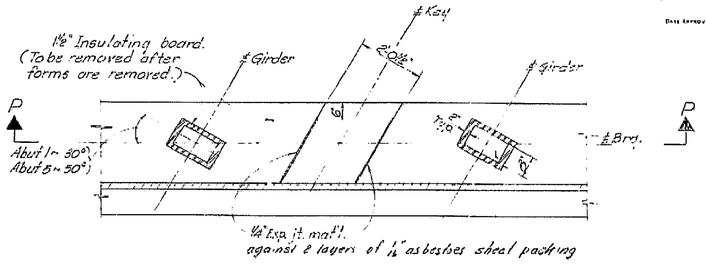
BRIDGE ENGINEER — CIVIL ENGINEER—LICENSE 5208

DATE APPROVED August 28, 1961

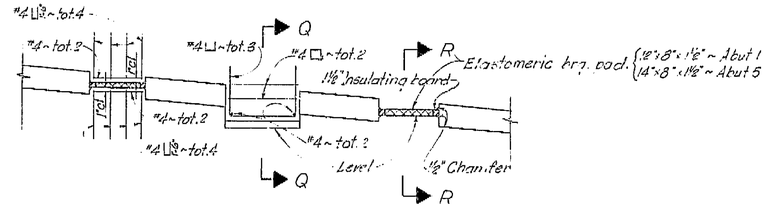


H=32

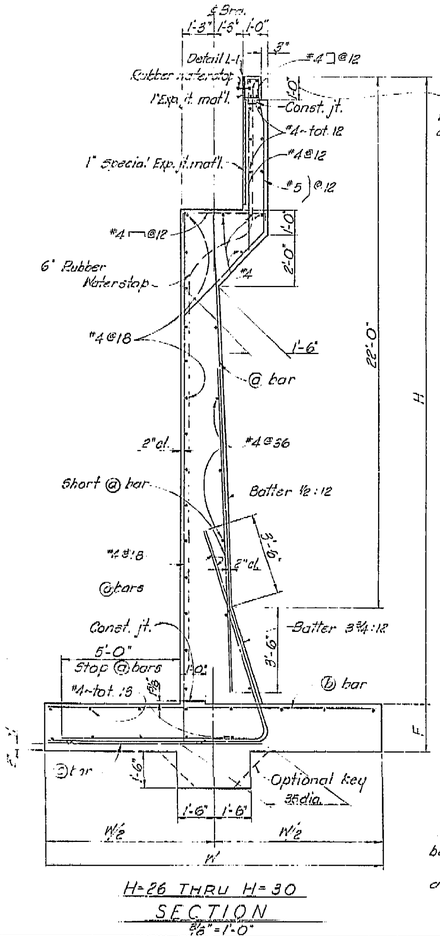
H	26	28	30	32
W	14'	15'	16'	17'
F	2'-0"	2'-3"	2'-5"	2'-6"
ⓐ bar	#11@7	#11@7	#11@7	#11@7
ⓑ bar	#10@14	#10@14	#10@11	#9@14
ⓒ bar			#7@14	#4@14
Toe pressure	2.61 K/sq ft	2.98 K/sq ft	6.17 K/sq ft	6.52 K/sq ft
Bar Reinf	4.16 #/L.F.	4.53 #/L.F.	5.09 #/L.F.	5.24 #/L.F.
Concrete	74.9 C.F./L.F.	87.8 C.F./L.F.	98.4 C.F./L.F.	111.7 C.F./L.F.



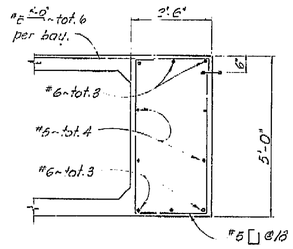
PLAN
½" = 1'-0"



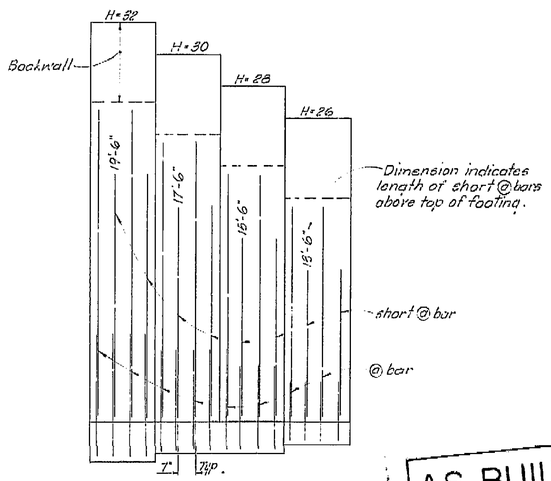
SECTION P-P
½" = 1'-0"



H=26 THRU H=30
SECTION
½" = 1'-0"

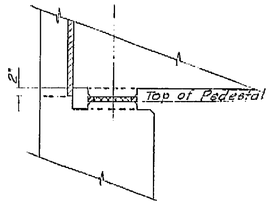


SECTION O-O
½" = 1'-0"

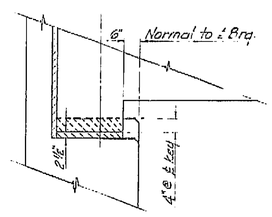


ELEVATION
No Scale

Denotes bundled bars.
H=32 similar except as noted.



SECTION R-R
½" = 1'-0"



SECTION Q-Q
2" = 1'-0"

4-63 J.W.B. D.J.C. 11-63

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

BRIDGE DEPARTMENT DESIGN SECTION 2		
Section Supervisor	W.D. Gutknecht	
DESIGN	By	Checked W.D. Gutknecht 2/61
DETAILS	By J. Sweeney 1/61	Checked W.D. Gutknecht 2/61
QUANTITIES	By R.L.D. 2/61	Checked J. Sweeney 2/61

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ROUTE 99 OFF-RAMP O.C.

ABUTMENT WALL DETAILS

SCALE As Noted	BRIDGE 42-318	FILE	DRAWING C-42218-6

Disregard prints bearing earlier numbers →

PREL. DRAWING NO. P-42218-16 6/3/61 6/13

582

350

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-12-12 SIGNATURE [illegible] TITLE [illegible]

SCALE 1"=50' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"=50'
SCALE 1"=20' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"=20'
SCALE 1"=10' or 1"=100' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"=10' or 1"=100'
SCALE 1"=40' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"=40'

ClibPDF - www.fastio.com

VI	Fre	99

V-006-2(6)
F-006-2(5)

FED. ROAD DIV. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.		346	424

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
11	SD	99	2	346	424
7	LA				

BRIDGE ENGINEER — CIVIL ENGINEER — LICENSE 5985

DATE APPROVED: August 28 1961

GENERAL NOTES

SPECIFICATIONS:

DESIGN: A.A.S.H.O. DATED 1957 WITH REVISIONS AND AS SUPPLEMENTED BY BRIDGE PLANNING AND DESIGN MANUAL.

CONSTRUCTION: STANDARD SPECIFICATIONS, DIVISION OF HIGHWAYS, DATED JANUARY 1960 AND THE SPECIAL PROVISIONS.

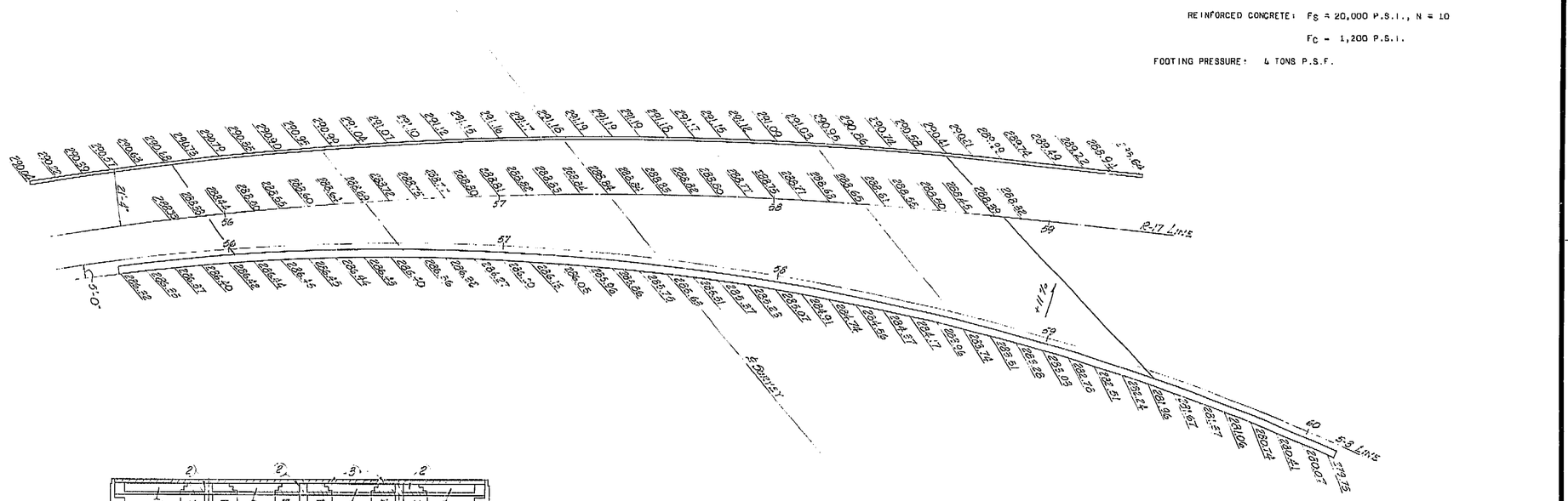
LIVE LOADING: H20-S16-44 AND ALTERNATIVE

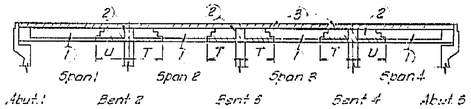
UNIT STRESSES:

REINFORCED CONCRETE: F_S = 20,000 P.S.I., N = 10

F_C = 1,200 P.S.I.

FOOTING PRESSURE: 4 TONS P.S.F.





SUPERSTRUCTURE PLACING DIAGRAM

NUMBERS (1) AND (2) INDICATE SEQUENCE OF PLACING GIRDER STEM CONCRETE. (2) MAY BE PLACED SIMULTANEOUSLY WITH (1) WHEN APPROVED BY THE ENGINEER, AND PROVIDED THAT THE (1) SECTIONS ARE PLACED IN ADJOINING SPANS.

TOP SLAB CONCRETE (3) MAY BE PLACED SEPARATELY FROM (1) AND (2). (3) MAY BE PLACED CONTINUOUSLY OR IN PARTS AS APPROVED BY THE ENGINEER, HOWEVER THE ONLY JOINTS PERMITTED SHALL BE LOCATED WITHIN 2'-0" OF THE GIRDER JOINTS BETWEEN (1) AND (2).

T = L/5 SPAN LENGTH

U = L/4 SPAN LENGTH

FOR ANY DEVIATION FROM THE ABOVE THE CONTRACTOR SHALL SUBMIT A DIAGRAM TO THE ENGINEER.

Notes:
Elevations are figured radially from the R-17 or 5-5 line at 10' intervals.
Elevations do not include camber.

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

BRIDGE DEPARTMENT		
DESIGN SECTION 2		
Section Supervisor M.J. Jurkovich		
DESIGN	By D.H. Tsou	7/61
	Checked D.A. Erickson	8/61
DETAILS	By T.S. Hsieh	7/61
	Checked H.B. Kaufman	8/61
QUANTITIES	By Karlsberg	7/61
	Checked J.F. Espinosa	8/61

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ROUTE 99 OFF-RAMP O.C.

GRID OF DECK ELEVATIONS

SCALE 1"=20'	BRIDGE 42-818	FILE	DRAWING C-42218-2

Disregard prints bearing earlier numbers → PREL. DRAWING No. P-42218-18 (4/5/61) (5/61) (5/61)

346

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-11-62 SIGNATURE [illegible] TITLE [illegible]

SCALE 1"= 50' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"= 50'
SCALE 1"= 20' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"= 20'
SCALE 1"= 10' or 1"= 100' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"= 10' or 1"= 100'
SCALE 1"= 40' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"= 40'

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VI | Fre | 99

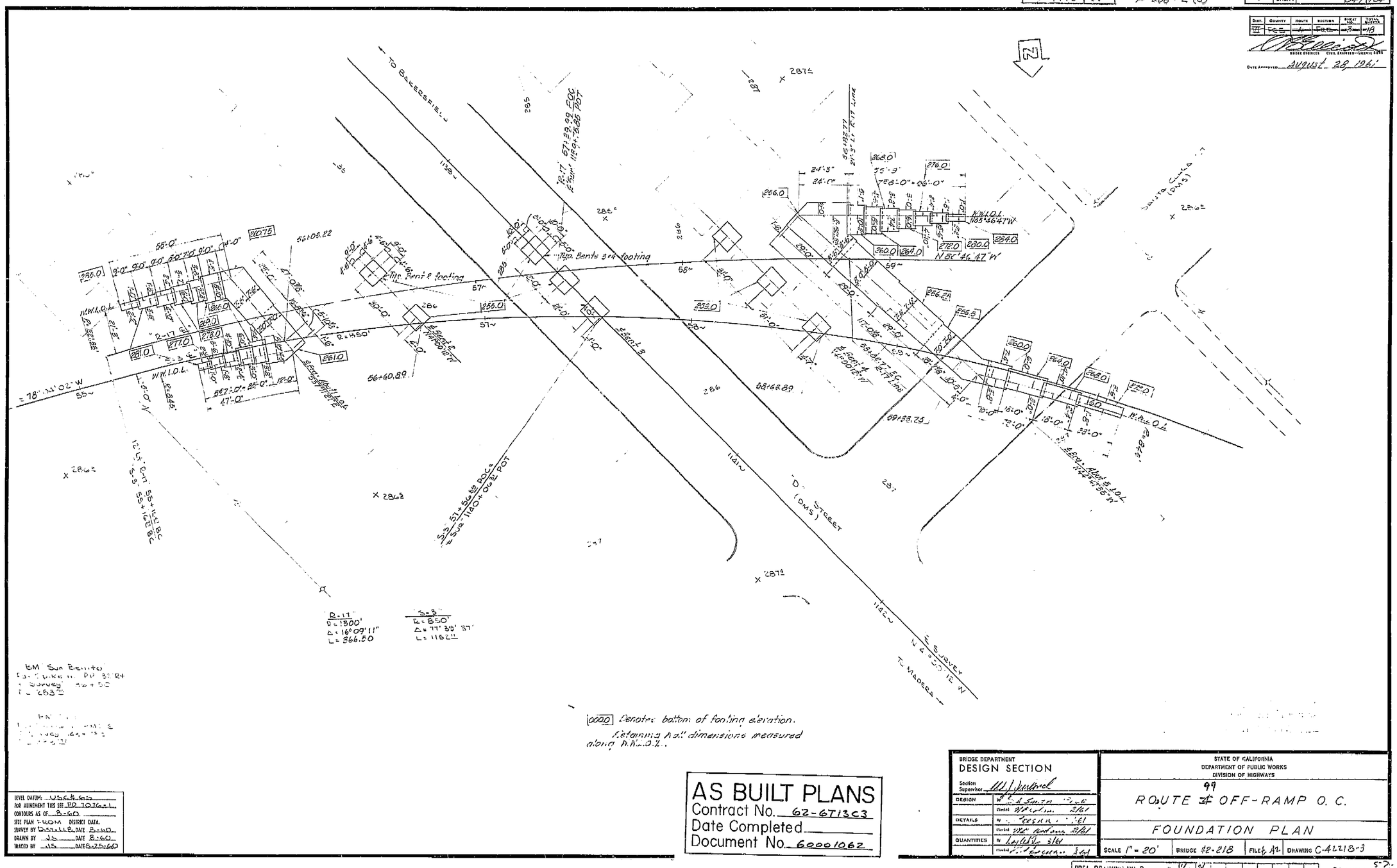
U-006-2 (6)
F-006-2 (5)

FED. ROAD DIV. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.		347	424

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	41	Fre-99	347	418

BRIDGE ENGINEER — CIVIL ENGINEER—LICENSE 5285

DATE APPROVED AUGUST 28, 1961


TO BAKERSFIELD
"D" STREET (DMS)
Santa Cruz (DMS)
Tile Bents & footing
Tile Bent & footing
Bent 3
Bent 4
Bent 5
Bent 6
Bent 7
Bent 8
Bent 9
Bent 10
Abut 11
Abut 0
Abut 1
Abut 2
Abut 3
Abut 4
Abut 5
Abut 6
Abut 7
Abut 8
Abut 9
Abut 10
Abut 11
Abut 0
N 55° 46' 47" W
N 78° 14' 02" W
N 11° 13' 58" E
N 78° 14' 02" W
N 55° 46' 47

California Department of Transportation
Division of Maintenance

Structure Maintenance and Investigations

BRIDGE

INSPECTION

RECORDS

INFORMATION

SYSTEM

The requested documents have been generated by BIRIS.

These documents are the property of the California Department of Transportation and should be handled in accordance with Deputy Directive 55 and the State Administrative Manual.

Records for “Confidential” bridges may only be released outside the Department of Transportation upon execution of a confidentiality agreement.

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Caltrans Metric

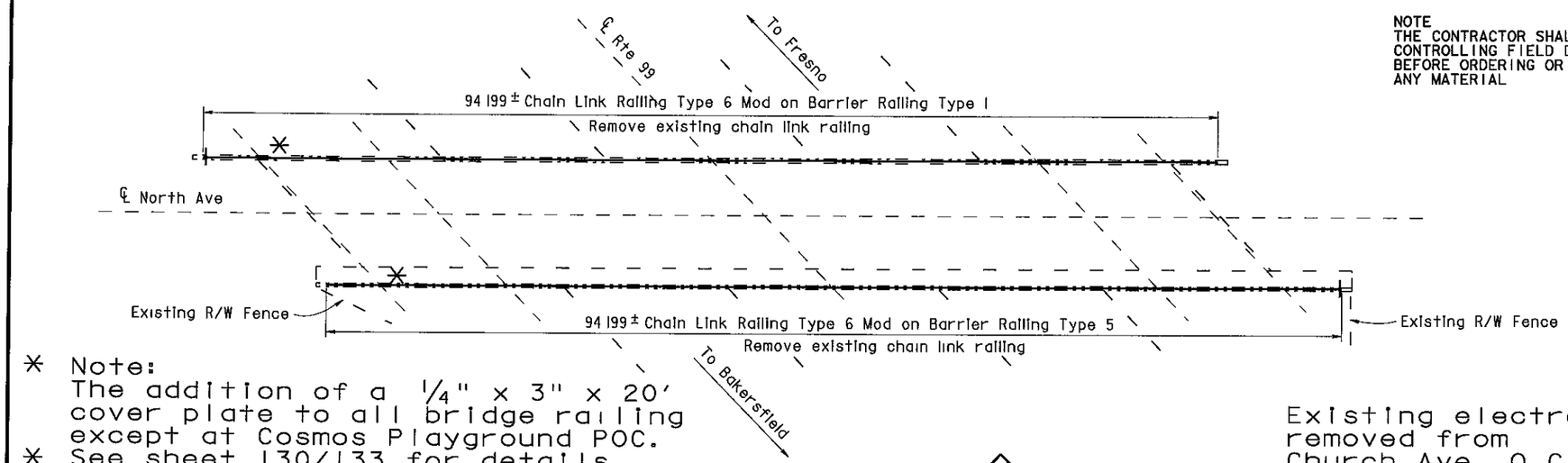
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	123	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DIOSDADO ACOBA
No 52003
Exp 12-31-02
CIVIL
STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet



* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

NORTH AVENUE OC

Br No 42-0210, Fre, KP 27 8
1 250

Existing electroliers removed from Church Ave. O.C.

NOTES

— — Indicates existing

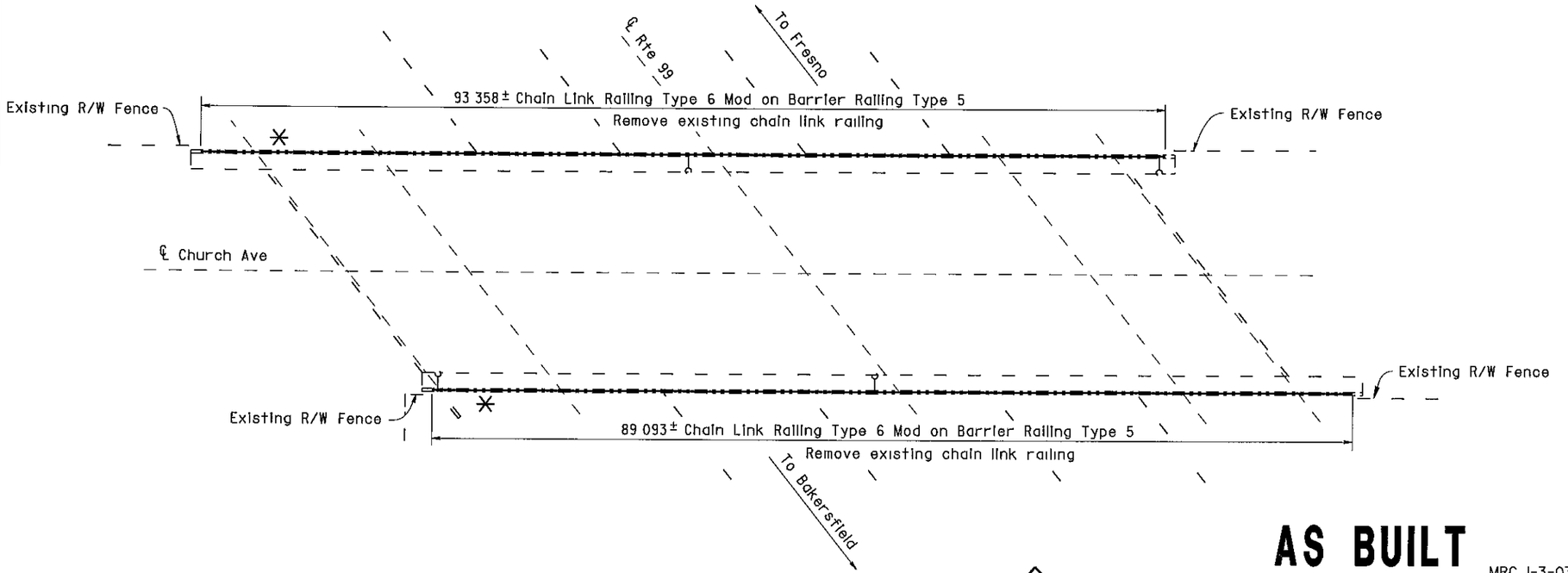
℄ Indicates approximate location of existing electrolier (To remain)

Indicates approximate location of remove and reinstall sign on new post

Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details

INDEX TO PLANS

SHEET NO	TITLE
1	GENERAL PLAN NO 1
2	GENERAL PLAN NO 2
3	GENERAL PLAN NO 3
4	GENERAL PLAN NO 4
5	GENERAL PLAN NO 5
6	GENERAL PLAN NO 6
7	GENERAL PLAN NO 7
8	CHAIN LINK RAILING TYPE 6 MOD NO 1
9	CHAIN LINK RAILING TYPE 6 MOD NO 2
10	CHAIN LINK RAILING TYPE 6 MOD NO 3
11	CHAIN LINK RAILING TYPE 3 MOD



CHURCH AVENUE OC

Br No 42-0214, Fre, KP 30 9
1 250

AS BUILT MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

NORTH AVENUE OC 42-0210
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION A	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	189 m

CHURCH AVENUE OC 42-0214
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION B	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	183 m

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED		BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00	LAYOUT	K Endow	4/00	D Acoba	4/00
DETAILS	K Endow	4/00	F Tannous	5/00				PLANS AND SPECS COMPARED	
QUANTITIES	D Acoba	5/00	F Tannous	5/00	SPECIFICATIONS	J Maroney	9/00	J Maroney	9/00

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 1

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 5/15/00 7/17/00 9/26/00 10/3/00

SHEET 1 OF 11

FILE -> nagpl.dgn

USERNAME -> mgarson DATE PLOTTED -> 02 JAN 2003 TIME PLOTTED -> 16:55

ClibPDF - www.fastio.com

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	124	133

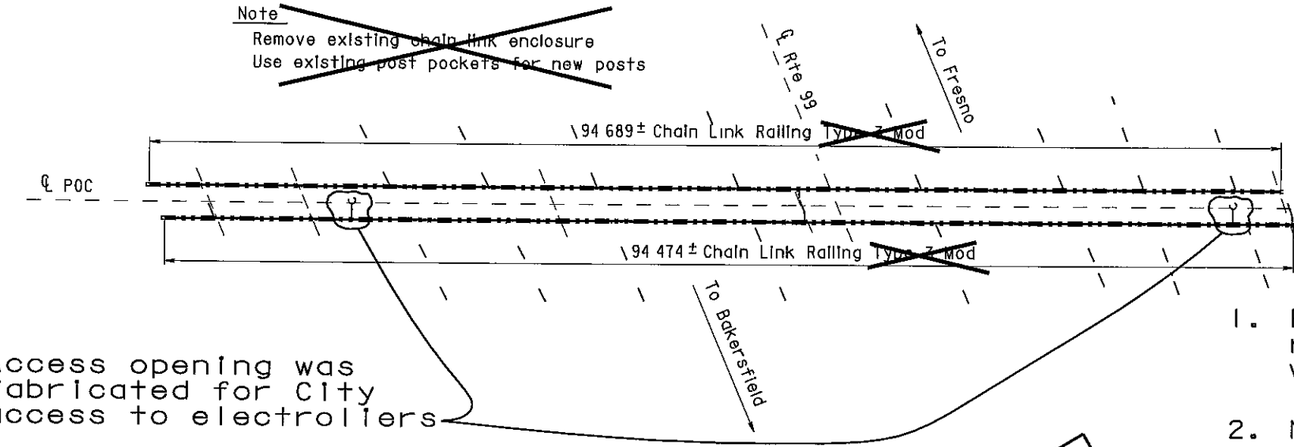
10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

Note
Remove existing chain link enclosure
Use existing post pockets for new posts



COSMOS PLAYGROUND POC

Br No 42-0215, Fre, KP 31 2
1 250

1. Existing chain link railing remained and was painted.
2. New 1" mesh was installed and replaced the old 2" mesh.
3. Existing electroliers remained.

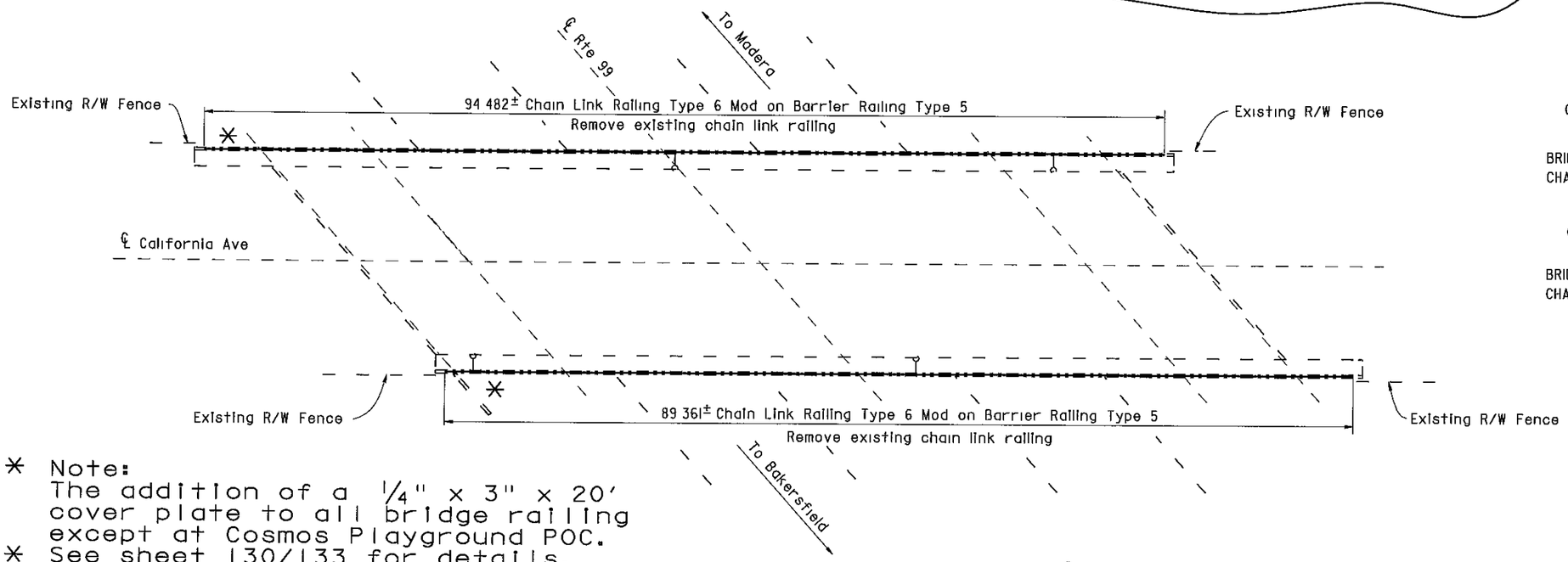
NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

NOTES

— — Indicates existing

℄ Indicates approximate location of existing electroliter (To remain)

Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details



COSMOS PLAYGROUND POC 42-0215
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION C	LUMP SUM
CHAIN LINK RAILING (TYPE 3 MODIFIED)	209 m

CALIFORNIA AVENUE OC 42-0217
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION D	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	184 m

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

CALIFORNIA AVENUE OC

Br No 42-0217, Fre, KP 32 0
1 250

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borguez
CONTRACT NO 06-440104
DATE 11-14-02

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00
DETAILS	K Endow	4/00	F Tannous	5/00
QUANTITIES	D Acoba	5/00	F Tannous	5/00
LAYOUT	K Endow	4/00	D Acoba	4/00
SPECIFICATIONS	J Maroney	9/00	J Maroney (PLANS AND SPECS COMPARED)	9/00

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

CU 06015
EA 440101

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 2

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/12/00 | 9/26/00 | 10/3/00

SHEET 2 OF 11

FILE -> nagp2.dgn

USERNAME -> morrison DATE PLOTTED -> 03 JAN 2003 TIME PLOTTED -> 08:15

ClibPDF - www.fastio.com

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	99	23 3/50 7	125	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

VENTURA STREET OC 42-0158K
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION E	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	78 m

VENTURA STREET OC 42-0158E
QUANTITIES

BRIDGE REMOVAL (PORTION) LOCATION F	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	122 m

VENTURA STREET OC 42-0158S
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION G	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	74 m

NOTES

— — Indicates existing

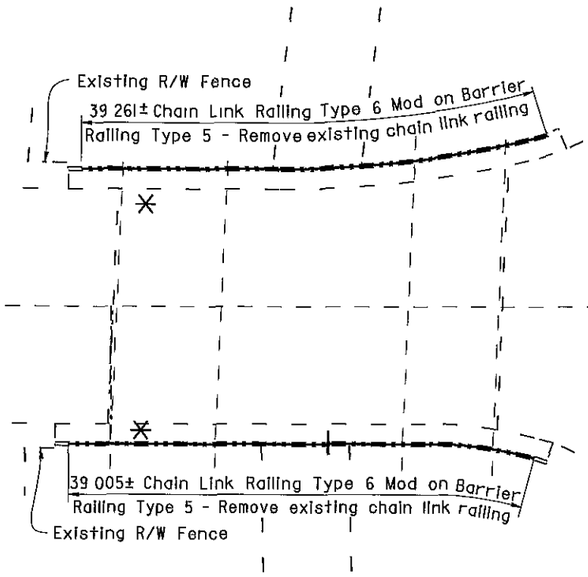
℄ Indicates approximate location of existing electroller (To remain)

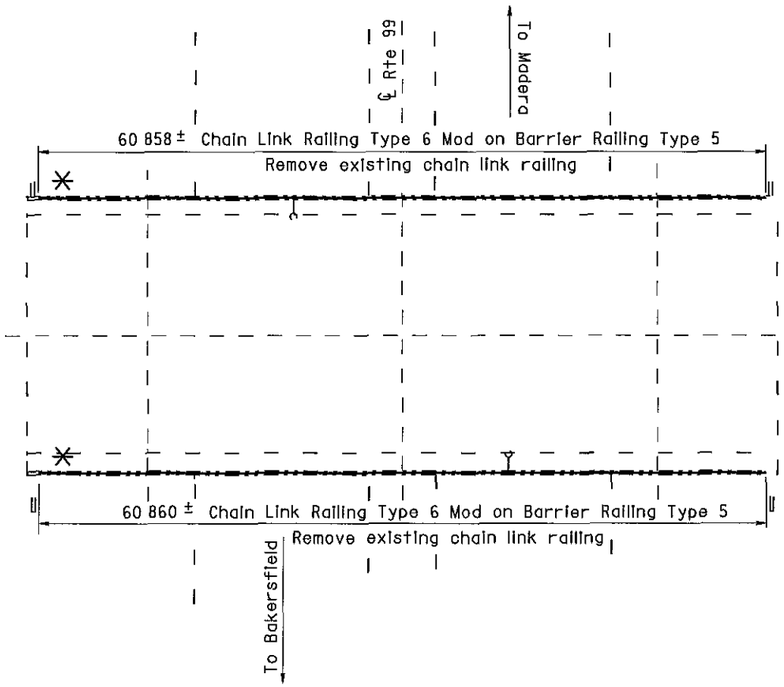
Indicates approximate location of remove and reinstall sign on new post

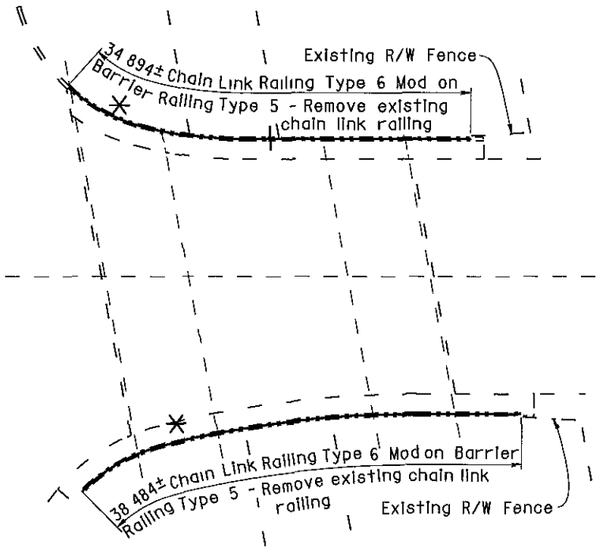
Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.







Br No 42-0158K

Bridges 42-0158K and 42-0158S were both painted with Color No. 20109 - "Deep red".

Br No. 42-0158E

VENTURA STREET OC

Fre, KP 32 5
I 250

AS BUILT
MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

Br No 42-0158S

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

	BY		CHECKED			BY		CHECKED			
DESIGN	D Acoba	4/00	F Tannous	5/00	LAYOUT	K Endow	4/00	D Acoba	4/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE
DETAILS	K Endow	4/00	F Tannous	5/00				PLANS AND SPECS COMPARED			
QUANTITIES	D Acoba	5/00	F Tannous	5/00	SPECIFICATIONS	J Maroney	9/00	J Maroney	9/00		

Michael J Lee 10/3/00
DESIGN ENGINEER

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE => nagp3.dgn

BRIDGE NO Various
KILOMETER POST Varies

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/17/00 | 9/28/00 | 10/1/00

ROUTE 99 BRIDGES
GENERAL PLAN NO. 3

SHEET 3 OF 11

USERNAME => mcarlson DATE PLOTTED => 03 JAN 2003 TIME PLOTTED => 08 32

ClibPDF - www.fastio.com

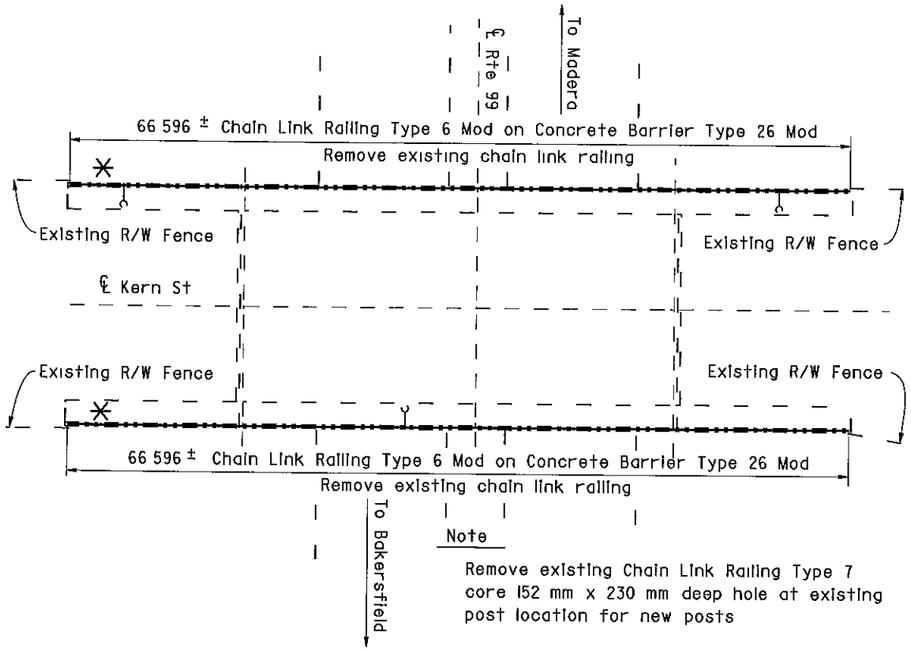
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06	Fre	99	23 3/50 7	126	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet



Note

Remove existing Chain Link Railing Type 7 core 152 mm x 230 mm deep hole at existing post location for new posts

KERN STREET OC

Br No 42-0159, Fre, KP 33 0
1 250

KERN STREET OC 42-0159
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION H	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	133 m

TULARE STREET OC 42-0169
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION I	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	166 m

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

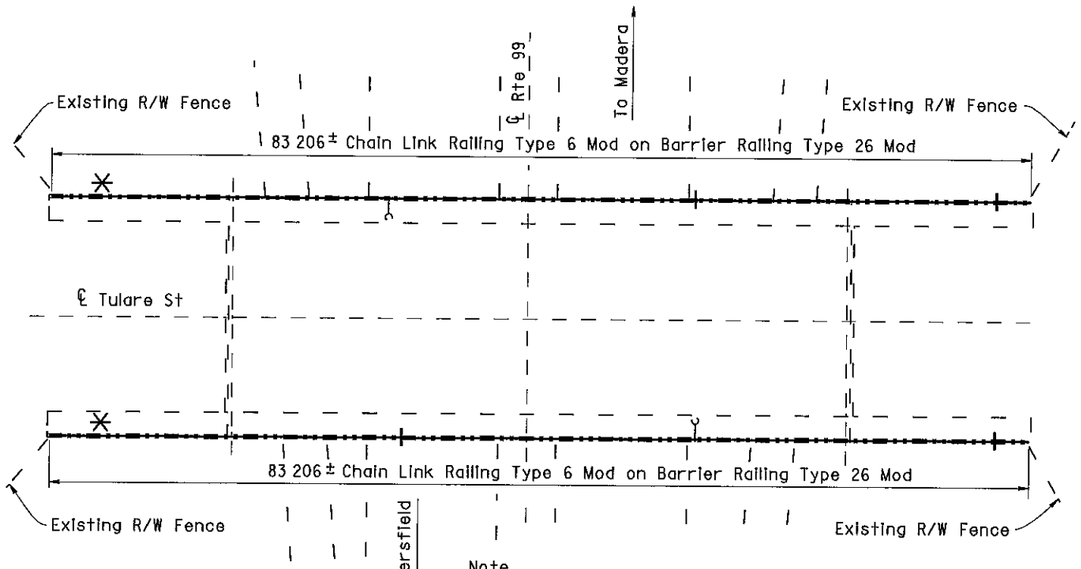
NOTES

— — Indicates existing

℄ Indicates approximate location of existing electrolier (To remain)

Indicates approximate location of remove and reinstall sign on new post

Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details



Note

Remove existing Chain Link Railing Type 7 core 152 mm x 230 mm deep hole at existing post location for new posts

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

TULARE STREET OC

Br No 42-0169, Fre, KP 33 2
1 250

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borguez
CONTRACT NO 06-440104
DATE 11-14-02

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00 DESIGN ENGINEER	DESIGN	BY D Acoba 4/00	CHECKED F Tannous 5/00	LAYOUT	BY K Endow 4/00	CHECKED D Acoba 4/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE	BRIDGE NO Various
	DETAILS	BY K Endow 4/00	CHECKED F Tannous 5/00						KILOMETER POST Varies
	QUANTITIES	BY D Acoba 5/00	CHECKED F Tannous 5/00	SPECIFICATIONS	BY J Maroney 9/00	PLANS AND SPECS COMPARED J Maroney 9/00		CU 06015 EA 440101	DISREGARD PRINTS BEARING EARLIER REVISION DATES

ROUTE 99 BRIDGES
GENERAL PLAN NO. 4

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 7/17/00 9/26/00 10/3/00

SHEET 4 OF 11

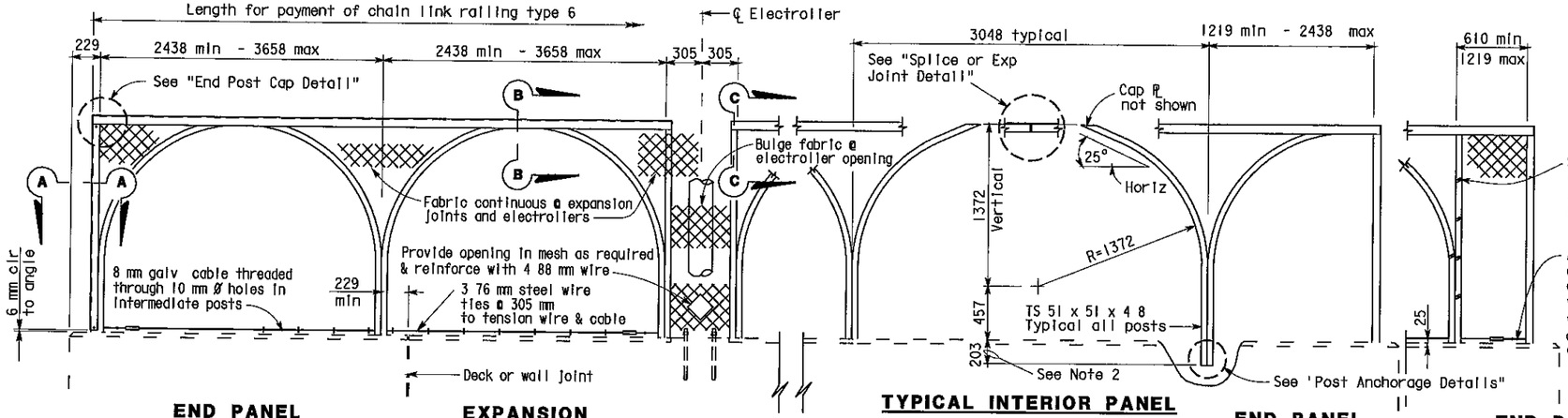
STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

FILE > nagp4 dgn

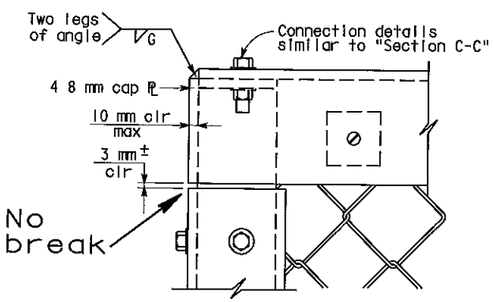
USERNAME > mcarlson DATE PLOTTED > 03-JAN-2003 TIME PLOTTED => 08:38

ClibPDF - www.fastio.com

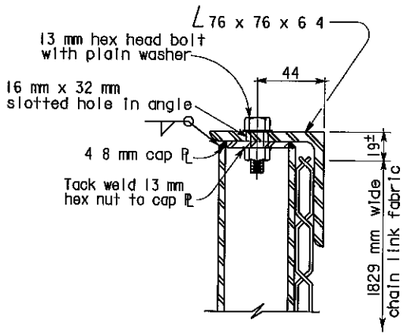


END PANEL 2438 mm - 3658 mm | **EXPANSION PANEL AT ELECTROLIER** | **TYPICAL INTERIOR PANEL** | **END PANEL 1219 mm - 2438 mm** | **END PANEL 610 mm - 1219 mm**

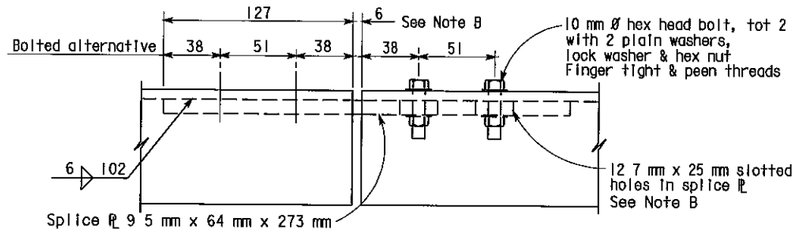
ELEVATION



END POST CAP DETAIL

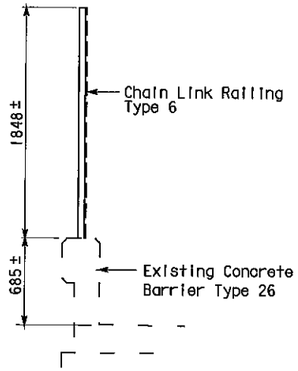


SECTION C-C

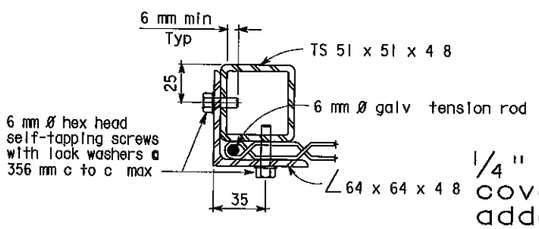


SPLICE OR EXPANSION JOINT DETAIL

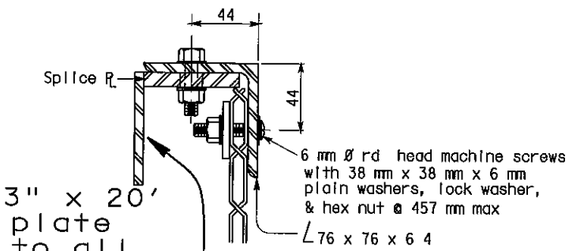
Note B Expansion joint same dimension as expansion joint in deck or wall Increase slotted hole length and splice ℙ length correspondingly



TYPICAL SECTIONS



SECTION A-A



SECTION B-B

NOTES

1. Horizontal angle shall be continuous over not less than two intermediate posts except that a shorter length is permitted at expansion joints, electrollers and other rail discontinuities
2. One post may be embedded 152 mm minimum to accomodate grade changes, otherwise fabricate post lengths as required
3. Curved posts may be rotated in plan within its post pocket to accomodate curved horizontal alignment
4. Straight posts and straight portions of curved posts shall be installed normal to bridge profile grade
5. Top horizontal angle shall be parallel to bridge profile grade and shall be shop bent to fit horizontal curves
6. When railing is on slope, fabric shall be placed parallel to slope
7. Alternative details may be submitted by Contractor for Engineer's approval
8. Railing assembly except chain link fabric shall be galvanized after fabrication
9. For details and reinforcement not shown, see "Concrete Barrier Type 25 or 26" sheet
10. See Bridge Plans for limits of Chain Link Railing Type 6 Mod
11. Provide thimbles at all cable loops
12. Chain link fabric to be 1829 mm wide with 25 mm mesh and with knuckled selvage top and bottom
13. When railing is placed on a horizontal alignment with a radius of 45 72 m or less, thread 8 mm cable through 10 mm Ø welded eye rods embedded 102 mm into the top of the concrete parapet and equally spaced to limit the middle ordinate distance between the 8 mm cable and the curve to 25 mm max
14. Splices and expansion joints shall be located at ℄ panel
15. Holes in posts for 8 mm cable and its anchorage may be field drilled and painted with zinc rich paint

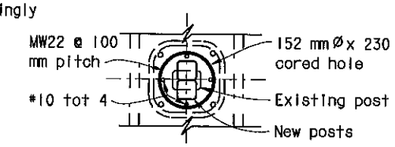
AS BUILT

MRC 1-3-03

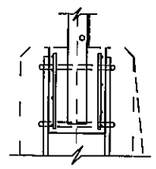
CORRECTIONS BY John Borquez

CONTRACT NO 06-440104

DATE 11-14-02



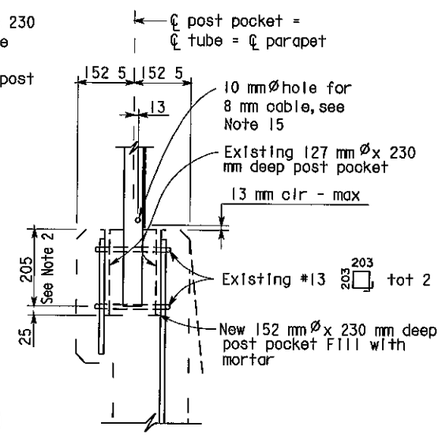
PLAN



SECTION

Detail omitted

POCKET DETAILS



POST ANCHORAGE DETAIL

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	130	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

DESIGN	BY D Acoba	5/00	CHECKED F Tannous	5/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY K Endow	5/00	CHECKED F Tannous	5/00	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE
QUANTITIES	BY D Acoba	5/00	CHECKED F Tannous	5/00	BRIDGE NO Various; KILOMETER POST Varies

ROUTE 99 BRIDGES

CHAIN LINK RAILING TYPE 6 MOD NO. 1

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV 10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE > nat61.dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/17/00 | 9/26/00 | 10/3/00

SHEET 8 OF 11

USERNAME mcarlson DATE PLOTTED > 03-JAN-2003 TIME PLOTTED => 12:11

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	129	133

10/3/00
REGISTERED CIVIL ENGINEER

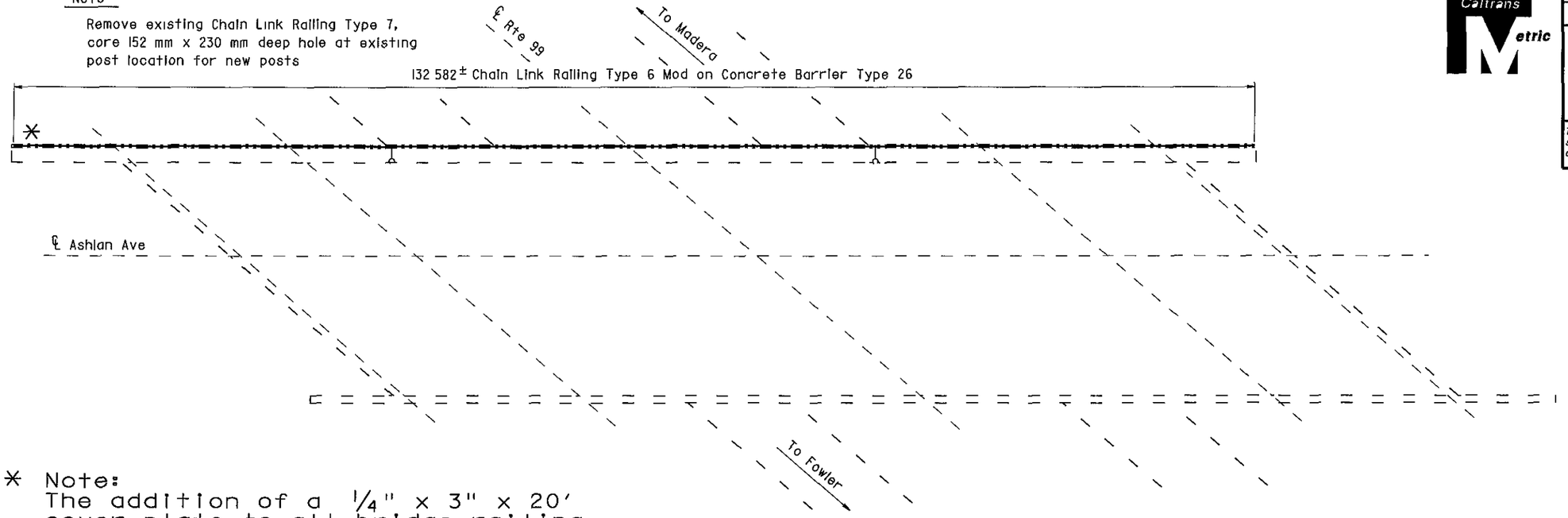
11-13-00
PLANS APPROVAL DATE

DIOSDADO ACOBA No 52003 Exp 12-31-02 CIVIL STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

Note

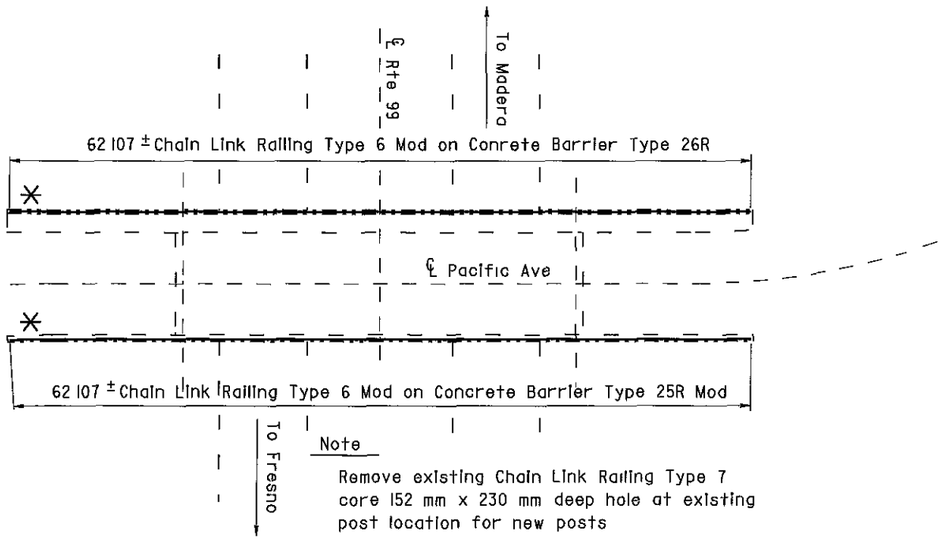
Remove existing Chain Link Railing Type 7, core 152 mm x 230 mm deep hole at existing post location for new posts



* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

ASHLAN AVENUE OC

Br No 42-0140, Fre, KP 42 8
1 250



Note

Remove existing Chain Link Railing Type 7 core 152 mm x 230 mm deep hole at existing post location for new posts

PACIFIC AVENUE OC

Br No 42-0189, Fre, KP 36 0
1 250

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

NOTES

— — Indicates existing

℄ ↓ Indicates approximate location of existing electrolier (To remain)

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

ASHLAN AVENUE OC 42-0140
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION O	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	133 m

PACIFIC AVENUE OC 42-0189
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION P	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	124 m

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

DESIGN	BY D Acoba 4/00	CHECKED F Tannous 5/00	LAYOUT	BY K Endow 4/00	CHECKED D Acoba 4/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE
DETAILS	BY K Endow 4/00	CHECKED F Tannous 5/00					
QUANTITIES	BY D Acoba 5/00	CHECKED F Tannous 5/00	SPECIFICATIONS	BY J Maroney 9/00	PLANS AND SPECS COMPARED J Maroney 9/00		

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 7

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE => nagp7.dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 5/15/00 7/17/00 9/26/00 10/3/00

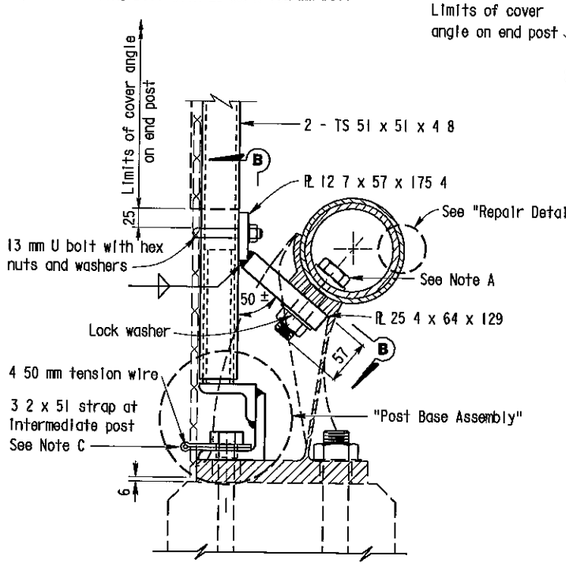
SHEET 7 OF 11

USERNAME -> mgarrison DATE PLOTTED => 03 JAN 2003 TIME PLOTTED => 11:45

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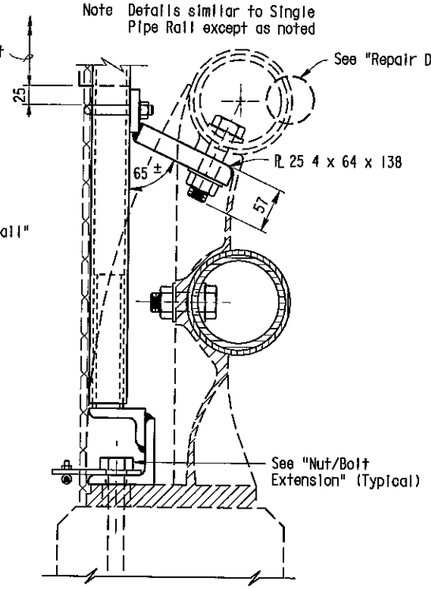
Note A

Replace existing bolt with 25 mm x 102 mm bolt



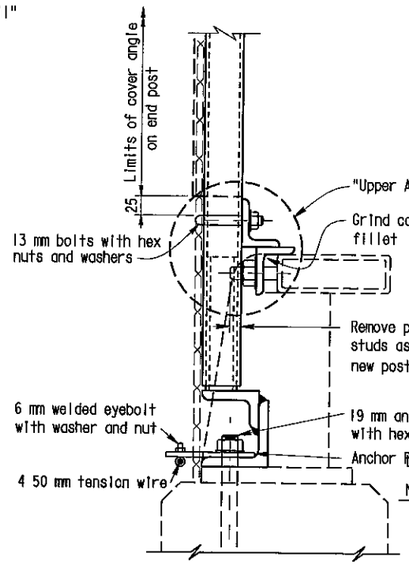
SECTION A-A (SINGLE PIPE RAIL)

Note Details similar to Single Pipe Rail except as noted



SECTION A-A (DOUBLE PIPE RAIL)

Note Details for Type 9 and Type 11 Metal Railing are similar, Type 11 not shown



SECTION A-A (TUBE RAIL)

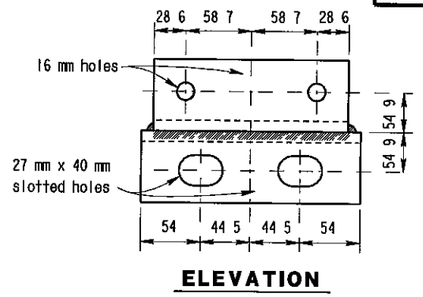
NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Note B

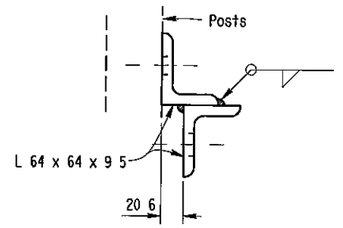
Paint all cut and ground surfaces with zinc rich paint

Note C

At intermediate posts only contractor has an alternate of 3 mm x 51 mm strap or 6 4 mm anchor plate with eyebolt



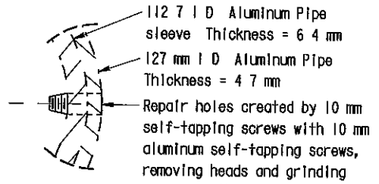
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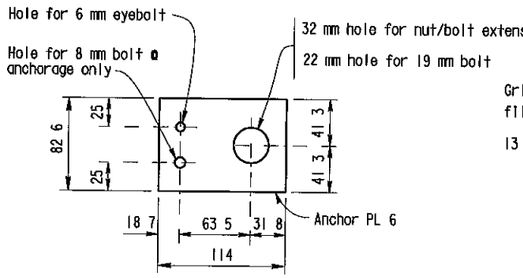
SIDE VIEW

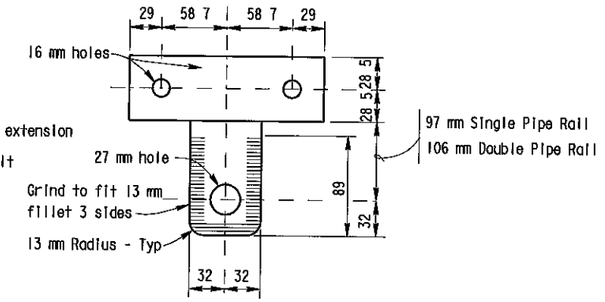
UPPER ANGLE BRACKET

ATTACHMENT DETAILS



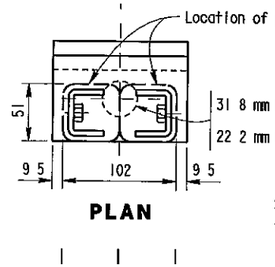
REPAIR DETAIL



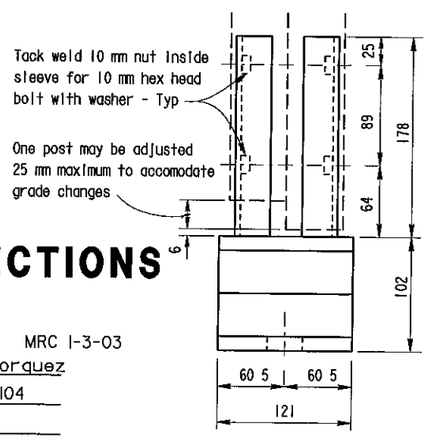


VIEW B-B

(Developed view of upper bracket)

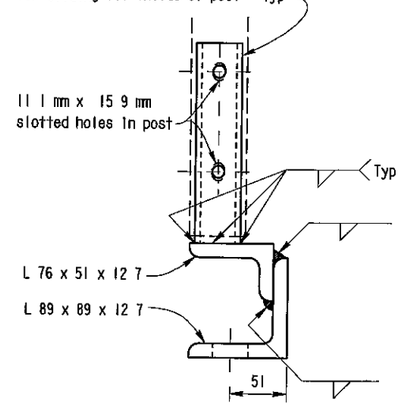


PLAN



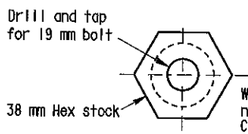
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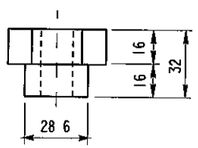
Sleeve formed from PL 4 7, bent thus ⊔ for sliding fit inside of post - Typ



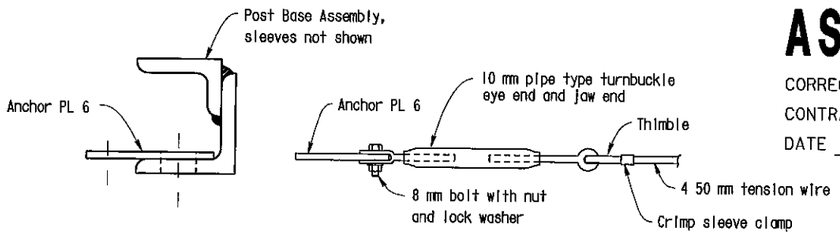
SIDE VIEW

POST BASE ASSEMBLY





NUT/BOLT EXTENSION



BOTTOM ANCHORAGE DETAIL

NO CORRECTIONS AS BUILT

MRC 1-3-03

CORRECTIONS BY John Borquez

CONTRACT NO 06-440104

DATE 11-14-02

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	132	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DIOSDADO ACOBA No 52003 Exp 12-31 02 CIVIL STATE OF CALIFORNIA

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DESIGN	BY D Acoba	5/00	CHECKED F Tannous	5/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY K Endow	5/00	CHECKED F Tannous	5/00	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE
QUANTITIES	BY D Acoba	5/00	CHECKED F Tannous	5/00	CU 06015 EA 440101

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
CHAIN LINK RAILING TYPE 6 MOD NO. 3

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

FILE > nat63 dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

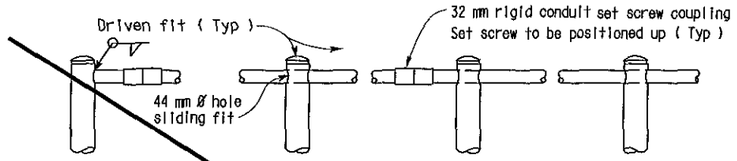
REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 7/17/00 9/26/00 10/3/00

SHEET 10 OF 11

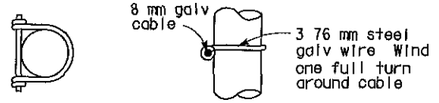
USERNAME > mgarlson DATE PLOTTED > 03 JAN 2003 TIME PLOTTED > 13:26

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RELEASED 6-9-98



END POST **INTERMEDIATE POSTS**



PLAN **ELEVATION**

DETAIL H

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
06	Fre	99	23 3/50 7	133	133

10-3-00
REGISTERED ENGINEER - CIVIL

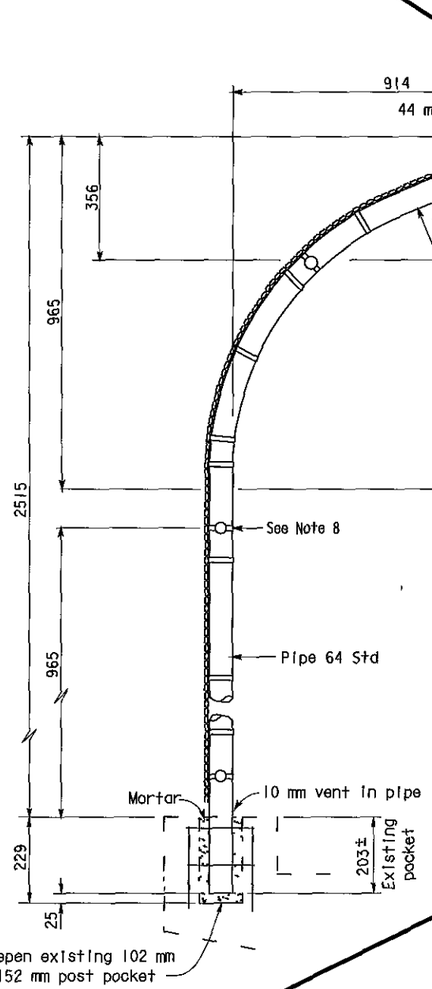
11-13-00
PLANS APPROVAL DATE

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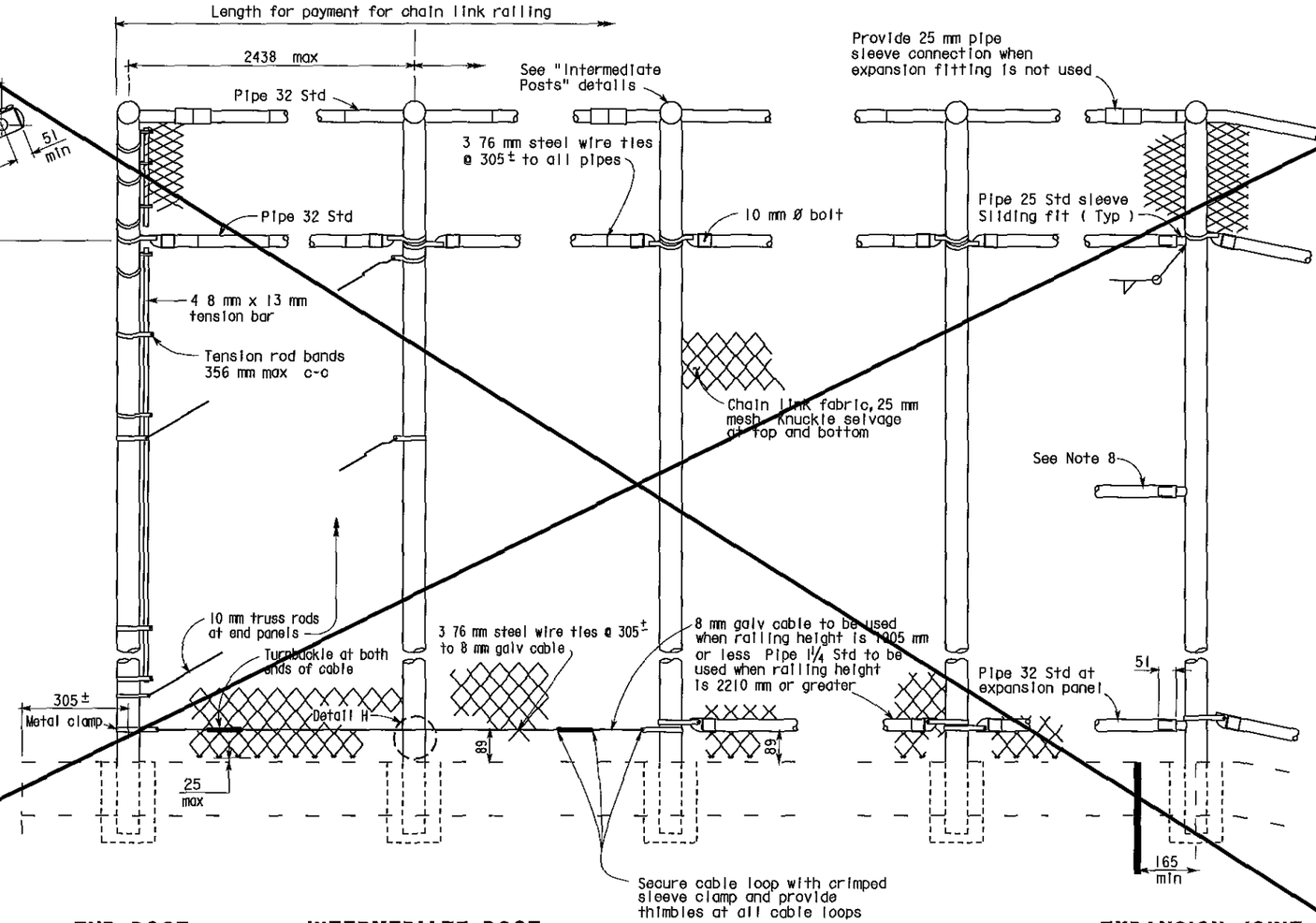
REGISTERED PROFESSIONAL ENGINEER
DIOSDADO ACOBA
No 52003
Exp 12 31 02
CIVIL
STATE OF CALIFORNIA

NOTES:

1 Railing assembly except chain link fabric to be galvanized after fabrication
2 Railing shall conform to horizontal and vertical alignment Posts shall be vertical Horizontal pipes shall be bent if radius is 45 72 m or less may be on 2 438 m chords If radius is over 45 72 m
3 Peen all 10 mm Ø bolts
4 When railing is on slope fabric shall parallel to slope
5 Alternative details may be submitted by Contractor for Engineer's approval
6 Additional pipe 32 std required on radius less than 45 72 m



TYPICAL POST DETAIL



END POST **INTERMEDIATE POST** **EXPANSION JOINT**

ELEVATION

Sheet Deleted

No Type 3 Modified Railing was used on this contract

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

SPECIAL DETAIL

NO SCALE
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

STANDARD DRAWING				
FILE NO XS 9 81	DESIGN BY R W BISHOP	CHECKED J HAMAGUCHI	APPROVAL RECOMMENDED BY	
DRAWING DATE Revised	DETAILS BY R YEE	CHECKED J HAMAGUCHI		
	SUBMITTED BY R W BISHOP		DESIGN SUPERVISOR	

DS OSD 2147A (METRIC) (REV 2/25/97)

1 Revised sheet - removed handrailing and electrical details and notes

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

CU 06105
EA 452001

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
CHAIN LINK RAILING TYPE 3 MOD 1

DISREGARD PRINTS BEARING EARLIER REVISION DATES
REVISION DATES (PRELIMINARY STAGE ONLY) 5/30/00 7/17/00 9/28/00 10/3/00

SHEET 11 OF 11

USERNAME > mgarlson
x5981 dgn
XS981 DGN

DATE PLOTTED > 03-JAN-2003 TIME PLOTTED > 13 32

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	127	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

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FRESNO STREET OC 42-0170
QUANTITIES

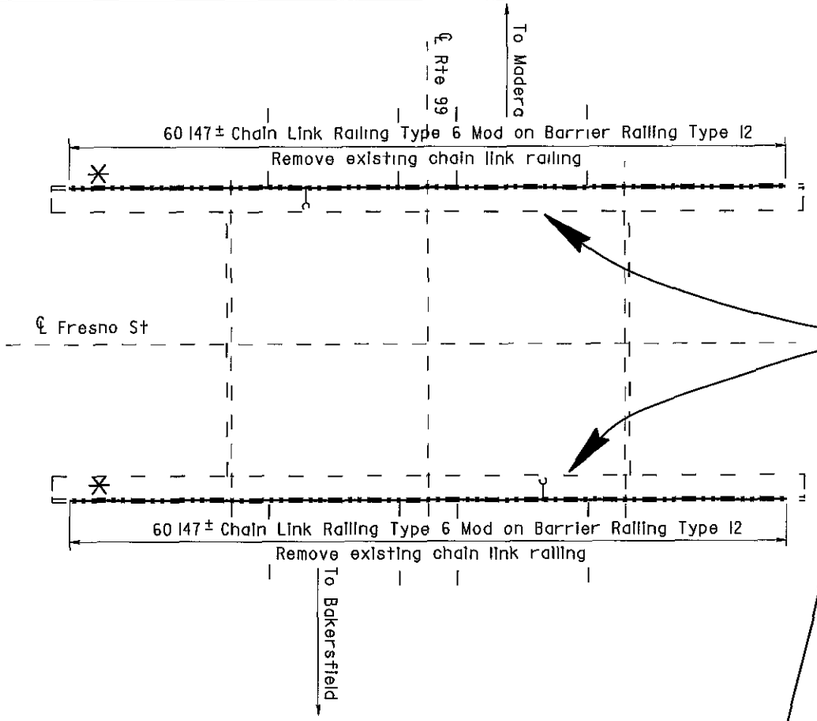
BRIDGE REMOVAL (PORTION), LOCATION J	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	120 m

EL DORADO STREET OC 42-0184
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION K	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	122 m

BELMONT AVENUE OC 42-0186
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION L	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	138 m



Handrail added to Fresno St. and Belmont Ave. OC

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

NOTES

— — Indicates existing

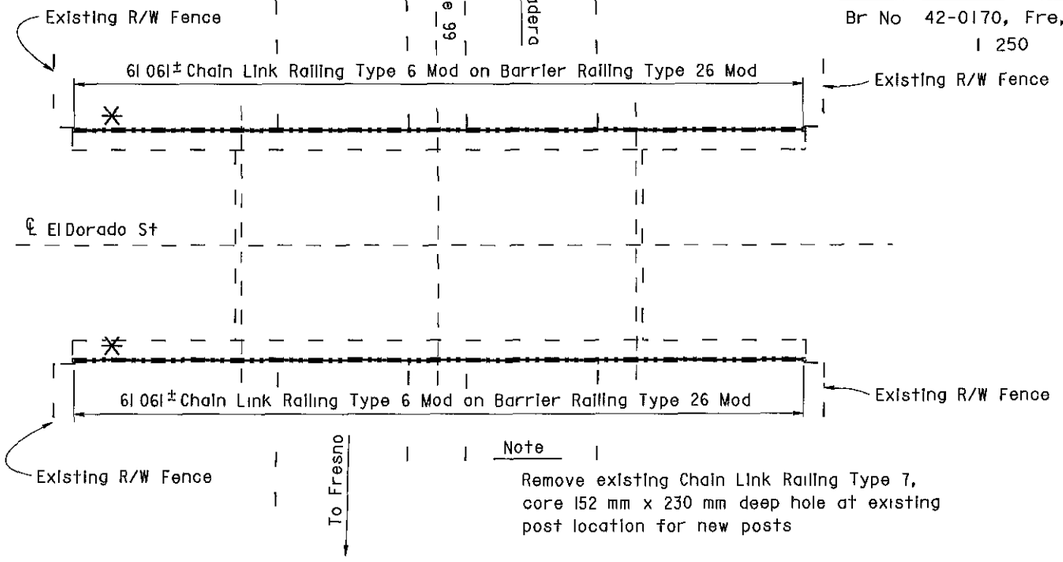
℄ Indicates approximate location of existing electrolier (To remain)

Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

FRESNO STREET OC

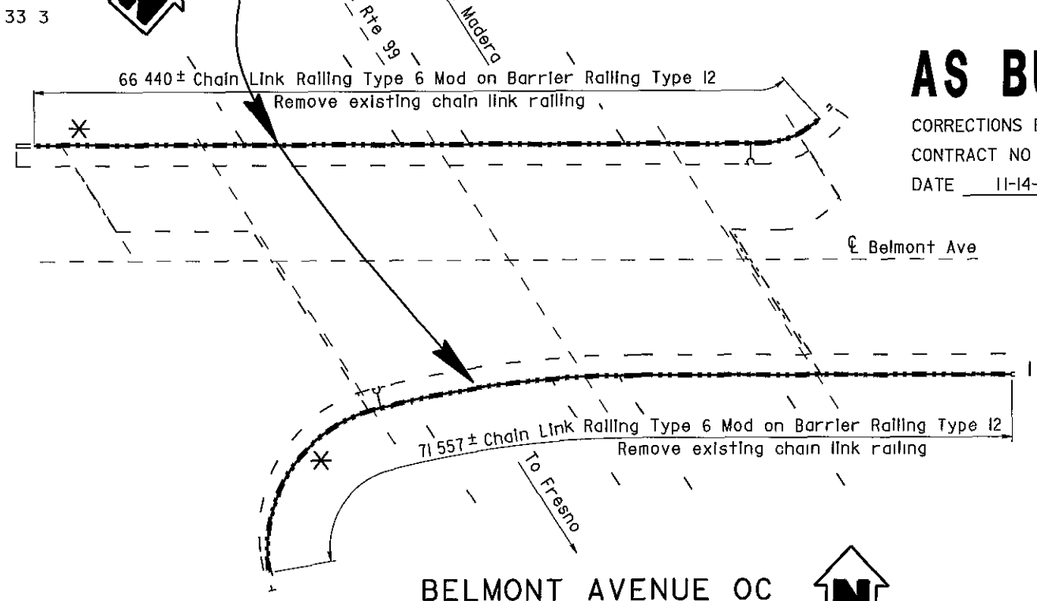
Br No 42-0170, Fre, KP 33 3
1 250



Note
Remove existing Chain Link Railing Type 7, core 152 mm x 230 mm deep hole at existing post location for new posts

EL DORADO STREET OC

Br No 42-0184, Fre, KP 34 6
1 250



BELMONT AVENUE OC

Br No 42-0186, Fre, KP 36 5
1 250

AS BUILT
MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED		LAYOUT	BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00		K Endow	4/00	D Acoba	4/00
DETAILS	K Endow	4/00	F Tannous	5/00				PLANS AND SPECS COMPARED	
QUANTITIES	D Acoba	5/00	F Tannous	5/00	SPECIFICATIONS	J Maroney	9/00	J Maroney	9/00

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

CU 06015
EA 440101

FILE => nogp5.dgn

BRIDGE NO	Various
KILOMETER POST	Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 5

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)									
5/15/00	7/17/00	9/26/00	10/3/00						

SHEET 5 OF 11

USERNAME => marison DATE PLOTTED => 03-JAN 2003 TIME PLOTTED => 06 50

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	128	133

10/3/00
REGISTERED CIVIL ENGINEER

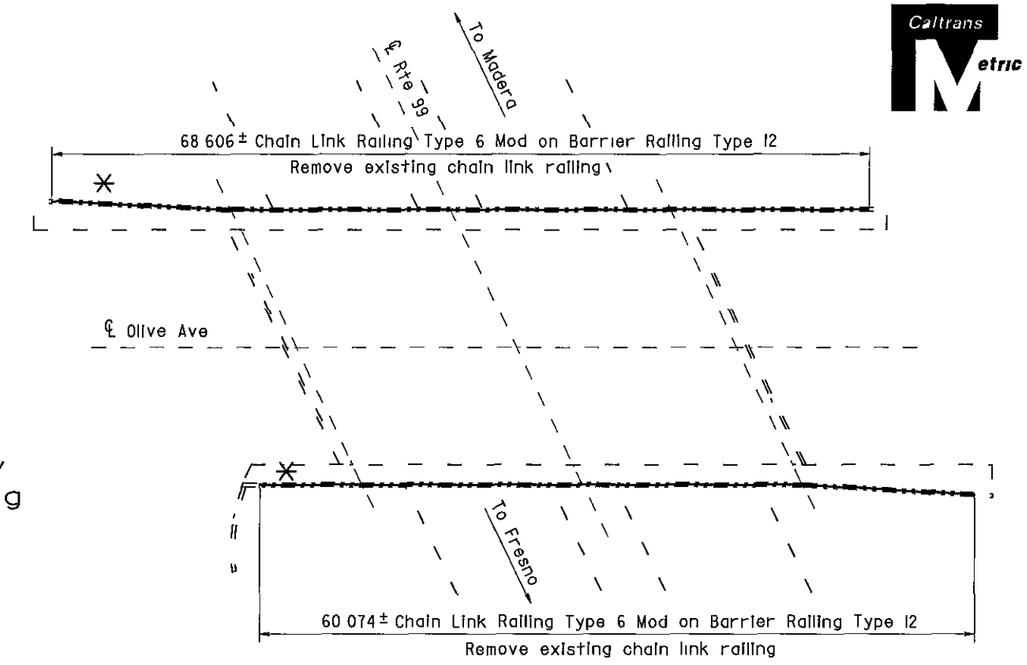
11-13-00
PLANS APPROVAL DATE

DIOSDADO ACOBA No 52003 Exp 12-31 02 CIVIL STATE OF CALIFORNIA REGISTERED PROFESSIONAL ENGINEER

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NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.



OLIVE AVENUE OC

Br No 42-0187, Fre, KP 37 5
1 250

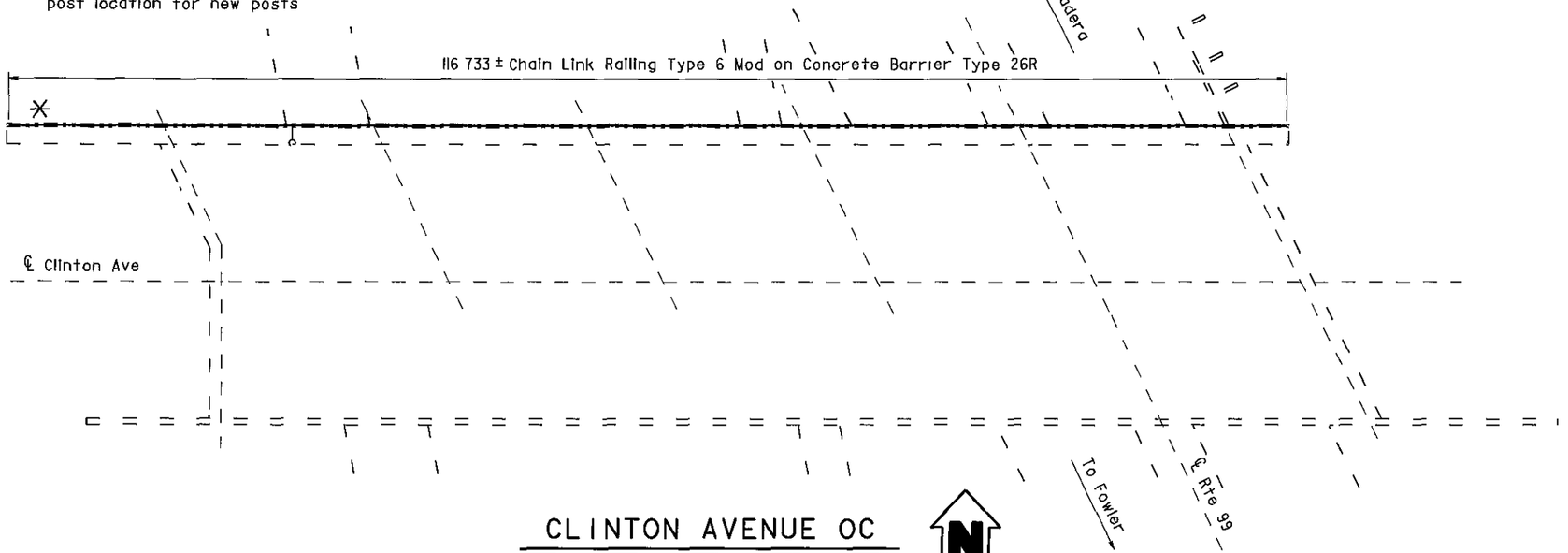
NOTES

— — Indicates existing

℄ Indicates approximate location of existing electrolier (To remain)

Note

Remove existing Chain Link Railing Type 7 core 152 mm x 230 mm deep hole at existing post location for new posts



CLINTON AVENUE OC

Br No 42-0183, Fre, KP 39 3
1 250

OLIVE AVENUE OC 42-0187
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION M	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	129 m

CLINTON AVENUE OC 42-0183
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION N	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	116 m

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED		BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00	LAYOUT	K Endow	4/00	D Acoba 4/00
DETAILS	K Endow	4/00	F Tannous	5/00				
QUANTITIES	D Acoba	5/00	F Tannous	5/00	SPECIFICATIONS	J Maroney	9/00	PLANS AND SPECS COMPARED J Maroney 9/00

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 6

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE => nagp6.dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/17/00 | 9/26/00 | 10/3/00

SHEET 6 OF 11

USERNAME => mcarlson DATE PLOTTED => 03 JAN-2003 TIME PLOTTED => 08 53

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	131	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

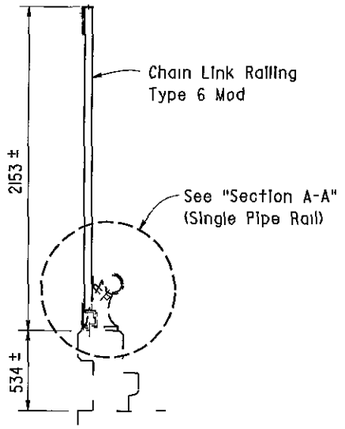
REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

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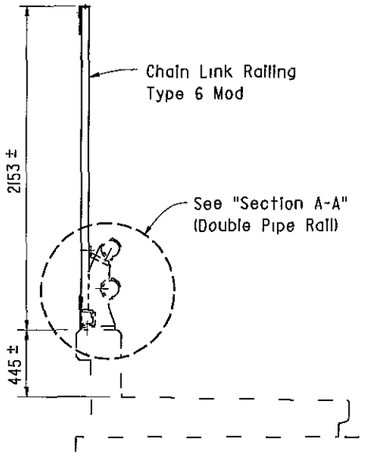
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AS BUILT

MRC 1-3-03

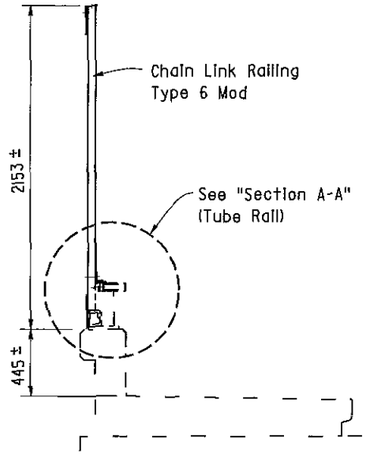
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02



TYPE 1



TYPE 5



TYPE 12

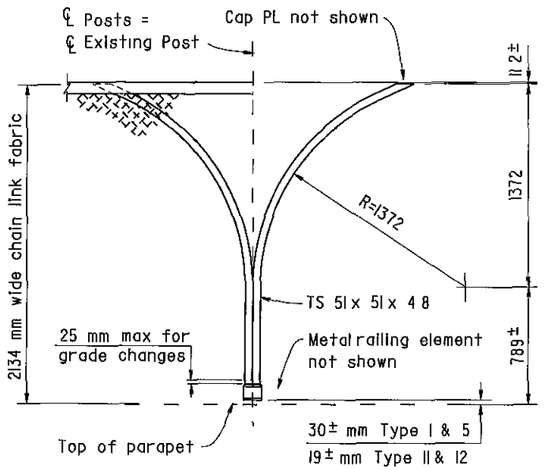
BARRIER RAILING SECTIONS

Existing chain link railing not shown

I 20

TYPE A
- NORTH AVE OC - 2 Locations
- CHURCH AVE OC - 4 Locations
- CALIFORNIA AVE OC - 4 Locations
- VENTURA ST OC - 4 Locations

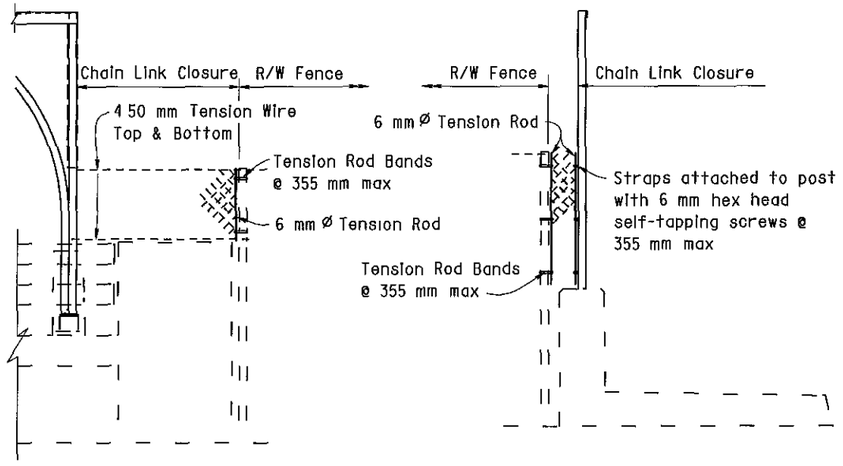
TYPE B
- KERN ST OC - 4 Locations
- TULARE ST OC - 4 Locations
- EL DORADO ST OC - 4 Locations



PART OUTSIDE ELEVATION

Note For details and notes not shown, see "Chain Link Railing Type 6 Mod No 1" sheet

I 10

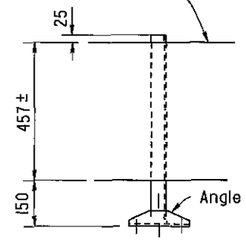


TYPE A TYPE B

R/W FENCE CONNECTION

I 10

Remove existing sign panels and reinstall on new post



TULARE ST OC

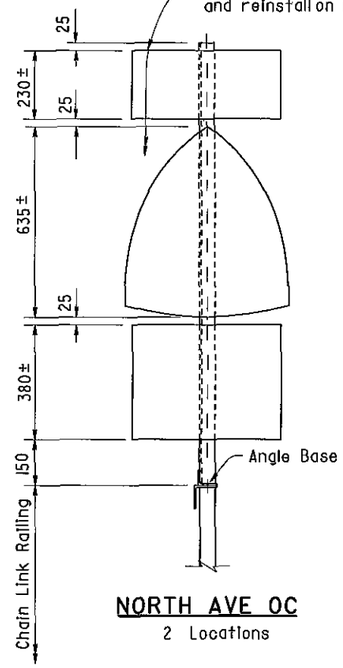
4 Loactions

Note

Reinstall signs at approximately the same location on chain link railing as existing

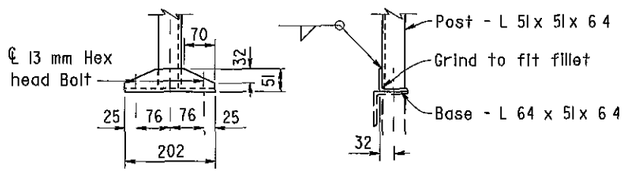
NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Remove existing sign panels and reinstall on new post



NORTH AVE OC

2 Locations



ANGLE BASE

Note

Hot dip galvanize sign post after fabrication
Field drilled holes to be painted with zinc rich paint

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

	BY		CHECKED	
DESIGN	D Acoba	5/00	F Tannous	5/00
DETAILS	K Endow	5/00	F Tannous	5/00
QUANTITIES	D Acoba	5/00	F Tannous	5/00

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
CHAIN LINK RAILING TYPE 6 MOD NO. 2

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE > nat62.dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

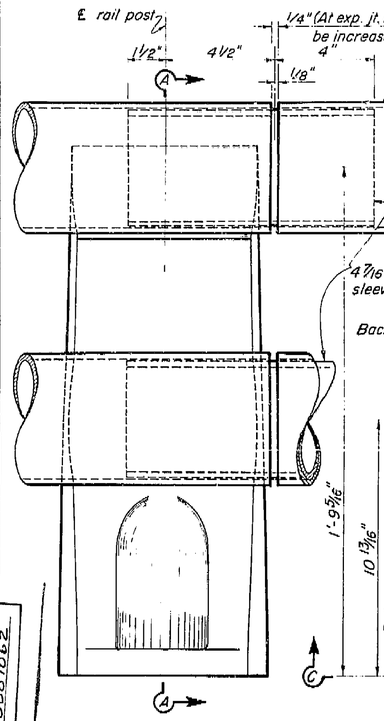
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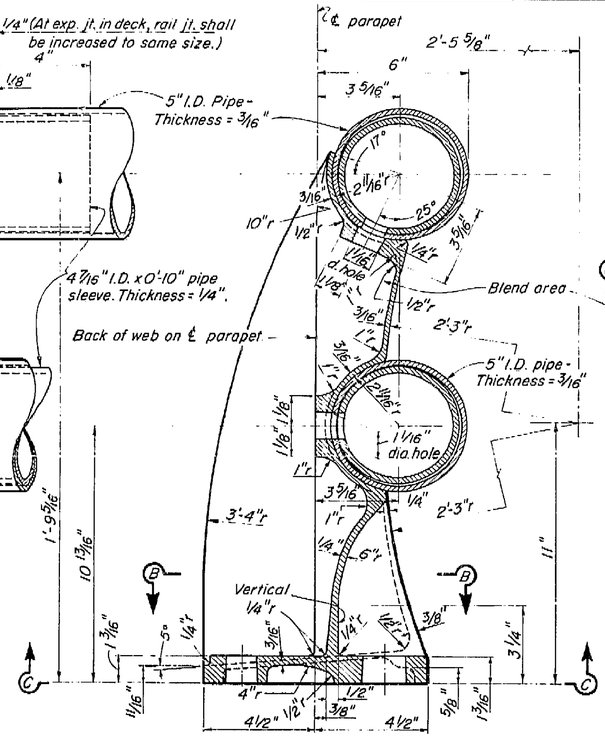
SHEET 9 OF 11

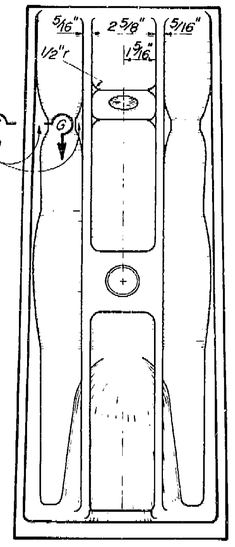
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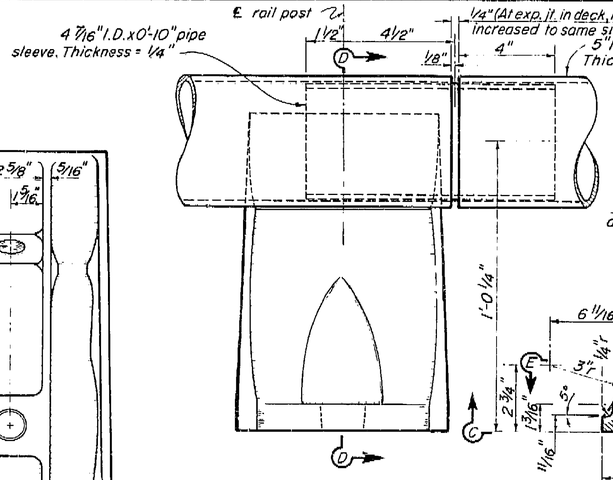
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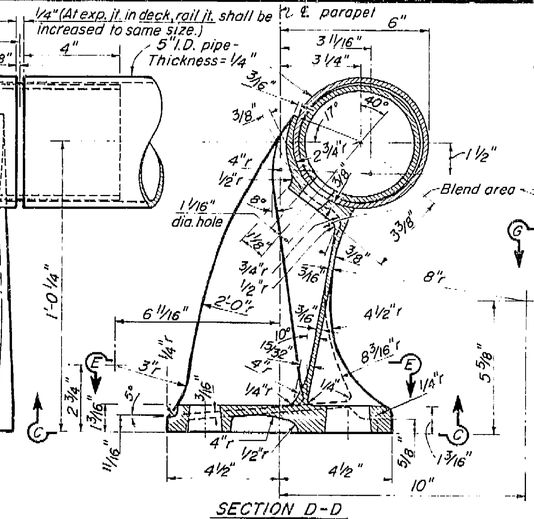
AS BUILT PLANS
Contract No. 62-671363
Date Completed
Document No. 6000062

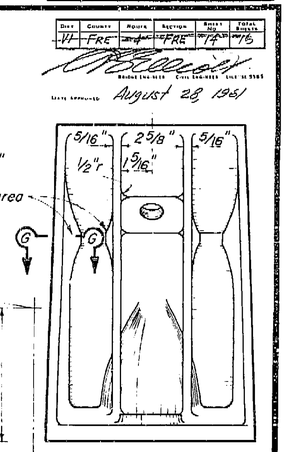




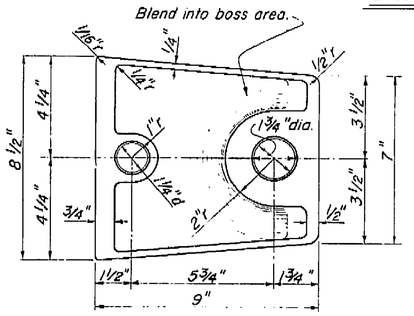


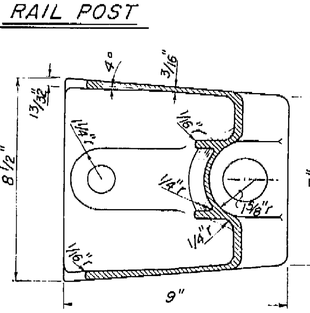


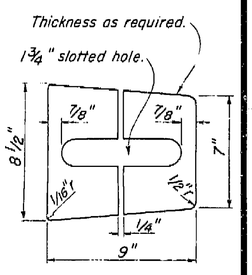


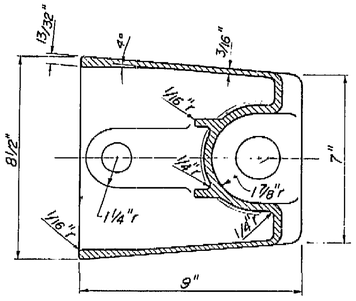


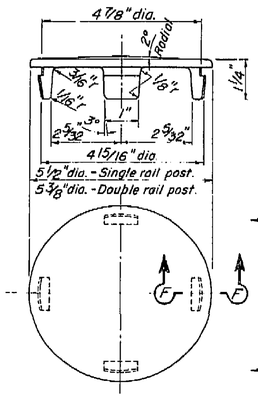
SINGLE RAIL POST

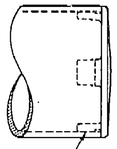


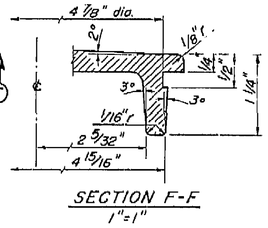


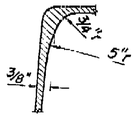


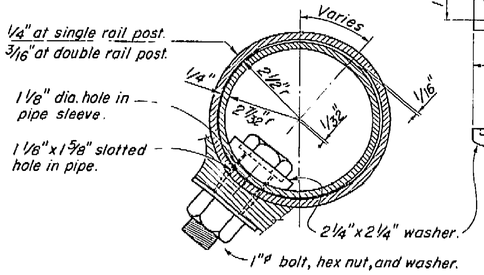


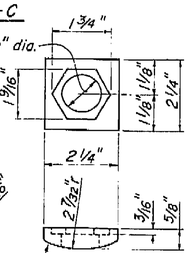












Notes:

1. At the option of the contractor, material for the railing shall be one of the following:
   a. Aluminum pipe rail and cast aluminum post.
   b. Steel pipe rail and cast steel post. Rail and posts to be galvanized. Steel pipe rail shall be 3/16" thick with 5" I.D. Rail post dimensions shall be revised as necessary to fit the steel pipe.
2. Shims are to be of asbestos sheet packing.
3. For railing on a horizontal curve the pipe rail shall be bent to the curve or the spacing of posts adjusted so that the middle ordinate between posts will not exceed 1".

4-8-63 J.W. Beck BY D.D.L. 11-22-63

August 28, 1961

BRIDGE DEPARTMENT DESIGN SECTION 2		
Section Supervisor	W.J. Jenkovich	
DESIGN	by B.A. Smith	9/60
	noted R.N. Ramotka	12/60
DETAILS	by K.C. Blechinger	10/60
	noted R.N. Ramotka	12/60
QUANTITIES	by D.L.S.	
	noted D.P. Pollock	2/61

10/60 STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS

CALIFORNIA AVENUE OVERCROSSING

BARRIER RAILING SHEET 2

Except as noted SCALE 3/8" = 1" | BRIDGE 42-217 | XS-9-71 FILE | DRAWING

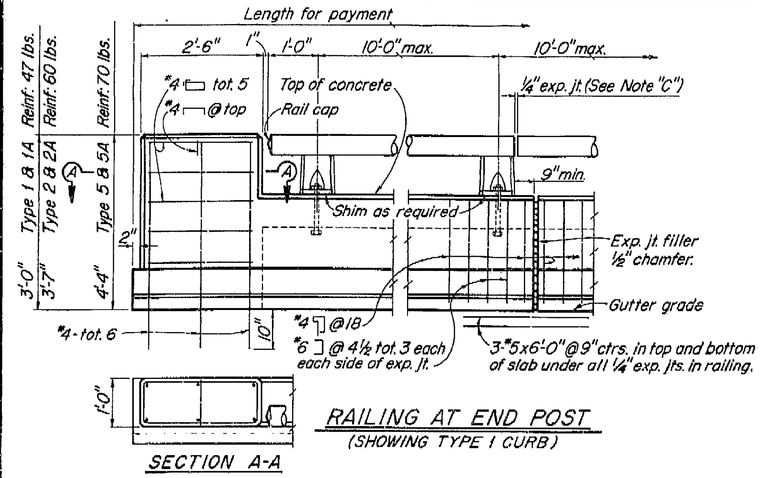
Disregard prints bearing earlier numbers → PREL. DRAWING NO. P. 7075 | 15 | 574

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE ____ SIGNATURE ____ TITLE ____

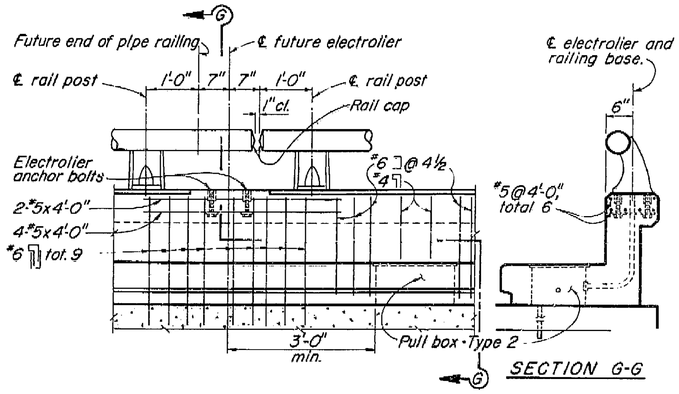
MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50' | SCALE 1" = 20' | SCALE 1" = 10' or 1" = 100' | SCALE 1" = 40'

ClibPDF - www.fastio.com



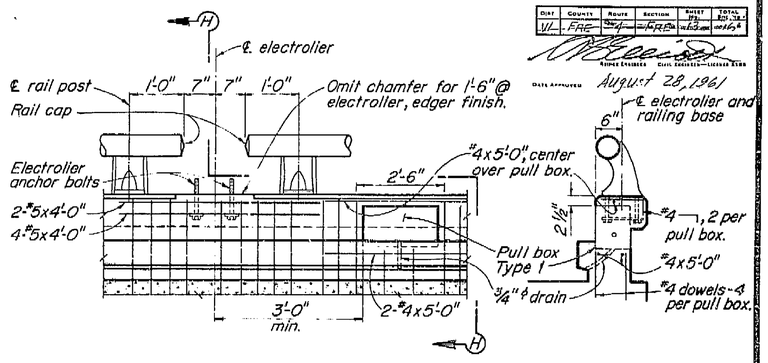
SECTION A-A

RAILING AT END POST
(SHOWING TYPE 1 CURB)



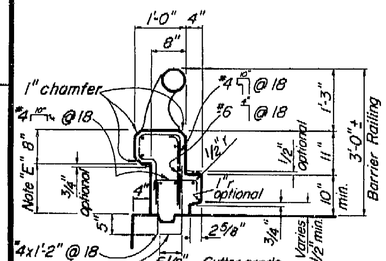
SECTION G-G

RAILING CLOSURE AT ELECTROLIER
(SHOWING TYPE 2 CURB)

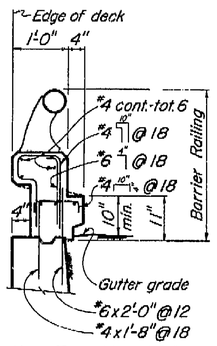


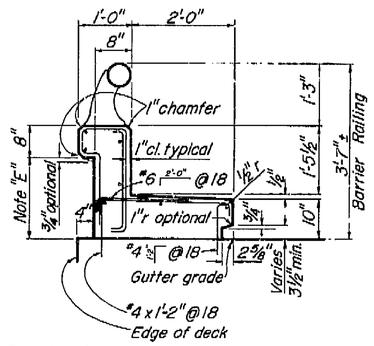
SECTION H-H

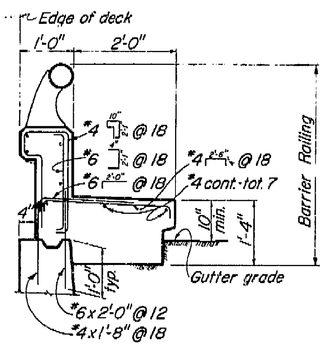
RAILING AT ELECTROLIER
(SHOWING TYPE 1 CURB)



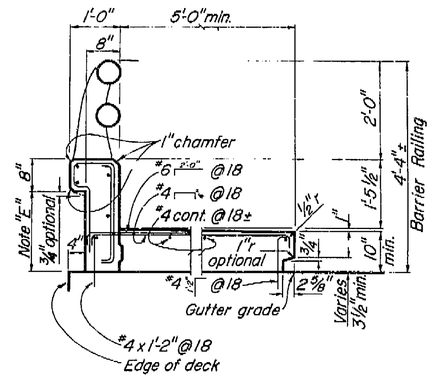
To be in place before deck concrete is placed. Contractor may submit alternative detail or method of placing dowels for approval.

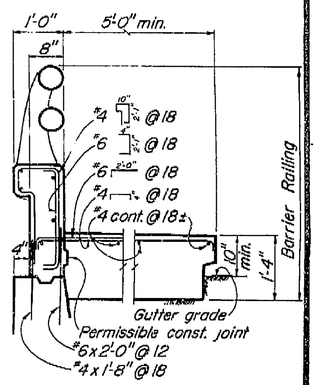






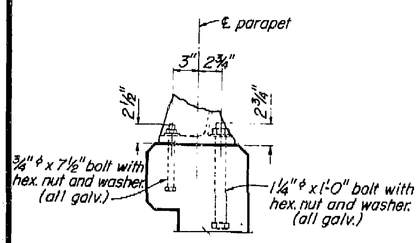
Note: Type 1A and 2A are similar to Type 1 and 2 except as noted.





TYPE 1	TYPE 1A	TYPE 2	TYPE 2A	TYPE 5	TYPE 5A
Conc. 1.61 cu. ft. / lin. ft.	Conc. 1.61 cu. ft. / lin. ft.	Conc. 3.43 cu. ft. / lin. ft.	Conc. 4.30 cu. ft. / lin. ft.	Conc. 6.10 cu. ft. / lin. ft. — For 5'-0" width	Conc. 8.35 cu. ft. / lin. ft.
Reinf. 11.8 lbs. / lin. ft.	Reinf. 12.0 lbs. / lin. ft.	Reinf. 14.7 lbs. / lin. ft.	Reinf. 17.3 lbs. / lin. ft.	Reinf. 17.2 lbs. / lin. ft.	Reinf. 19.7 lbs. / lin. ft.
				Conc. 0.84 cu. ft. / lin. ft. — Per additional ft. (width)	Conc. 1.34 cu. ft. / lin. ft.
				Reinf. 2.1 lbs. / lin. ft.	Reinf. 2.1 lbs. / lin. ft.

TYPICAL CURB AND RAIL SECTIONS



RAIL POST ANCHOR BOLT DETAIL
Scale: 1 1/2" = 1'-0"

Note:
A. Railing shall conform to horizontal and vertical alignment.
B. Posts shall be normal to railing.
C. Curb and wall exp. jts. to be located at all deck joints, at ℄ piers or bents and at uniform spacing (40' max.) between those specified. Joint size to be 1/4" min. and increased to match deck joints.
D. Construct 3" deep x 12" wide overflow scupper 2" above deck at low points in grade.
E. Dimension will vary with cross-slope of deck.
F. Walls are to be backfilled before railing is placed.
G. Clearance to reinforcing steel in curb and railing to be 1".

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

BRIDGE DEPARTMENT DESIGN SECTION 2		
Section Supervisor		
DESIGN	by D.A.Smith	9/60
	checked R.N. Amerian	12/60
DETAILS	by K.C.Blechinger	10/60
	checked R.N. Amerian	12/60
QUANTITIES	by	
	checked D.P. Pollock	2/61

10/60 — STATE OF CALIFORNIA, DEPARTMENT OF PUBLIC WORKS, DIVISION OF HIGHWAYS

CALIFORNIA AVENUE OVERCROSSING

BARRIER RAILING SHEET 1

Except as noted | SCALE 3/4"=1'-0" | BRIDGE 42-217 | FILE XS-9-63 | DRAWING 8-7075-13

Disregard prints bearing earlier numbers → PREL. DRAWING No. P-7075 | 24 | 27

573

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

STANDARD DRAWING
R.U. Norman 4-63
E.E. Norman 4-63
Approved 1963
W.S. Hall
L729
34

SCALE 1" = 50' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 20' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 10' or 1" = 100' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 40' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

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VI | Fre | 99

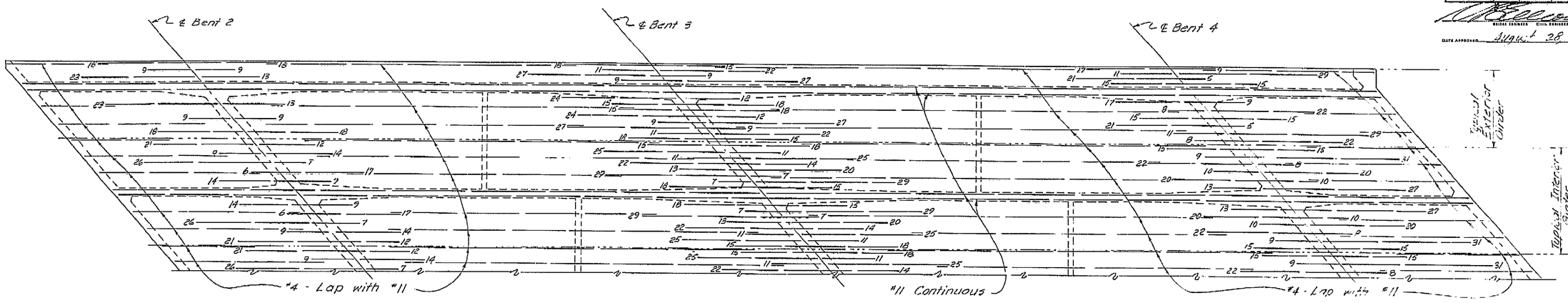
11-006-2(6)
F-006-2 (5)

FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
7	CALIF.		338	434

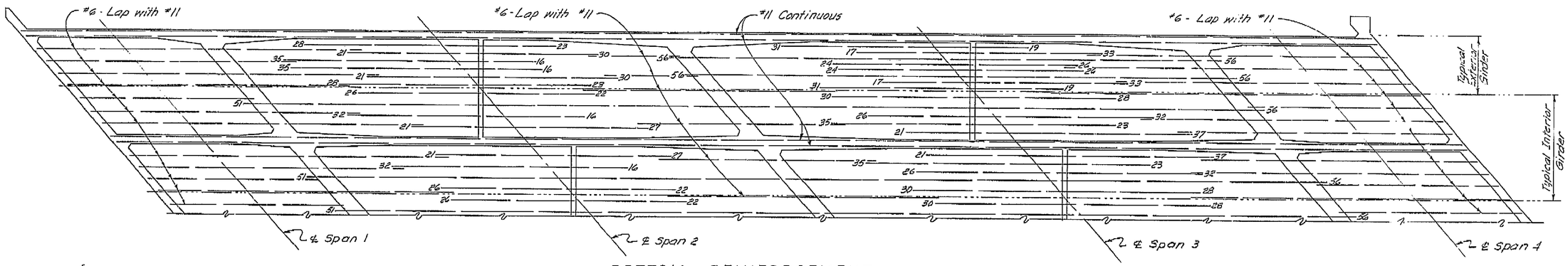
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	99	FRESNO	16 THRU 16	

BRIDGE ENGINEER — CIVIL ENGINEER — LICENSE 6585

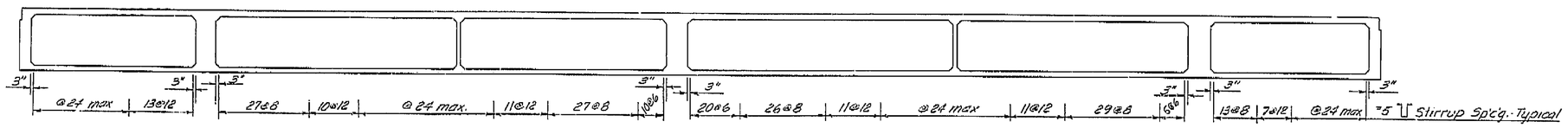
DATE APPROVED August 28 1961



TOP REINFORCEMENT



BOTTOM REINFORCEMENT



LONGITUDINAL SECTION

Note: All bars are #11 except as noted.
No splicing of #11 bars permitted near ℄ Bent for Top Reinforcement or near ℄ Span for Bottom Reinforcement.
Numbers at ends of bars indicate distance in feet from ℄ Bent for Top Reinforcement and from ℄ Span for Bottom Reinforcement.

AS BUILT PLANS
Contract No. 62-671303
Date Completed
Document No. 60001062

338

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer Engr E. F. Thomas
Chief Designer W. Jones

DESIGN	by D.A. Smith 9/60	Checked R.N. Amioka 12/60	
DETAILS	by K.C. Blechinger 10/60	Checked R.N. Amioka 12/60	
QUANTITIES	By	Checked D.P. Pollock 3/61	
SPECIFICATIONS	By	Plans and Specs. Completed	

Approval Recommended by [signature] Engineer of Design — Civil Engr. License No. 5439

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CALIFORNIA AVENUE OVERCROSSING

GIRDER REINFORCEMENT

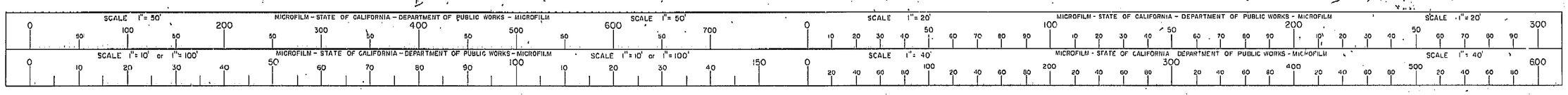
SCALE	BRIDGE	FILE	DRAWING
NONE	42-217		0-7075-10

Disregard prints bearing earlier numbers →

PREL. DRAWING No. P- 7075 | N | 33 | 34

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 4-12-62 SIGNATURE [signature] TITLE [illegible]



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V) Fre 99

U-006-2(6)
F-006-2(5)

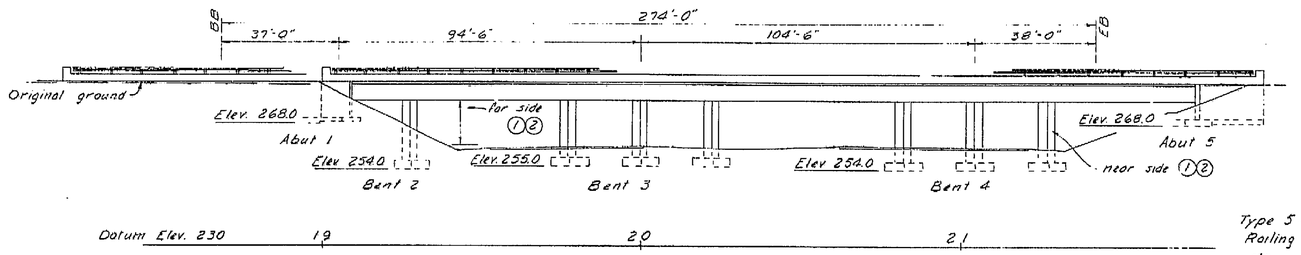
FED. ROAD DIST. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			344	424

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	4	FF	316	416

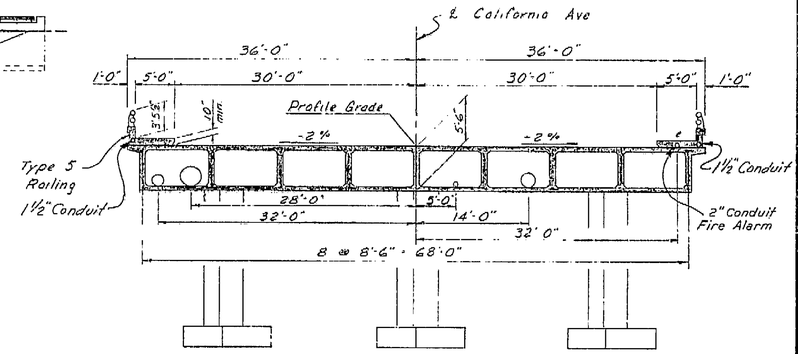
DISTRICT ENGINEER

DATE APPROVED August 28, 1961

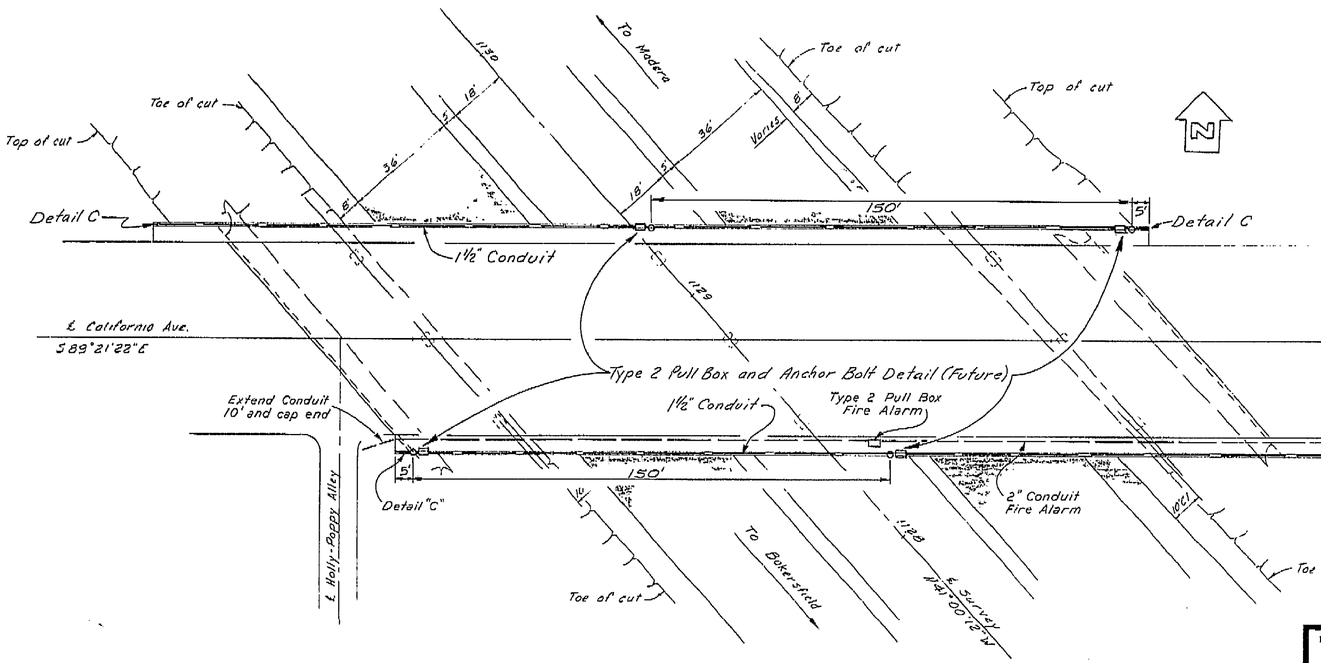
PROFILE GRADE



ELEVATION
1" = 20'-0"



TYPICAL SECTION
4" = 1'-0"



PLAN
1" = 20'

Note: This plan accurate for highway lighting only.

AS BUILT PLANS
Contract No. 62-671363
Date Completed
Document No. 60001062

For additional notes see Sheet No. ES-7-4

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL RECOMMENDED BY	DATE
O.E. Schuler	4/11	E.H. Taylor	4/11		4/61

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer: Earl E. Taylor
Chief Designer:

DESIGN	By D.A. Smith 4/60	Checked
DETAILS	By D.A. Smith 4/60	Checked
QUANTITIES	By	Checked
ELECTRICAL	By	Plans and Specs. Compared

Approval Recommended by: Engineer of Design — Chief and Structural Steel Detailing Engineer

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CALIFORNIA AVENUE OVERCROSSING
LOCATED IN THE CITY OF FRESNO

LIGHTING PLAN

SCALE	BRIDGE	FILE	DRAWING
As noted	42-217		42217-16

Disregard prints bearing earlier numbers

PREL. DRAWING No. P- 7075 | 1

344

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DATE _____ SIGNATURE _____ TITLE _____

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50' · SCALE 1" = 20' · SCALE 1" = 10 or 1" = 100' · SCALE 1" = 40

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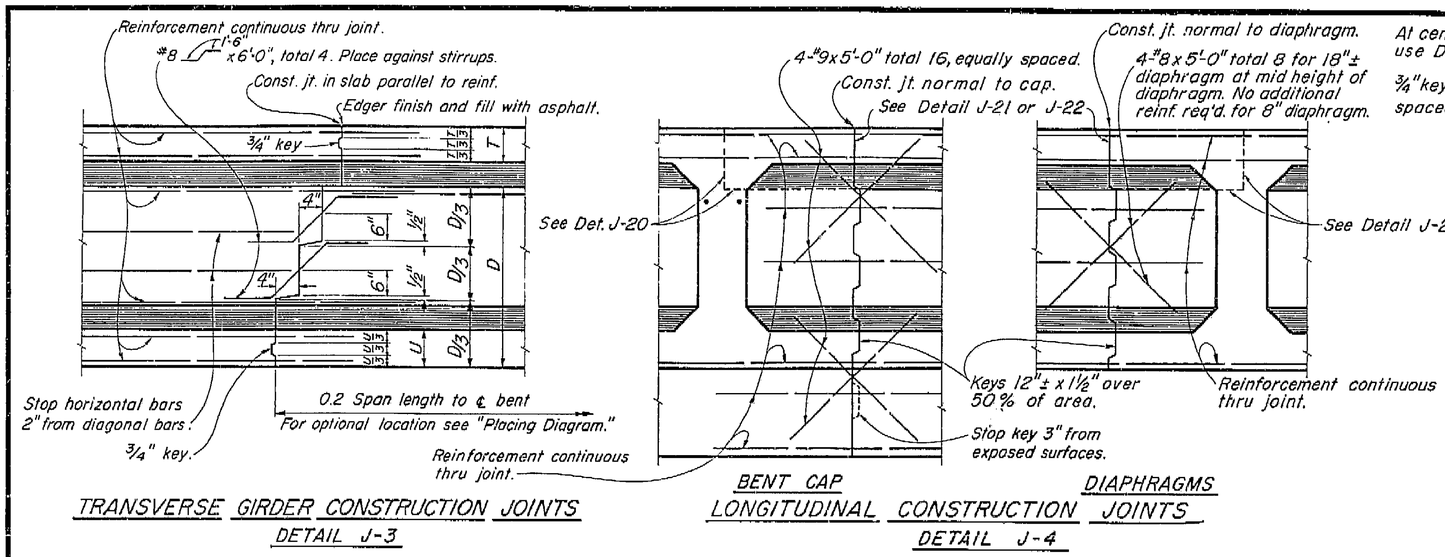
Revision: 9-22-60
Made #8 bar cont. in Detail J-1. etc.

V1 | Fre | 99 — U-006-2 (6) F-006-2 (5)

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			339	424

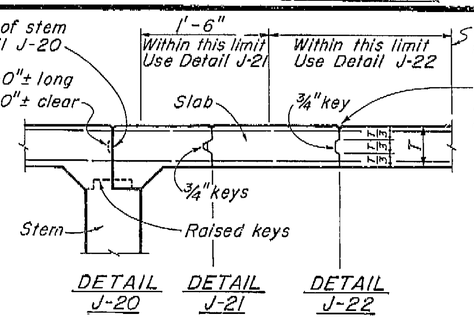
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VI	Fre	99	F,R.E.		

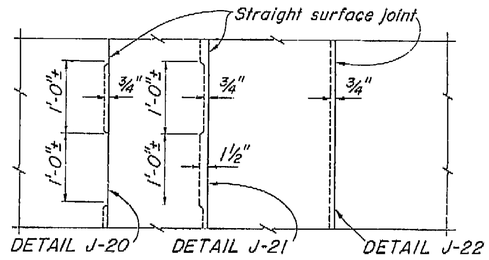
DATE APPROVED August 28 1961



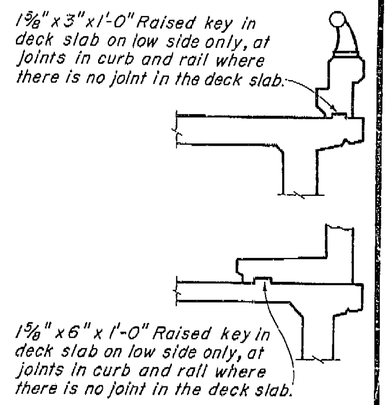
TRANSVERSE GIRDER CONSTRUCTION JOINTS
DETAIL J-3

BENT CAP DIAPHRAGMS
LONGITUDINAL CONSTRUCTION JOINTS
DETAIL J-4



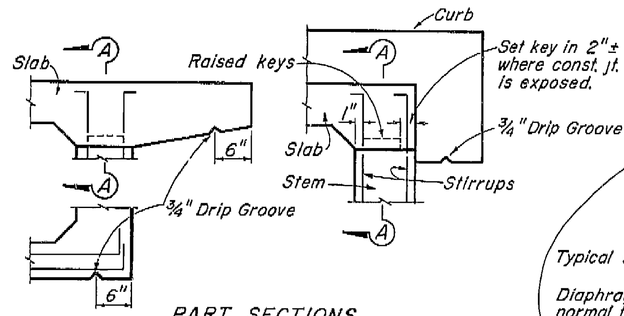


DECK SLAB
LONGITUDINAL CONSTRUCTION JOINTS
Note: Longitudinal construction joints in slab, if required, are to be located at edge of traffic lanes except as approved by the Engineer.

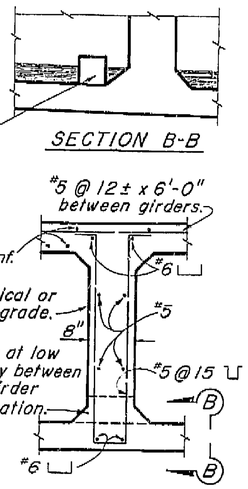


CURB AND SIDEWALK EXPANSION JOINT
DETAIL C-1

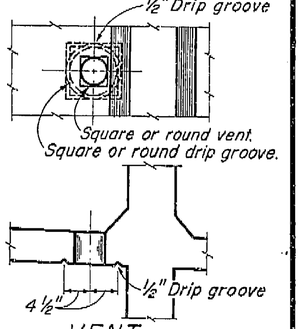
AS BUILT PLANS
Contract No. 62-6T13C.3
Date Completed
Document No. 60001062



PART SECTIONS
EXTERIOR GIRDER WITH SLAB CANTILEVER
EXTERIOR GIRDER WITH CURB

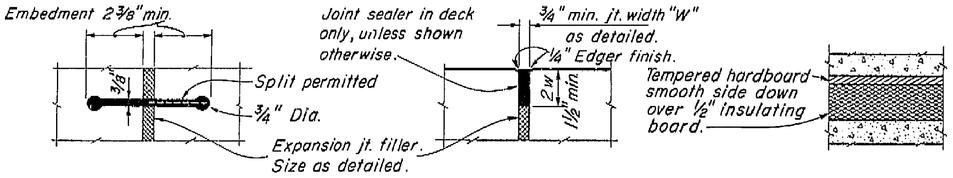


INTERMEDIATE DIAPHRAGM SECTION
DETAIL D-1



VENT
DETAIL V-1

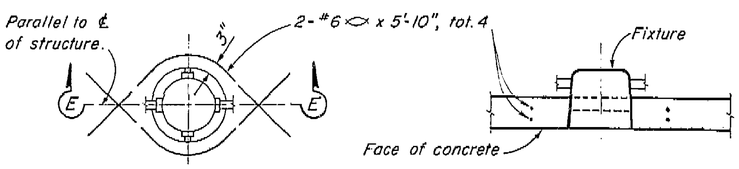
Note:
5" ϕ Vent in lower slab.
Min. of two vents per span in each bay between girders. One vent to be located at low point of span and other vent to be located at opposite end of span @ 1'-6" from face of Abutment or Bent. See "Girder Layout."



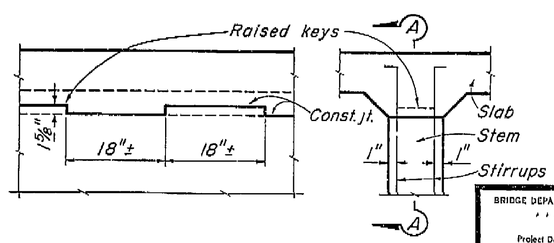
RUBBER WATERSTOP
DETAIL W-1

SEALED EXPANSION JOINT
DETAIL L-1

DETAIL M-1



ADDED REINFORCEMENT
SECTION E-E
RECESSED SOFFIT LIGHT
DETAIL F-1



SECTION A-A
PART SECTION INTERIOR GIRDER
KEY-GIRDER STEM TO SLAB
DETAIL J-5

STANDARD DRAWING
Approved: Ry. E. O'Hara
Design Details
Standard Plan No. 6729

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer: Emil E. Amioka
Chief Designer: W.J. Herbrich

DESIGN	By D.A. Smith 9/60	Checked R.N. Amioka	12/60
DETAILS	By K.C. Blechinger 10/60	Checked R.N. Amioka	12/60
QUANTITIES	By	Checked A.P. Pollock	3/61
SPECIFICATIONS	By	Plans and Specs Completed	

Approval Recommended by: R. Hutchinson, Engineer of Design — Registered Structural Engineer

9/60

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CALIFORNIA AVENUE OVERCROSSING

STANDARD DETAILS NO. 1

SCALE: NONE | BRIDGE: 42-217 | XS-16-22 FILE | DRAWING C-7075-11

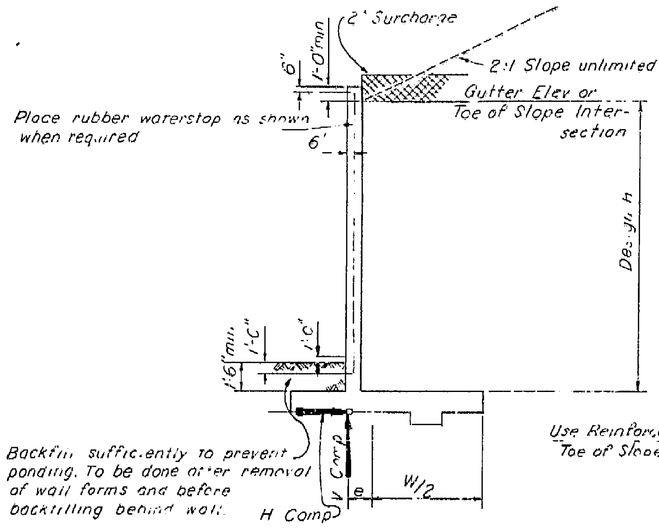
PREL. DRAWING NO. P. 7075 | 12

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

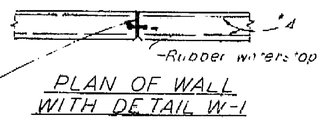
MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"= 50' SCALE 1"= 10' or 1"= 100 SCALE 1"= 20' SCALE 1"= 40'

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DESIGN AND DRAINAGE

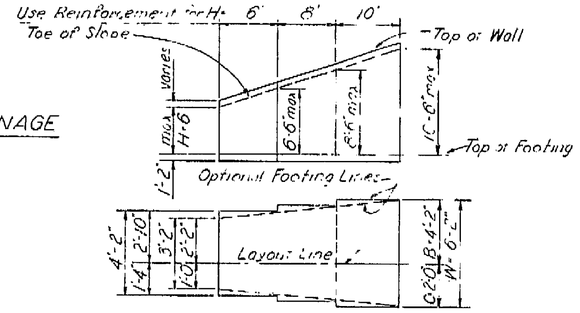
Place concrete in toe against undisturbed material, except as permitted by the Engineer.



PLAN OF WALL WITH DETAIL W-1

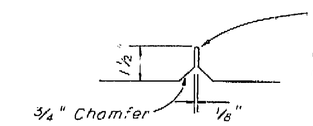


PLAN OF WALL WITH EXPANSION JOINT ONLY



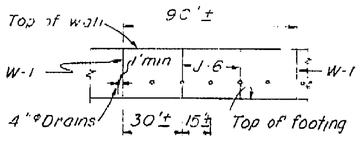
TYPICAL LAYOUT EXAMPLE

Note:
Bar cut-offs may be varied in increments of 6"

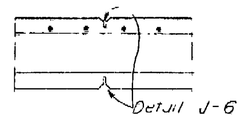


PLAN

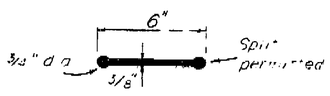
DETAIL J-6



ELEVATION

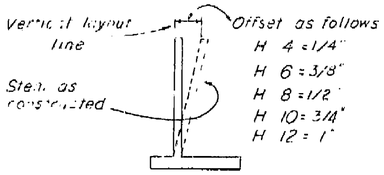


SECTION

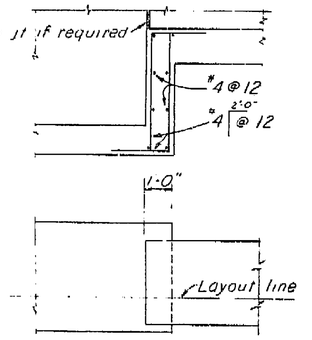


RUBBER WATERSTOP

Note: For details of "Alternative Waterstop" see "Standard Details No. 1" sheet "Route 4 On Ramp O.C."



WALL OFFSET



FOOTING STEP

NOTES

Design Conditions

Design H may be exceeded by 6" before going to the next size. Footing key is required except when found unnecessary by the Engineer. Special footing design is required where foundation material is incapable of supporting toe pressure loads listed in table

Design Data:

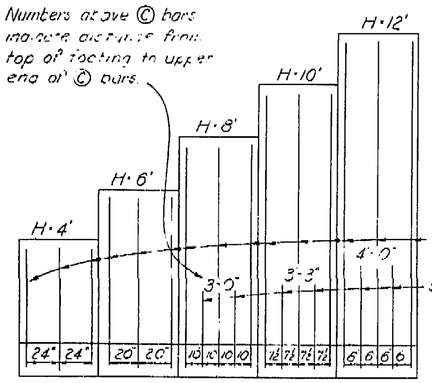
fc = 1200 psi fc' = 3000 psi fs = 20,000 psi
n = 10 earth = 120 pcf

36 psf max for determination of toe pressure
27 psf min for determination of heel pressure

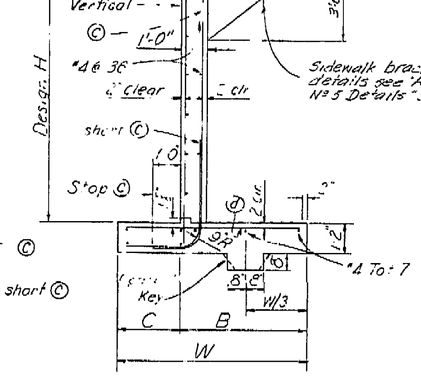
Equivalent fluid pressure =

Note: Reinforcement detailed is to be placed in addition to that shown for spread footing. All piles not shown, see Pile Layout on other sheet.

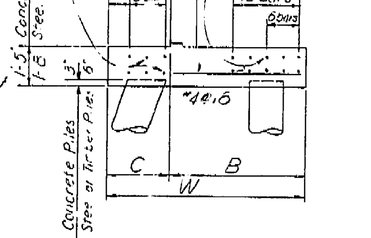
◉ For pile footing Design H-4' use same footing dimensions as Design H-6'



ELEVATION



SPREAD FOOTING SECTION



PILE FOOTING SECTION

TABLE OF REINFORCING STEEL DIMENSIONS AND DATA

Design H	◉ 4'	6'	8'	10'	12'
W	3'-2"	4'-2"	5'-2"	6'-2"	7'-2"
C	1'-0"	1'-4"	1'-8"	2'-0"	2'-4"
B	2'-2"	2'-10"	3'-6"	4'-2"	4'-10"
© bars	#4 @ 24	#5 @ 20	#5 @ 10	#6 @ 7½	#7 @ 6
ⓓ bars	#4 @ 24	#5 @ 20	#5 @ 10	#7 @ 15	#7 @ 12
Total ⓔ bars	6 - #6	6 - #6	6 #6	10 - #7	10 - #7
Total ⓕ bars				6 - #7	6 - #7
H Comp pounds	850	1440	2170	3050	4070
V Comp pounds	2020	3460	5230	7340	9760
e feet	.50	.60	.79	.94	1.07
Toe Pressure PSF	1240	1570	1930	2270	2640
Spread Footing Steel lbs/ft	13	19	30	49	77
Spread Footing Conc CF/ft	8.6	11.8	15.0	18.1	21.4
Conc pile Pg Steel lbs/ft	24	30	41	82	112
Conc pile Pg Conc CF/ft	9.9	11.9	15.4	18.8	22.2

334

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

BRIDGE DEPARTMENT
DESIGN SECTION
Project Designer
Chief Designer

DESIGN	by D.A. Smith '60	Checked R.N. Amiotte '60	
DETAILS	by K.C. Blechinger '60	Checked R.N. Amiotte '60	
QUANTITIES	by	Checked D.F. Pollock '61	
SPECIFICATIONS	by	Plans and Forms Assigned	

Approval Recommended by
Engineer of Design
1961 Blvd. Literal Ed. 6000

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CALIFORNIA AVENUE OVERCROSSING

TYPE 1-A CANTILEVER RETAINING WALL

SCALE: NONE	BRIDGE 42-217	FILE	DRAWING 6-7075-6

Disregard prints bearing earlier numbers → PREL. DRAWING No. P- 7075 5 51 52

566

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE ____ SIGNATURE ____ TITLE ____

SCALE 1"=50' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"=20'
SCALE 1"=10' or 1"=100' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"=40'

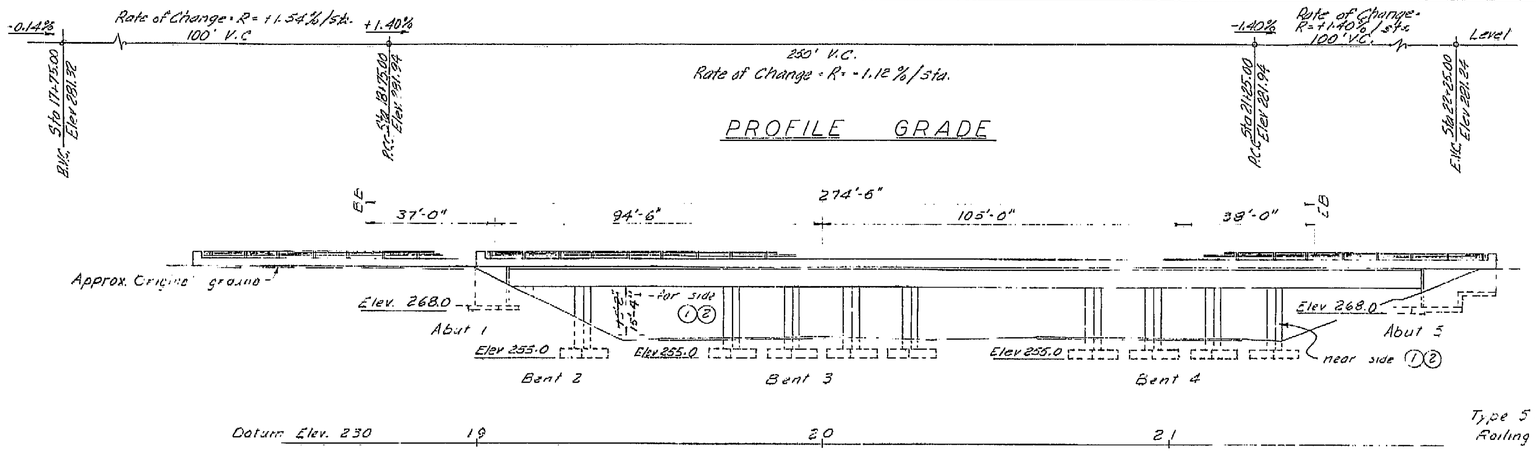
ClibPDF - www.fastio.com

VI Fre 99

U-006-2(6)
F-006-2(5)

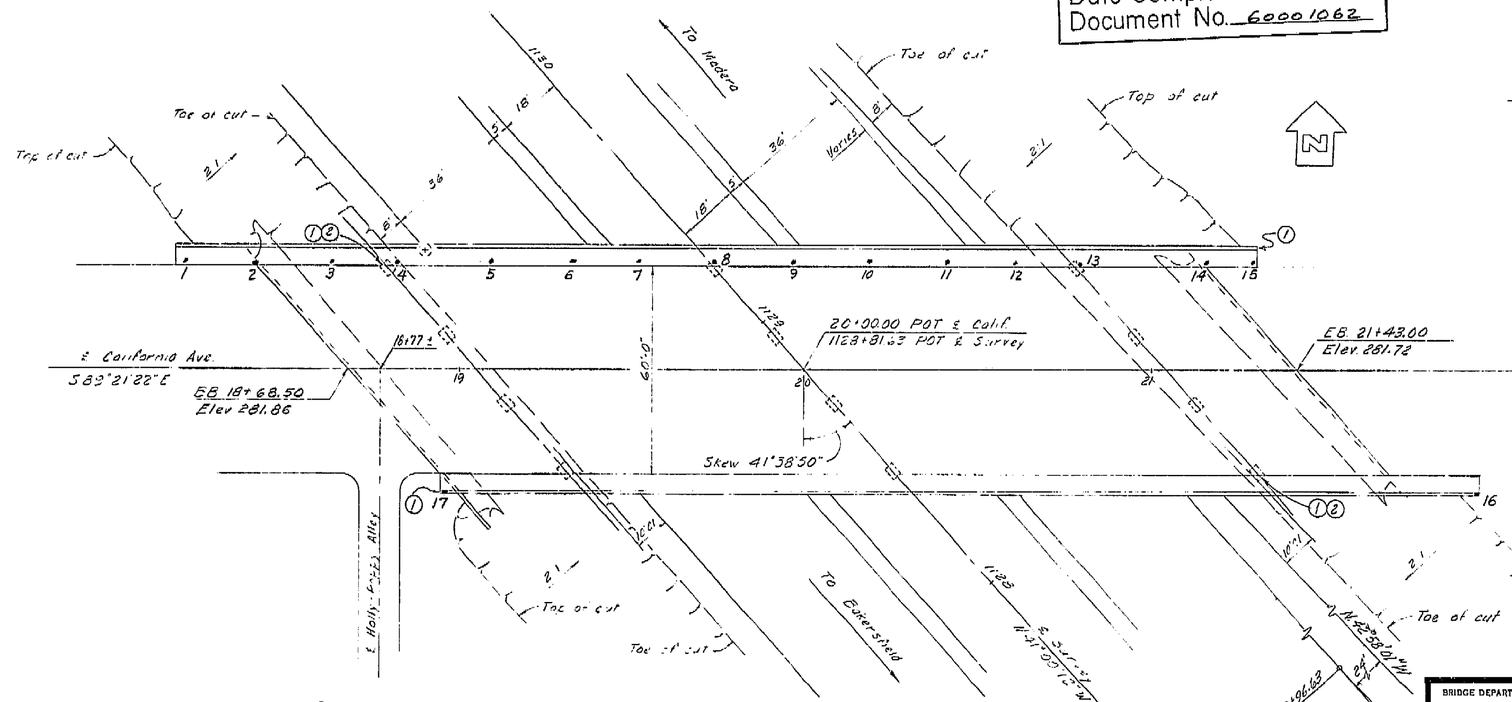
FED. ROAD DIV. NO	STATE	PROJ. No	FISCAL YEAR	SHEET No.	TOTAL SHEETS
7	CALIF.			329	424

DIST	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
06	Fre	99			216



ELEVATION
1" = 20'

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062



PLAN
1" = 20'

① Indicates location for painting "Bridge Number & year of construction".

② Indicates location for painting "California Avenue Overcrossing".

± Indicates location of minimum vertical clearance.

LIVE LOADING: H20-S16-44 AND ALTERNATIVE

APPROXIMATE QUANTITIES

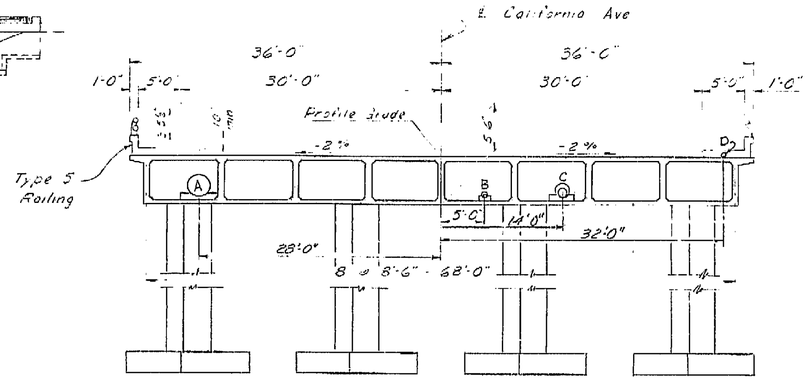
*STRUCTURE EXCAVATION (BRIDGE)	950 C.Y.
*STRUCTURE BACKFILL (BRIDGE)	670 C.Y.
*CLASS "A" CONCRETE (BRIDGE)	1,670 C.Y.
RUBBER WATERSTOPS	32 L.F.
*BAR REINFORCING STEEL (BRIDGE)	446,000 LBS.
BARRIER RAILING (TYPE 5)	614 L.F.

*FINAL QUANTITIES

P.M. 19.9

49

DATE APPROVED August 28, 1961



TYPICAL SECTION
3/8" = 1'-0"

Final Elevations - Copper Nails

1.	281.638
2.	281.846
3.	282.037
4.	282.379
5.	282.514
6.	282.776
7.	282.930
8.	283.028
9.	283.130
10.	283.090
11.	282.946
12.	282.736
13.	282.529
14.	282.363
15.	282.100
16.	281.766
17.	282.527

*A - 3" irrigation pipe
B - 4" gas line in 8" casing, PG&E
C - 12" water main in 20" casing, City of Fresno
*D - 2" conduit City of Fresno Fire Dept.

+ See "Road Plans".

INDEX TO PLANS

SHEET NO.	TITLE
1.	General Plan
2.	Grid of Deck Elevations
3.	Foundation Plan
4.	Abutment No 1 Details
5.	Abutment No 5 Details
6.	Type 1A Cantilever Retaining Wall
7.	Bent 2 & 4 Details
8.	Bent 3 Details
9.	Typical Section & Girder Layout
10.	Girder Reinforcement
11.	Standard Details No 1
12.	Standard Utility Detail No 1
13.	Barrier Railing Sheet 1
14.	Barrier Railing Sheet 2
15.	Log of Test Borings
16.	Lighting Plan

Note: Route Change (VI-Fre-99)
Contract # 62-6T13C3-F

4-8-63 J.W. Beck

For General Notes see "Grid of Deck Elevations" sheet

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer
Chief Designer

DESIGN	By D.A. Smith	Checked R.N. Amuchastegui	12-60
DETAILS	By C.A. Smith	Checked R.N. Amuchastegui	12-60
QUANTITIES	By A. Smith	Checked D.P. Pollock	9-61
SPECIFICATIONS	By [illegible]	Plans and Spec. Compared	

Approval Recommended by [illegible] Engineer of Design — Civil and Structural Engr. License No. 8439

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CALIFORNIA AVENUE OVERCROSSING
LOCATED IN THE CITY OF FRESNO

GENERAL PLAN

SCALE As noted | BRIDGE 42-217 | FILE | DRAWING C-7075-1

Disregard prints bearing earlier numbers

PREL. DRAWING No. P-7075 | 1 | 2 | 16 | 17 | 28 | 36 | 40 | | | 561

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE [illegible] SIGNATURE [illegible] TITLE [illegible]

SCALE 1"= 50' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"= 50'
SCALE 1"= 20' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"= 20'
SCALE 1"= 10' or 1"= 100' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"= 10' or 1"= 100'
SCALE 1"= 40' MICROFILM - STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"= 40'

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BRIDGE DEPARTMENT

VI | Fre | 99

U-006-2 (6)
F-006-2 (5)

FED. ROAD SYS. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.			343	422

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
07	Ventura	126		15	61

BRIDGE ENGINEER — CIVIL ENGINEER — LICENSE 5985

DATE APPROVED August 28 1961

AS BUILT PLANS
Contract No. 62-6T1303
Date Completed
Document No. 60001062

Distance: 30.02 ft
Distance: 117.88 ft
Distance: 90.88 ft
Distance: 38.32 ft
Distance: 86.73 ft
Distance: 25.34 ft
Distance: 34.52 ft
Distance: 178.96 ft
N 15° E
S 75° E 669.5 ft
S 15° E 175.50

B-4 B-3 B-2 B-1

19 20 21

28.1± 30 ft 19-52 "Ls" 28.1± 33 ft 19-70 "Ls" 28.0± 28.1± 33 ft 19-74 "Ls"

290 280 270 260 250 240 230

B-4
- Slightly compact brown fine to medium sand
- Very dense grey silty fine to medium sand with cemented layers
- Compact to dense tan to grey fine to very fine sandy silt
- Compact brown fine to medium sand
- Compact gray interbedded silt and silty very fine sand
- Dense & very mottled gray iron-stained porty cemented silt with tan clay streaks & lenses
- Dense & hard gray porty cemented silt to brown sandy silt with clayey streaks & lenses
- Very dense cemented very fine sandy silt
- Dense brown silty sand to sandy silt

B-3
- Slightly compact brown silty fine to medium sand
- Very dense tan cemented interbedded layers of silt, sand & sandy silt
- Slightly compact brown fine to medium sand
- Dense brown & gray mottled interbedded layers of silt & sand
- Dense gray silt
- Compact gray rust stained silt with very fine sand layers
- Compact tan fine sand to silty sand
- Dense brown sandy silt to silty sand
- Compact brown silty fine sand

B-1
- Compact tan silty fine to medium sand
- Dense tan silty fine sand
- Very dense gray indurated silt
- Dense tan silty fine to medium sand
- Compact gray fine sandy silt to silt
- Dense light gray very fine sand with silt lenses
- Compact tan silty fine to medium sand
- Dense light gray fine to medium sand
- Dense tan to gray silty fine sand

E.M. HOLLY
Chiseled "a" in curb at SW corner Holly & California Aves.
Elev. 261.31

NO GROUND WATER ENCOUNTERED

CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS

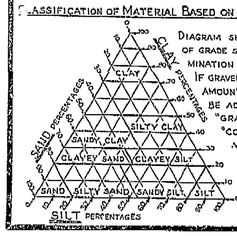


DIAGRAM SHOWING THE BASIS FOR ESTIMATES OF GRADE SIZE DISTRIBUTION USED IN DETERMINATION OF CLASS NAMES. IF GRAVEL IS PRESENT IN APPRECIABLE AMOUNTS THE TERM "GRAVELLY" MAY BE ADDED TO THE CLASS NAME, VIZ. "GRAVELLY SAND". THE TERMS "COARSE", "MEDIUM" AND "FINE" WHEN USED TO DESCRIBE SAND, SILT AND GRAVEL REFER TO STANDARD GRADE SIZE LIMITS.

LEGEND OF EARTH MATERIALS

- Gravel
- Sand
- Silt
- Clay
- Sandy Clay or Clayey Sand
- Sandy Silt or Silty Sand
- Silty Clay or Clayey Silt
- Peat and/or Organic Matter
- Fill Material
- Igneous Rock
- Sedimentary Rock
- Metamorphic Rock

LEGEND OF BORING OPERATIONS

- Plan of any boring
- P Penetrometer
- 2¼" Cone Penetrometer
- S Sampler boring (DRY)
- R Rotary boring (WET)
- A Auger boring (DRY)
- J Jet boring
- C Core boring
- T Test pit

1" Soil Tube — Top Hole El., Location, B-No., Groundwater surface, G.W.S., Elev., Date measured, Description of material, Blows per Foot (Using 1¾ lb hammer with a 12" Free fall), Pulled pipe, Sample taken, Refusal, Date of boring

Rotary Boring — Top Hole El., Location, B-No., Casing driven, Size of sampler (inches), Blows per Foot (Using a 140 lb hammer with a 30" drop, or as noted), Unconfined compressive strength (T/sq. ft), Vane shear, Shear strength (lb/sq. ft), Description of material, Unit weight (lb/cu ft), % Moisture, Consolidation Test, G.W.S., Date measured, Elev., Conformable material change, Estimated material change, Unconformable material change, Date of boring

Penetration Boring — Top Hole El., Location, B-No., Pushed, No count recorded, Seconds per Foot (Using 5 N.S. McKiernan-Terry air hammer @ 115 psi or as noted), Average skin friction above this point (lb/sq ft), G.W.S., Date measured, Elev., Graphic representation of driving rate, Date of boring, Seconds per Test

NOTE

Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CALIFORNIA AVENUE OVERCROSSING

LOG OF TEST BORINGS

SCALE 1" = 10' | BRIDGE 42-217 | FILE | DRAWING C-7075-15

FIELD STUDY
DRAWN
CHECKED

Approval Recommended by

343

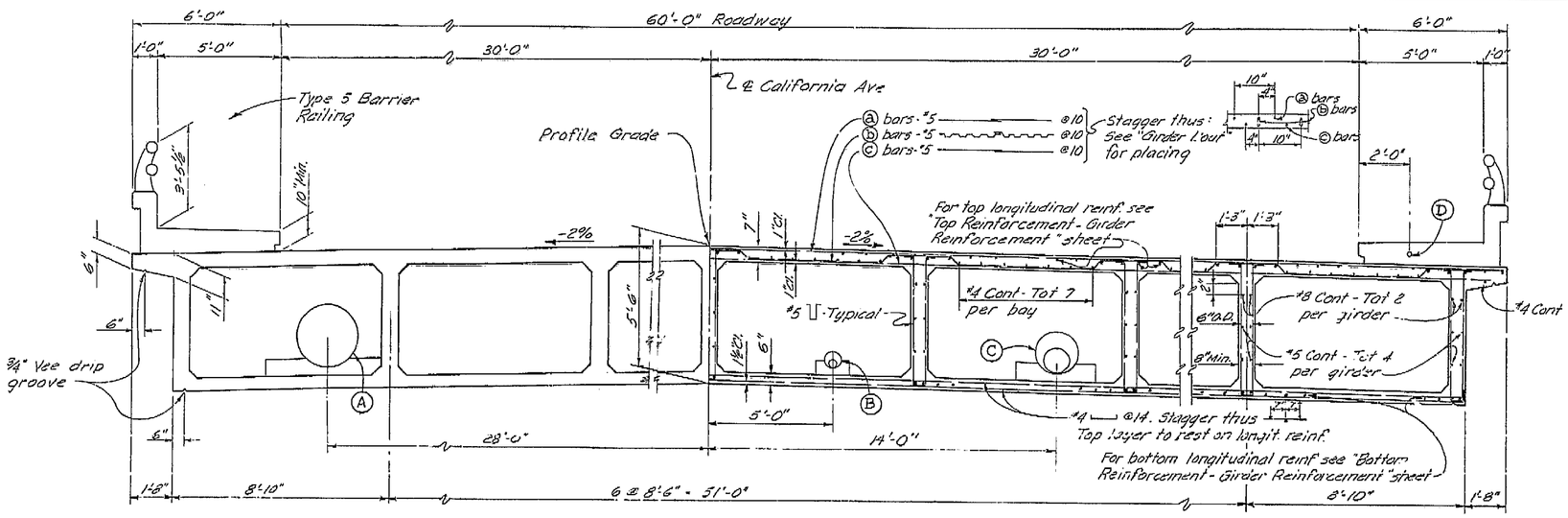
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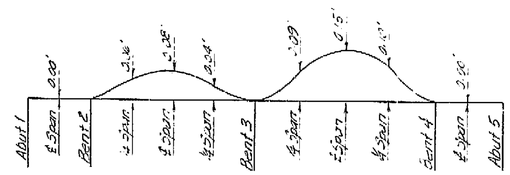
DATE ____ SIGNATURE ____ TITLE ____

SCALE 1" = 50' — MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM — SCALE 1" = 20'

SCALE 1" = 10' or 1" = 100' — MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM — SCALE 1" = 40'

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CAMBER DIAGRAM

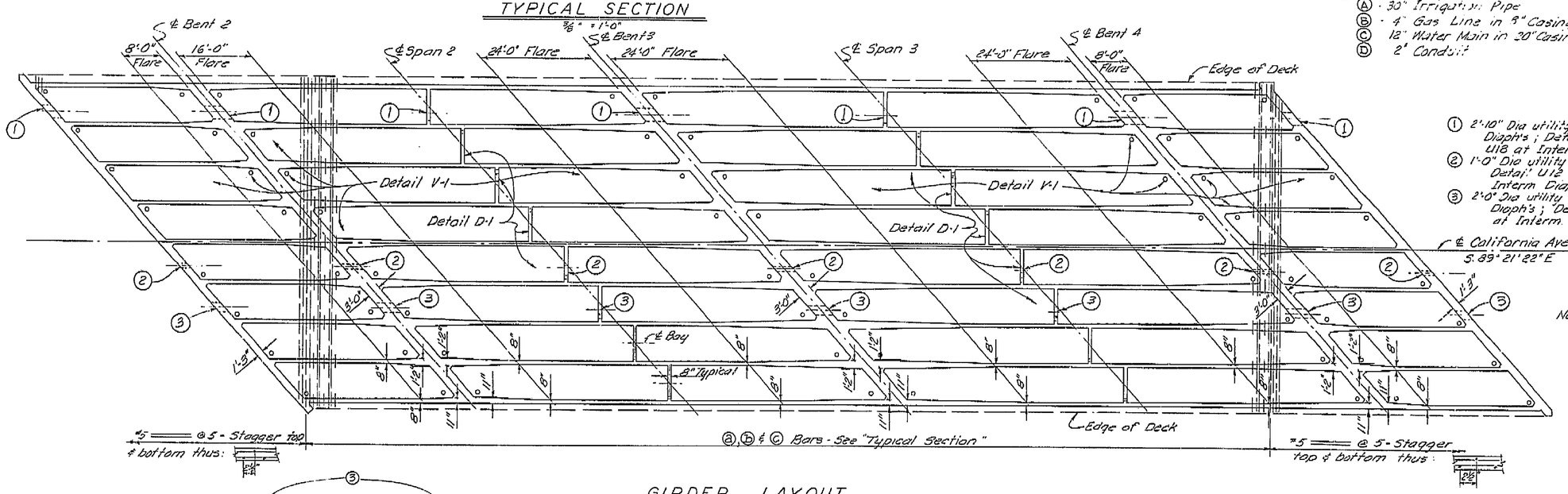
(TOTAL GIRDER DEFLECTION DUE TO DEAD LOADS.)

Note: The total deflection will be reached about 4 years after falsework removal. For values at time of falsework removal divide those shown by 4. The amount of camber for construction will be determined by the Engineer.

Utilities:

- (A) - 30" Irrigation Pipe
- (B) - 4" Gas Line in 5" Casing
- (C) - 12" Water Main in 30" Casing
- (D) - 2" Conduit

TYPICAL SECTION

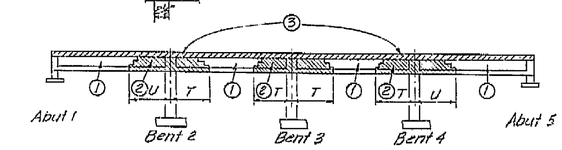


1. 2'-10" Dia utility opening - Detail U17 at End Diaph's; Detail U14 at Bent Caps; Detail U18 at Interm. Diaph's.
2. 1'-0" Dia utility opening - Detail U17 at End Diaph's; Detail U12 at Bent Caps; Detail U18 at Interm. Diaph's.
3. 2'-0" Dia utility opening - Detail U17 at End Diaph's; Detail U13 at Bent Caps; Detail U18 at Interm. Diaph's

Note: For details of utility openings not shown see "Standard Utility Detail No 1" sheet.
Diameters of utility openings are measured normal to girders

GIRDER LAYOUT

No Scale



SUPERSTRUCTURE PLACING DIAGRAM

Numbers (1) and (2) indicate sequence of placing bottom slab and girder stem concrete. (2) may be placed simultaneously with (1) when approved by the Engineer, and provided that the (1) sections are placed in the adjoining spans.
Top slab concrete (3) shall be placed separately from (1) and (2). (3) may be placed continuously or in parts as approved by the Engineer, however the only joints permitted shall be located within 2'-0" of the girder joints between (1) and (2).
"T" = ⅓ Span length U = ½ Span length
For any deviation from the above the contractor shall submit a diagram to the Engineer.

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

BRIDGE DEPARTMENT			
DESIGN SECTION 2			
Project Designer: Ed F. Williams			
Chief Designer: W. A. Hertel			
DESIGN	BY D.A. Smith 9/60	Checked R.N. Amoroso 12/60	
DETAILS	BY K.C. Blechinger 10/60	Checked R.N. Amoroso 12/60	
QUANTITIES	BY [illegible]	Checked D.P. Pollock 2/61	
SPECIFICATIONS	BY	Plans and Revs. Compared	
Approval Recommended by: R.J. Hertel (Assistant Engineer of Design)		Civil Engr. License No. 8440	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CALIFORNIA AVENUE OVERCROSSING

TYPICAL SECTION & GIRDER LAYOUT

SCALE: AS NOTED	BRIDGE 42-217	FILE	DRAWING C-7075-9 1

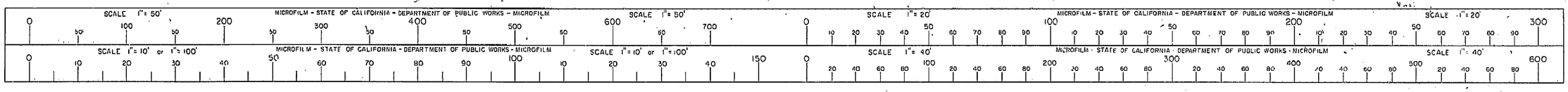
Disregard prints bearing earlier numbers →

PREL. DRAWING No. P- 7075 | 10 | ~~34~~ 32 | 39

337

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-12-73 SIGNATURE [signature] TITLE [illegible]



ClipPDF - www.fastio.com

VI	Fre	99

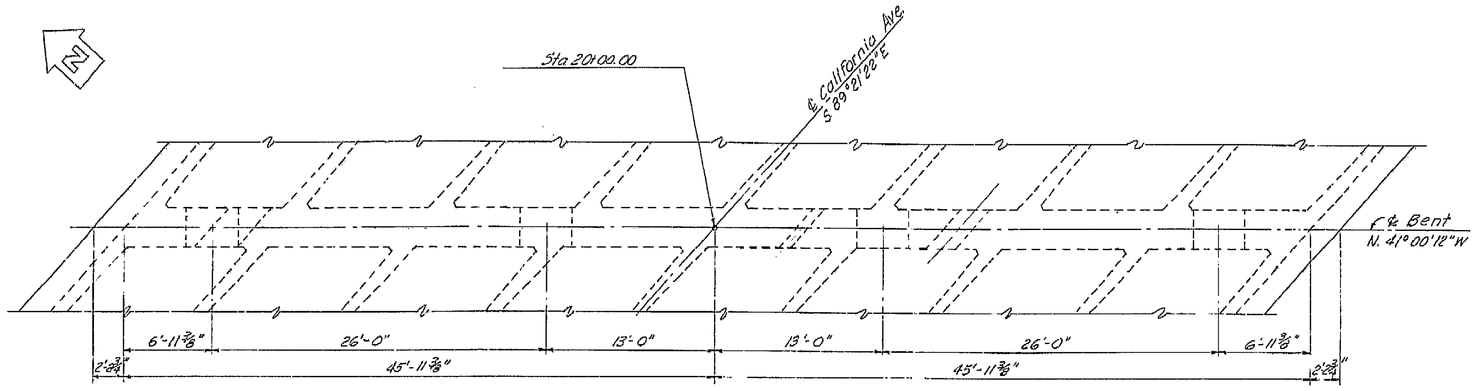
V-006-2 (6)
F-006-2 (5)

FED. ROAD DIV. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.		336	424

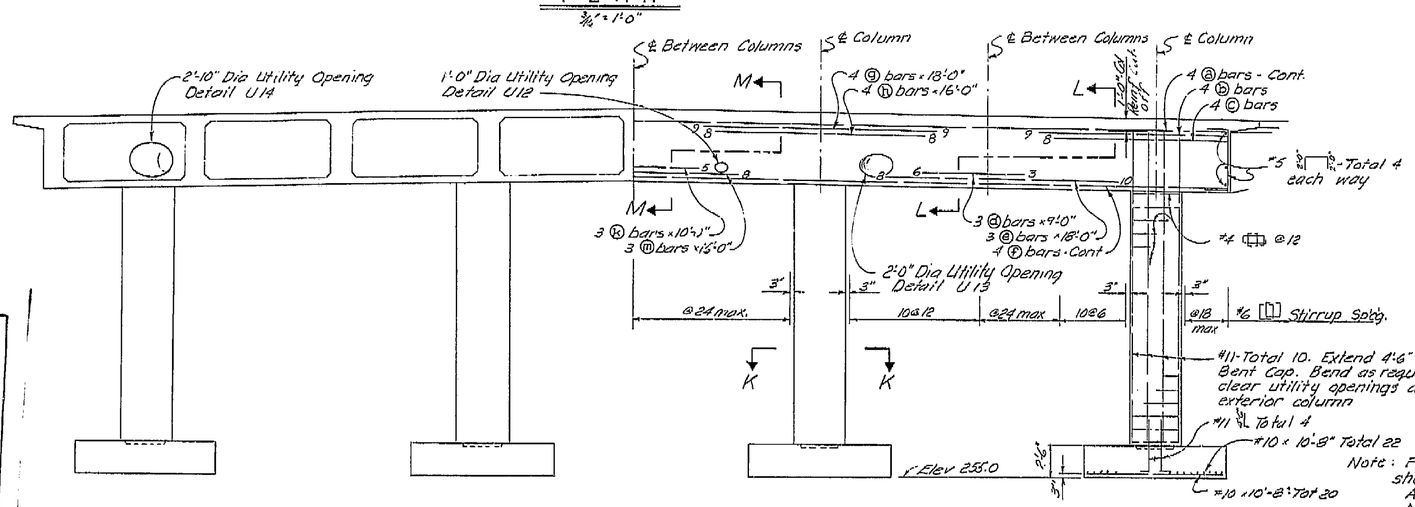
DIST	COUNTY	ROUTE	SECTION	BRIDGE NO.	TOTAL SHEETS
VI	FRE	99	FRE	9	16

Approved
BRIDGE ENGINEER CIVIL ENGINEER—LICENSE 5885

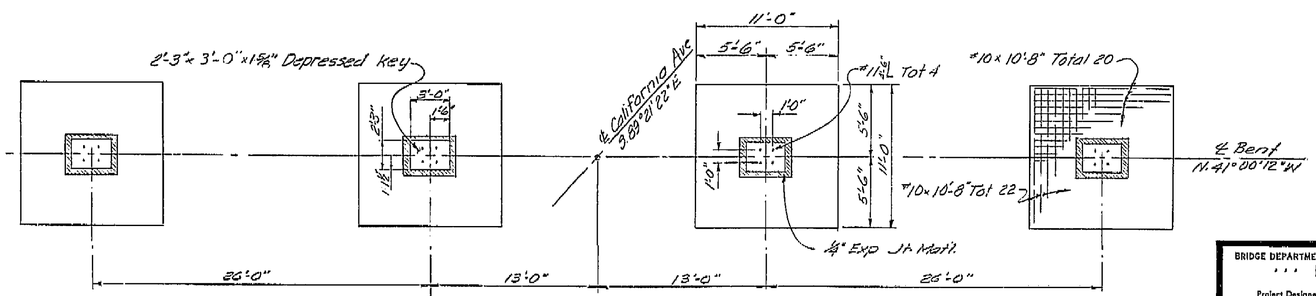
DATE APPROVED August 28 1961



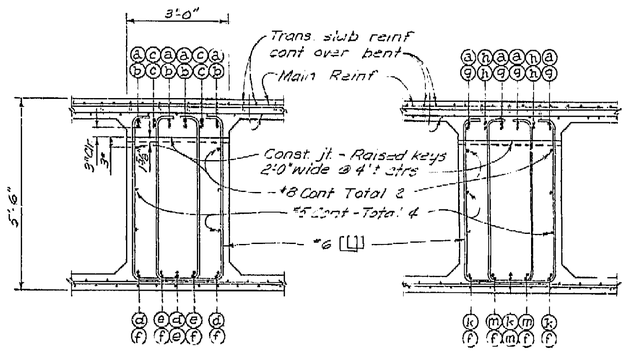
PLAN
3/16" = 1'-0"



ELEVATION
3/16" = 1'-0"



FOOTING PLAN
3/16" = 1'-0"



SECTION L-L
½" = 1'-0"

SECTION M-M
½" = 1'-0"

Note: For Section K-K see "Bent 2 & 4 Details" sheet.
All bars are #11 except as noted.
Numbers at ends of bars in cap indicate distance in feet from ℄ Column for Top Reinf and from ℄ Between Columns for Bottom Reinf.
Reinf is symmetrical about ℄ between interior columns.
For details of utility openings not shown see "Standard Utility Detail No 1" sheet.
No splices permitted near ℄ Column for Top Reinf or near ℄ Between Column for Bottom Reinf.

AS BUILT PLANS
Contract No. 62-67133
Date Completed
Document No. 6000106Z

336

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer E. F. Reiss
Chief Designer M. M. Gerstle

DESIGN	By: D.A. Smith 9/60	Checked R.N. Amioka 12/60
DETAILS	By: K.C. Blechinger 10/60	Checked R.N. Amioka 12/60
QUANTITIES	By	Checked A.F. Pollak 3/61
SPECIFICATIONS	By	Plans and Specs. Completed

Approval Recommended by [signature] Chief Bridge Engineer, Department of Works
Civil Engr. License No. 9439

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CALIFORNIA AVENUE OVERCROSSING

BENT 3 DETAILS

SCALE: As Noted | BRIDGE: 42-217 | FILE | DRAWING C-7075-B 1

Disregard prints bearing earlier numbers →

PREL. DRAWING NO. P- 7075 | 9 | 28 | 32 | 38 | 5/12

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-11-13 SIGNATURE [signature] TITLE [illegible]

SCALE 1"= 50' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"= 50' SCALE 1"= 20' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"= 20'
SCALE 1"= 10' or 1"= 100' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"= 10' or 1"= 100' SCALE 1"= 40' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"= 40'

ClibPDF - www.fastio.com

VI	Fre	99

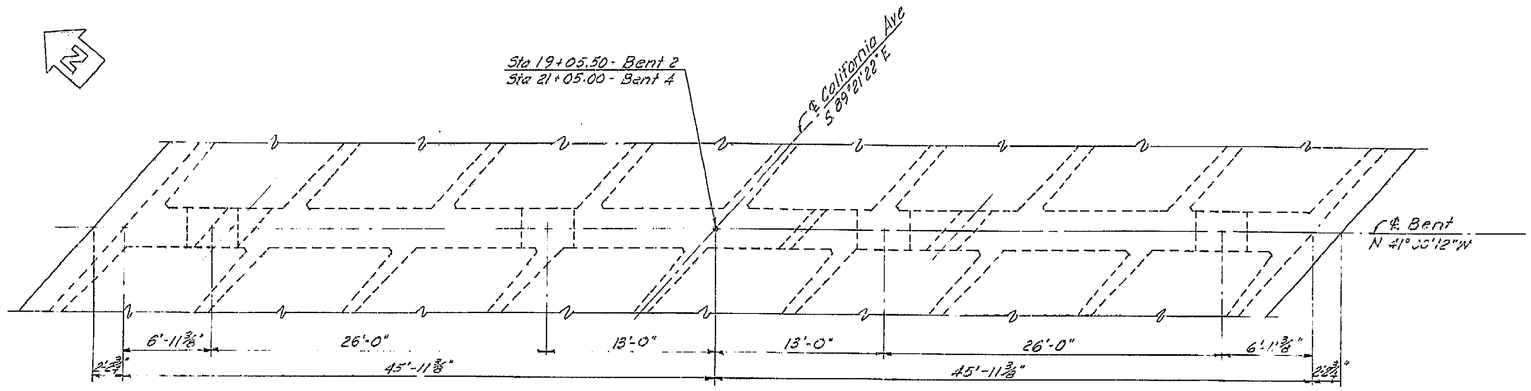
V-006-2 (6)
F-006-2 (5)

FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
7	CALIF.		335	424

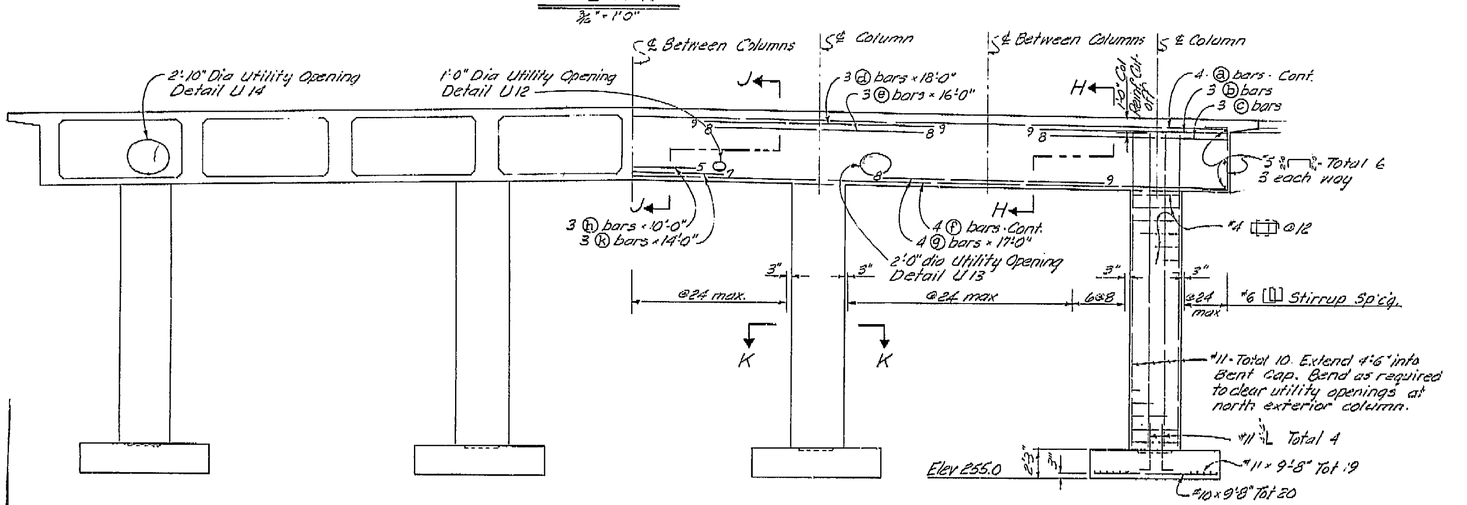
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	41	FRE	57	160

Bridge Engineer — Civil Engineer—License 5365

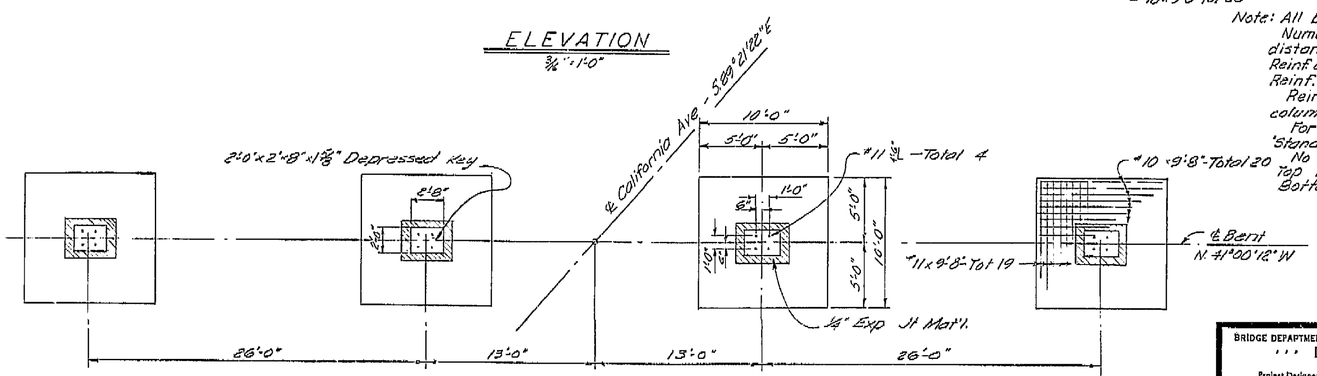
Date Approved: August 28, 1961



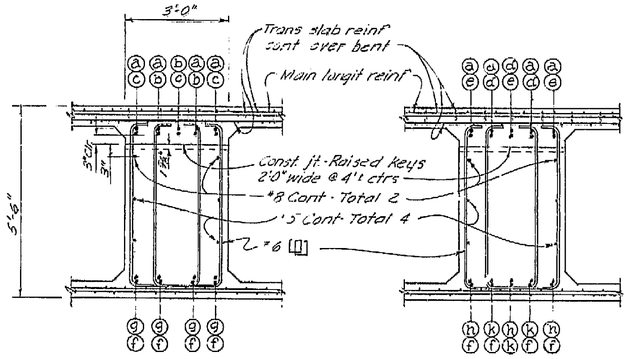
PLAN
3/16" = 1'-0"



ELEVATION
3/16" = 1'-0"

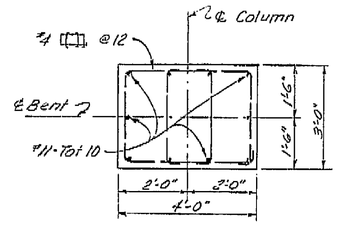


FOOTING PLAN
3/16" = 1'-0"



SECTION H-H
½" = 1'-0"

SECTION J-J
½" = 1'-0"



SECTION K-K
½" = 1'-0"

Note: All bars are #11 except as noted
Numbers at ends of bars in cap indicate distance in feet from ℄ Column for Top Reinf and from ℄ Between Columns for Bottom Reinf.
Reinf is symmetrical about ℄ between interior columns
For details of utility openings not shown see "Standard Utility Detail No 1" sheet
No splices permitted near ℄ Columns for Top Reinf or near ℄ Between Cols for Bottom Reinf

AS BUILT PLANS
Contract No. 62-671343
Date Completed
Document No. 6000062

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer: Earl E. Dixon
Chief Designer: W.J. Jukkola

DESIGN	By D.A. Smith 9/60	Checked R.N. Amioka 12/60	
DETAILS	By K.C. Blechinger 10/60	Checked R.N. Amioka 12/60	
QUANTITIES	By V.A.E.	Checked D.P. Palla-K 7/61	
SPECIFICATIONS	By	Field and Perm. Congstrs	

Approval Recommended by: Engineer of Design — Civil Engr. License No. 8439

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CALIFORNIA AVENUE OVERCROSSING

BENT 2 & 4 DETAILS

SCALE: As Noted | BRIDGE 42-217 | FILE | DRAWING C-7075-7 1

Disregard prints bearing earlier numbers →

PREL. DRAWING No. P- 7075 | 8 | 28 | 3 | 31 | 9/12 | | | | | 567

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-10-12 SIGNATURE _____ TITLE _____

SCALE 1"= 50' MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM SCALE 1"= 20'
SCALE 1"= 10' or 1"= 100' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"= 40'

ClibPDF - www.fastio.com

VI	Fre	99

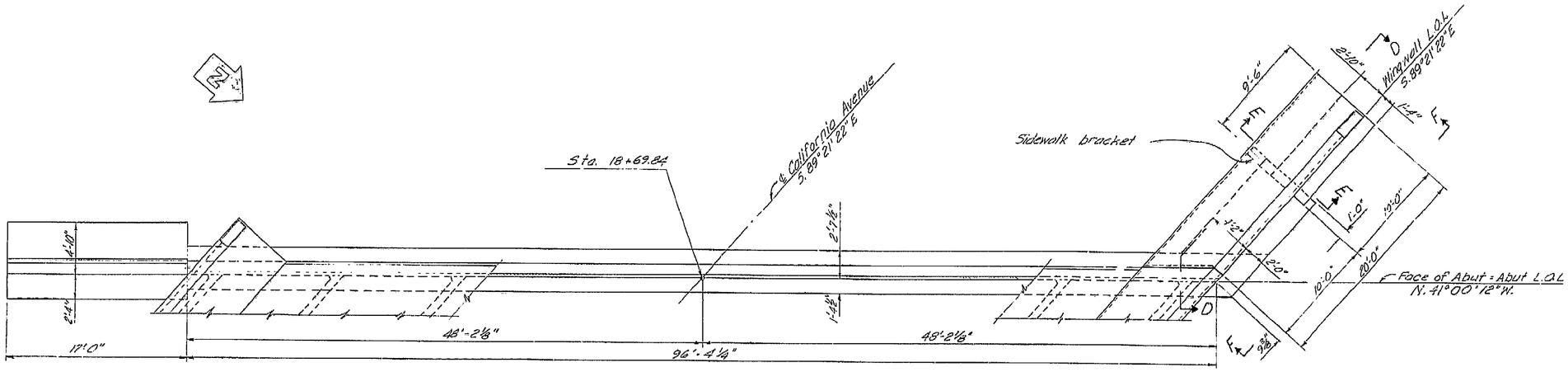
V-006-2(6)
F-006-2(5)

FED. ROAD DIV. No.	STATE	F. A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.		332	422

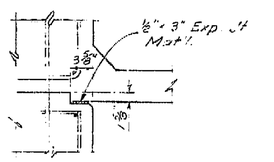
DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	Fre	180	10.7 to FRE	16	

BRIDGE ENGINEER — CIVIL ENGINEER — LICENSE 5088

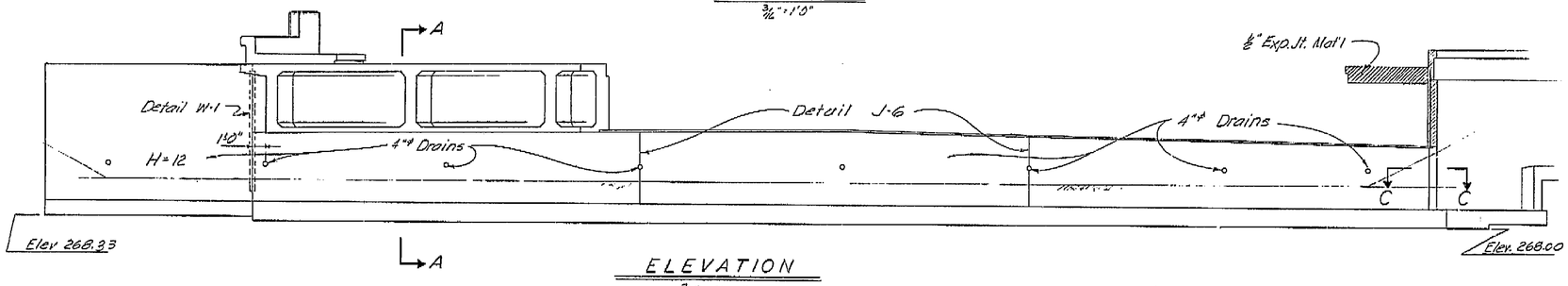
DATE APPROVED August 28, 1961



PLAN
3/16" = 1'-0"

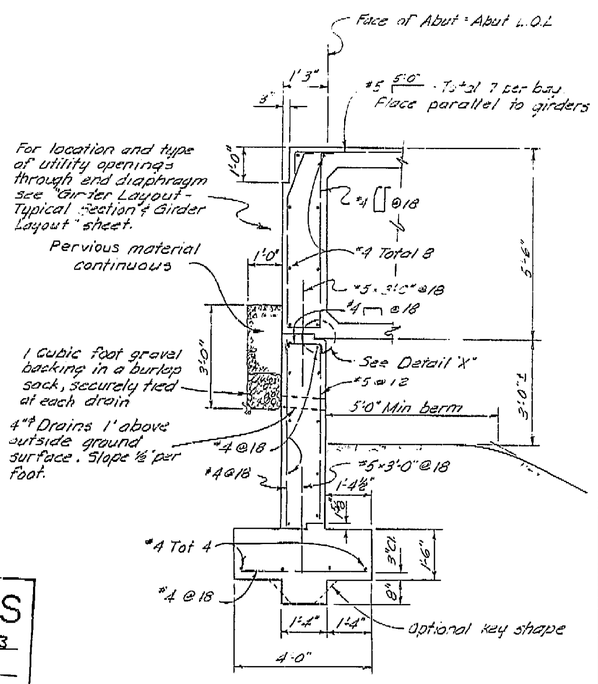


DETAIL "X"
1" = 1'-0"

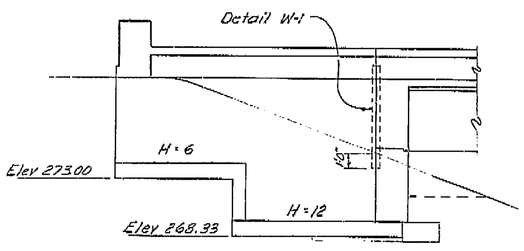


ELEVATION
3/16" = 1'-0"

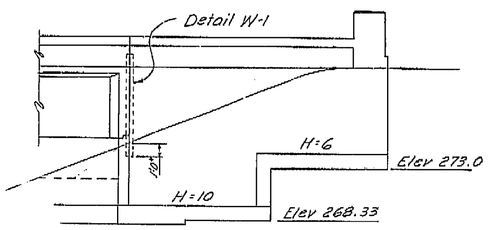
Note: For sections C-C, D-D & E-E see "Abutment No. 5 Details" sheet.
For Detail J-6 see "Type 1A Cantilever Retaining Wall" sheet



SECTION A - A
½" = 1'-0"



ELEVATION G-G
3/16" = 1'-0"



ELEVATION F-F
3/16" = 1'-0"

Note: For wingwall details not shown see "Type 1-A Cantilever Retaining Wall" sheet

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer
Chief Designer

DESIGN	By D.A. Smith 9/60	Checked R.N. Amirikas 12/60	
DETAILS	By K.C. Blechinger 10/60	Checked R.N. Amirikas 12/60	
QUANTITIES	By L.A.S.	Checked O.R. Pollock 11/60	
SPECIFICATIONS	By	Plans and Specs. Completed	

Approval Recommended by
Civil Engr. License No. 5088

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CALIFORNIA AVENUE OVERCROSSING

ABUTMENT No. 1 DETAILS

SCALE: As Noted | BRIDGE: 42-217 | FILE | DRAWING C-7075-4

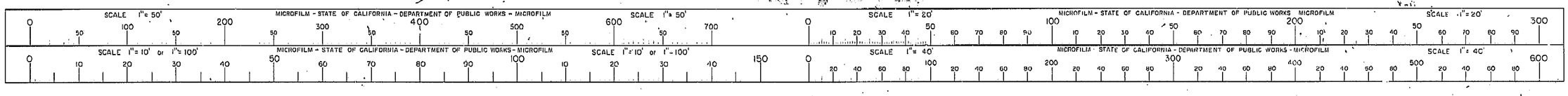
Disregard prints bearing earlier numbers → PREL. DRAWING No. P- 7075 | 6 | 12 | 29

332

564

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-12-62 SIGNATURE _____ TITLE _____



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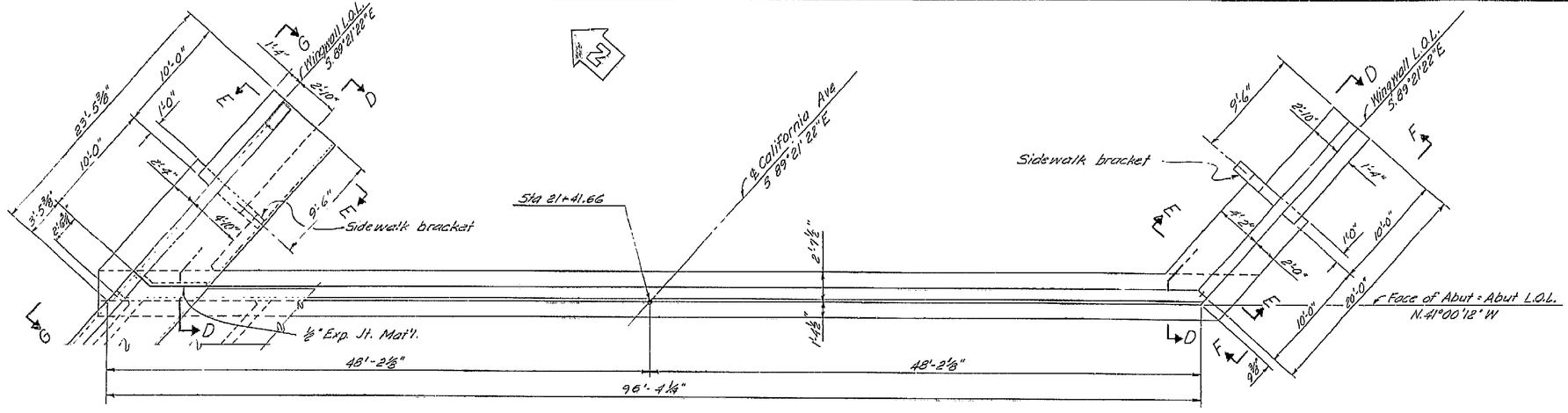
VI	Fre	99

U-006-2(6)
F-006-2(5)

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7	CALIF.		333	414

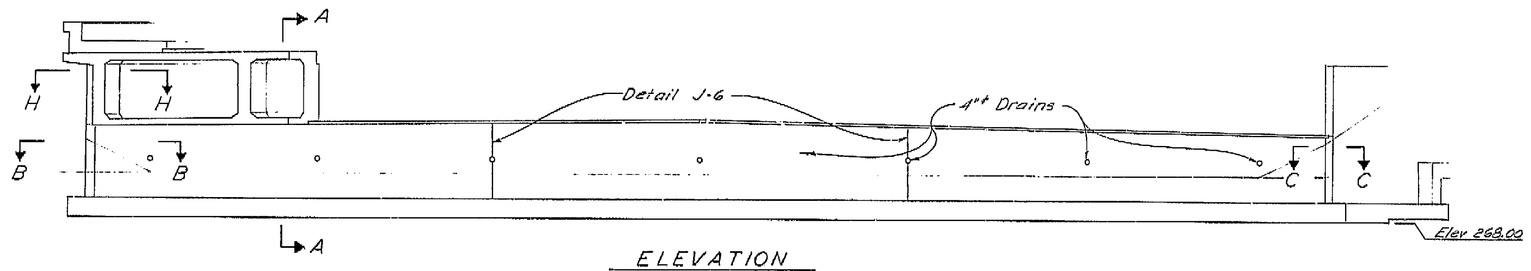
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	99			

DATE APPROVED August 28 1961

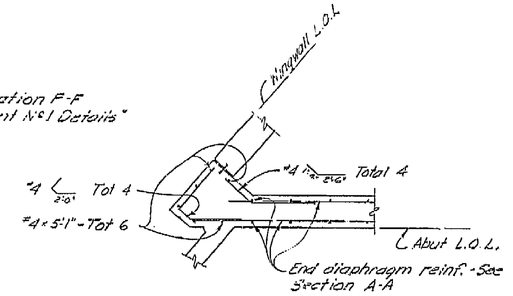


PLAN
3/16" = 1'-0"

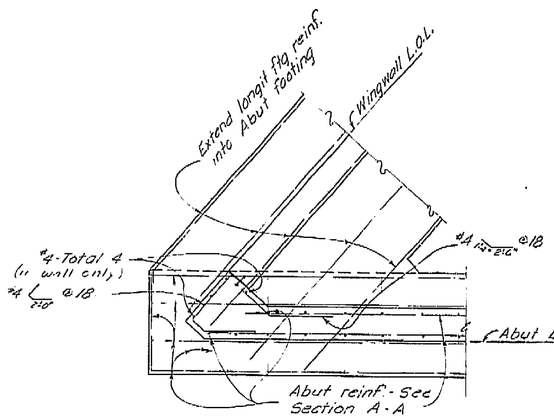
Note: For Section A-A, Elevation F-F and G-G see "Abutment No. 1 Details" sheet



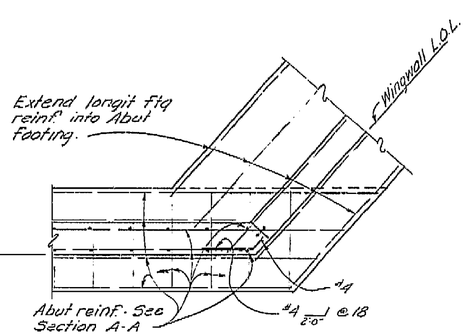
ELEVATION
3/16" = 1'-0"



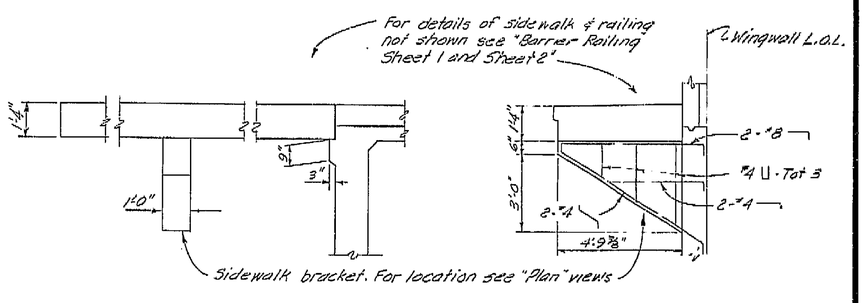
SECTION H-H
3/8" = 1'-0"



SECTION B-B
3/8" = 1'-0"



SECTION C-C
3/8" = 1'-0"



SECTION D-D
3/8" = 1'-0"

SECTION E-E
3/8" = 1'-0"

AS BUILT PLANS
Contract No. 62-671303
Date Completed
Document No. 6000062

333

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer: [illegible]
Chief Designer: [illegible]

DESIGN	By D.A. Smith 9/60	Checked R.N. Amoka 12/60
DETAILS	By K.C. Blechinger 10/60	Checked R.N. Amoka 12/60
QUANTITIES	By [illegible]	Checked D.F. Pollock 9/61
SPECIFICATIONS	By	Plans and Specs. Completed

Approval Recommended by: [illegible] Engineer of Design
Civil Engr. License No. 5439

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CALIFORNIA AVENUE OVERCROSSING

ABUTMENT No. 5 DETAILS

SCALE: As Noted | BRIDGE 42-217 | FILE | DRAWING C-7075-5

Disregard prints bearing earlier numbers → PREL. DRAWING NO. P. 7075 | 28 | 30

56

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-12-72 SIGNATURE [illegible] TITLE [illegible]

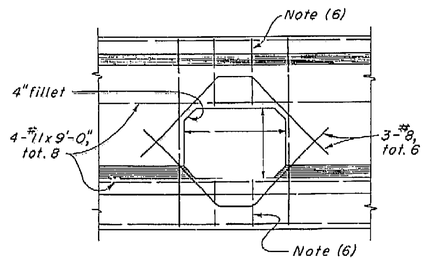
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SCALE 1"= 10' or 1"= 100' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"= 10' or 1"= 100'
SCALE 1"= 20' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"= 20'
SCALE 1"= 40' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"= 40'

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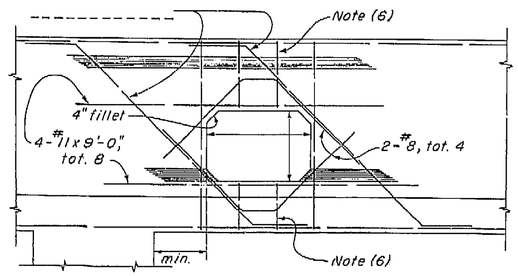
STANDARD DRAWING
DESIGN DETAILS
BRIDGE DEPARTMENT

AS BUILT PLANS
Contract No. 62-671303
Date Completed
Document No. 6000062

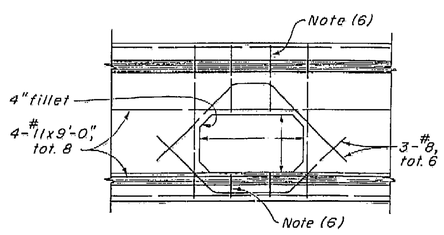
340



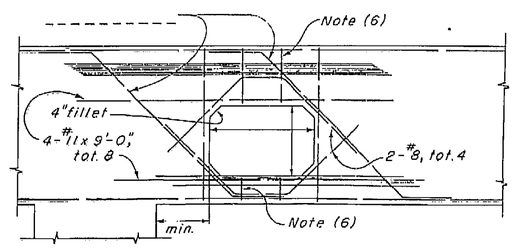
TYPICAL
DETAIL U1



NEAR COLUMN
DETAIL U2

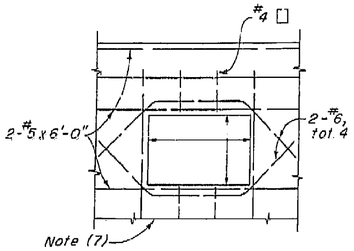


TYPICAL
DETAIL U3

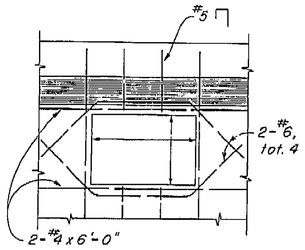


NEAR COLUMN
DETAIL U4

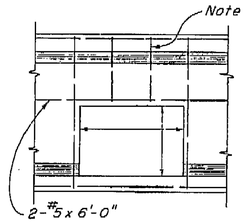
BENT CAP



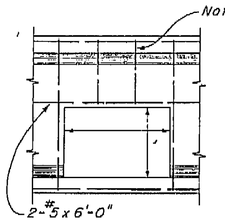
RIGID FRAME
DETAIL U5



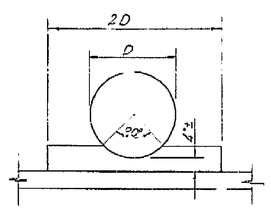
CANTILEVER TYPE
DETAIL U6

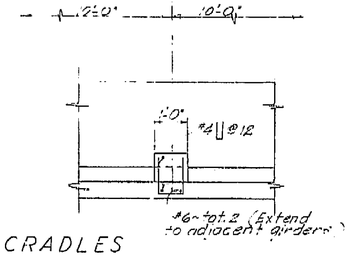


END
DETAIL U7



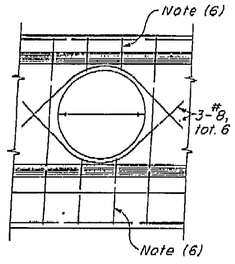
INTERMEDIATE
DETAIL U8



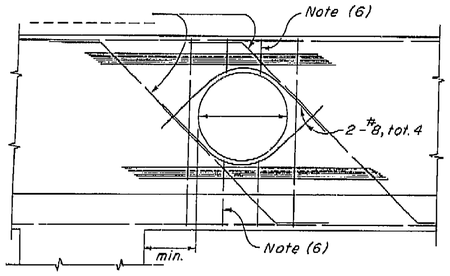


PIPE CRADLES

ABUTMENT BACKWALL

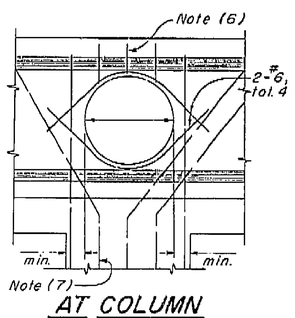


TYPICAL
DETAIL U9

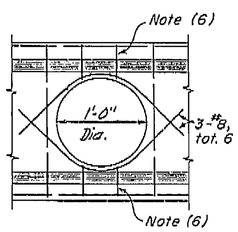


NEAR COLUMN
DETAIL U10

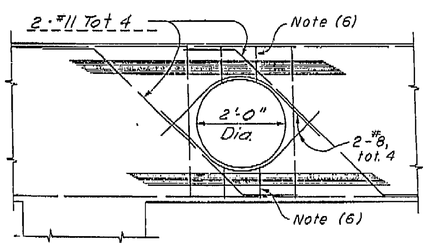
DIAPHRAGMS



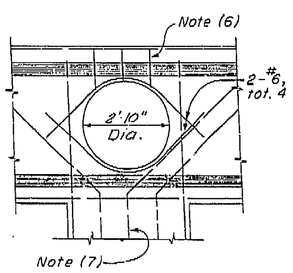
AT COLUMN
DETAIL U11



TYPICAL
DETAIL U12

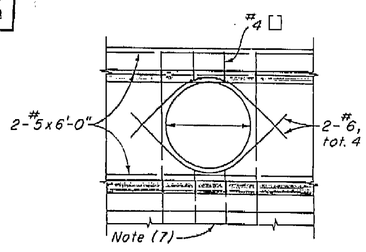


NEAR COLUMN
DETAIL U13

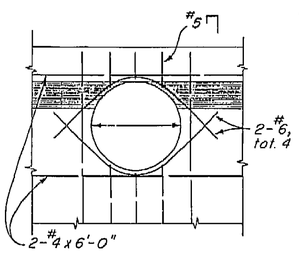


AT COLUMN
DETAIL U14

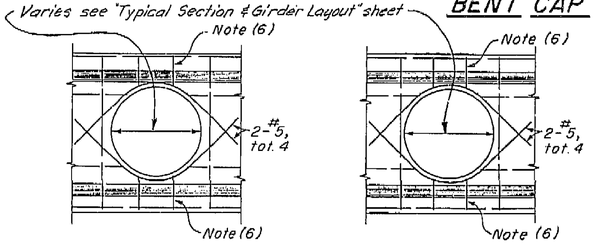
BENT CAP



RIGID FRAME
DETAIL U15



CANTILEVER TYPE
DETAIL U16



END
DETAIL U17

INTERMEDIATE
DETAIL U18

NOTES

(1) For exact location and direction of openings see other sheets.
(2) Location and size of utility openings may be modified as directed by the Engineer, provided minimum dimensions are maintained.
(3) Girders not shown, see other sheets.
(4) Seal around utilities at abutments to be of sufficient strength to withstand earth pressure.
(5) All reinforcement detailed to be placed in addition to reinforcement shown on other sheets.
(6) Stirrups are same size as adjacent stirrups shown on other sheets.
(7) Main reinforcement to clear opening as detailed on other sheets.

ABUTMENT BACKWALL
DIAPHRAGMS

BRIDGE DEPARTMENT
DESIGN SECTION 2
PROJECT DESIGNER
CHIEF DESIGNER W.J. Hurlbut

DESIGN	BY D.A. Smith 9/60	CHECKED R.N. Amoka 12/60
DETAILS	BY K.C. Blechinger 10/60	CHECKED R.N. Amoka 12/60
QUANTITIES	BY	CHECKED D.P. Pollock 7/61
SPECIFICATIONS	BY	PLANS AND SPECS. COMPARED
APPROVAL RECOMMENDED BY	Engineer of Design	Civil Engr License No. 5417

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CALIFORNIA AVENUE OVERCROSSING

STANDARD UTILITY DETAIL NO. 1

SCALE None. | BRIDGE : 42-217 | XS-16-49 FILE | DRAWING B-7075-12

PREL. DRAWING NO. P-7075 13 35 36 41

572

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-13 SIGNATURE TITLE

SCALE 1"= 50' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"= 50'
SCALE 1"= 20' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"= 20'
SCALE 1"= 10' or 1"= 100' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"= 10' or 1"= 100'
SCALE 1"= 40' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"= 40'

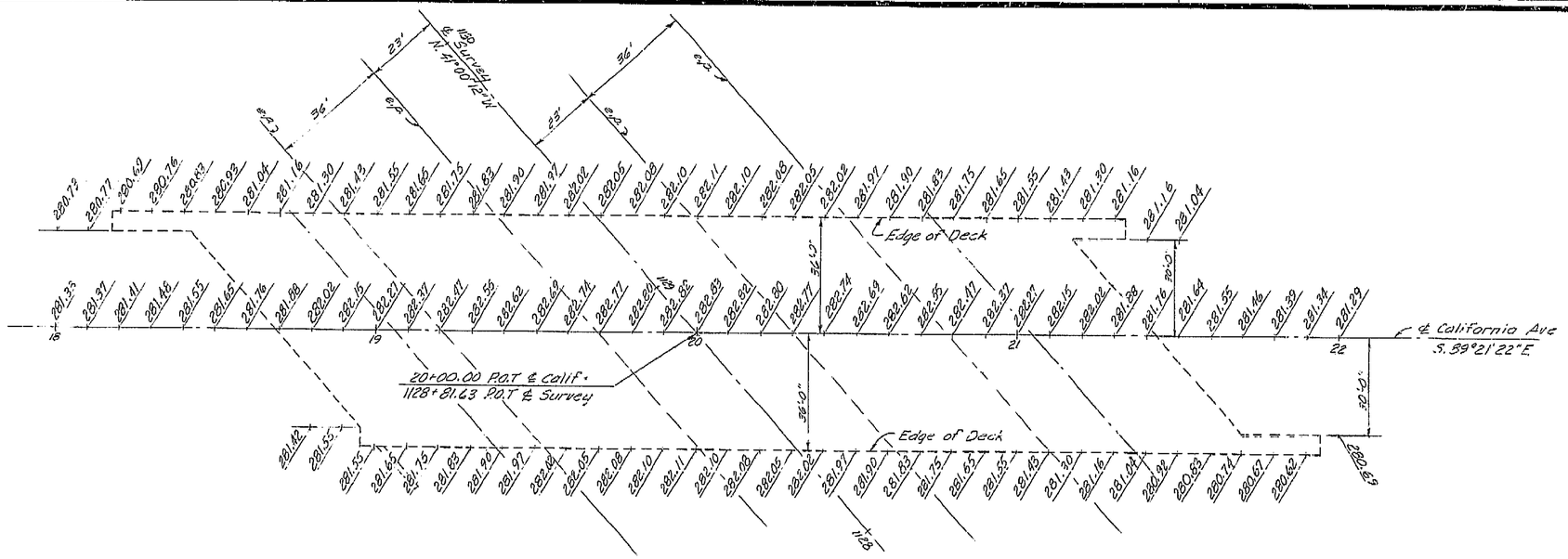
ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.		330	424

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	~~4~~ 99	~~FRE~~	~~2~~ 2	~~2~~ 10

NATIONAL ENGINEER CIVIL ENGINEER—LICENSE 3585

DATE APPROVED August 28 1961



GENERAL NOTES

Specifications:
Design: A.A.S.H.O. dated 1957 with revisions and as supplemented by Bridge Planning and Design Manual.

Construction: Standard Specifications, Division of Highways, dated January 1960 and the Special Provisions.

Live Loading: H20-S16-44 and alternative

Unit Stresses:
Reinforced Concrete: fs = 20,000 p.s.i.
n = 10
fc = 1,200 p.s.i.

Footing Pressure: 3½ Tons per sq. ft.

Note: Elevations are figured normal to ℄ California Avenue at 10' stations. These elevations do not include camber

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

330

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer: Ed
Chief Designer: W.J. Hall

DESIGN	by D.A. Smith 9/60	Checked R.N. Amirikian 12/60	
DETAILS	by K.C. Blechinger 10/60	Checked R.N. Amirikian 12/60	
QUANTITIES	by C.J.	Checked D.P. Pollock 9/61	
SPECIFICATIONS	by	Plans and Specs. Prepared	

Approved Recommended by: Engineer of Design — Civil Engr. License No. 9459

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CALIFORNIA AVENUE OVERCROSSING

GRID OF DECK ELEVATIONS

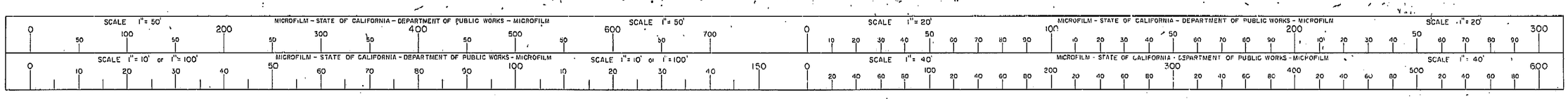
SCALE: 1"=20' | BRIDGE: 42-217 | FILE | DRAWING C-7075-2

Disregard prints bearing earlier numbers → PREL. DRAWING No. P-7075 | 3

582

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-12-72 SIGNATURE [illegible] TITLE [illegible]



ClibPDF - www.fastio.com

V-1 | Fre | 99

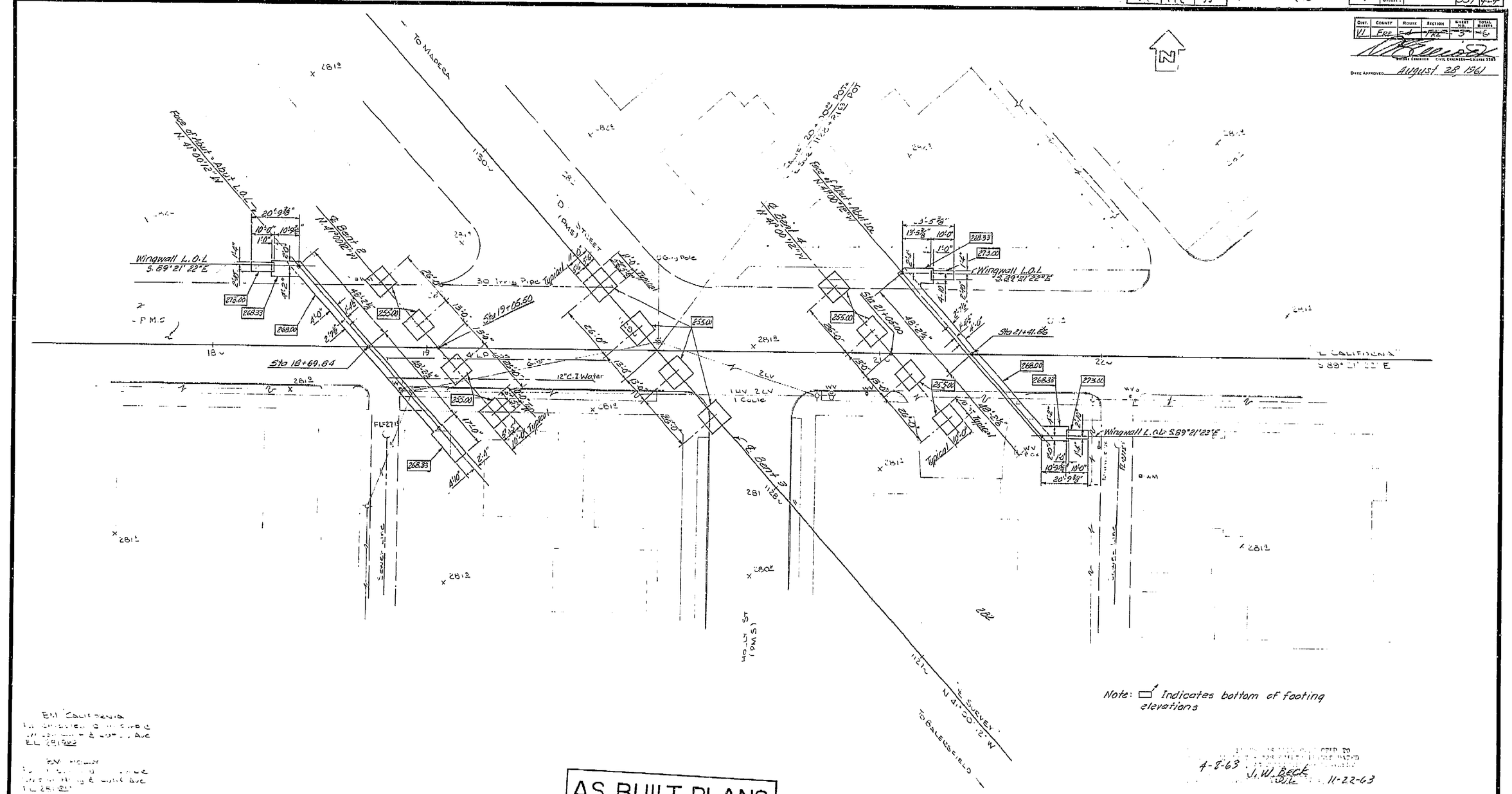
U-006-2(6)
F-006-2(5)

FED. ROAD DIV. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.		331	434

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	5	Fre	5	6

BRIDGE ENGINEER — CIVIL ENGINEER—License 5595

DATE APPROVED August 28 1961


TO MADERA
Face of Abut. = Abut 1 o.l.
N 4°00'12" W
Wingwall L.O.L
S 89°21'22" E
℄ Bent 2
N 4°00'12" W
Sta 19+05.50
Sta 18+69.64
30" Irrig. Pipe Typical
12" C.I. Water
1 UV, 2 LV
1 Conduit
℄ Bent 3
N 41°00'12" W
Face of Abut. = Abut 1 o.l.
N 41°00'12" W
Sta 21+05.00
Sta 21+41.66
Wingwall L.O.L
S 89°21'22" E
℄ CALIFORNIA
S 89° 21' 22" E
Wingwall L.O.L S 89°21'22" E
D (DMS) STREET
Survey
N 41°00'12" W
TO BALLENGER FIELD
Typical 10'-0"
Typical 11'-0"
Typical 10'-0"
Typical 10'-0"
Typical 10

California Department of Transportation
Division of Maintenance

Structure Maintenance and Investigations

BRIDGE

INSPECTION

RECORDS

INFORMATION

SYSTEM

The requested documents have been generated by BIRIS.

These documents are the property of the California Department of Transportation and should be handled in accordance with Deputy Directive 55 and the State Administrative Manual.

Records for “Confidential” bridges may only be released outside the Department of Transportation upon execution of a confidentiality agreement.

VI | Fre | 99

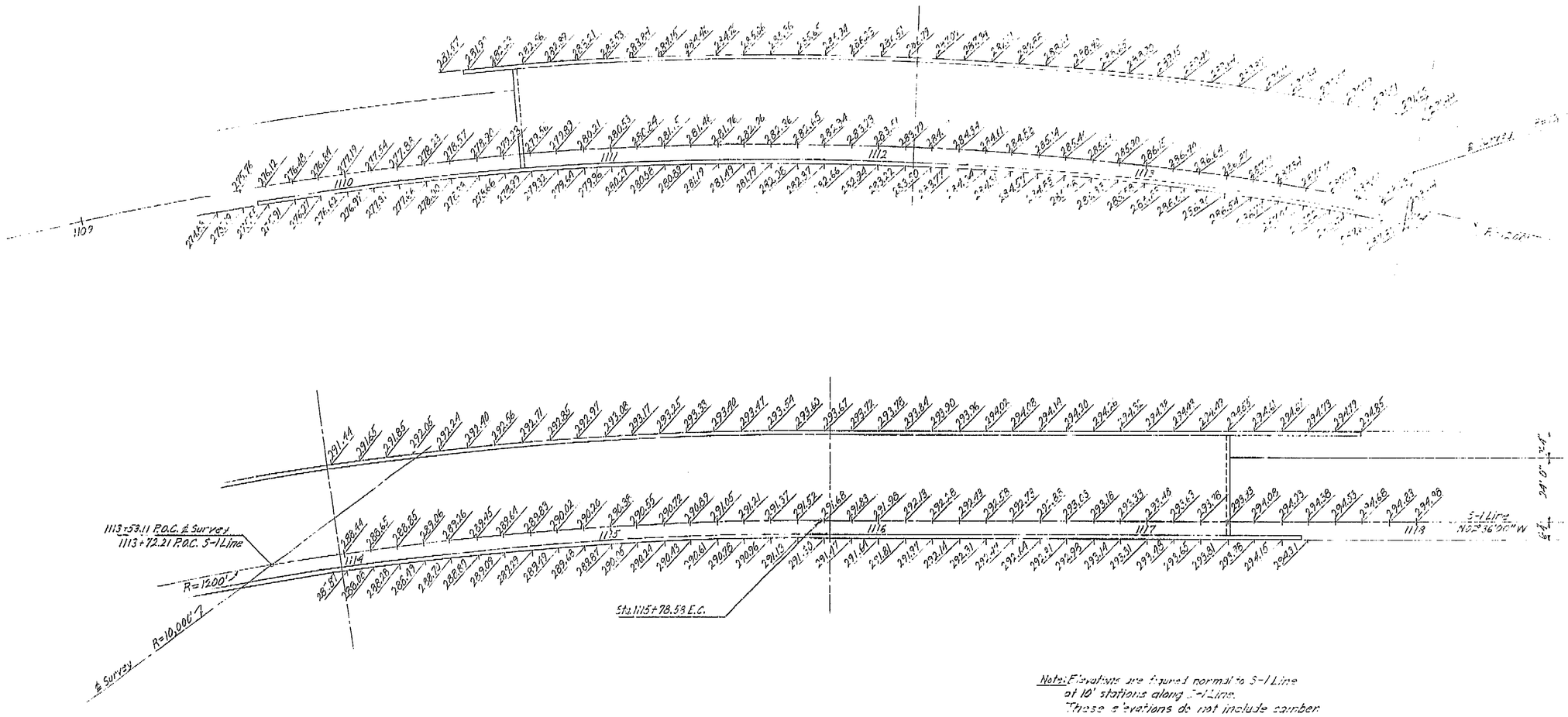
11-006-2(6)
F-006-2(5)

FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
7	CALIF.		310	424

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
11	San.	99	Fresno	2	

BRIDGE ENGINEER CIVIL ENGINEER—LICENSE 9883

DATE APPROVED August 28, 1961



Note: Elevations are figured normal to S-1 Line at 10' stations along S-1 Line. These elevations do not include camber.

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

BRIDGE DEPARTMENT				
DESIGN SECTION 2				
Project Designer				
Chief Designer				
DESIGN	By R.J. Juroch 9/61	Checked		
DETAILS	By H.N. Dahl 10/60	Checked		
QUANTITIES	By H.N. Dahl 4/61	Checked	D. SHELTON 9/61	
SPECIFICATIONS	By	Plans and Spec. Checked		
Approval Recommended by	Engineer of Design	Civil Engr. License No. 9883		

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ROUTE 99 ON RAMP O.C.

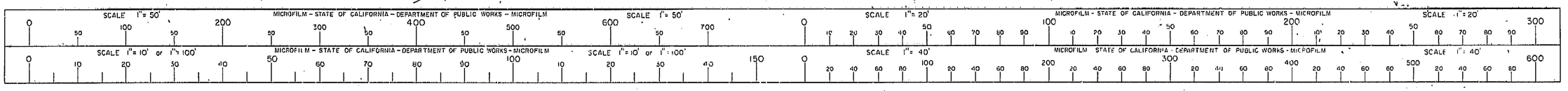
GRID OF DECK ELEVATIONS

SCALE 1"=20' | BRIDGE 42-216 | FILE | DRAWING C-42216-2

Disregard prints bearing earlier numbers → PREL. DRAWING No. P-42216-2 | 60 | 3/9 | 572

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-12-72 SIGNATURE [illegible] TITLE [illegible]



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VI | Fre | 99

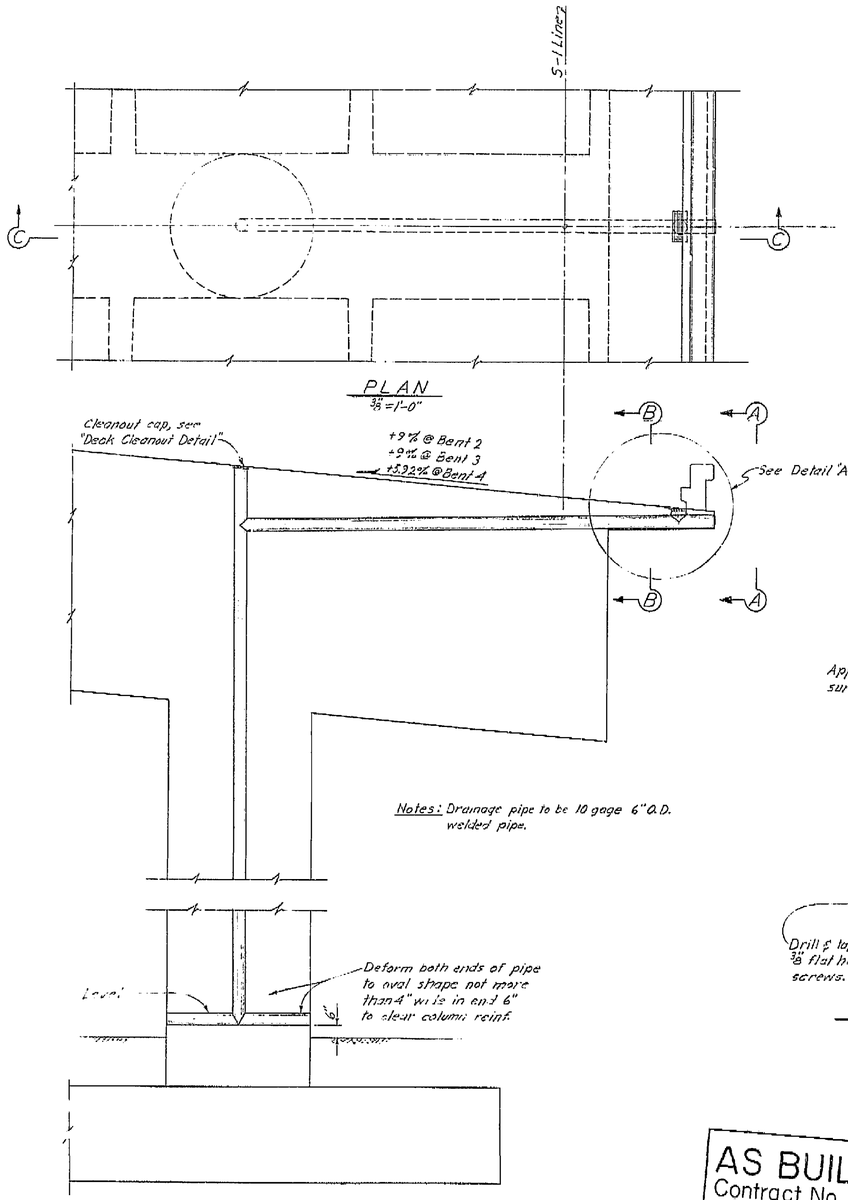
U-006-2 (6)
F-006-2 (5)

FED. ROAD DIV. NO.	STATE	F. A. PROJECT Nr.	SHEET No.	TOTAL SHEETS
7	CALIF.		324	422

DIST.	COUNTY	ROUTE	REGION	POST MILE	TOTAL SHEETS
VI	Fre			6.4/6.6	20

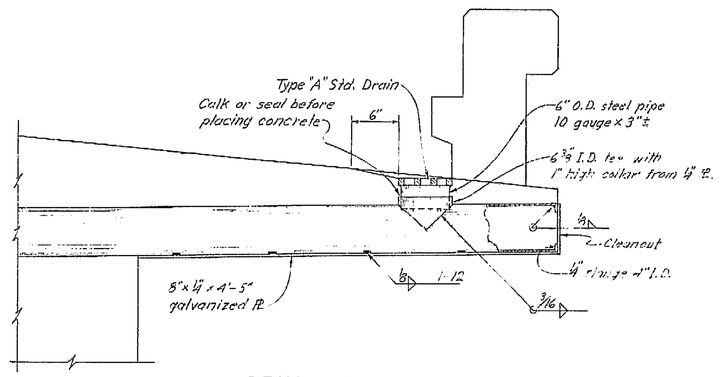
BRIDGE ENGINEER — CIVIL ENGINEER — LICENSE 5585

DATE APPROVED: August 28 1961

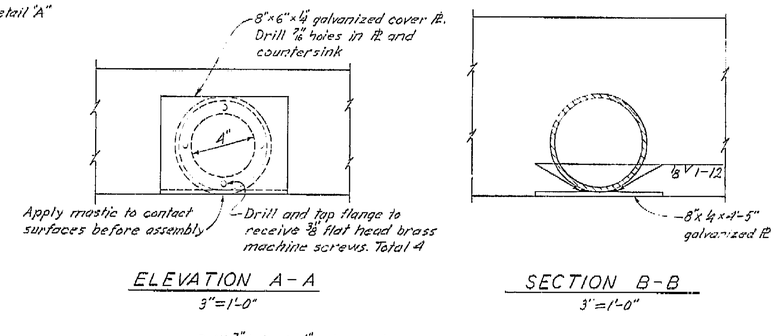


Notes: Drainage pipe to be 10 gage 6" O.D. welded pipe.

SECTION C-C
3/8"=1'-0"

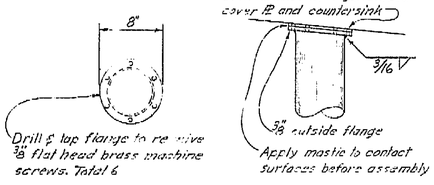


DETAIL A
12"=1'-0"

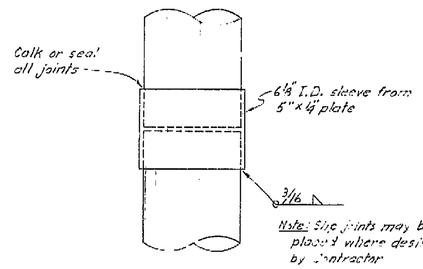


ELEVATION A-A
3"=1'-0"

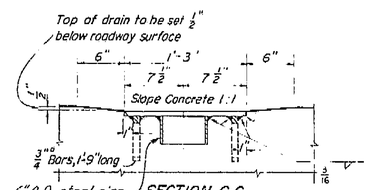
SECTION B-B
3"=1'-0"

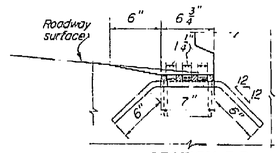


DECK CLEANOUT DETAIL
1 1/2"=1'-0"



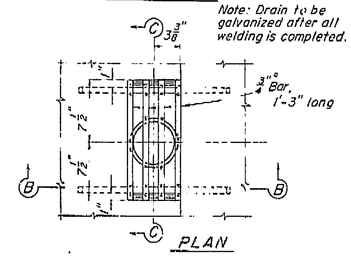
SLIP JOINT





SECTION B-B

Note: Drain to be galvanized after all welding is completed.



DRAIN DETAIL TYPE "A"
3 Required
Scale 1 1/2"=1'-0"

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

BRIDGE DEPARTMENT
··· DESIGN SECTION ···
2

Project Designer: Emil Gin Sutton
Chief Designer: Alfred Vanderveld

DESIGN	By P.J. Jörach 7/61	Checked	D.L. Tim 7/61	
DETAILS	By H.N. Dahl 7/61	Checked	C.L. 7/61	
QUANTITIES	By H.N. Dahl 7/61	Checked	O. SUZUKI 7/61	
SPECIFICATIONS	By	Plans Initiated		

Approval Recommended by: Engineer of Design — Civil Engr. License No. 5459

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ROUTE 99 ON RAMP O.C.

DRAINAGE DETAILS

SCALE As Noted | BRIDGE 42-216 | FILE | DRAWING C-42216-18

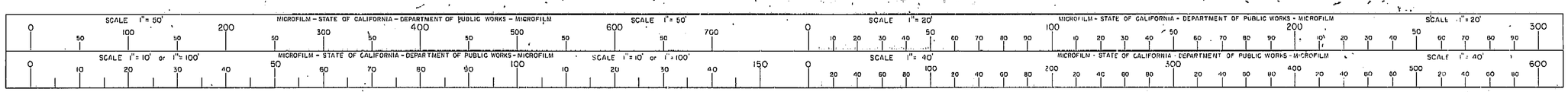
Disregard prints bearing earlier numbers →

PREL. DRAWING No. P-42216-19	5/16	3/13	3/20						

324

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-12-72 SIGNATURE [illegible] TITLE [illegible]



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VI | Fre | 99

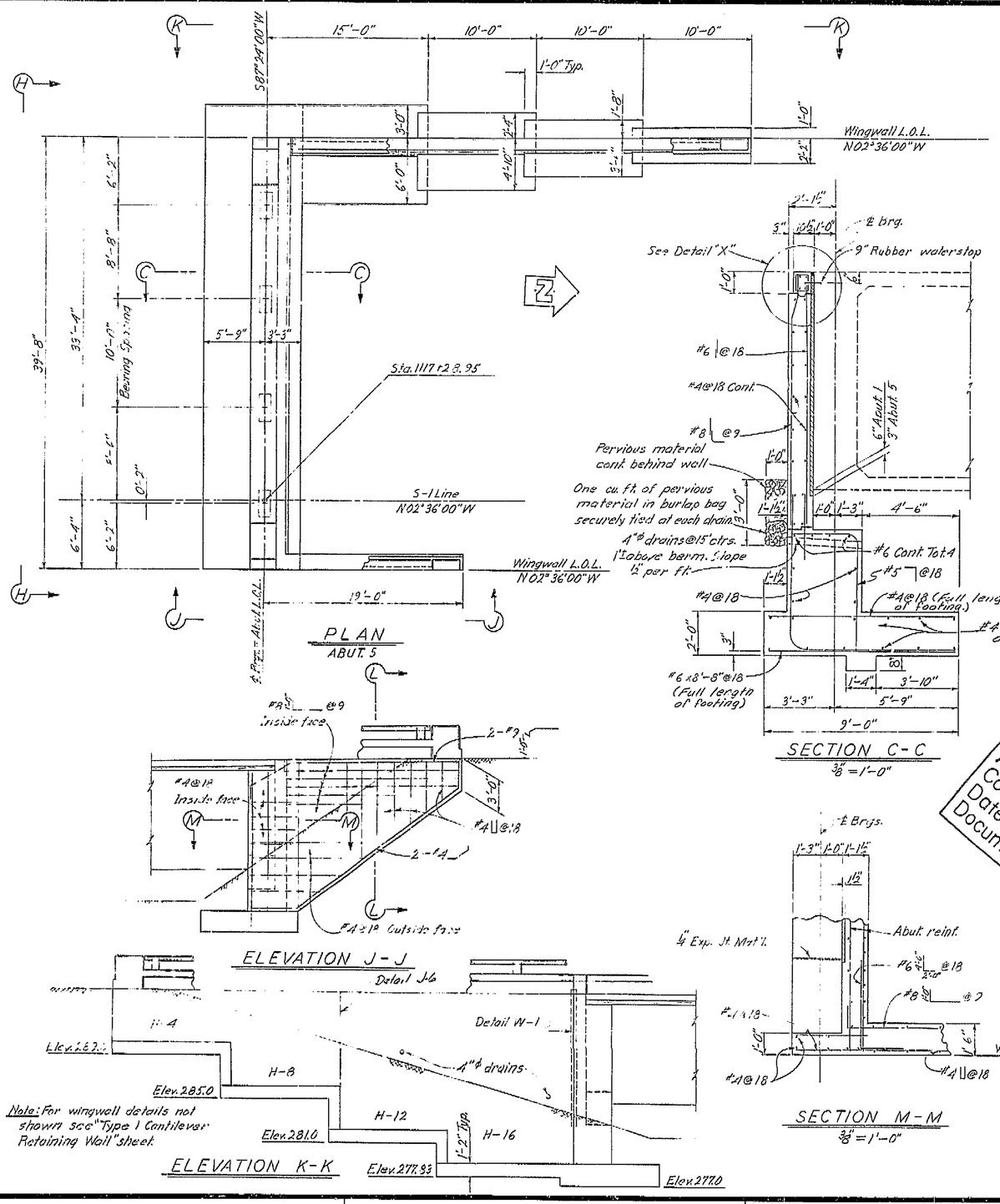
U-006-2(6)
F-006-2(5)

FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.		313	424

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	Fresno	99	Fresno		

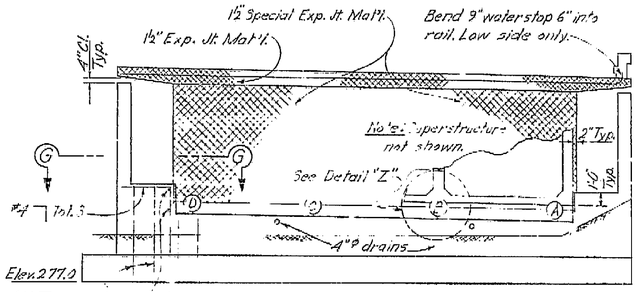
BRIDGE ENGINEER — CIVIL ENG. REG.—License 5583

DATE APPROVED August 28, 1961



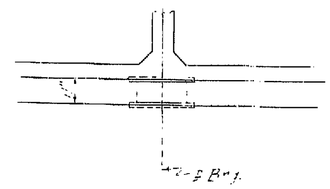
PLAN
ABUT. 5

SECTION C-C
3/8" = 1'-0"

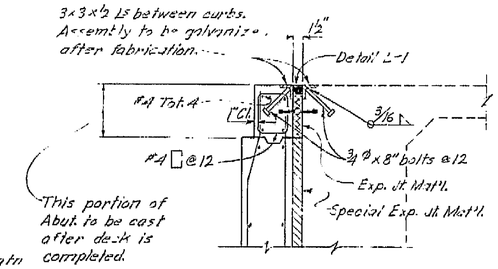


ELEVATION H-H

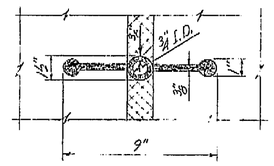
Notes: For Section S-S, Abutment 1 Detail 5 sheet. See Special Provisions for Special Exp. Jt. Mat'l.



DETAIL Z
3/8" = 1'-0"



DETAIL "X"
3/4" = 1'-0"

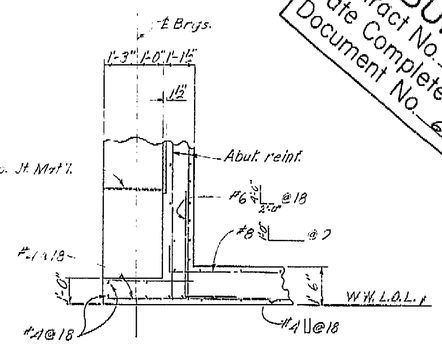


9" RUBBER WATERSTOP

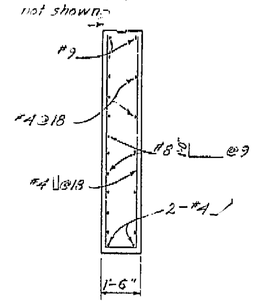
ELEVATION J-J

Note: For wingwall details not shown see "Type 1 Cantilever Retaining Wall" sheet.

ELEVATION K-K



SECTION M-M
3/8" = 1'-0"



SECTION L-L
3/4" = 1'-0"

AS BUILT PLANS
Contract No. 62-671363
Date Completed
Document No. 6000062

BRIDGE DEPARTMENT — DESIGN SECTION 2			
Project Designer: E. L. Peterson			
Chief Designer: W. A. Goodman			
DESIGN	By R.J. Jorach 3/61	Checked R.A. Sarrem 3/61	
DETAILS	By H.N. Dahl 3/61	Checked O.K. Swanson 4/61	
QUANTITIES	By H.N. Dahl 4/61	Checked O. Swanson 4/61	
SPECIFICATIONS	By	Plans and Spec. Compared	
Approval Recommended by: R. L. Peterson, Engineer of Design		Civil Engr. License No. 5438	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ROUTE 99 ON RAMP O.C.

ABUTMENT DETAILS NO. 2

Except As Noted SCALE 3/8" = 1'-0" | BRIDGE 42-216 | FILE | DRAWING C.42216-5

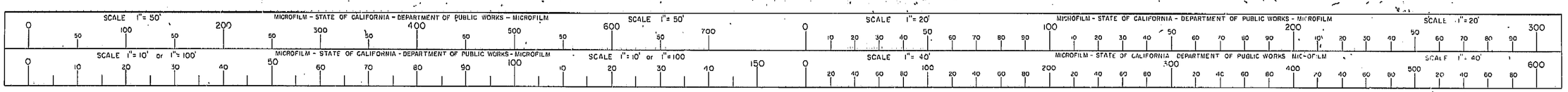
Disregard prints bearing earlier numbers → PREL. DRAWING No. P-42216-5 | 1/32 | 1/16 | 3/16 | 3/32 | 1/4

52

3/3

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-12-12 SIGNATURE _____ TITLE _____



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VI | Fre | 99

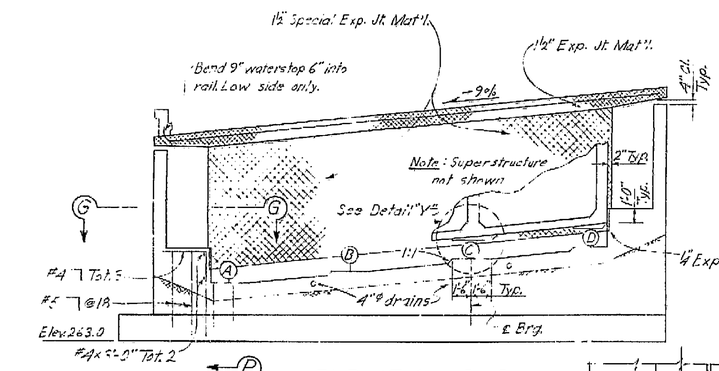
D-006-2(6)
F-006-2(5)

FED. ROAD DIV. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.		312	424

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
4	Fre	[illegible]	[illegible]	[illegible]	[illegible]

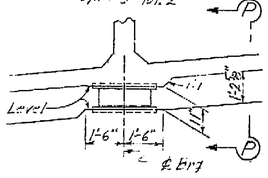
BRIDGE ENGINEER — CIVIL ENGINEER—LICENSE 8888

DATE APPROVED August 20, 1961

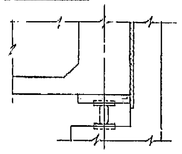


ELEVATION D-D

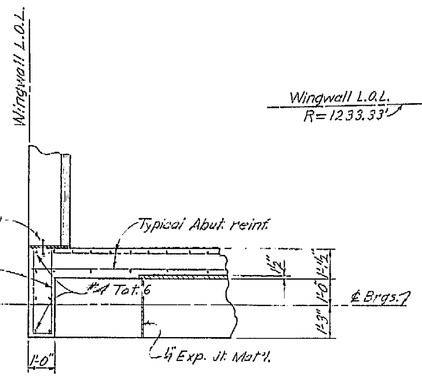
Note: [illegible] For Special Exp. Jt. Mat'l.



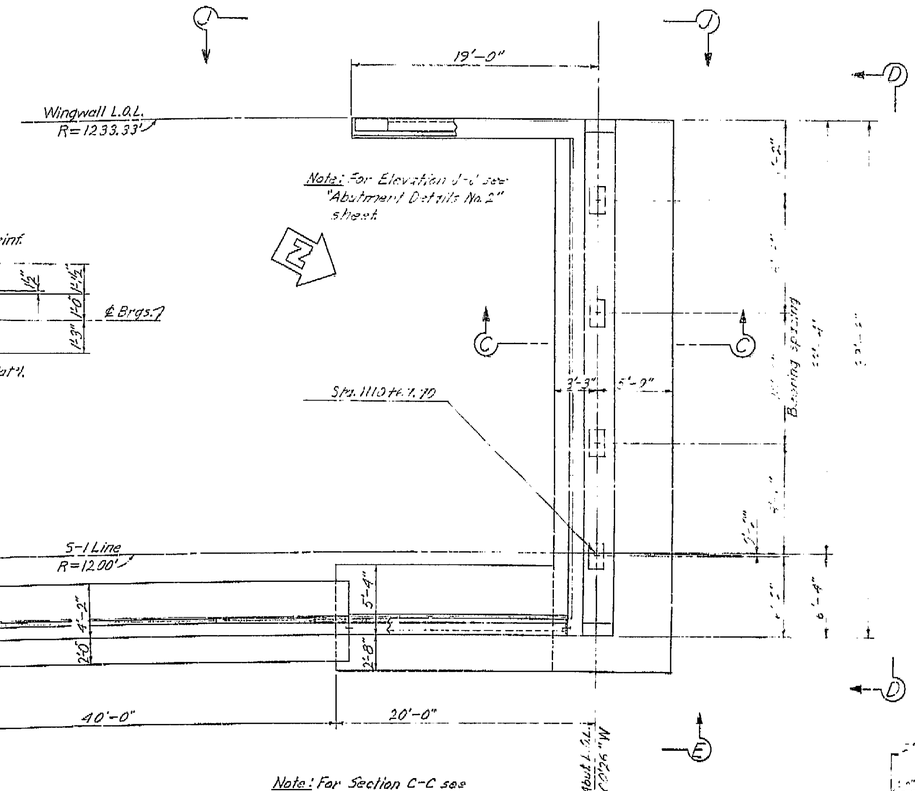
DETAIL Y
3/8" = 1'-0"



SECTION P-P
3/8" = 1'-0"

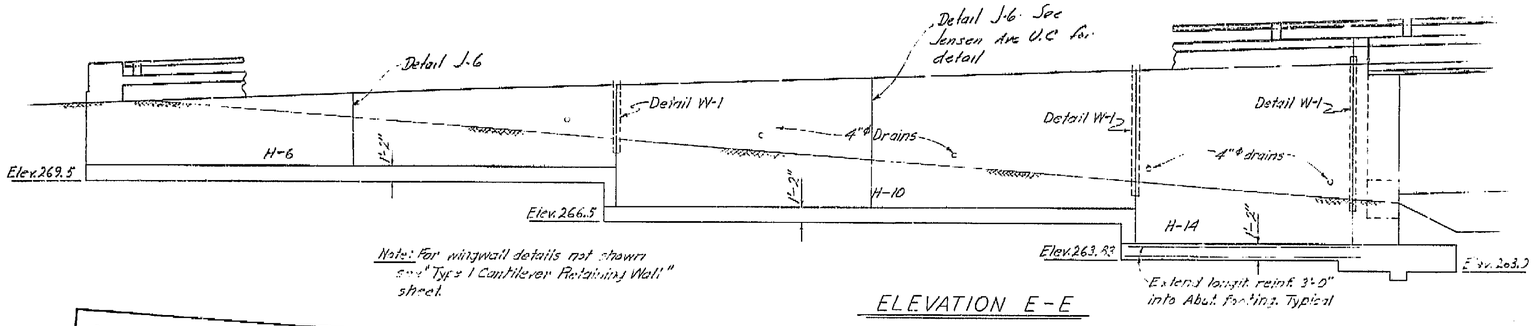


SECTION G-G
3/8" = 1'-0"



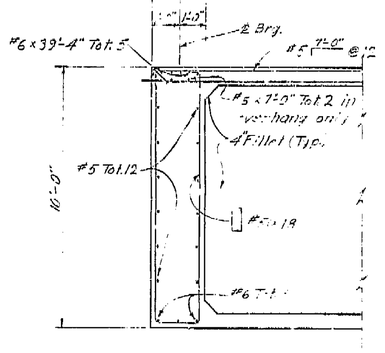
PLAN
ABUT. 1

Note: For Section C-C see "Abutment Details No. 2" sheet.



Note: For wingwall details not shown see "Type 1 Cantilever Retaining Wall" sheet.

ELEVATION E-E



END DIAPHRAGM
3/8" = 1'-0"

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 62001062

TOP OF MASONRY ℄ ELEVATIONS

BEARING	ABUT 1	ABUT 5
A	268.47	282.98
B	269.25	283.15
C	270.15	283.35
D	270.93	283.50

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer: [illegible]
Chief Designer: W.O. Jurasek

DESIGN	By P.J. Jurach 3/61	Checked D.A. Smith 3/61
DETAILS	By H.N. Dahl 1/61	Checked W.A. Smith 3/61
QUANTITIES	By H.N. Dahl 4/61	Checked O. SHELTON 4/61
SPECIFICATIONS	By	Plans and Specs. Completed

Approval Recommended by [illegible] Engineer of Design — Civil Engr. License No. 8888

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ROUTE 99 ON RAMP O.C.

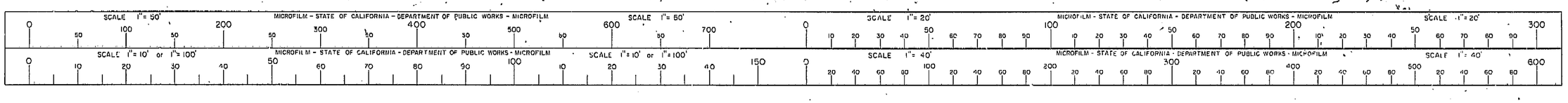
ABUTMENT DETAILS NO 1

Except As Noted SCALE 3/16" = 1'-0" | BRIDGE 42-216 | FILE | DRAWING C 42216-4

Disregard prints bearing earlier numbers → PREL. DRAWING NO. P-42216-4 | 1/61 | 3/6 | 3/20 | 7/1

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-13-72 SIGNATURE [illegible] TITLE [illegible]



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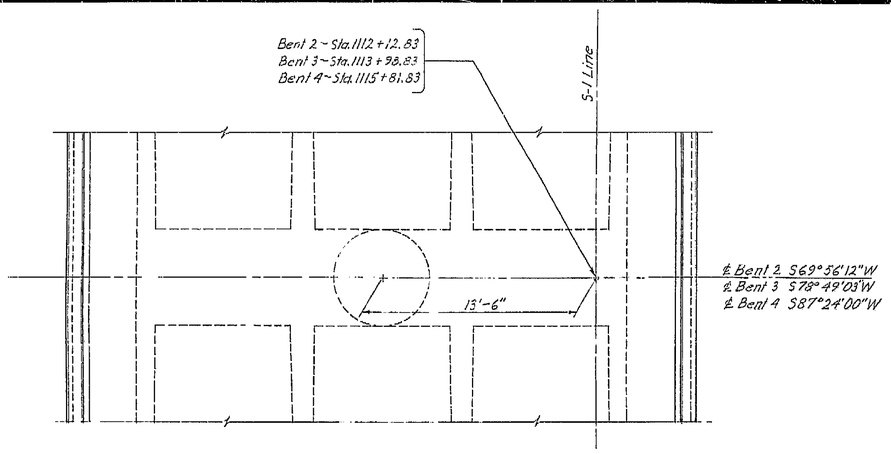
VI | Fre | 99

U-006-2(6)
F-006-2(5)

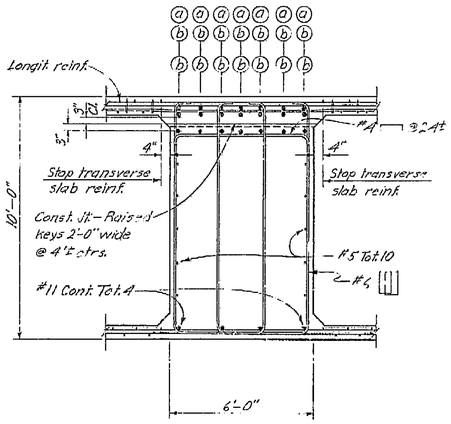
FED. ROAD SYS. NO.	STATE	F. A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.		3/6	424

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	Fre	99	0.0/R0.0	3/6	424

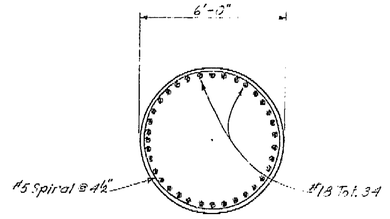
DATE APPROVED: AUGUST 28, 1961



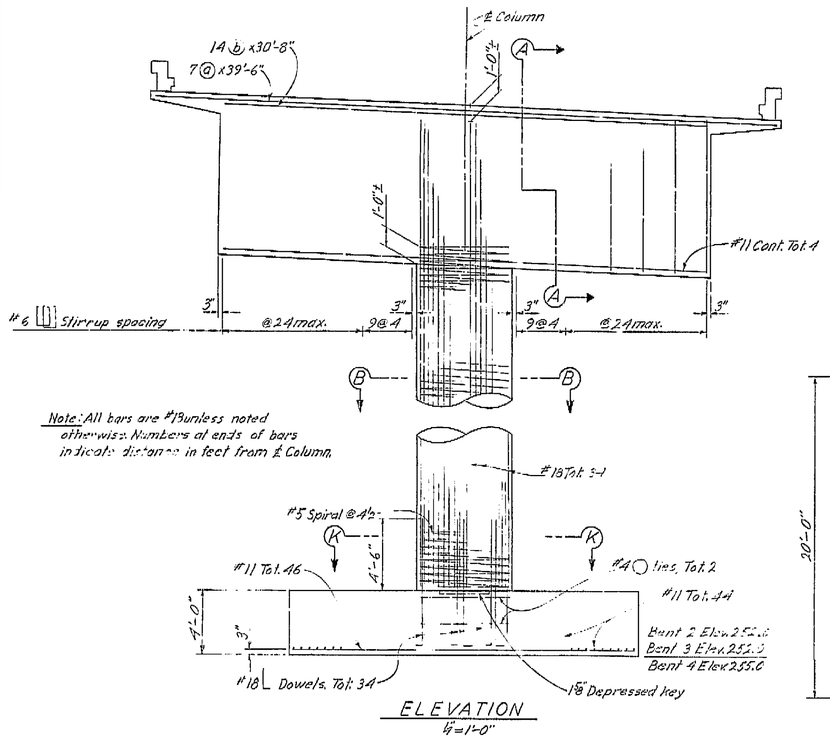
PLAN
4'=1'-0"



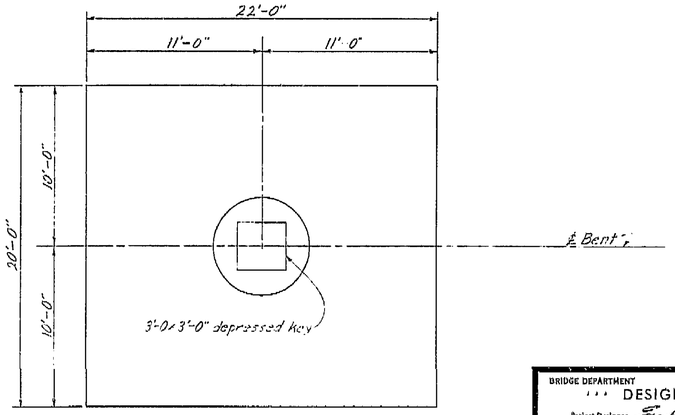
SECTION A-A
3/8"=1'-0"



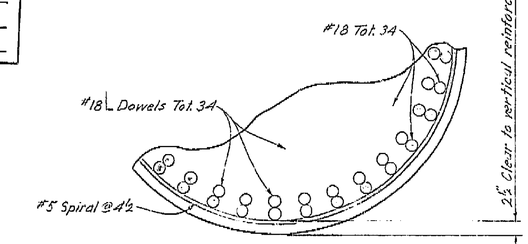
SECTION B-B
3/8"=1'-0"



ELEVATION
½"=1'-0"



TYPICAL FOOTING PLAN
½"=1'-0"



PART SECTION K-K
1"=1'-0"

AS BUILT PLANS
Contract No. 62-671363
Date Completed
Document No. 60001062

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer: Eric G. Fitzhugh
Chief Designer: W. W. Sentenac

DESIGN	By	R.J. Juroch	2/61	Checked	D.A. Smith 2/61
DETAILS	By	H.N. Dahl	12/60	Checked	— A.S. 3/61
QUANTITIES	By	H.N. Dahl	4/61	Checked	D. Shelton 4/61
SPECIFICATIONS	By			Plans and Elevs. Compared	

Approval Recommended by: [signature] Engineer of Design — Civil Engr. License No. 8430

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ROUTE 99 ON RAMP O.C.

BENT DETAILS

SCALE	BRIDGE	FILE	DRAWING
As Noted	42-216		C-42216-8

Disregard prints bearing earlier numbers → PREL. DRAWING No. P-42216-8 (12/61, 3/10, 3/62, 5/14)

5-48

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-12-72 SIGNATURE [signature] TITLE [illegible]

SCALE 1"= 50' MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM SCALE 1"= 20'
SCALE 1"= 10' or 1"= 100' MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM SCALE 1"= 40'

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VI | Fre | 99

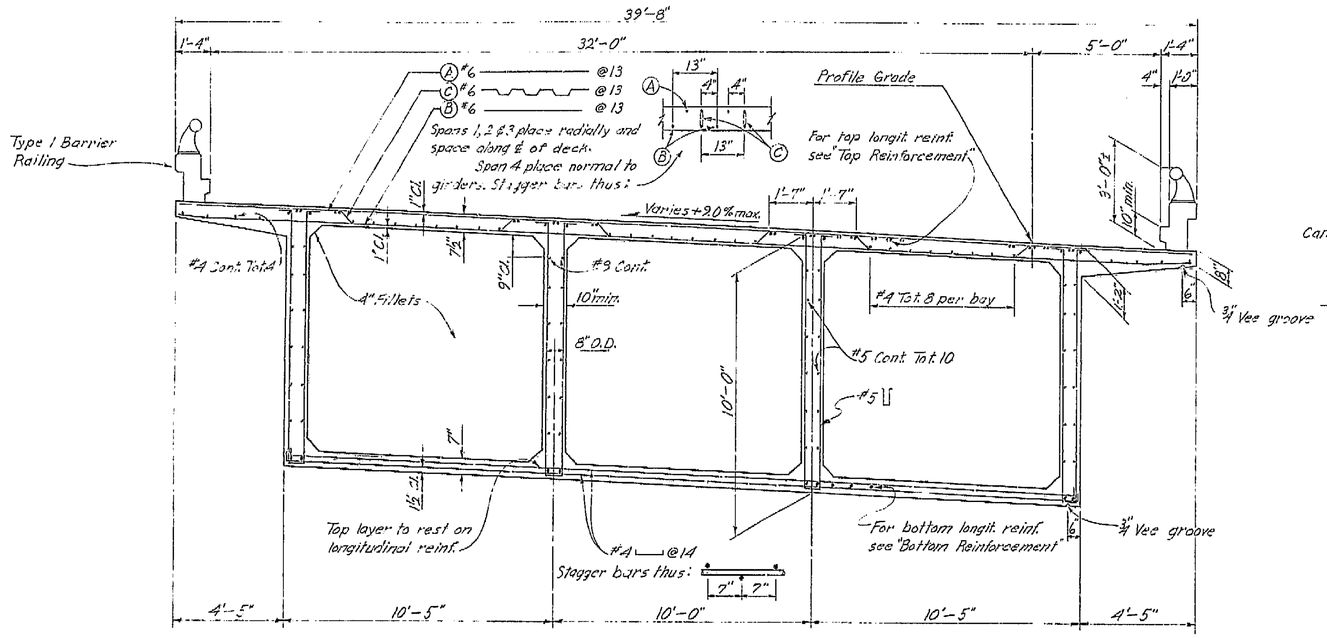
U-006-2(6)
F-006-2(5)

FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
7	CALIF.		317	424

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fres			317	424

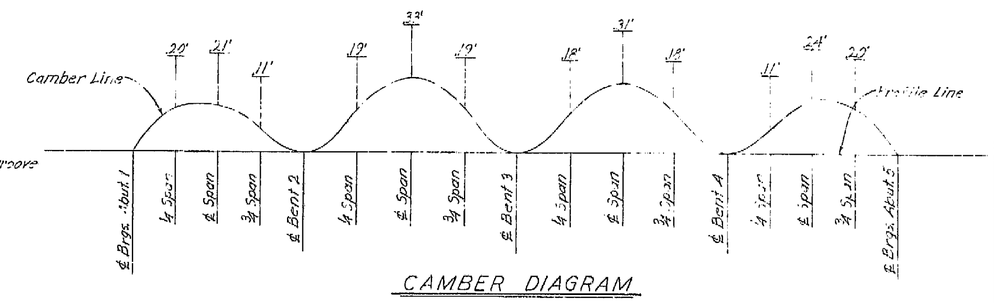
CIVIL ENGINEER — CIVIL ENGINEERS—LICENSE 5126

DATE APPROVED August 28, 1961



TYPICAL SECTION

3/8"=1'-0"



CAMBER DIAGRAM

TOTAL GIRDER DEFLECTION DUE TO DEAD LOADS

Note:
The total deflection will be reached about four years after falsework removal. For values at time of falsework removal, divide those shown by 4.
The amount of camber for construction will be determined by the Engineer.

AS BUILT PLANS
Contract No. 62-671363
Date Completed
Document No. 60001062

317

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer
Chief Designer

DESIGN	By P.J. Juroch 3/61	Checked DASmith 3/61	
DETAILS	By H.N. Dahl 1/60	Checked DAS 3/61	
QUANTITIES	By H.N. Dahl 4/61	Checked O. SHELTON 4/61	
SPECIFICATIONS	By	Plans and Specs. Checked	

Approval Recommended by
Engineer of Design
Civil Engr. License No.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ROUTE 99 ON RAMP O.C.

TYPICAL SECTION

SCALE As Noted | BRIDGE 42-216 | FILE | DRAWING 42216-9

Disregard prints bearing earlier numbers →

PREL. DRAWING No. P-42216-9 | 1/59 | 6/60 | 3/60 | 3/59 | 1/61

54

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-12-72 SIGNATURE [illegible] TITLE [illegible]

SCALE 1"= 50' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"= 50'
SCALE 1"= 20' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"= 20'
SCALE 1"= 10' or 1"= 100' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"= 10' or 1"= 100'
SCALE 1"= 40' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"= 40'

ClibPDF - www.fastio.com

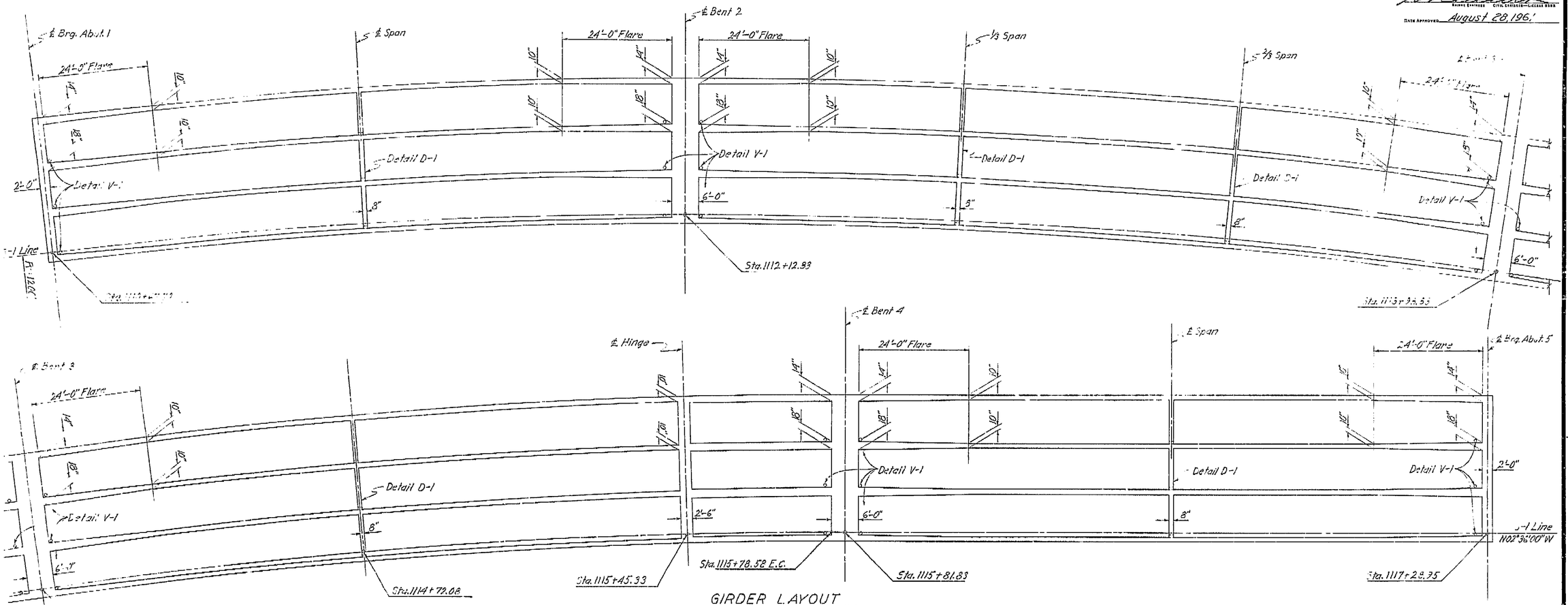
VI	Fre	99

U-006-2(6)
F-006-2(5)

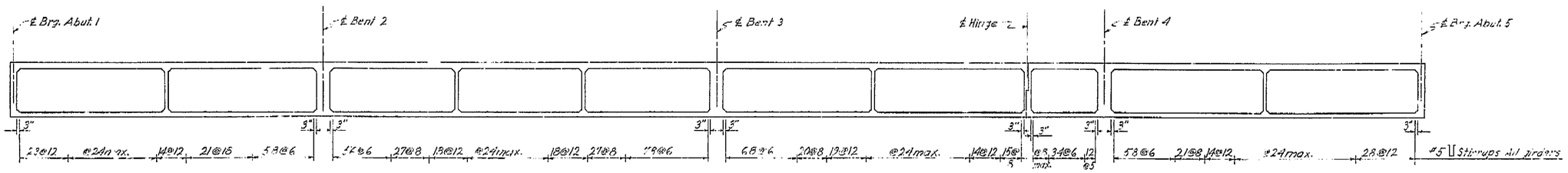
FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
7	CALIF.		318	424

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	99	F	16	

DATE APPROVED August 28, 196_



GIRDER LAYOUT



LONGITUDINAL SECTION

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

318

BRIDGE DEPARTMENT
DESIGN SECTION 2

Project Designer: Fred E. Peterson
Chief Designer: W.D. Quintrell

DESIGN	By: R.J. Juroch	3/61	Checked: D.A. Smith	3/61
DETAILS	By: H.N. Dahl	11/60	Checked: D.A.S.	3/61
QUANTITIES	By: H.N. Dahl	4/61	Checked: D. Sheltin	4/61
SPECIFICATIONS	By:		Plans and Specs. Completed	

Approval Recommended by: _____ Engineer of Design — Civil Engr. License No. 5438

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

99
ROUTE # ON RAMP O.C.

GIRDER LAYOUT

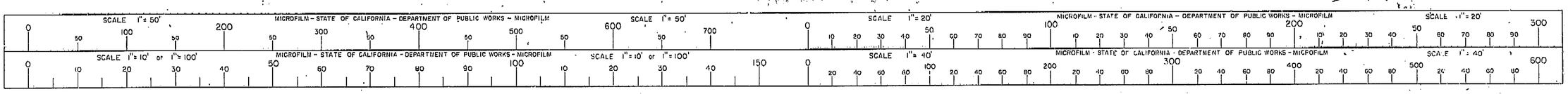
SCALE None	BRIDGE 42-216	FILE	DRAWING C-42216-10

Disregard prints bearing earlier numbers → PREL. DRAWING No. P-42216-10 | 2/24 | 3/13 | 3/20 | 3/24

510

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-12-72 SIGNATURE _____ TITLE _____



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"Expansion Hinge" and "Rubber Waterstop" Detail. Rev. 2-59 R.T.K.

"Exp. Hinge" and Rubber Waterstop Det. Rev. 7-59 R.T.K.

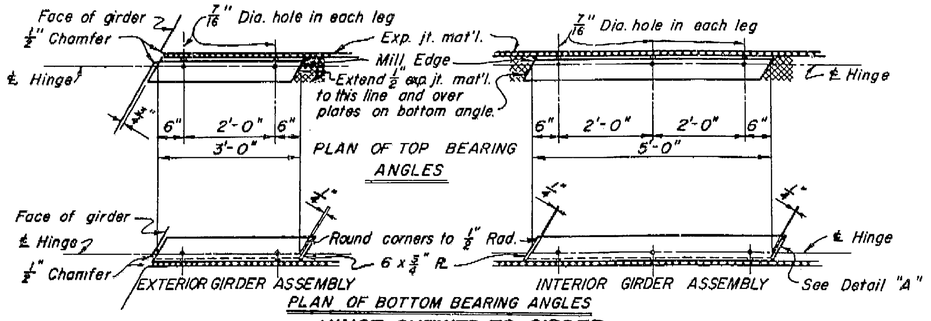
V1 | Fre | 99 | U-006-2(6) F-006-2(5)

FED. ROAD DIV. No.	STATE	PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
7	CALIF.			323	424

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	Fre	99		4-5	6-6

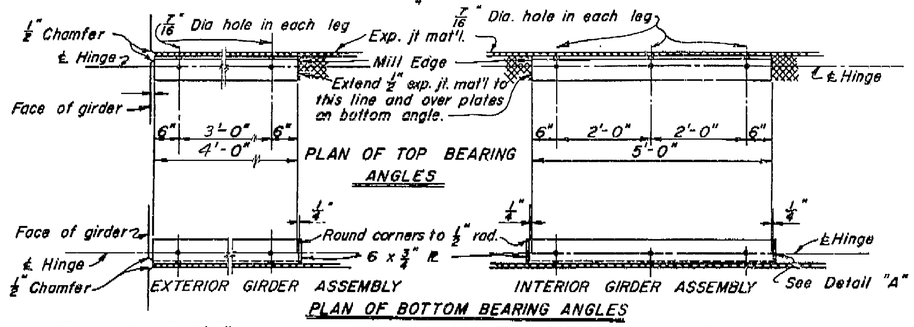
Bridge Standards Engineer — Civil Engineer—Bridges

DATE APPROVED: August 28, 1961



HINGE SKEWED TO GIRDER

Scale: 3/4" = 1'-0"

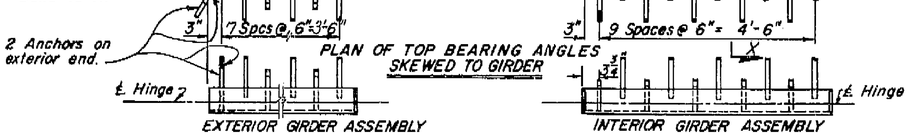


HINGE NORMAL TO GIRDER

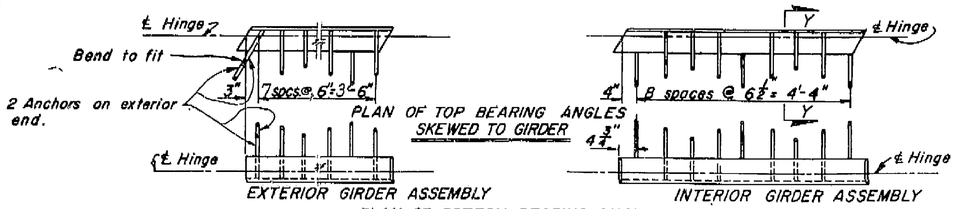
Scale: 3/4" = 1'-0"

Exterior Assembly Max. shear for 3'-0" long angle = 151k

Interior Assembly Max. shear for 5'-0" long angle = 252k



STRAP ANCHORS

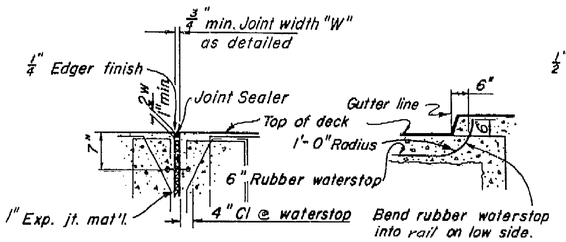


STUD ANCHORS

ANCHOR ALTERNATIVES

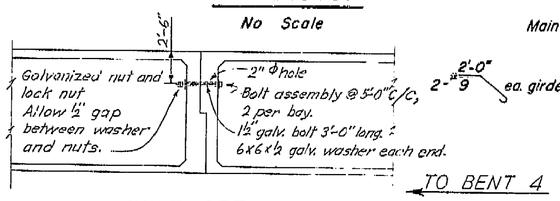
Scale: 3/4" = 1'-0"

To provide for free movement of the completed hinge, abutting surfaces of steel and concrete are to be separated with expansion material. Caulk and tape the joints between steel angles and all remaining openings to prevent grout or concrete seepage between abutting surfaces of hinge



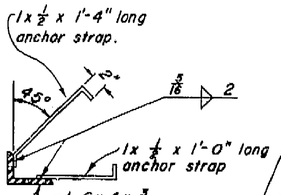
DETAIL OF RUBBER WATERSTOP

No Scale



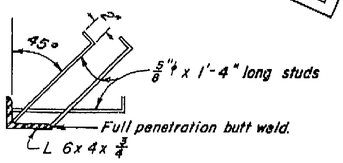
BOLT DETAIL

No Scale



SECTION X-X

Scale: 1 1/2" = 1'-0"

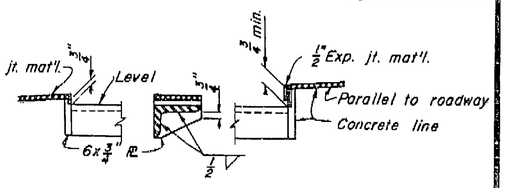


SECTION Y-Y

Scale: 1 1/2" = 1'-0"

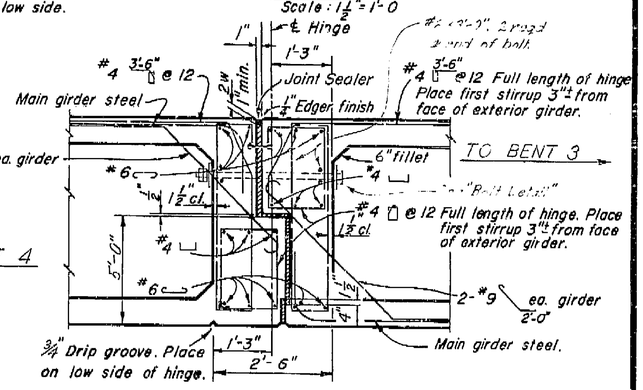
Galvanize hinge assembly after fabrication.

AS BUILT PLANS
Contract No. 62-671303
Date Completed
Document No. 6-20-1962



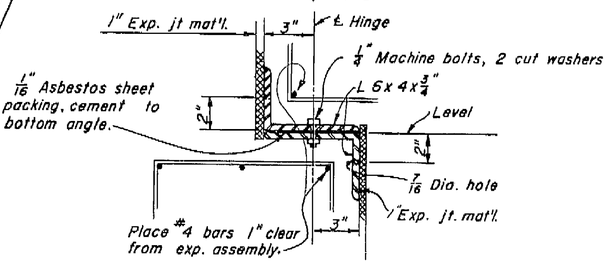
DETAIL "A"

Scale: 1 1/2" = 1'-0



TYPICAL EXPANSION HINGE

Scale: 3/4" = 1'-0"



SECTION THRU EXPANSION ASSEMBLY

Scale: 3" = 1'-0"

Note: This sheet has been altered from the standard.

STANDARD DRAWING

	Checked	Date
DESIGN		
DETAILS		
QUANTITIES		
SPECIFICATIONS		

Approved for Publication

Chief Engineer

Dist. Engr. | Date Revised | Sheet No. | Dist. Engr. | Date Revised | Sheet No.

BRIDGE DEPARTMENT
DESIGN SECTION
Project Designer: E. E. Stratton
Chief Designer: W. O. Gerwick

DESIGN	By O.J. Jurosh	7/61	Checked D.A. Smith	7/61
DETAILS	By H.N. Dahl	7/61	Checked D.A.S.	7/61
QUANTITIES	By H.N. Dahl	7/61	Checked O. SHELTON	7/61
SPECIFICATIONS	By		Checked and Name Checked	

Approval Recommended by: K. Hartshorn, Engineer of Design — Civil and Structural Engr. Engineer No. 5455

7/59 — STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS — 4A.7.5.2.

99 ROUTE 4 CN RAMP C C

HINGE DETAIL (BOX GIRDER)

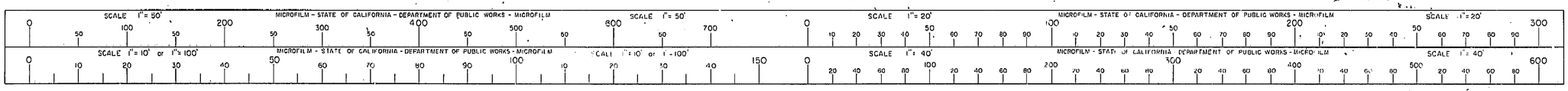
SCALE As Noted | BRIDGE 42-216 | XS-12-5 FILE | DRAWING C-42216-15

PREL. DRAWING No. P-42216-15 | 1/61 | 3/62

55

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____



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AS BUILT PLANS
Contract No. 62-671263
Date Completed
Document No. 60901062

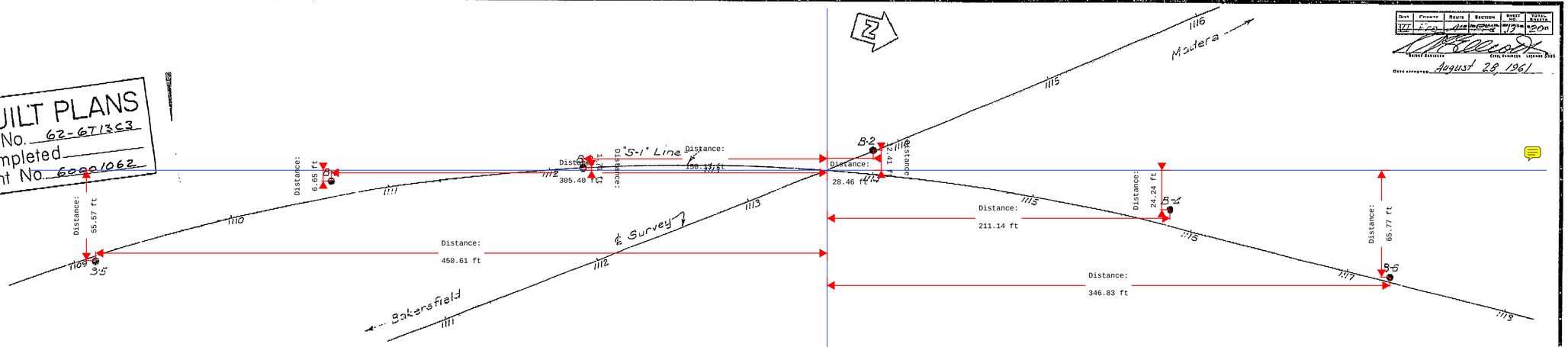
BRIDGE DEPARTMENT

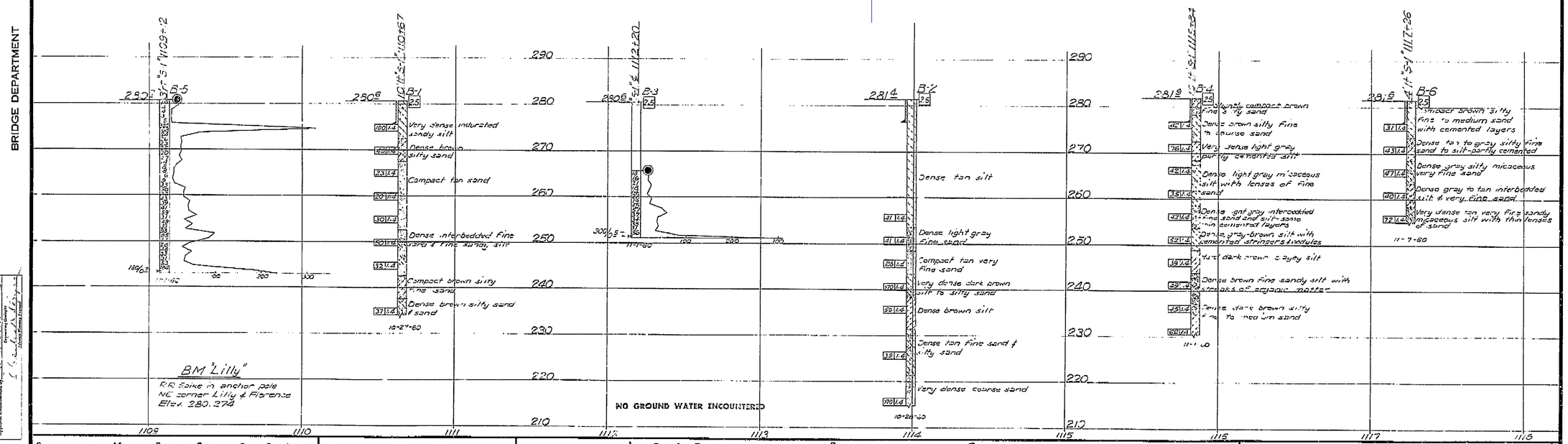
VI | Fre | 99 | U-006-2(6) F-006-2(5)

FED. ROAD DIV. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
7	CAL.			327	424

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	99		327	424

Date surveyed August 28, 1961





FIELD STUDY	by Miller 10-11-60
DRAWN	by Miller 2-62
CHECKED	by Miller 2-62

Approval recommended by _____ Bridge Engineer
Approved _____ District Bridge Engineer

CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS

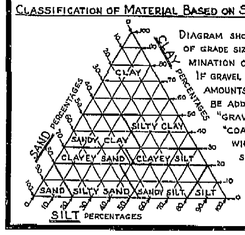


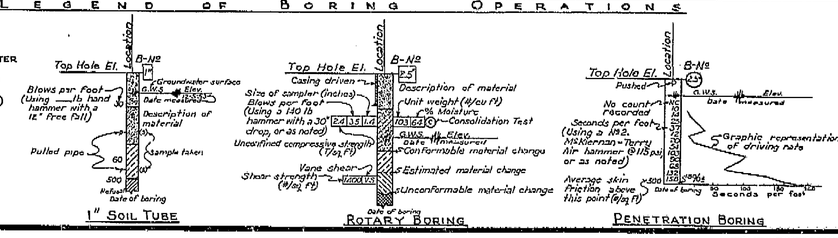
DIAGRAM SHOWING THE BASIS FOR ESTIMATES OF GRADE SIZE DISTRIBUTION USED IN DETERMINATION OF CLASS NAMES. IF GRAVEL IS PRESENT IN APPRECIABLE AMOUNTS THE TERM "GRAVELLY" MAY BE ADDED TO THE CLASS NAME, VIZ. "GRAVELLY SAND." THE TERMS "COARSE," "MEDIUM" AND "FINE" WHEN USED TO DESCRIBE SAND, SILT AND GRAVEL REFER TO STANDARD GRADE SIZE LIMITS.

LEGEND OF EARTH MATERIALS

- GRAVEL
- SAND
- SILT
- CLAY
- SANDY CLAY OR CLAYEY SAND
- SANDY SILT OR SILTY SAND
- SILTY CLAY OR CLAYEY SILT
- PEAT AND/OR ORGANIC MATTER
- FILL MATERIAL
- IGNEOUS ROCK
- SEDIMENTARY ROCK
- METAMORPHIC ROCK

LEGEND OF BORING OPERATIONS

- PLAN OF ANY BORING
- PENETROMETER
- 2½" CONE PENETROMETER
- SAMPLER BORING (DRY)
- ROTARY BORING (WET)
- AUGER BORING (DRY)
- JET BORING
- CORE BORING
- TEST PIT



NOTE

Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

99
ROUTE 41 ON-RAMP OVERCROSSING

LOG OF TEST BORINGS

Horiz. 1"=30'
SCALE Vert. 1"=10' | BRIDGE 42-216 | FILE | DRAWING C-42216-19

PREL. DRAWING No. P-42216-19

PR-7074-8

327

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DATE _____ SIGNATURE _____ TITLE _____

SCALE 1" = 50' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1" = 20'
SCALE 1" = 10' or 1" = 100' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1" = 40'

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VI	Fre	99

V-006-2(6)
F-006-2(5)

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			309	424

DIST.	COUNTY	ROUTE	REGISTRY	REGIST. NO.	TOTAL SHEETS
VI	Fre	99	Fresno	Duplicate	424

P.M. 19.6

APPROXIMATE QUANTITIES

*STRUCTURE EXCAVATION (BRIDGE)	1,130 C.Y.
*STRUCTURE BACKFILL (BRIDGE)	680 C.Y.
*CLASS "A" CONCRETE (BRIDGE)	2,710 C.Y.
RUBBER WATERSTOPS	158 L.F.
*BAR REINFORCING STEEL (BRIDGE)	812,000 LBS.
MISCELLANEOUS METAL (BRIDGE)	10,000 LBS.
BARRIER RAILING (TYPE 1)	1,517 L.F.

*FINAL QUANTITIES

ASSISTANT STATE BRIDGE ENGINEER — CIVIL ENGINEER LICENSE NO. 21...
DATE APPROVED August 28, 1961

+3.60% 600 V.C. +1.50%
Rate of Change = R = .35%/sta.
1109+75.00 Elev. 276.30
1115+75.00 Elev. 291.60

PROFILE GRADE

665'-0"
1'-10½" 145'-1½" 186'-0" 183'-0" 147'-1½" 1'-10½" Measured along S-1 line
E.B. ℄ Brg. ℄ Brg. E.B.
Approx. original ground along S-1 Line
Elev. 263.0
Abut. 1
15'-7½" C.I.
① ② Far Side Elev. 252.0
Elev. 252.0
① ② Near Side Elev. 255.0
Elev. 277.0
Abut 5
Approx. original ground along S-1 Line
Datum Elev. 220.0
Bent 2 Bent 3 Bent 4
1113 1 2 3 4 5 6 7 9

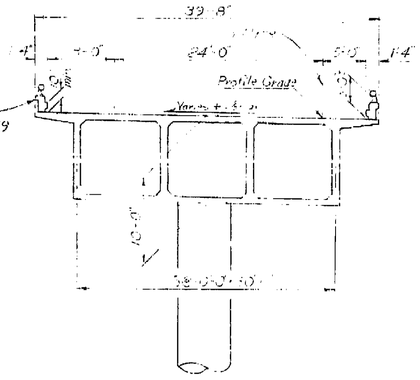
ELEVATION
1" = 40'

+2 %
-5 %
-9 %
Lt. ep
+68.58
+32.58
10'-0"
Profile Grade
1114 15 16 17 18
Rt. ep
10'-0"

SUPERELEVATION DIAGRAM
Horiz. Scale 1" = 100'
Vert. Scale 1" = 10'

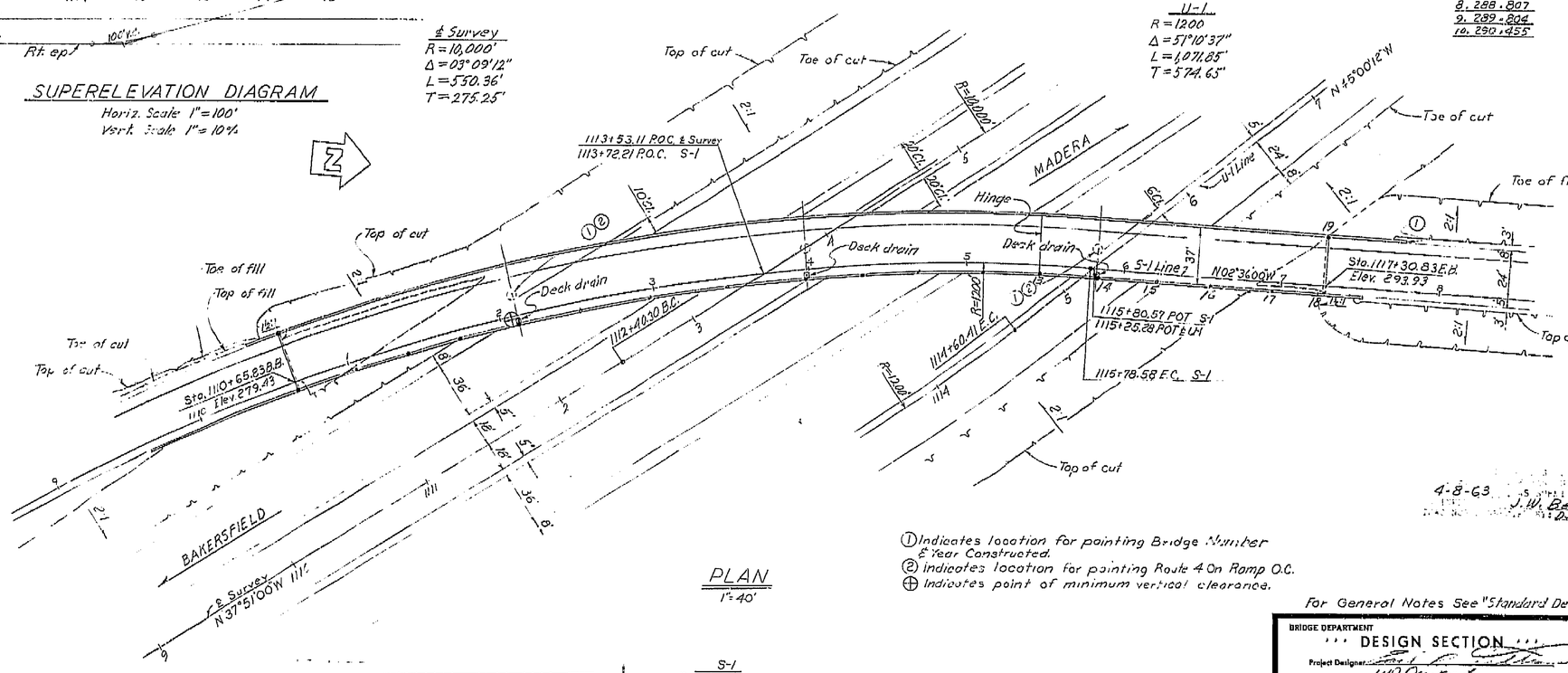
℄ Survey
R = 10,000'
Δ = 03° 09' 12"
L = 550.36'
T = 275.25'

Final Elev.	Copper Nails
1. 280.744	11. 291.283
2. 281.903	12. 291.996
3. 282.300	13. 292.605
4. 284.119	14. 293.137
5. 285.198	15. 293.770
6. 286.534	16. 294.495
7. 287.710	17. 295.063
8. 288.807	18. 295.578
9. 289.804	19. 296.312
10. 290.455	20. 284.138



TYPICAL SECTION
3/8" = 1'-0"

U-1
R = 1200
Δ = 51° 10' 37"
L = 1,071.85'
T = 574.65'



PLAN
1" = 40'

① Indicates location for painting Bridge Number & Year Constructed.
② Indicates location for painting Route 4 On Ramp O.C.
⊕ Indicates point of minimum vertical clearance.

4-8-63 J.W. Beck
DATE: 11-21-63

INDEX TO PLANS

SHEET NO.	TITLE
1.	General Plan
2.	Grid of Deck Elevations
3.	Foundation Plan
4.	Abutment Details No. 1
5.	Abutment Details No. 2
6.	Type 1 Cantilever Retaining Wall
7.	Retaining Wall Details No. 1
8.	Bent Details
9.	Typical Section
10.	Girder Layout
11.	Top Reinforcement
12.	Bottom Reinforcement
13.	Strand Details No. 1
14.	Standard Details No. 2
15.	Hinge Detail
16.	Drainage Details
17.	Standard Railing Sheet 1
18.	Barrier Railing Sheet 2
19.	Log of Test Borings
20.	Lighting Plan

Note: Route Change (VI-Fre-99)

Contract # 62-6T13C3-F7

For General Notes See "Standard Details No. 2" sheet

S-1
R = 1200
Δ = 39° 15' 00"
L = 822.05'
T = 427.89'

LIVE LOADING H20-S16-44 & ALTERNATIVE

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer: Earl C. Peterson
Chief Designer: W.J. Gerstmeyer

DESIGN	by E.J. Jurgens 10/60	Checked D.R. Sawyer 3/61	
DETAILS	by M. Camacho 10/60	Checked J.L. Sweet 3/61	
QUANTITIES	by K.V. Dyer 4/61	Checked D. SHELTON 3/61	
SPECIFICATIONS	By [illegible]	Plans and Book Compared	
Approved Recommended by [illegible] Chief of Design		Civil and Structural Engr. Calif. License No. 21815	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ROUTE 99 ON RAMP O.C.
TO BE LOCATED AT THE INTERSECTION OF KIRK AND FLORENCE AVE. IN THE CITY OF FRESNO

GENERAL PLAN

SCALE	As Noted	BRIDGE	42-216	FILE		DRAWING	C-42216-1

PREL. DRAWING No. P-42216-1 (10/18/60, 3/7/61, 3/30/61)

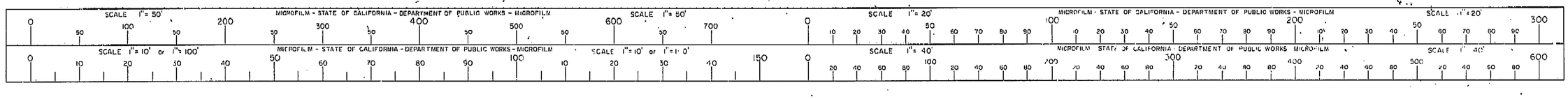
Disregard prints bearing earlier dates

309

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-12-72 SIGNATURE [illegible] TITLE [illegible]



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FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			315	424

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	99			

To Accompany Plans Dated August 28, 1959

DATE APPROVED August 6, 1959

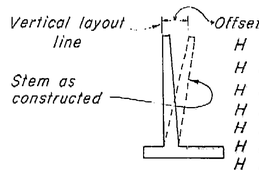
State Highway Engineer
Civil Engineer License No 20864

Revision: offset table revised 9-58

Revision: Optional type key 9-58 B

Mail note in Design Usage Def. 10-59 JTJ

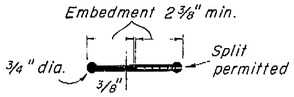
WALL OFFSET VALUES



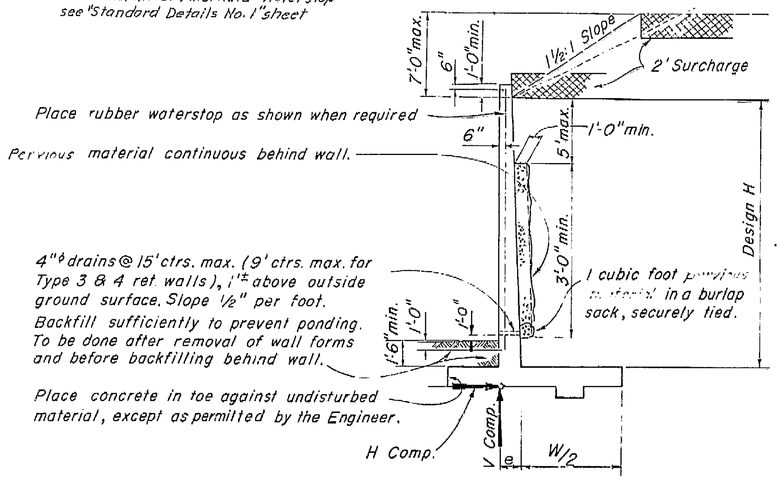
H 4 = 1/4" H 18 = 1 1/2"
H 6 = 3/8" H 20 = 1 3/4"
H 8 = 1/2" H 22 = 2"
H 10 = 5/8" H 24 = 2 1/4"
H 12 = 3/4" H 26 = 2 1/2"
H 14 = 1" H 28 = 2 1/2"
H 16 = 1 1/4" H 30 = 2 1/2"

RUBBER WATERSTOP

Use only when watertight joint is required

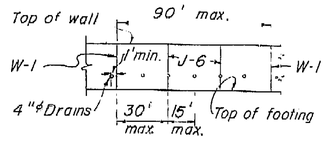


Note: For details of "Alternate Waterstop" see "Standard Details No. 1" sheet

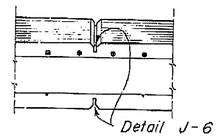


DESIGN AND DRAINAGE

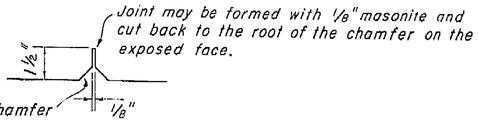
Surcharge limits shown apply to Retaining walls Type 1 and 3.



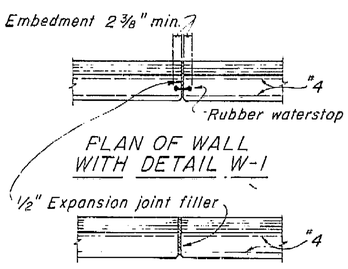
ELEVATION



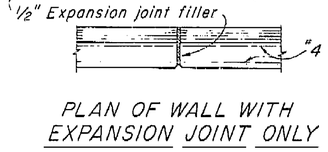
SECTION



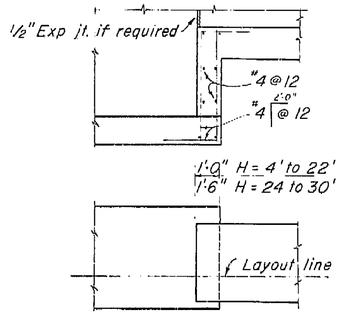
PLAN
DETAIL J-6



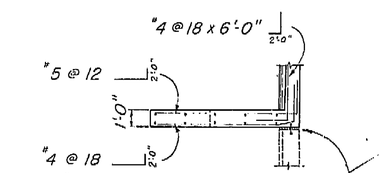
PLAN OF WALL WITH DETAIL W-1



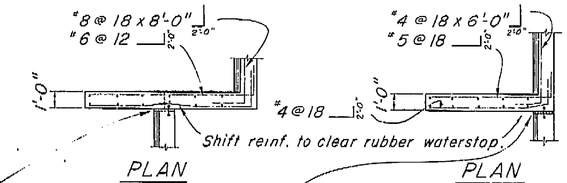
PLAN OF WALL WITH EXPANSION JOINT ONLY



FOOTING STEP



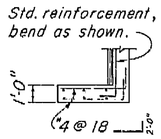
PLAN



PLAN

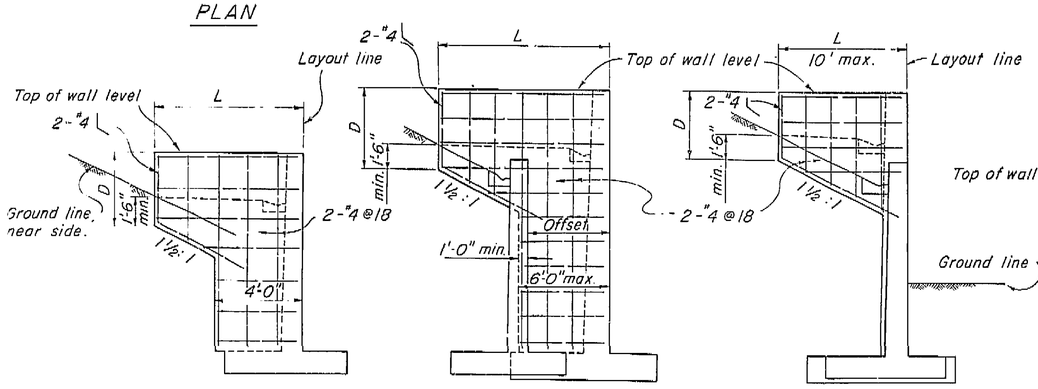
PLAN

1/2" Exp. joint material and rubber waterstop as shown when required.



PLAN

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062



ELEVATION
RETURN WALL TYPE 'A'

Use where H = 8' or less

ELEVATION
RETURN WALL TYPE 'B'

Use where H = 10' or more on offset walls

ELEVATION
RETURN WALL TYPE 'C'

Use where H = 10' or more on straight walls

ELEVATION
RETURN WALL TYPE 'D'

Use where H = 6' or less

NOTES

Design Conditions:

Design H may be exceeded by 6" before going to the next size.
Footing key is required except when found unnecessary by the Engineer.
Special footing design is required where foundation material is incapable of supporting toe pressure loads listed in table.

Design Data:

fc = 1200 psi fc' = 3000 psi fs = 20,000 psi n = 10 earth = 120 pcf
Equivalent fluid pressure = 36 pcf max. for determination of toe pressure.
27 pcf min. for determination of heel pressure.

BRIDGE DEPARTMENT			
DESIGN SECTION			
Project Designer			
Chief Designer			
DESIGN	by P.J. Jurach 9/61	Checked D.A. Smith 9/61	
DETAILS	by H.N. Dahl 9/61	Checked W.A. Smith 9/61	
QUANTITIES	by H.N. Dahl 9/61	Checked D. SHELTON 9/61	
SPECIFICATIONS	by	Plans and Revis. Completed	
Approval Recommended by	Engineer of Design	Civil Engineer No. 5439	

10/59

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ROUTE 99 ON RAMP OC

RETAINING WALL DETAILS NO. 1

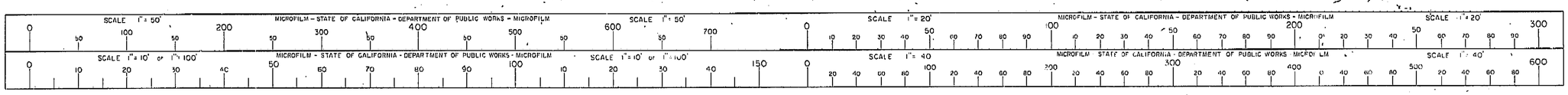
SCALE None	BRIDGE 42-216	XS 3-45 FILE	DRAWING C-42216-9

PREL. DRAWING No. P-42216-9 (8/14/61)

W-1

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE ____ SIGNATURE ____ TITLE ____



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FED. ROAD DIV. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
7	CALIF.			314	424

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	Fre	99	F		

To Accompany Plans Dated August 28, 1961

Data Approved Aug. 18, 1958

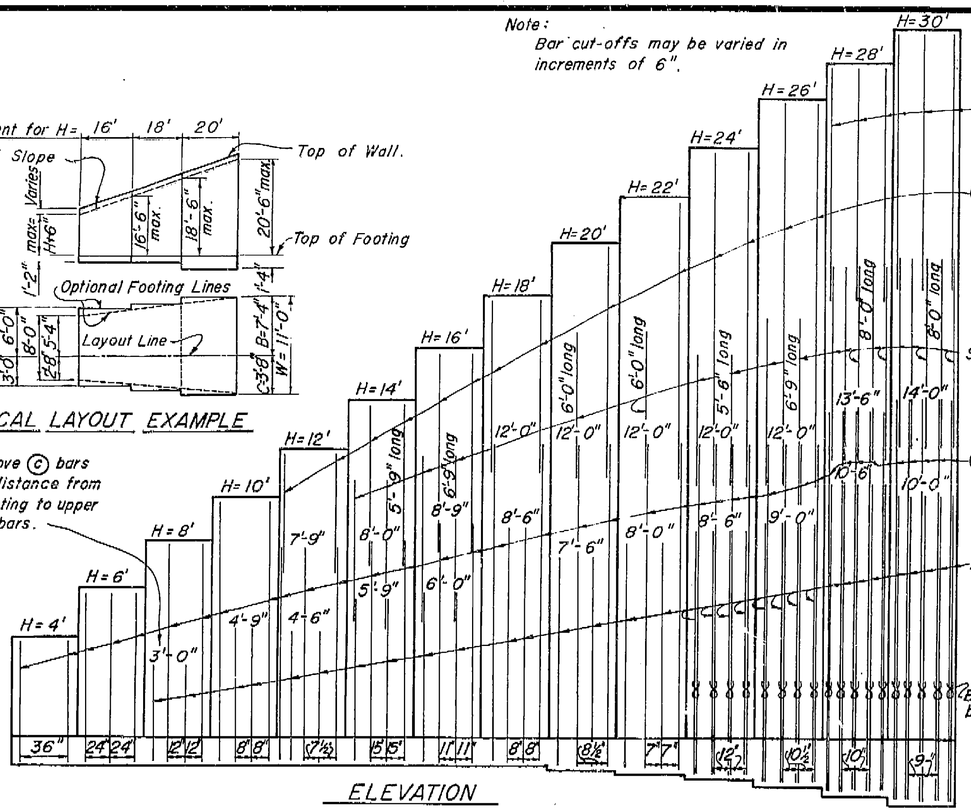
State Highway Engineer
Civil Engineer License No. 2084

Note:
Bar cut-offs may be varied in increments of 6".

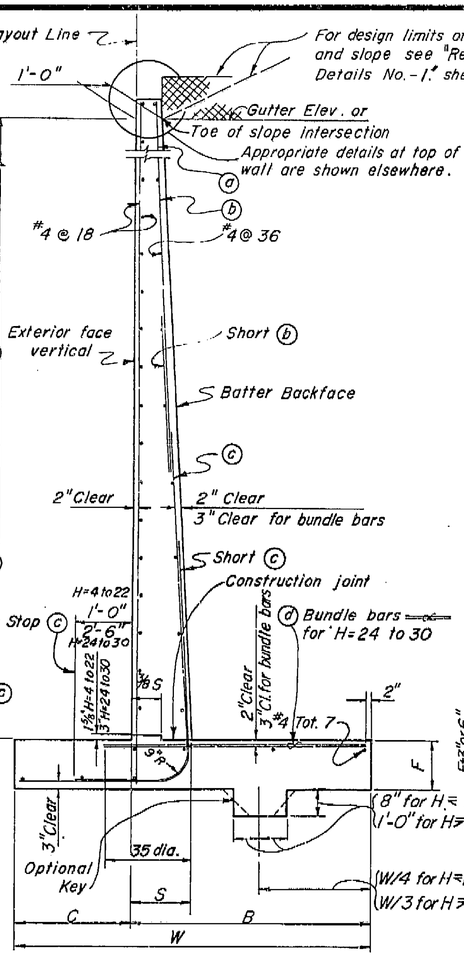
Use Reinforcement for H= 16' 18' 20'

TYPICAL LAYOUT EXAMPLE

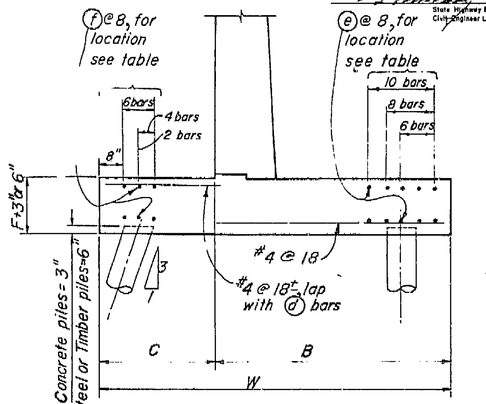
Number above (c) bars indicates distance from top of footing to upper end of (c) bars.



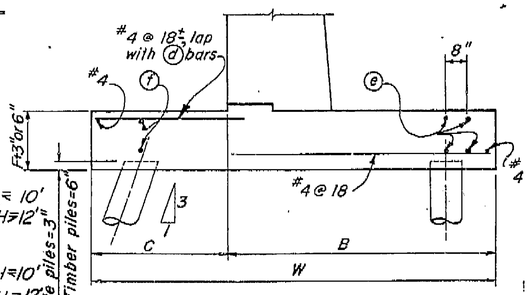
ELEVATION



SPREAD FOOTING SECTION



PILE FOOTING SECTION
H= 4 Thru H= 22



PILE FOOTING SECTION
H= 24 Thru H=30

TABLE OF REINFORCING STEEL DIMENSIONS AND DATA

Design H		◉4'	6'	8'	10'	12'	14'	16'	18'	20'	22'	24'	26'	28'	30'
W		3'-2"	4'-2"	5'-2"	6'-2"	7'-2"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-3"	14'-3"	15'-3"	16'-3"
C		1'-0"	1'-4"	1'-8"	2'-0"	2'-4"	2'-8"	3'-0"	3'-4"	3'-8"	4'-0"	4'-5"	4'-9"	5'-1"	5'-5"
B		2'-2"	2'-10"	3'-6"	4'-2"	4'-10"	5'-4"	6'-0"	6'-8"	7'-4"	8'-0"	8'-10"	9'-6"	10'-2"	10'-10"
F Spread Ftg.		1'-2"	1'-2"	1'-2"	1'-2"	1'-2"	1'-2"	1'-2"	1'-2"	1'-4"	1'-6"	1'-8"	1'-11"	2'-2"	2'-4"
F+3" Conc. Pile		1'-5"	1'-5"	1'-5"	1'-5"	1'-5"	1'-5"	1'-5"	1'-5"	1'-7"	1'-9"	1'-11"	2'-2"	2'-5"	2'-7"
F+6" Stl. or Tmr. p.		1'-8"	1'-8"	1'-8"	1'-8"	1'-8"	1'-8"	1'-8"	1'-8"	1'-10"	2'-0"	2'-2"	2'-5"	2'-8"	2'-10"
S		1'-2"	1'-3"	1'-4"	1'-5"	1'-6"	1'-7"	1'-8"	1'-9"	1'-10"	1'-11"	2'-3"	2'-4½"	2'-9"	3'-2⅛"
Batter		½:12	½:12	½:12	½:12	½:12	½:12	½:12	½:12	½:12	½:12	⅝:12	⅝:12	¾:12	⅞:12
(a) bars														#7@ 20	#7@ 18
(b) bars						#5@30	#5@15	#5@11	#6@24	#7@17	#7@14	#8@12	#8@10½	#9@10	#9·9
(c) bars		#5@36	#5@24	#5@12	#5@8	#6@7½	#10@15	#10@11	#10@8	#11@8½	#11@7	#11@12cc	#11@10½cc	#11@10cc	#11@9cc
(d) bars		#5@36	#5@24	#4@12	#4@8	#5@7½	#9@15	#9@11	#9@8	#10@8½	#10@7	#10@12cc	#10@10½cc	#9@10cc	#9@9cc
Total (e) bars		6-#6	6-#6	6-#6	10-#7	10-#7	10-#7	10-#7	8-#7	8-#7	8-#7	4-#7	4-#7	4-#7	4-#7
Total (f) bars					6-#7	6-#7	6-#7	6-#7	4-#7	4-#7	4-#7	2-#7	2-#7	2-#7	2-#7
H Comp. pounds		850	1440	2170	3050	4070	5240	6540	8000	9730	11630	13730	15950	18650	21145
V Comp. pounds		2020	3460	5230	7340	9760	12180	15260	18670	22690	27070	31750	36870	44560	50450
e feet		.50	.60	.79	.94	1.07	1.28	1.41	1.54	1.72	1.90	2.08	2.25	2.52	2.70
Toe Pressure P.S.F.		1240	1570	1930	2270	2640	2980	3290	3590	4000	4480	4640	5040	5810	6190
Spread Footing	Steel lbs/ft.	14	20	28	39	56	84	108	169	206	259	328	393	429	484
	Conc. CF/ft.	8.9	12.6	16.3	20.2	24.3	29.5	33.8	38.5	45.0	52.1	63.1	73.0	87.6	102.7
Conc. pile ftg.	Steel lbs/ft.	24	31	39	74	92	120	144	198	236	289	348	413	449	504
	Conc. CF/ft.	8.8	12.8	16.7	20.8	25.2	29.5	34.1	39.0	45.8	53.1	64.4	74.6	89.4	104.8

◉ Denotes a bundle of 2 bars.

Note:
For details not shown and drainage notes see "Retaining Wall Details No. 1".

Note:
Reinforcement detailed is to be placed in addition to that shown for spread footing. All piles not shown, see Pile Layout on other sheets.

◉ For pile footing Design H = 4' use same footing dimensions as Design H = 6'

THIS SET OF PLANS HAS BEEN CORRECTED TO CONFORM TO THE "AS BUILT" PRINTS DATED [ ] AS SUBMITTED BY RESIDENT ENGINEER.
CORRECTIONS MADE BY: ____ DATE: ____

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 6000106Z

BRIDGE DEPARTMENT
DESIGN SECTION
Project Designer
Chief Designer

DESIGN	By R.J. Jurach 3/61	Checked B.A. Smith 3/61	
DETAILS	By H.N. Dahl 1/61	Checked B.A. Smith 3/61	
QUANTITIES	By H.N. Dahl 4/61	Checked D. Sheldon 3/61	
SPECIFICATIONS	By	Plans and Specs. Checked	

Approved: Recommended by [signature] Chief and Bridge Engineer
Chief of Design
Registered Civil Engineer No. 5251

9/60

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ROUTE 99 ON RAMP O.C.

TYPE I CANTILEVER RETAINING WALL

SCALE	BRIDGE	XS FILE	DRAWING
none	12-216	3-46	C.422.16-6

PREL. DRAWING No. P-422.16-6 1/61

W-3

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

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MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

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Revision: 9-22-60
Made #8 bar cont. in Detail J-1. R.T.K.

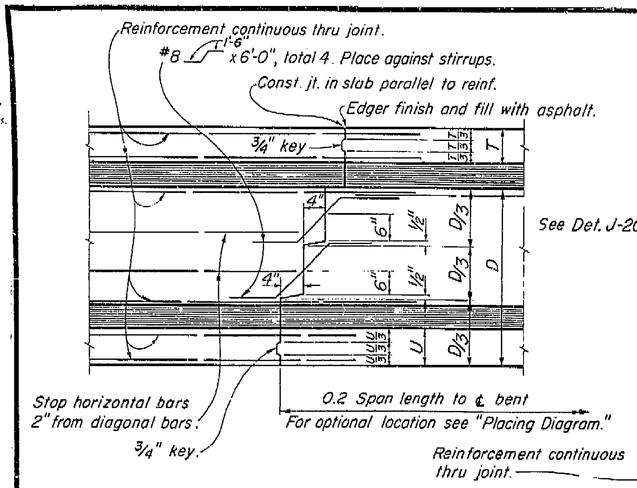
Rev.-Deleted note in Detail J-1 & reversed position of parenthesis notes. 11-60 R.T.K.

V1 | Fre | 99 | U-006-2(6) F-006-2(5)

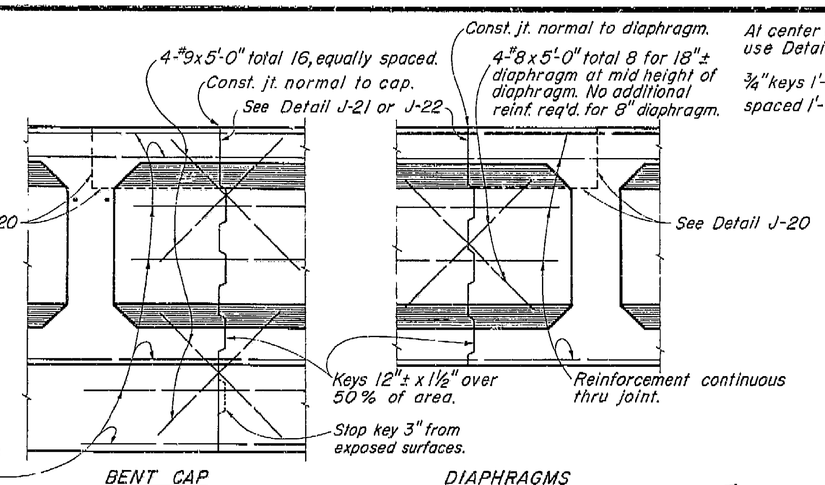
FED ROAD DIV NO	STATE	PROJ NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
7	CALIF			321	422

DIST	COUNTY	ROUTE	SECTION	SHEET NO	TOTAL SHEETS
11	Fre				420

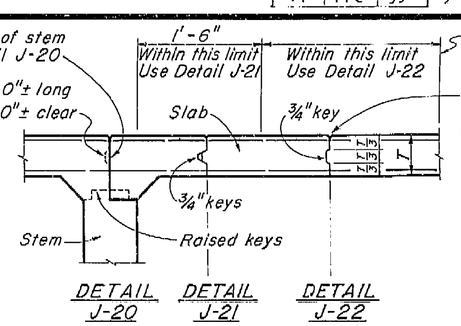
Date approved August 28, 1961

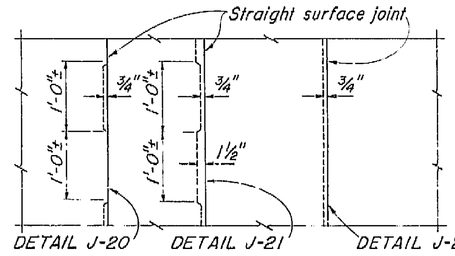


TRANSVERSE GIRDER CONSTRUCTION JOINTS
DETAIL J-3

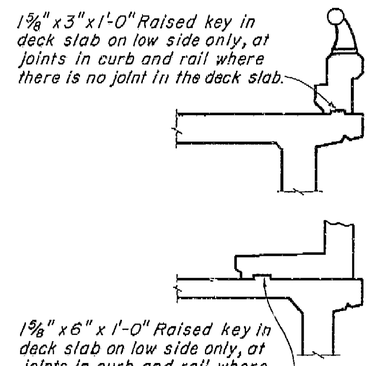


BENT CAP
LONGITUDINAL CONSTRUCTION JOINTS
DIAPHRAGMS
DETAIL J-4



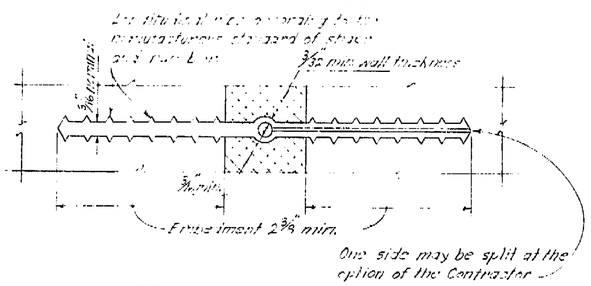


DECK SLAB
LONGITUDINAL CONSTRUCTION JOINTS
Note: Longitudinal construction joints in slab, if required, are to be located at edge of traffic lanes except as approved by the Engineer.

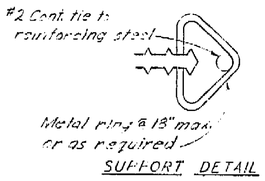


CURB AND SIDEWALK EXPANSION JOINT
DETAIL C-1

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 6000 1062

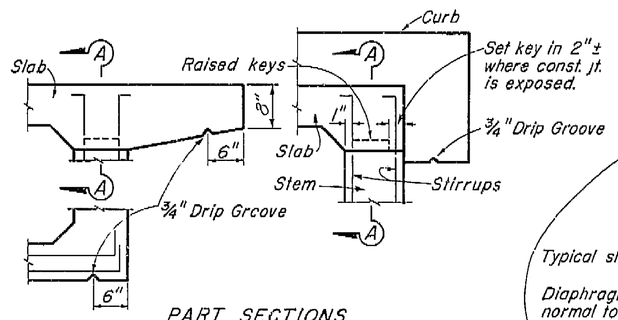


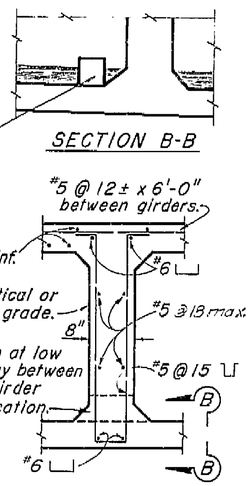
ALTERNATIVE WATERSTOP

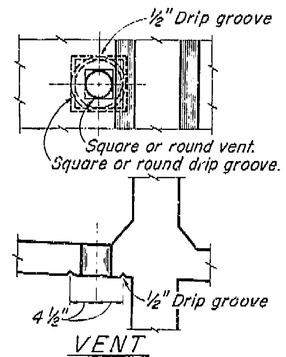


SUPPORT DETAIL

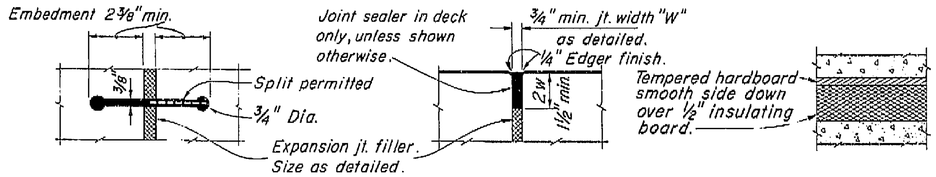
Note: Waterstop to be positively supported at each edge in the position shown on the plans. Alternate detail may be submitted for approval of the Engineer.







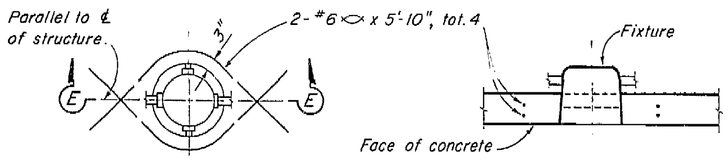
Note:
5" ℄ Vent in lower slab.
Min. of two vents per span in each bay between girders. One vent to be located at low point of span and other vent to be located at opposite end of span @ 1'-6" from face of Abutment or Bent. See "Girder Layout."



RUBBER WATERSTOP
DETAIL W-1

SEALED EXPANSION JOINT
DETAIL L-1

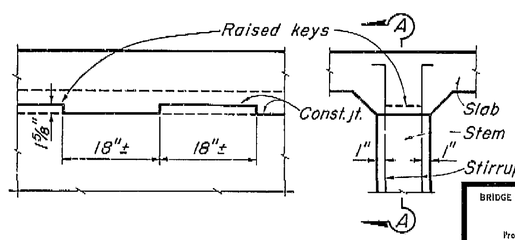
DETAIL M-1



ADDED REINFORCEMENT

SECTION E-E

RECESSED SOFFIT LIGHT
DETAIL F-1



SECTION A-A

PART SECTION INTERIOR GIRDER

KEY-GIRDER STEM TO SLAB
DETAIL J-5

THIS SET OF PLANS HAS BEEN CORRECTED TO [illegible] AS BUILT PRINTS DATED [illegible] AS PERMITTED BY RESIDENT ENGINEER.
BY: DATE:

STANDARD DRAWING
Drawn W.B.O'Hara 7/60
Design
Details
Structural Materials
Recommended
Approved Wm. E. Peirce
Number B-729

BRIDGE DEPARTMENT			
DESIGN SECTION			
Project Designer: Eng. R. L. Stubblefield			
Chief Designer: W.J. Gutierrez			
DESIGN	By A.J. Juroch 9/61	Checked D.L. Smith 9/61	
DETAILS	By H.N. Dahl 9/61	Checked D.L.S. 9/61	
QUANTITIES	By H.N. Dahl 9/61	Checked D. SHELTON 9/61	
SPECIFICATIONS	By	Plans and Specs Compared	
Approval Recommended by: R.O. Woodward, Engineer of Design		Field and Structural Final Check Out	Date 9/61

11/60
STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

99
ROUTE # ON RAMP O.C.

STANDARD DETAILS NO. 1 (BOX GIRDER)

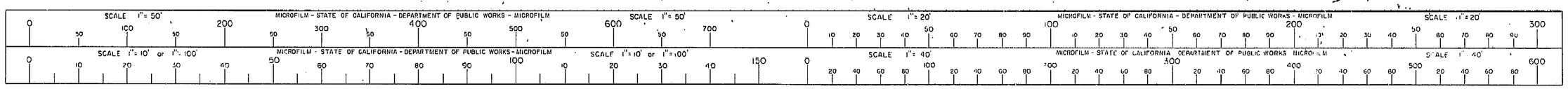
SCALE None | BRIDGE 42-216 | XS-16-22 FILE | DRAWING C-42216-13

PREL. DRAWING No P-422 6-13 | 9/61

5-53

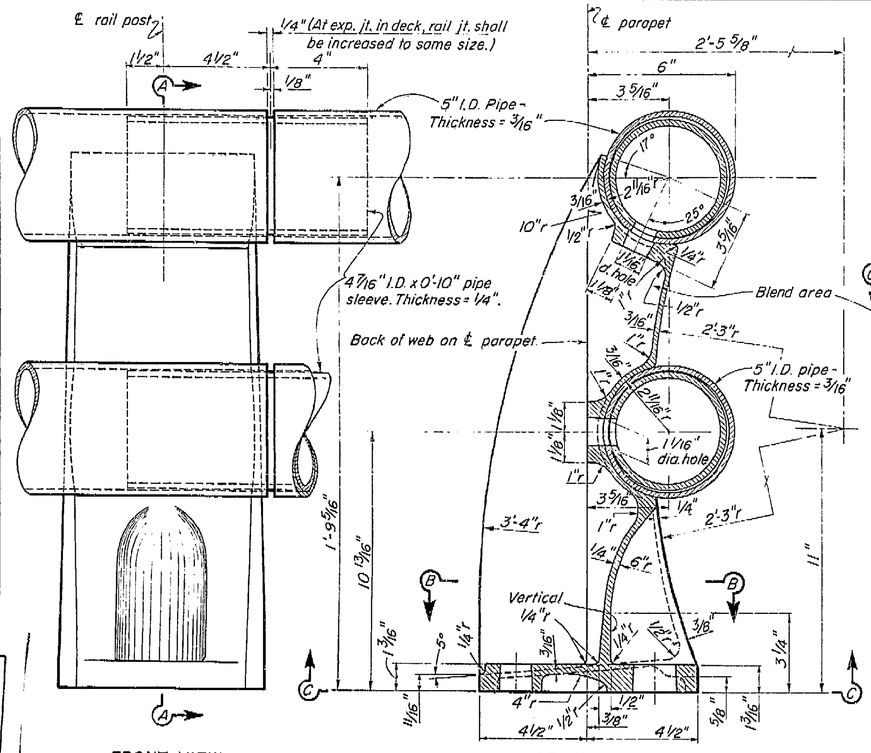
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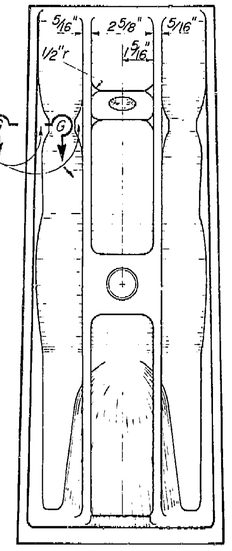
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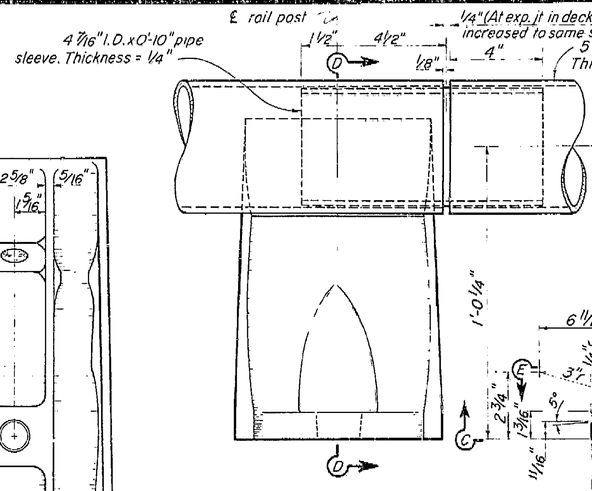


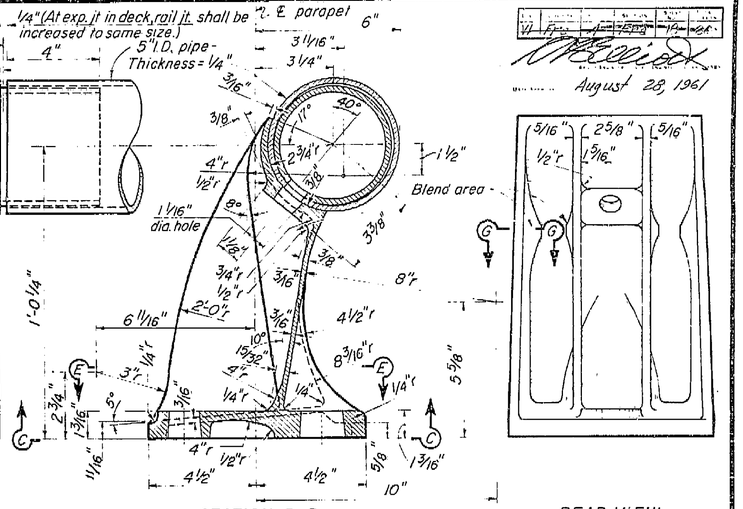
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AS BUILT PLANS
Contract No. 62-617353
Date Completed
Document No. 6000062

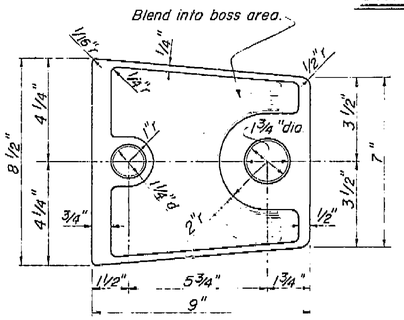


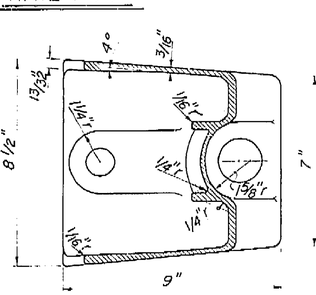


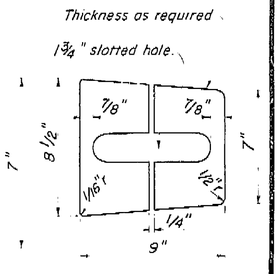


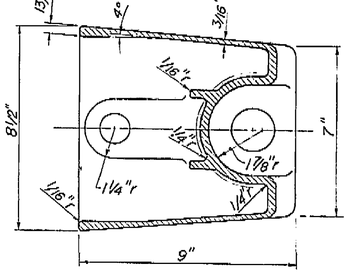


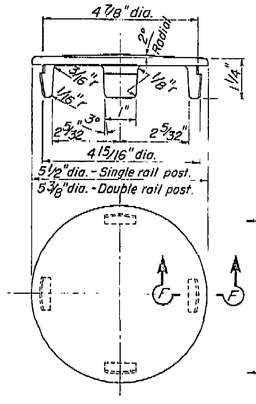
SINGLE RAIL POST

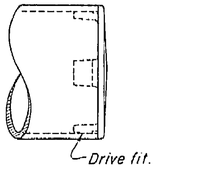


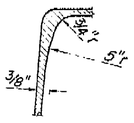


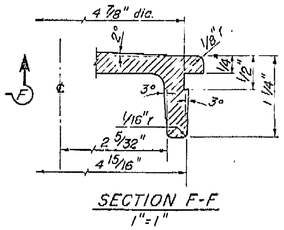


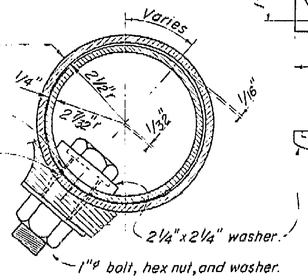


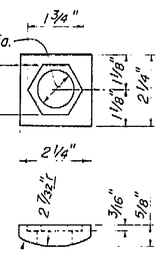












Notes:
1. At the option of the contractor, material for the railing shall be one of the following:
   a. Aluminum pipe rail and cast aluminum post
   b. Steel pipe rail and cast steel post. Rail and posts to be galvanized. Steel pipe rail shall be 3/16" thick with 5" I.D. Rail post dimensions shall be revised as necessary to fit the steel pipe.
2. Shims are to be of asbestos sheet packing.
3. For railing on a horizontal curve the pipe rail shall be bent to the curve or the spacing of posts adjusted so that the middle ordinate between posts will not exceed 1".

SHIM DETAIL
1/4" = 1'-0"

BRIDGE DEPARTMENT
DESIGN SECTION
Section Supervisor: W.D. Gutierrez
DESIGN: by P.J. Juroch 3/61
DETAILS: by H.M. Dahl 12/60
QUANTITIES: by H.M. Dahl 4/61
checked D.A. Sallee 3/61
checked D.S. 3/61
checked D. SHELTON 4/61

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

10/60

99
ROUTE ... ON RAMP O.C.

BARRIER RAILING SHEET 2

Except as noted
SCALE 3/8" = 1"
BRIDGE 42-216
XS-9-71
FILE
DRAWING C-42216-18

Disregard prints bearing earlier numbers
PREL DRAWING NO P-42216-17 1/61

558

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50'
SCALE 1" = 20'
SCALE 1" = 10' or 1" = 100'
SCALE 1" = 40'

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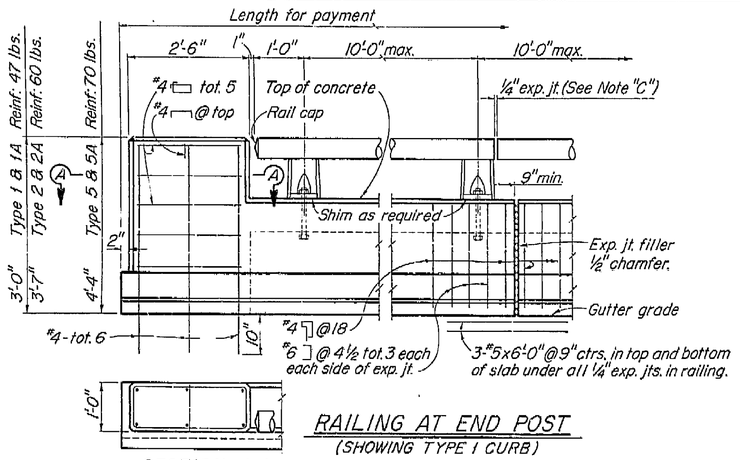
VI | Fre | 99

U-006-2(6)
F-006-2(5)

FED. ROAD DIV. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.		325	424

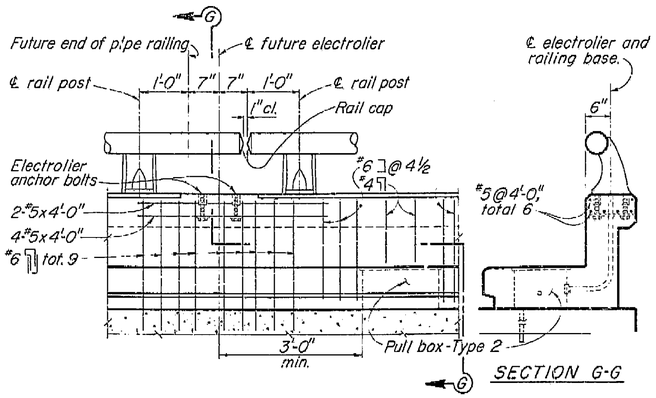
DIST.	CO.	RTE. NO.	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	99			

DATE APPROVED August 28, 1961



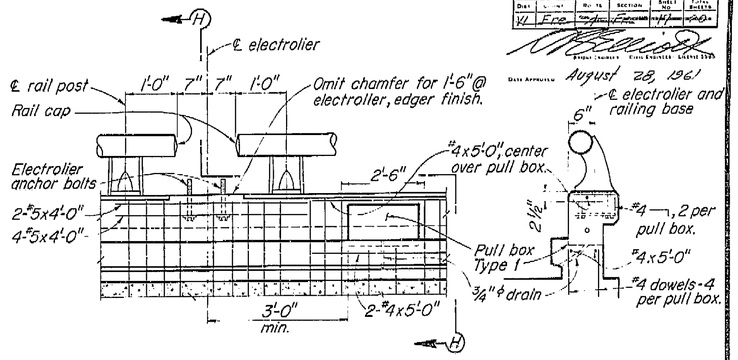
SECTION A-A

RAILING AT END POST
(SHOWING TYPE 1 CURB)



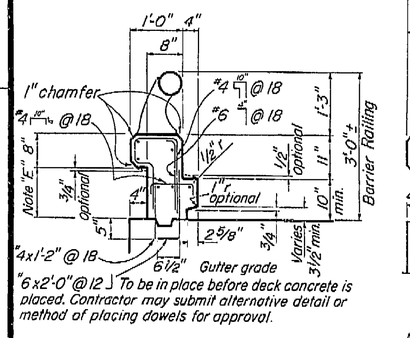
SECTION G-G

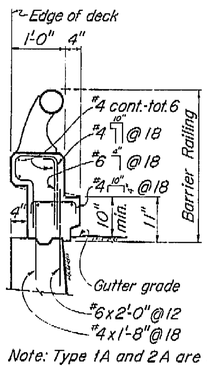
RAILING CLOSURE AT ELECTROLIER
(SHOWING TYPE 2 CURB)

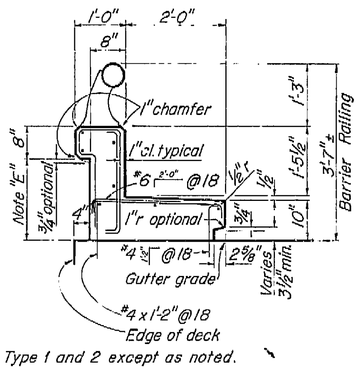


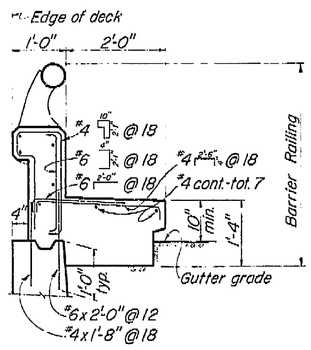
SECTION H-H

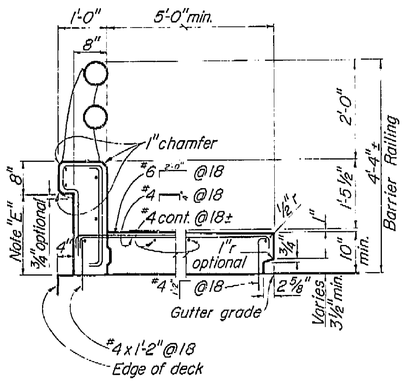
RAILING AT ELECTROLIER
(SHOWING TYPE 1 CURB)

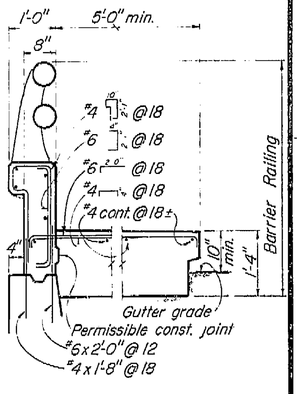












Note: Type 1A and 2A are similar to Type 1 and 2 except as noted.

TYPE 1
Conc. 1.61 cu. ft. / lin. ft.
Reinf. 11.8 lbs. / lin. ft.

TYPE 1A
Conc. 1.61 cu. ft. / lin. ft.
Reinf. 12.0 lbs. / lin. ft.

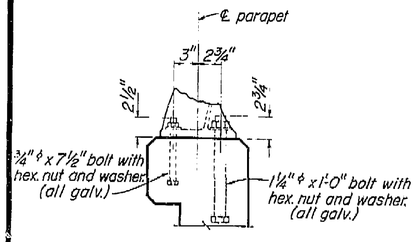
TYPE 2
Conc. 3.43 cu. ft. / lin. ft.
Reinf. 14.7 lbs. / lin. ft.

TYPE 2A
Conc. 4.30 cu. ft. / lin. ft.
Reinf. 17.3 lbs. / lin. ft.

TYPE 5
Conc. 6.10 cu. ft. / lin. ft. — For 5'-0" width
Reinf. 17.2 lbs. / lin. ft.
Conc. 0.84 cu. ft. / lin. ft. — Per additional ft. (width)
Reinf. 2.1 lbs. / lin. ft.

TYPE 5A
Conc. 8.35 cu. ft. / lin. ft.
Reinf. 19.7 lbs. / lin. ft.
Conc. 1.34 cu. ft. / lin. ft.
Reinf. 2.1 lbs. / lin. ft.

TYPICAL CURB AND RAIL SECTIONS



RAIL POST ANCHOR BOLT DETAIL
Scale: 1 1/2" = 1'-0"

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

Note:
A. Railing shall conform to horizontal and vertical alignment.
B. Posts shall be normal to railing.
C. Curb and wall exp. jts. to be located at all deck joints, at ℄ piers or bents and at uniform spacing (40' max.) between those specified. Joint size to be 1/4" min. and increased to match deck joints.
D. Construct 3" deep x 12" wide overflow scupper 2" above deck at low points in grade.
E. Dimension will vary with cross-slope of deck.
F. Walls are to be backfilled before railing is placed.
G. Clearance to reinforcing steel in curb and railing to be 1".

THIS SET OF PLANS HAS BEEN REVISED TO REFLECT AS BUILT CONDITIONS

BRIDGE DEPARTMENT DESIGN SECTION			10/60	STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS
Section Supervisor W.W. Jewkes			ROUTE 99 ON RAMP O.C.	
DESIGN	By D.J. Jurach	7/61	BARRIER RAILING SHEET 1	
	Checked D.A. Smith	8/61		
DETAILS	By H.N. Dahl	12/60		
	Checked D.A.S.	8/61		
QUANTITIES	By H.N. Dahl	4/61	Except as noted SCALE 3/4" = 1'-0"	BRIDGE 42-216 XS-9-63 FILE DRAWING C-42216-17
	Checked D. SHARTAN	4/61		

Disregard prints bearing earlier numbers → PREL. DRAWING NO. P-42216-16 10/61

55?

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DATE _____ SIGNATURE _____ TITLE _____

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50' SCALE 1" = 50' SCALE 1" = 20' SCALE 1" = 20'
SCALE 1" = 10' or 1" = 100' SCALE 1" = 40' SCALE 1" = 10' or 1" = 100' SCALE 1" = 40'

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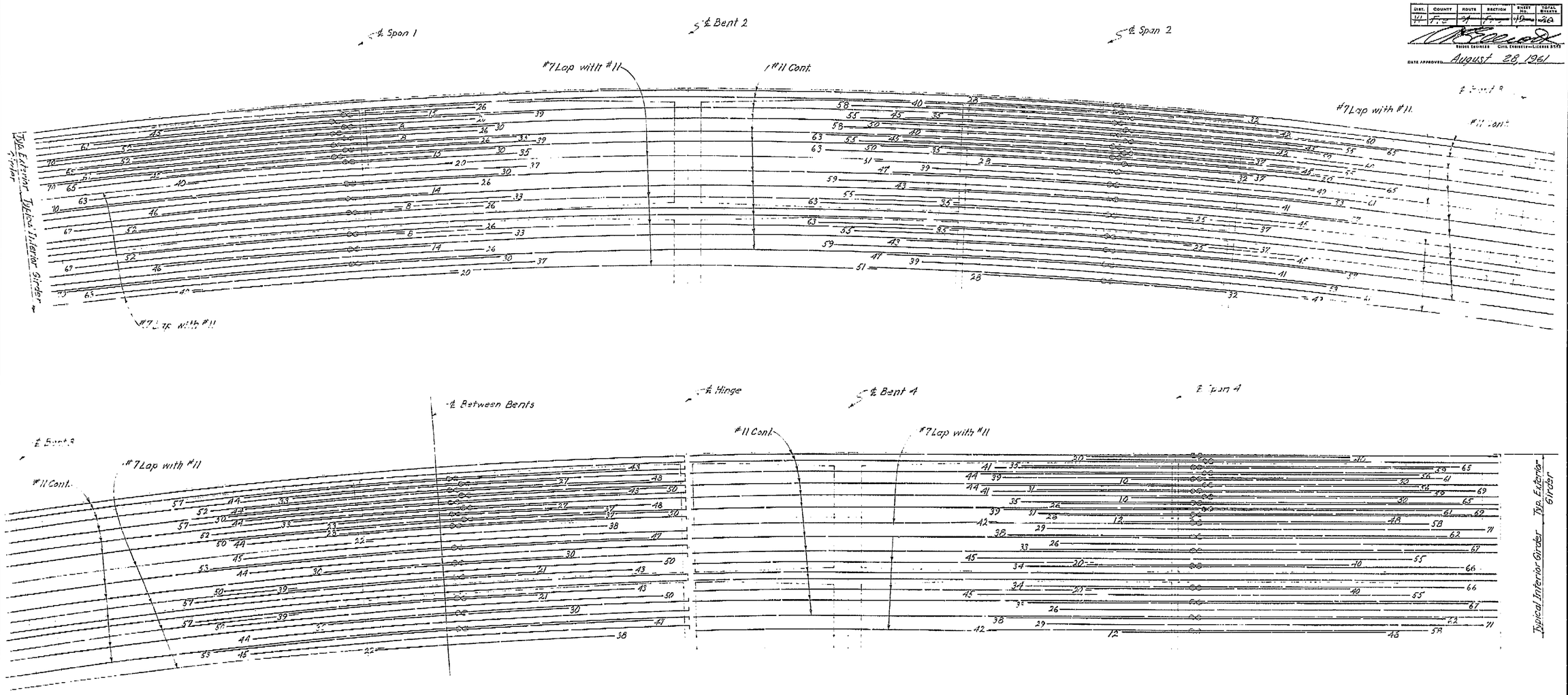
YI	Fre	99	U-006-2(6) F-006-2(5)

FED. ROAD DIV. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.		320	424

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
YI	Fre	99		119	240

BRIDGE ENGINEER — CIVIL ENGINEER—LICENSE 5439

DATE APPROVED August 28, 1961



Note: All reinforcing #11 unless noted otherwise. Numbers at ends of bars indicate distance in feet from ℄ of Span or from ℄ Between Bents.
All splices of bars in bundles shall be made with 35 diameter lap.
Indicates bundled bars.
No splicing of #11 bars permitted near ℄ Span

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

320

BRIDGE DEPARTMENT			
*** DESIGN SECTION *** 2			
Project Designer: Emil E. Pillarella			
Chief Designer: W. J. Jurach			
DESIGN	By A.J. Jurach 9/60	Checked D.A. Smith 3/61	
DETAILS	By H.N. Dahl 11/60	Checked J.A.S. 3/61	
QUANTITIES	By H.M. Dahl 2/61	Checked D. SHELTON 4/61	
SPECIFICATIONS	By	Plans and Specs. Completed	
Approved Recommended by: K.S. Hsu, Engineer of Design		First Engr. License No. 5439	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

99
ROUTE ℄ ON RAMP O.C.

BOTTOM REINFORCEMENT

SCALE None	BRIDGE 42-216	FILE	DRAWING C-42216-12

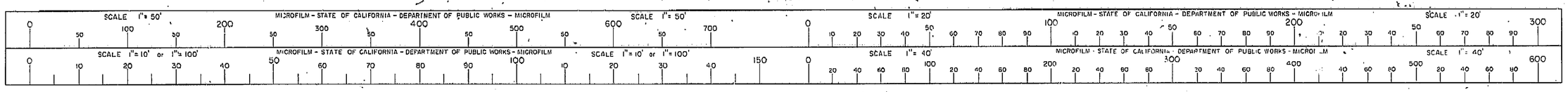
Disregard prints bearing earlier numbers →

PREL. DRAWING No. P-42216-12	1/30	3/15	3/30	7/3						

5 of 2

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-12-12 SIGNATURE [illegible] TITLE [illegible]



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V1 | Fre | 99

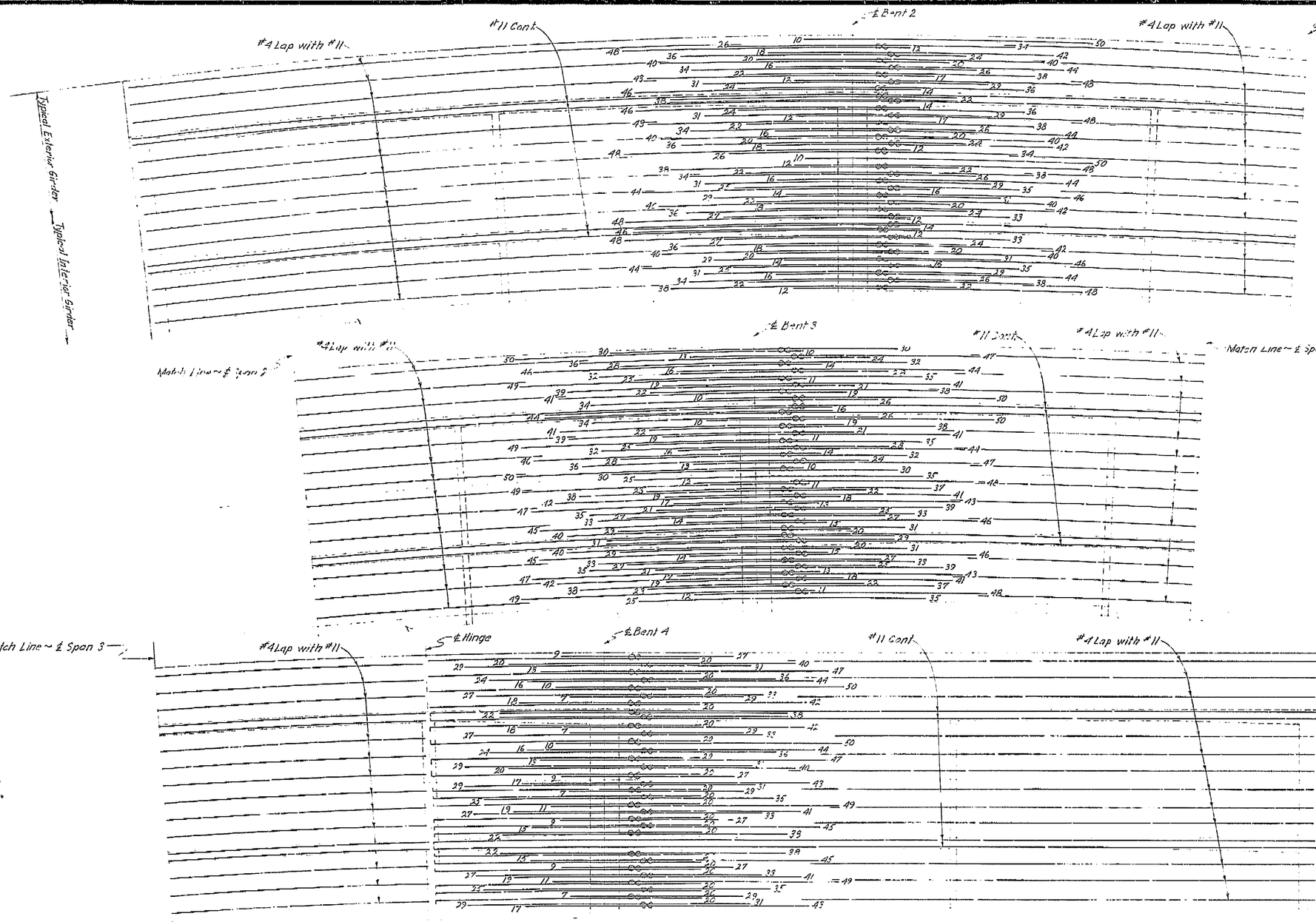
U-006-2(6)
F-006-2(5)

FED. ROAD DIV. No.	STATE	P. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
7	CALIF.		319	424

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	99	w/Overcrossing	w/Undercrossing	280

Bridge Engineer — Civil Engineer — Licensed 1086

Date Approved August 28, 1961



AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

Notes: All reinforcing #11 unless noted otherwise. Numbers at ends of bars indicate distance in feet from ℄ of Bent.
No splicing of #11 bars permitted near ℄ Bent.
All splices of bars in bundles shall be made with 35 diameter lap.
⌒⌒ Indicates bundled bars.

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer: Erich G. F. Diehm
Chief Designer: Walter Gutknecht

DESIGN	By P.J. Jurach 9/61	Checked	D.A. Smith 9/61	
DETAILS	By H.N. Dahl 11/60	Checked	D.F.S. 9/61	
QUANTITIES	By H.N. Dahl 9/61	Checked	D. SHELTON 9/61	
SPECIFICATIONS	By	Plans and Revis. Completed		

Approval Recommended by: Chief Engineer of Design — Civil Engr. License No. 8430

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ROUTE 99 ON RAMP O.C.

TOP REINFORCEMENT

SCALE	BRIDGE	FILE	DRAWING
None	42-216		C-42216-11

Disregard prints bearing earlier numbers →

PREL. DRAWING No. P-42216-11	1/2	3/14	3/20						

53

319

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DATE 1-12-82 SIGNATURE [illegible] TITLE [illegible]

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"= 50' SCALE 1"= 20' SCALE 1"= 10' or 1"= 100' SCALE 1"= 40'

ClibPDF - www.fastio.com

VI | Fre | 99

U- 006 -2 (6)
F- 006 -2 (5)

FED. ROAD DIV NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
7	CALIF.			328	428

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	Fre	41	Fre 99	20	20

DISTRICT ENGINEER

DATE APPROVED: 4 August 1961

+3.70%
1109+75.00
Elev. 277.03

600 V.C.
Rate of Change = $R = .383\%$/sta.

+1.40%
1115+75.00
Elev. 292.33

PROFILE GRADE

664'-10¾"
147'-2½" | 185'-8⅝" | 183'-2½" | 148'-10"
E.B. E.B.
Approx. original ground along ℄ S-1 Line
Elev.
Abut 1
16'-10"
Bent 2 | Bent 3 | Bent 4
Abut 5
Approx. original ground along ℄ S-1 Line
Datum Elev. 220.0
9 | 1110 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8

ELEVATION
1" = 40'

39'-8"
℄ S-1
1'-4" | 8'-0" | 24'-0" | 5'-0" | 1'-4"
Type 1 Barrier Railing
Profile Grade
Varies - 2½ max.
3'-0" min.
1½" Conduit
10'-0"
3@10'-0" = 30'-0"

TYPICAL SECTION
3/8" = 1'-0"

Top of cut
Toe of cut
2:1
1113+53.11 P.O.C. ℄ Survey
1113+72.21 P.O.C. ℄ S-1
10' min. Cut
BAKERSFIELD
FRESNO
6
N 45°00'12" W
℄ U41
24' Typ.
6' min. Cut
Toe of cut
Toe of fill
160'
160'
160'
100'
Detail C
Detail "X"
Top of fill
Detail "X"
30' 3 Jersey R=10000
1112+
1114+60.94 ℄ U41 P.C.
10'
Top of cut
Detail C
1110
Detail "X"
36'
23'
23'
Type I Pull Box and Anchor Bolt Detail (Future).
℄ Survey N 37°51'00" W

PLAN
1" = 40'

Note: This plan accurate for highway lighting only.

For additional notes see Sheet No. ES-7-4

328

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 6000 1062

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL RECOMMENDED BY	DATE
O. C. Schlenk	4/6	E. M. Taylor	4/11		4/11

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer E. M. Taylor
Chief Designer

DESIGN	By R.J. Juracich '60	Checked	
DETAILS	By M. Camacho '60	Checked	
QUANTITIES	By	Checked	
ELECTRICAL	By	Plans and Specs. Compared	

Approval Recommended by _____ Engineer of Design
Civil and Structural Assist. Bridge Engr. 5349

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ROUTE 41 ON RAMP O.C.
TO BE LOCATED AT THE INTERSECTION OF KIRK AND FLORENCE AVE. IN THE CITY OF FRESNO

LIGHTING PLAN

SCALE	BRIDGE	FILE	DRAWING
As Noted	42-216		42216-328

PREL. DRAWING No. P-42216-1 10/18/60

Disregard prints bearing earlier dates

328

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

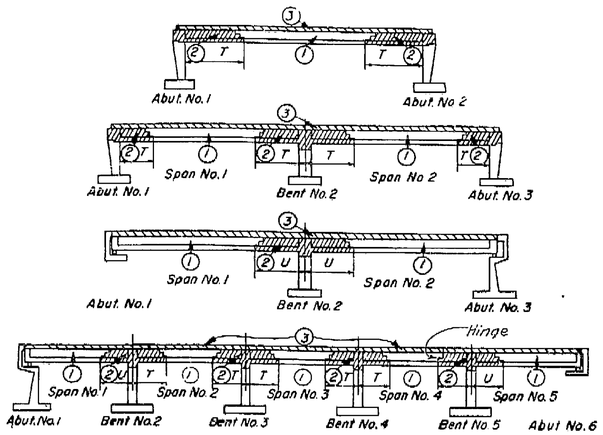
SCALE 1" = 50' | SCALE 1" = 10' or 1" = 100' | SCALE 1" = 20' | SCALE 1" = 40'
MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

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FED ROAD DIV NO	STATE	PROJ NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
.7	CALIF.			322	424

DIST	COUNTY	ROUTE	SECTION	SHEET NO	TOTAL SHEETS
VI	Fre	41	Exp	14	99

Date Approved August 28 1961



BOX GIRDER SUPERSTRUCTURE PLACING DIAGRAM

Numbers (1) and (2) indicate sequence of placing bottom slab and girder stem concrete. (2) may be placed simultaneously with (1) when approved by the Engineer, and provided that the (1) sections are placed in adjoining spans.

Top slab concrete (3) shall be placed separately from (1) and (2). (3) may be placed continuously or in parts as approved by the Engineer, however the only joints permitted shall be located within 2'-0" of the girder joints between (1) and (2).

T = ¼ span length

U = ¼ span length

For any deviation from the above the contractor shall submit a diagram to the Engineer for his approval.

GENERAL NOTES

Specifications:

Design: A.A.S.H.O. dated 1957 with revisions and as supplemented by Bridge Planning and Design Manual.

Construction: Standard Specifications, Division of Highways, dated January 1960 and the Special Provisions.

Live Loading: H20-S16-44 and alternative.

Unit Stresses:

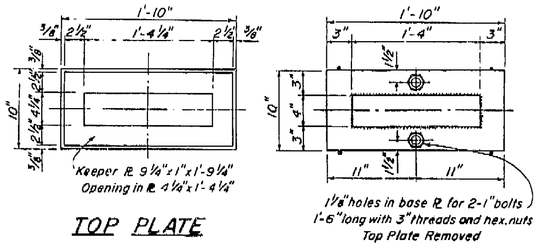
Reinforced Concrete:

f_s = 20,000 p.s.i.

n = 10

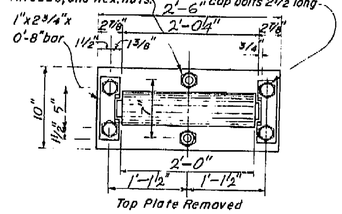
f_c = 1,200 p.s.i.

Footing Pressure. 4.0 tons p.s.f. @ Bents
2.5 tons p.s.f. @ Abuts.

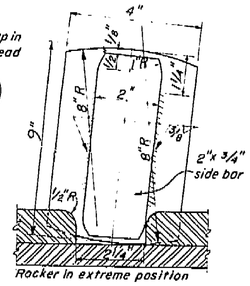


TOP PLATE

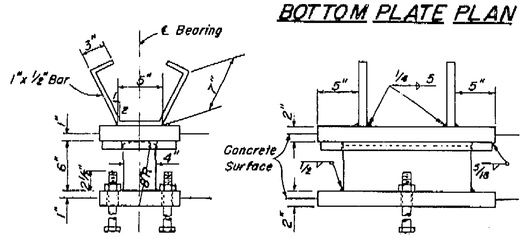
BOTTOM PLATE PLAN



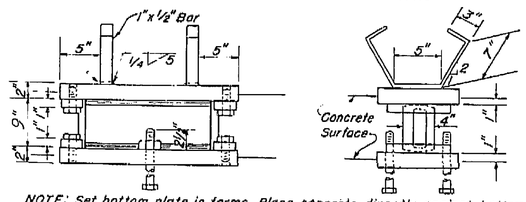
BOTTOM PLATE PLAN



END VIEW OF ROCKER
Scale: None

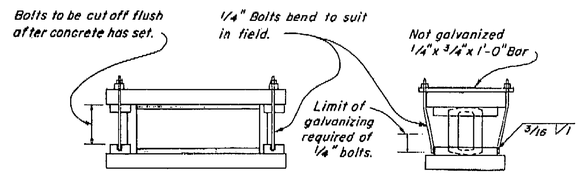


10"x22" FIXED BEARING ASSEMBLY
Required Scale 1½"=1'-0"



NOTE: Set bottom plate in forms. Place concrete directly against bottom plate. All bearing assemblies to be galvanized after fabrication.

10"x30" EXPANSION BEARING ASSEMBLY
8 Required Scale None



DETAIL OF ERECTION BOLTS
Scale 1½"=1'-0"

Note: This sheet has been altered from the standard.

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

BRIDGE DEPARTMENT ... DESIGN SECTION ...				
Project Designer	Earl E. Eastman			
Chief Designer	W.O. Quintrell			
DESIGN	by R.J. Juracich	7/61	Checked	P.J. Sierra Jr.
DETAILS	by H.N. Dahl	7/61	Checked	A.S. 7/61
QUANTITIES	by H.N. Dahl	9/61	Checked	D. SHELTON 9/61
SPECIFICATIONS	by		Plans and Terms Prepared	
Approval Recommended by	Roy A. Johnson, Assistant Chief of Design		Title 23 U.S.C. Approval	3439

9/60

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

99
ROUTE ON RAMP O.C.

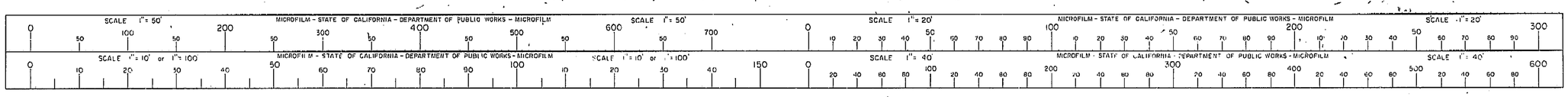
STANDARD DETAILS NO. 2 (BOX GIRDER)

SCALE	BRIDGE	FILE	DRAWING
As Noted	42-2/6	XS-16-40	C-42216-14

PREL. DRAWING No P-42216-14 3/28 3/14 8/23

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1/12/62 SIGNATURE [illegible] TITLE [illegible]



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U-006-2(6)
F-006-2(5)

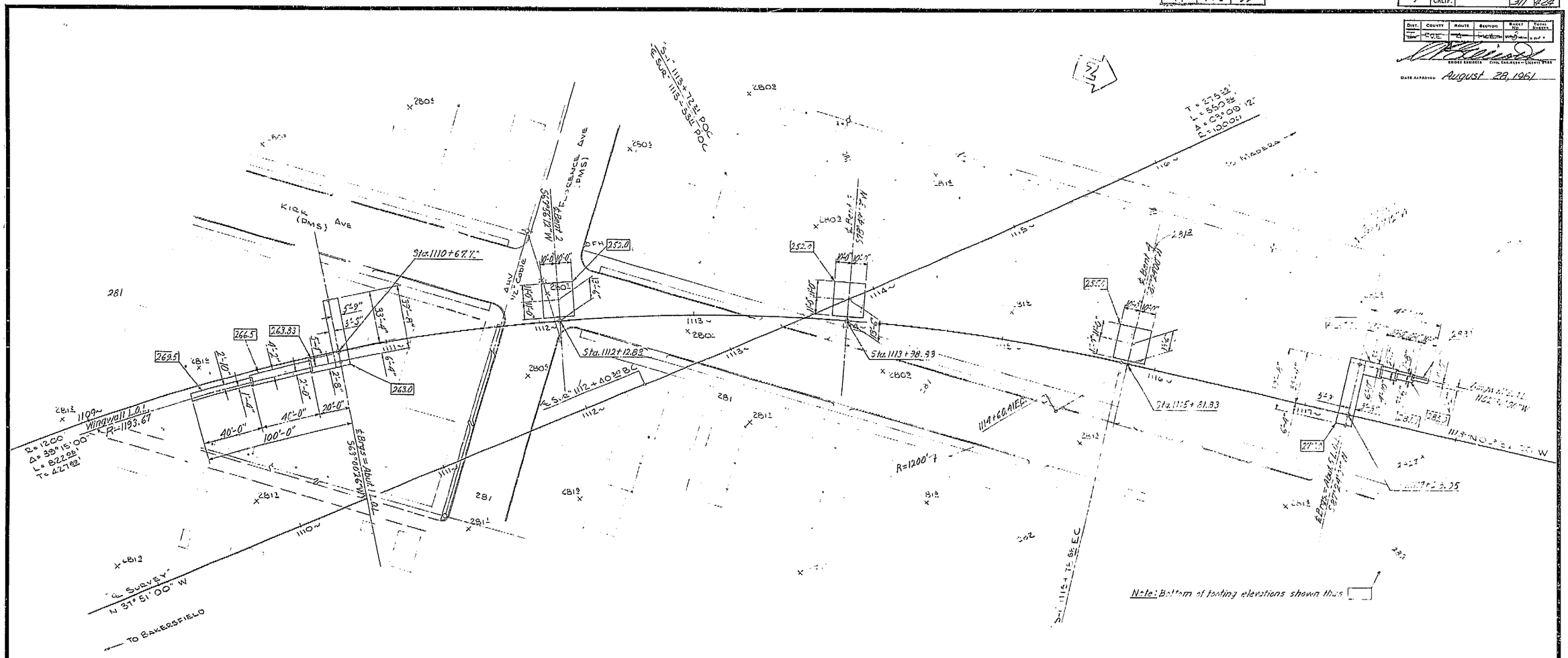
VI	Fre	99

FED. ROAD DIV. NO	STATE	F. A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.		311	424

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	99			

BRIDGE ENGINEER — CIVIL ENGINEER — LICENSE NO.

DATE APPROVED August 28, 1961



FM Line
Fig. 1 Bridge Route
NE corner Kirk & 11 Pioneer Ave
EL 280.12

FM Florence
Fig. 1 Bridge Route
Florence & Union Ave
EL 282.92

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

LEVEL DATUM:	USC & GS
FOR ALINEMENT TIES SEE	PR 7074-1
CONTOURS AS OF	8-60
SITE PLAN FROM	DISTRICT DATA.
SURVEY BY	DIST. VI DATE 8-60
DRAWN BY	JS DATE 8-60
TRACED BY	JS DATE 9-25-60

311

BRIDGE DEPARTMENT
DESIGN SECTION
Section Supervisor W.J. Gerber C

DESIGN	R.J. Jurach	9/6
	Checked D.A. Smith	9/61
DETAILS	H.N. Dahl	1/61
	Checked A.E. Fox	3/61
QUANTITIES	H.N. Dahl	4/61
	Checked D. SHELTON	4/61

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ROUTE 99 ON RAMP O.C.

FOUNDATION PLAN

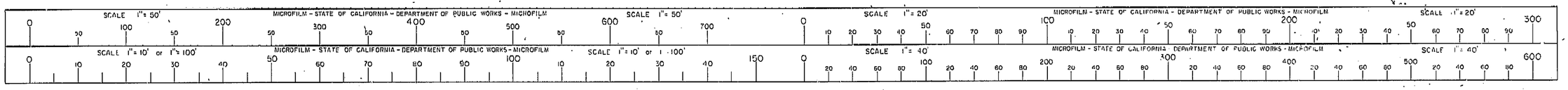
SCALE	BRIDGE	FILE	DRAWING
1" = 30'	42-216	E-42	C-42216-3

SEE DRAWING NO. B-42216-3 3/30/61 3/9/61 9/20

PR 7074-1 543

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-12-72 SIGNATURE Thomas C. Scott TITLE SR RMO



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California Department of Transportation
Division of Maintenance

Structure Maintenance and Investigations

BRIDGE

INSPECTION

RECORDS

INFORMATION

SYSTEM

The requested documents have been generated by BIRIS.

These documents are the property of the California Department of Transportation and should be handled in accordance with Deputy Directive 55 and the State Administrative Manual.

Records for “Confidential” bridges may only be released outside the Department of Transportation upon execution of a confidentiality agreement.

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	129	133

10/3/00
REGISTERED CIVIL ENGINEER

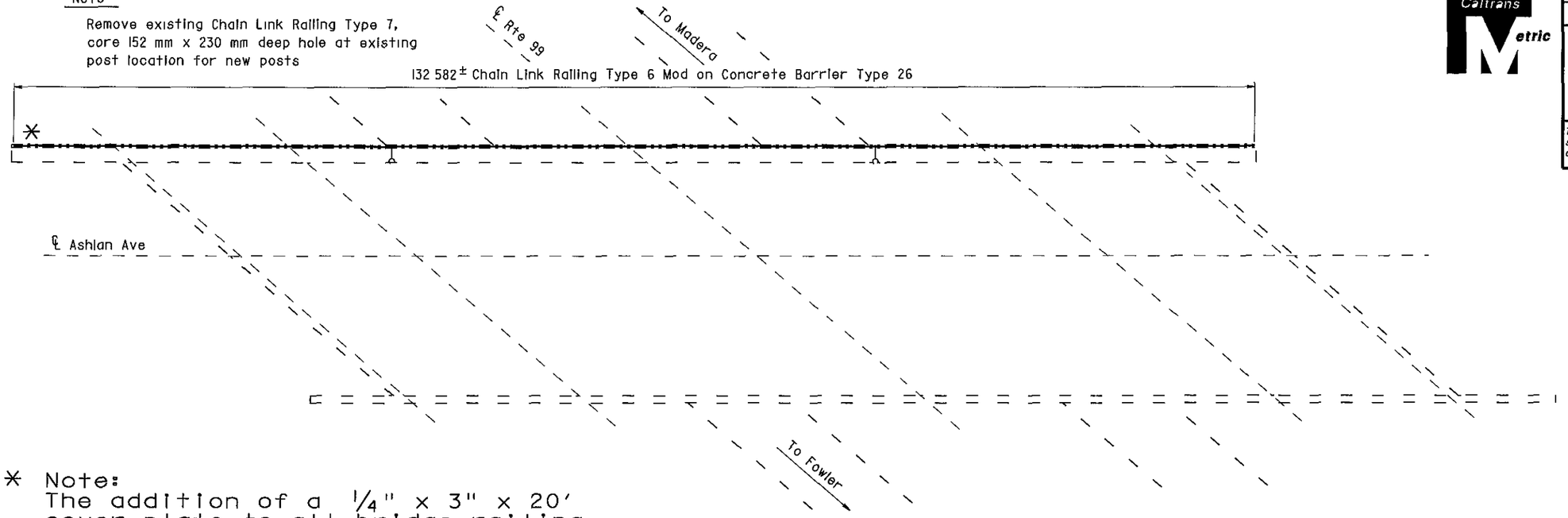
11-13-00
PLANS APPROVAL DATE

DIOSDADO ACOBA No 52003 Exp 12-31-02 CIVIL STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

Note

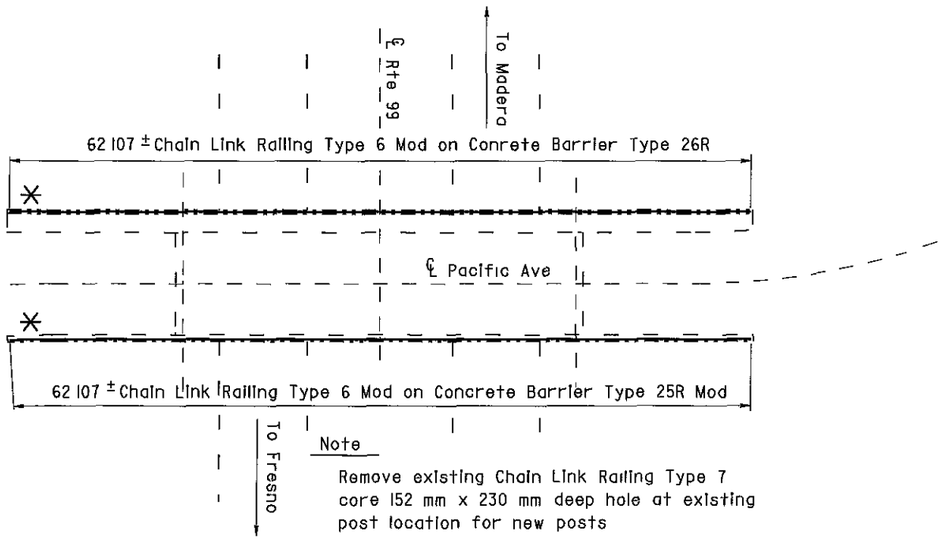
Remove existing Chain Link Railing Type 7, core 152 mm x 230 mm deep hole at existing post location for new posts



* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

ASHLAN AVENUE OC

Br No 42-0140, Fre, KP 42 8
1 250



Note

Remove existing Chain Link Railing Type 7 core 152 mm x 230 mm deep hole at existing post location for new posts

PACIFIC AVENUE OC

Br No 42-0189, Fre, KP 36 0
1 250

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

NOTES

— — Indicates existing

℄ ↓ Indicates approximate location of existing electrolier (To remain)

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

ASHLAN AVENUE OC 42-0140
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION O	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	133 m

PACIFIC AVENUE OC 42-0189
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION P	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	124 m

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

DESIGN	BY D Acoba 4/00	CHECKED F Tannous 5/00	LAYOUT	BY K Endow 4/00	CHECKED D Acoba 4/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE
DETAILS	BY K Endow 4/00	CHECKED F Tannous 5/00					
QUANTITIES	BY D Acoba 5/00	CHECKED F Tannous 5/00	SPECIFICATIONS	BY J Maroney 9/00	PLANS AND SPECS COMPARED J Maroney 9/00		

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 7

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE => nagp7.dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 5/15/00 7/17/00 9/26/00 10/3/00

SHEET 7 OF 11

USERNAME -> mgarrison DATE PLOTTED => 03 JAN 2003 TIME PLOTTED => 11:45

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NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Caltrans Metric

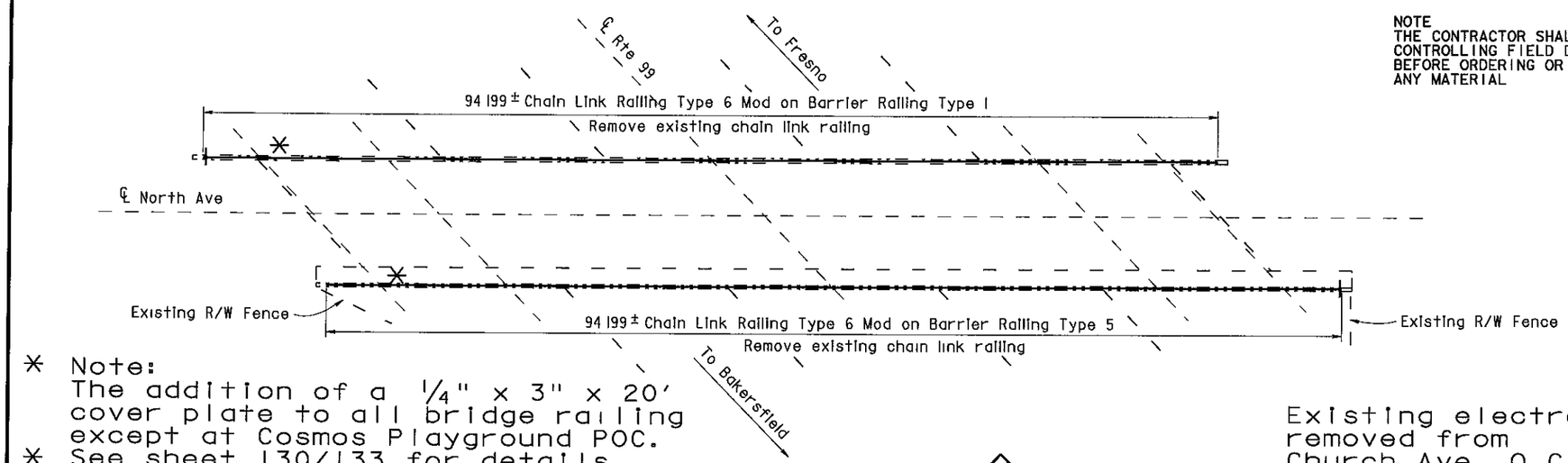
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	123	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DIOSDADO ACOBA
No 52003
Exp 12-31-02
CIVIL
STATE OF CALIFORNIA

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* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

NORTH AVENUE OC

Br No 42-0210, Fre, KP 27 8
1 250

Existing electroliers removed from Church Ave. O.C.

NOTES

— — Indicates existing

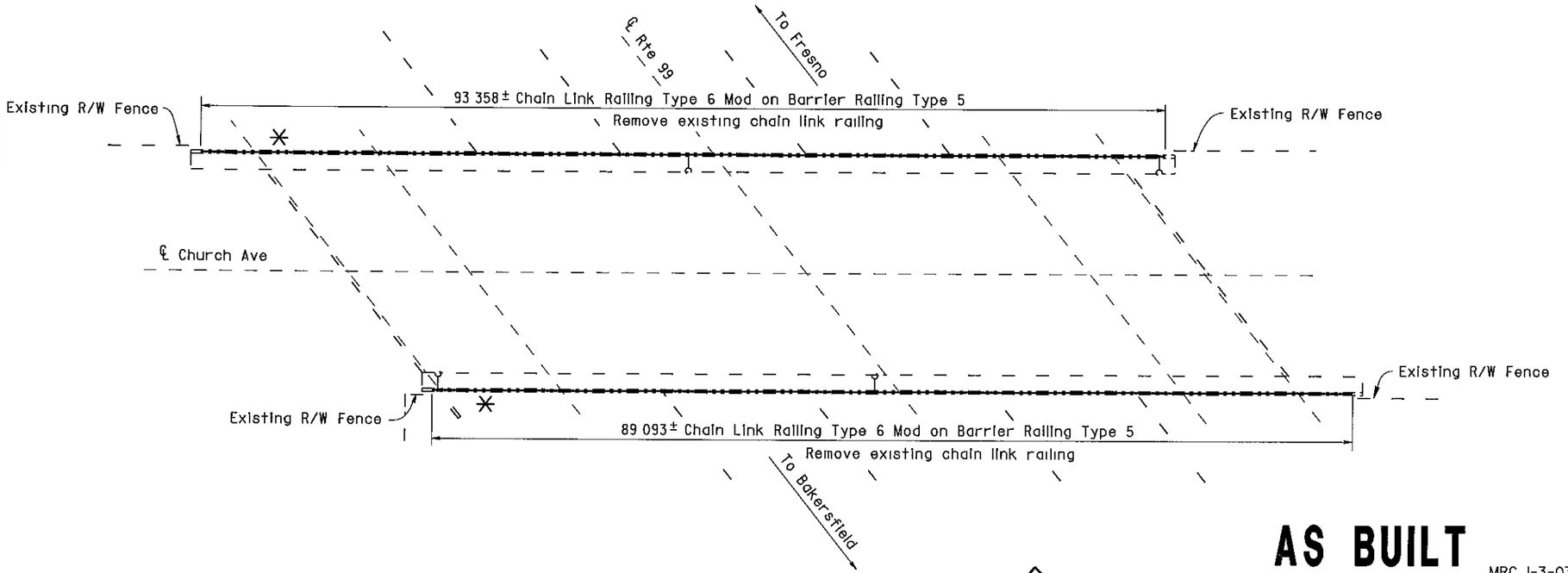
℄ Indicates approximate location of existing electrolier (To remain)

Indicates approximate location of remove and reinstall sign on new post

Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details

INDEX TO PLANS

SHEET NO	TITLE
1	GENERAL PLAN NO 1
2	GENERAL PLAN NO 2
3	GENERAL PLAN NO 3
4	GENERAL PLAN NO 4
5	GENERAL PLAN NO 5
6	GENERAL PLAN NO 6
7	GENERAL PLAN NO 7
8	CHAIN LINK RAILING TYPE 6 MOD NO 1
9	CHAIN LINK RAILING TYPE 6 MOD NO 2
10	CHAIN LINK RAILING TYPE 6 MOD NO 3
11	CHAIN LINK RAILING TYPE 3 MOD



CHURCH AVENUE OC

Br No 42-0214, Fre, KP 30 9
1 250

AS BUILT MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

NORTH AVENUE OC 42-0210
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION A	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	189 m

CHURCH AVENUE OC 42-0214
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION B	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	183 m

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED		BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00	LAYOUT	K Endow	4/00	D Acoba	4/00
DETAILS	K Endow	4/00	F Tannous	5/00				PLANS AND SPECS COMPARED	
QUANTITIES	D Acoba	5/00	F Tannous	5/00	SPECIFICATIONS	J Maroney	9/00	J Maroney	9/00

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 1

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 5/15/00 7/17/00 9/26/00 10/3/00

SHEET 1 OF 11

FILE -> nagpl.dgn

USERNAME -> mgarson DATE PLOTTED -> 02 JAN 2003 TIME PLOTTED -> 16:55

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	124	133

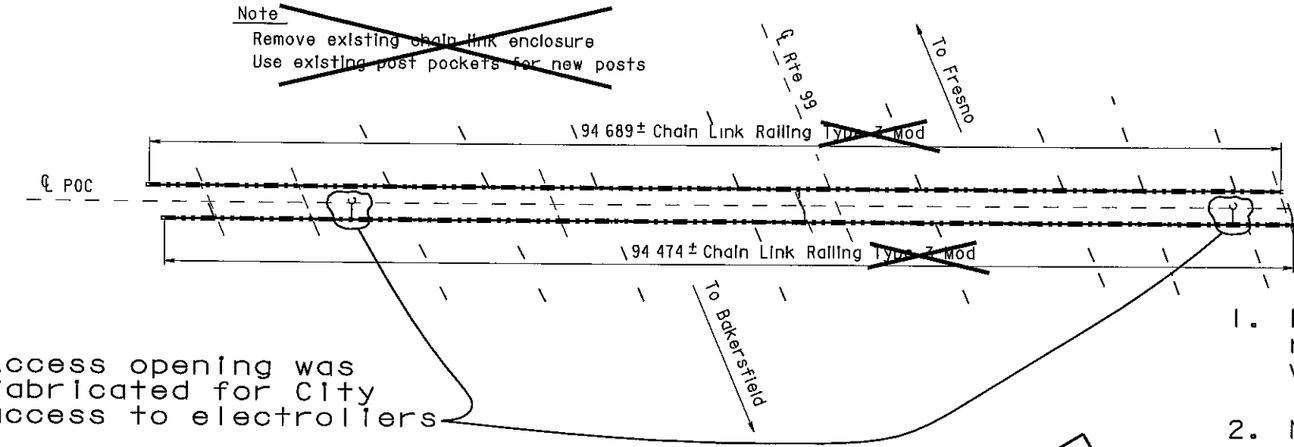
10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

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Note
Remove existing chain link enclosure
Use existing post pockets for new posts



COSMOS PLAYGROUND POC

Br No 42-0215, Fre, KP 31 2
1 250

1. Existing chain link railing remained and was painted.
2. New 1" mesh was installed and replaced the old 2" mesh.
3. Existing electroliers remained.

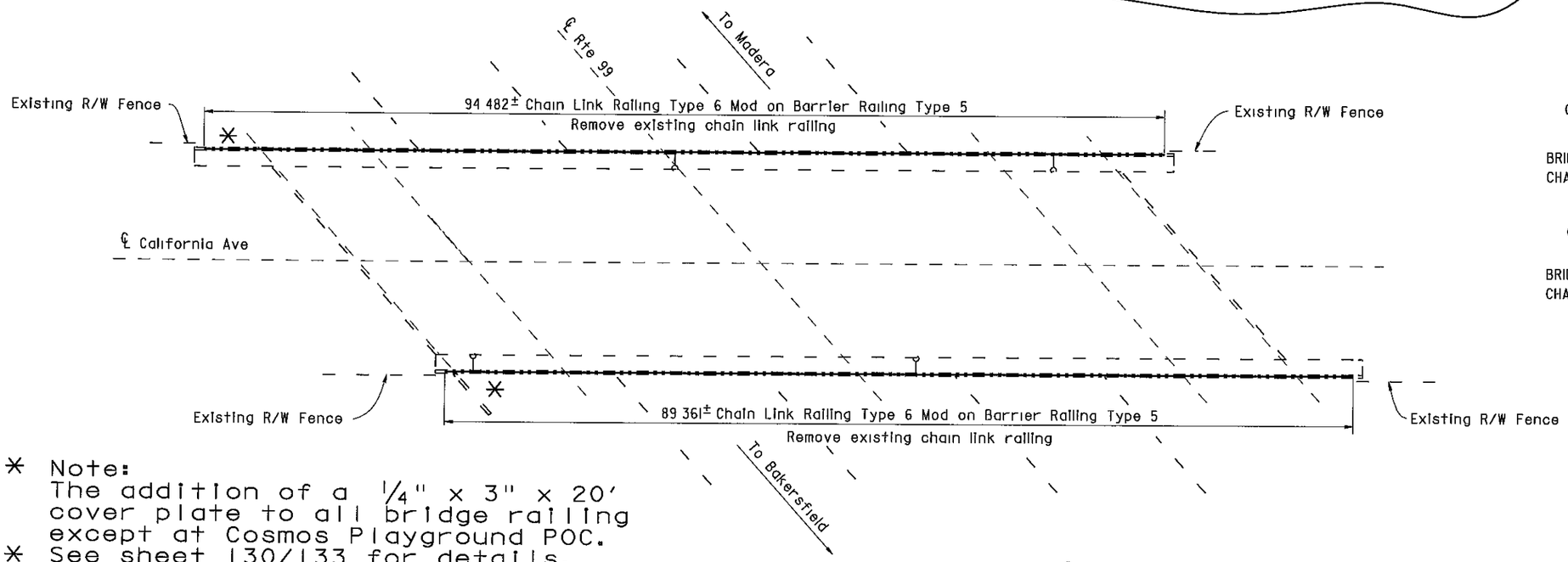
NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

NOTES

— — Indicates existing

℄ Indicates approximate location of existing electroliter (To remain)

Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details



COSMOS PLAYGROUND POC 42-0215
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION C	LUMP SUM
CHAIN LINK RAILING (TYPE 3 MODIFIED)	209 m

CALIFORNIA AVENUE OC 42-0217
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION D	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	184 m

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

CALIFORNIA AVENUE OC

Br No 42-0217, Fre, KP 32 0
1 250

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borguez
CONTRACT NO 06-440104
DATE 11-14-02

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00
DETAILS	K Endow	4/00	F Tannous	5/00
QUANTITIES	D Acoba	5/00	F Tannous	5/00
LAYOUT	K Endow	4/00	D Acoba	4/00
SPECIFICATIONS	J Maroney	9/00	J Maroney (PLANS AND SPECS COMPARED)	9/00

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

CU 06015
EA 440101

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 2

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/12/00 | 9/26/00 | 10/3/00

SHEET 2 OF 11

FILE -> nagp2.dgn

USERNAME -> morrison DATE PLOTTED -> 03 JAN 2003 TIME PLOTTED -> 08:15

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	99	23 3/50 7	125	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

VENTURA STREET OC 42-0158K
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION E	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	78 m

VENTURA STREET OC 42-0158E
QUANTITIES

BRIDGE REMOVAL (PORTION) LOCATION F	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	122 m

VENTURA STREET OC 42-0158S
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION G	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	74 m

NOTES

— — Indicates existing

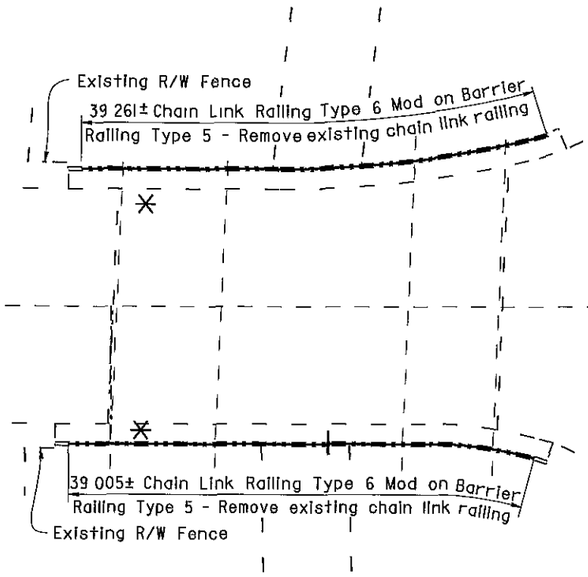
℄ Indicates approximate location of existing electroller (To remain)

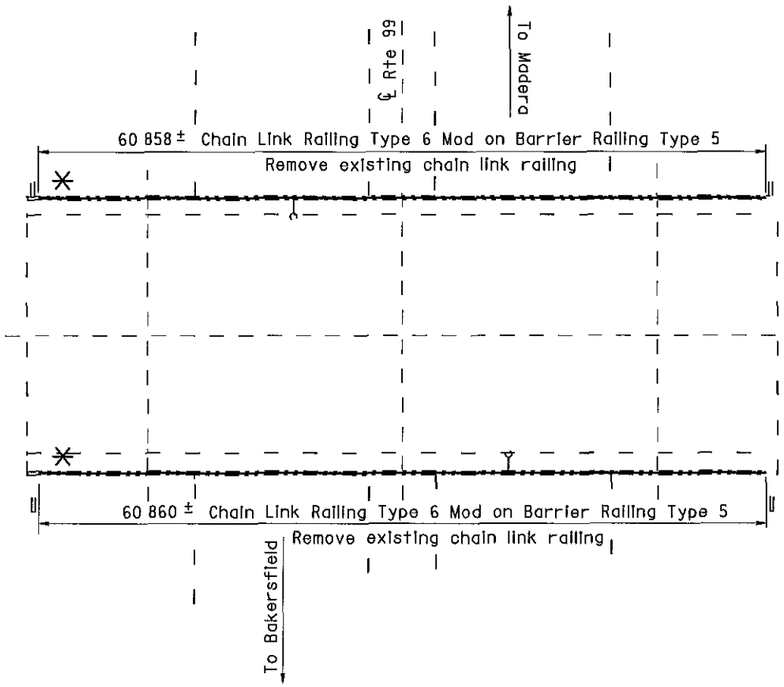
Indicates approximate location of remove and reinstall sign on new post

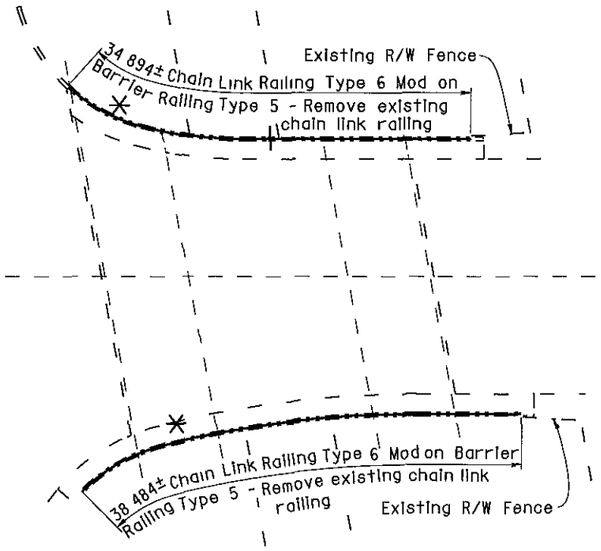
Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.







Br No 42-0158K

Bridges 42-0158K and 42-0158S were both painted with Color No. 20109 - "Deep red".

Br No. 42-0158E

VENTURA STREET OC

Fre, KP 32 5
I 250

AS BUILT
MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

Br No 42-0158S

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

	BY		CHECKED			BY		CHECKED			
DESIGN	D Acoba	4/00	F Tannous	5/00	LAYOUT	K Endow	4/00	D Acoba	4/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE
DETAILS	K Endow	4/00	F Tannous	5/00				PLANS AND SPECS COMPARED			
QUANTITIES	D Acoba	5/00	F Tannous	5/00	SPECIFICATIONS	J Maroney	9/00	J Maroney	9/00		

Michael J Lee 10/3/00
DESIGN ENGINEER

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE => nagp3.dgn

BRIDGE NO Various
KILOMETER POST Varies

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

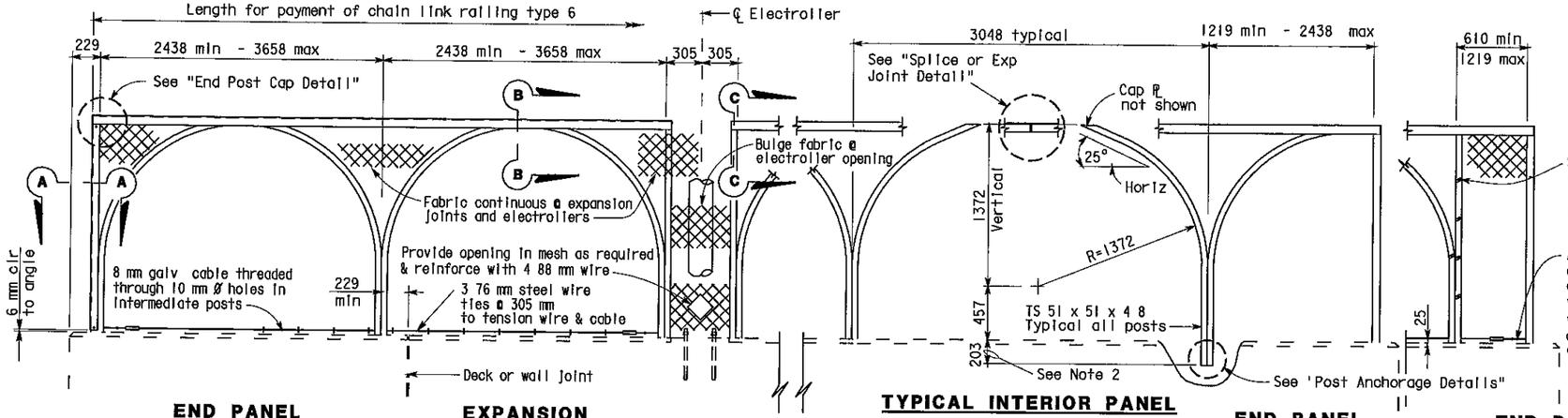
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ROUTE 99 BRIDGES
GENERAL PLAN NO. 3

SHEET 3 OF 11

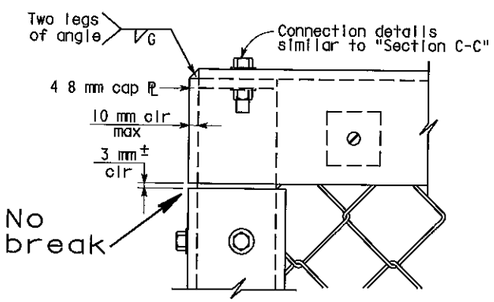
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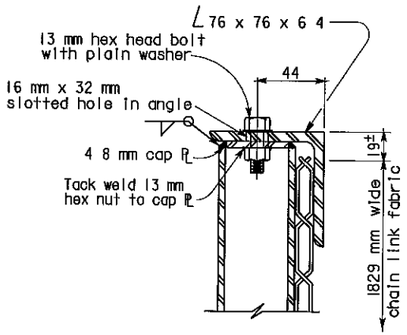


END PANEL 2438 mm - 3658 mm | **EXPANSION PANEL AT ELECTROLIER** | **TYPICAL INTERIOR PANEL** | **END PANEL 1219 mm - 2438 mm** | **END PANEL 610 mm - 1219 mm**

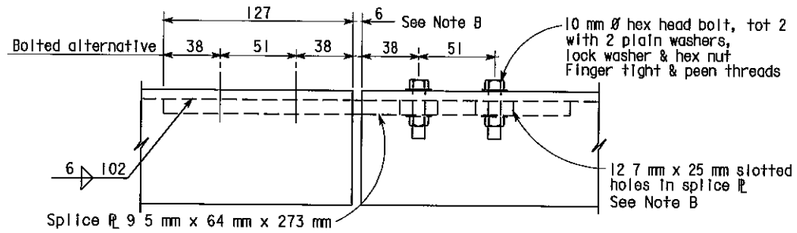
ELEVATION



END POST CAP DETAIL

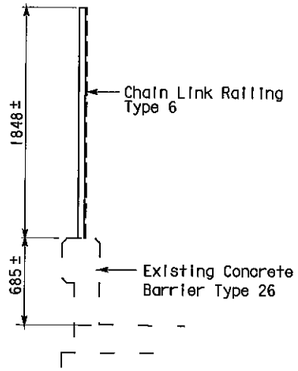


SECTION C-C

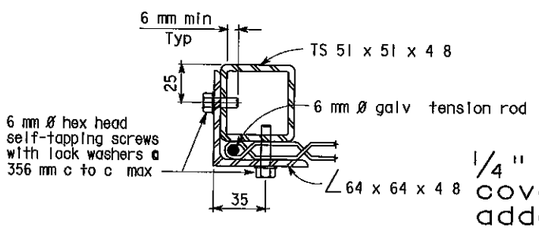


SPLICE OR EXPANSION JOINT DETAIL

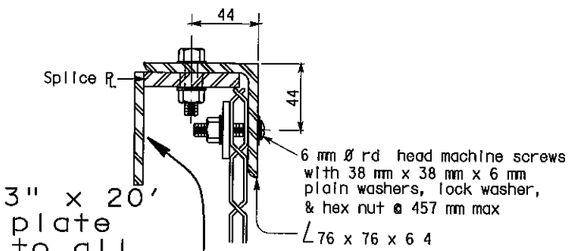
Note B Expansion joint same dimension as expansion joint in deck or wall Increase slotted hole length and splice ℙ length correspondingly



TYPICAL SECTIONS



SECTION A-A



SECTION B-B

NOTES

1. Horizontal angle shall be continuous over not less than two intermediate posts except that a shorter length is permitted at expansion joints, electrollers and other rail discontinuities
2. One post may be embedded 152 mm minimum to accomodate grade changes, otherwise fabricate post lengths as required
3. Curved posts may be rotated in plan within its post pocket to accomodate curved horizontal alignment
4. Straight posts and straight portions of curved posts shall be installed normal to bridge profile grade
5. Top horizontal angle shall be parallel to bridge profile grade and shall be shop bent to fit horizontal curves
6. When railing is on slope, fabric shall be placed parallel to slope
7. Alternative details may be submitted by Contractor for Engineer's approval
8. Railing assembly except chain link fabric shall be galvanized after fabrication
9. For details and reinforcement not shown, see "Concrete Barrier Type 25 or 26" sheet
10. See Bridge Plans for limits of Chain Link Railing Type 6 Mod
11. Provide thimbles at all cable loops
12. Chain link fabric to be 1829 mm wide with 25 mm mesh and with knuckled selvage top and bottom
13. When railing is placed on a horizontal alignment with a radius of 45 72 m or less, thread 8 mm cable through 10 mm Ø welded eye rods embedded 102 mm into the top of the concrete parapet and equally spaced to limit the middle ordinate distance between the 8 mm cable and the curve to 25 mm max
14. Splices and expansion joints shall be located at ℄ panel
15. Holes in posts for 8 mm cable and its anchorage may be field drilled and painted with zinc rich paint

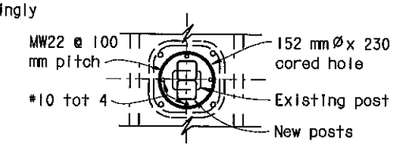
AS BUILT

MRC 1-3-03

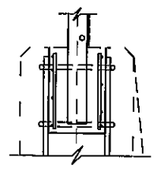
CORRECTIONS BY John Borquez

CONTRACT NO 06-440104

DATE 11-14-02



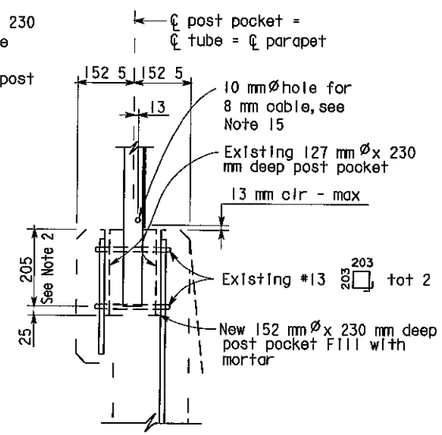
PLAN



SECTION

Detail omitted

POCKET DETAILS



POST ANCHORAGE DETAIL

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	130	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

DESIGN	BY D Acoba	5/00	CHECKED F Tannous	5/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY K Endow	5/00	CHECKED F Tannous	5/00	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE
QUANTITIES	BY D Acoba	5/00	CHECKED F Tannous	5/00	BRIDGE NO Various; KILOMETER POST Varies

ROUTE 99 BRIDGES

CHAIN LINK RAILING TYPE 6 MOD NO. 1

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV 10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE > nat61.dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/17/00 | 9/26/00 | 10/3/00

SHEET 8 OF 11

USERNAME mcarlson DATE PLOTTED > 03-JAN-2003 TIME PLOTTED => 12:11

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
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10/3/00
REGISTERED CIVIL ENGINEER

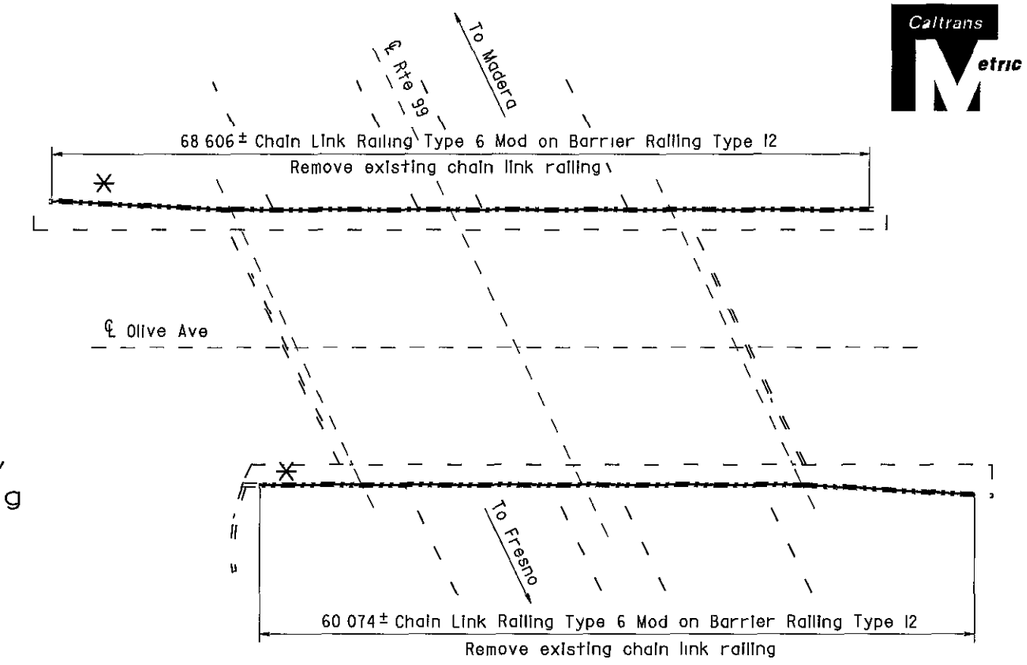
11-13-00
PLANS APPROVAL DATE

DIOSDADO ACOBA No 52003 Exp 12-31 02 CIVIL STATE OF CALIFORNIA REGISTERED PROFESSIONAL ENGINEER

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.



OLIVE AVENUE OC

Br No 42-0187, Fre, KP 37 5
1 250

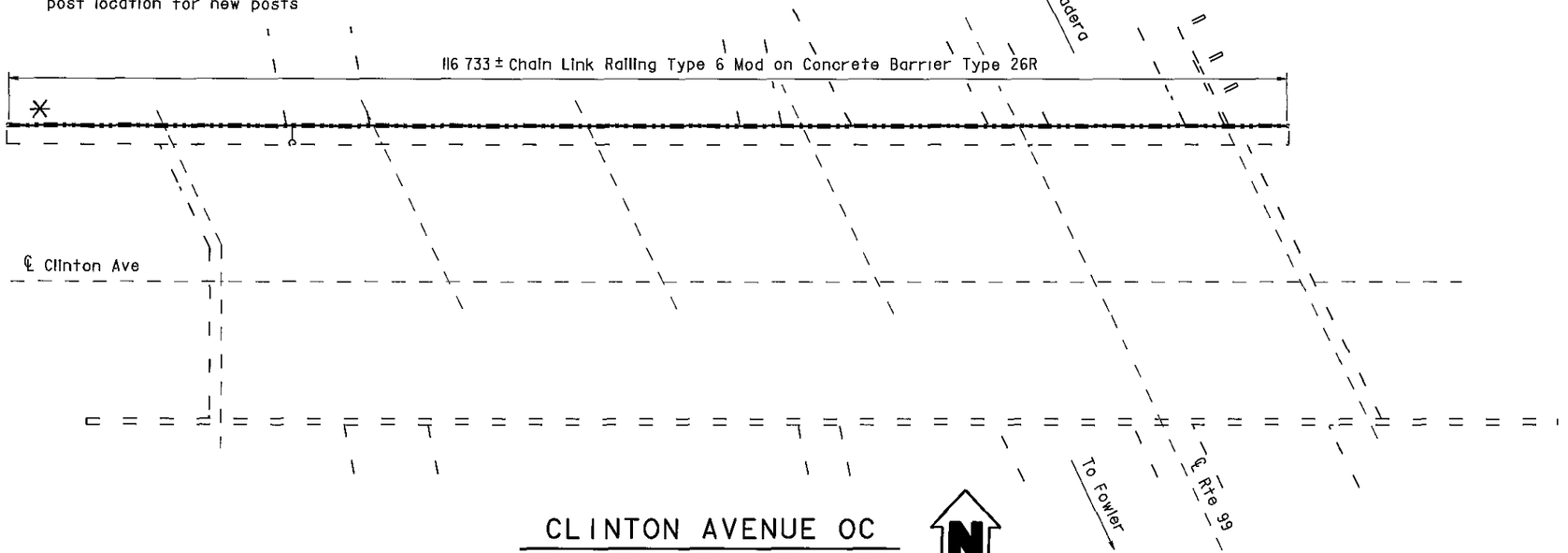
NOTES

— — Indicates existing

℄ Indicates approximate location of existing electrolier (To remain)

Note

Remove existing Chain Link Railing Type 7 core 152 mm x 230 mm deep hole at existing post location for new posts



CLINTON AVENUE OC

Br No 42-0183, Fre, KP 39 3
1 250

OLIVE AVENUE OC 42-0187
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION M	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	129 m

CLINTON AVENUE OC 42-0183
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION N	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	116 m

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED		BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00	LAYOUT	K Endow	4/00	D Acoba 4/00
DETAILS	K Endow	4/00	F Tannous	5/00				
QUANTITIES	D Acoba	5/00	F Tannous	5/00	SPECIFICATIONS	J Maroney	9/00	PLANS AND SPECS COMPARED J Maroney 9/00

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 6

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE => nagp6.dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/17/00 | 9/26/00 | 10/3/00

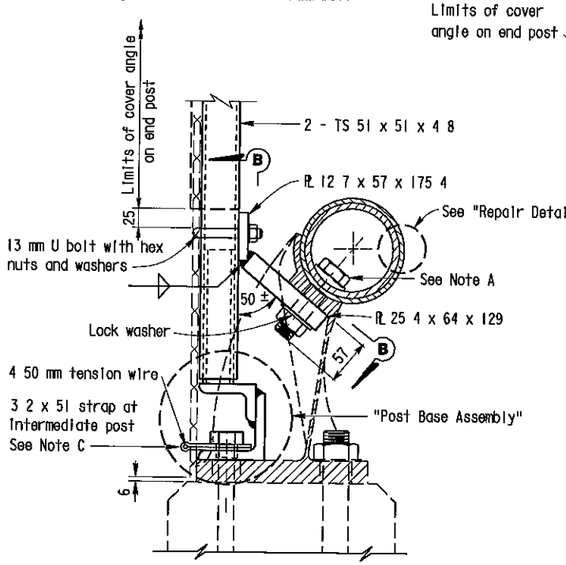
SHEET 6 OF 11

USERNAME => mcarlson DATE PLOTTED => 03 JAN-2003 TIME PLOTTED => 08 53

ClibPDF - www.fastio.com

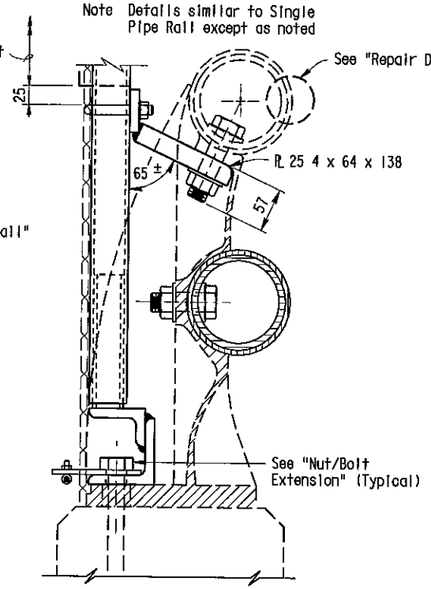
Note A

Replace existing bolt with 25 mm x 102 mm bolt



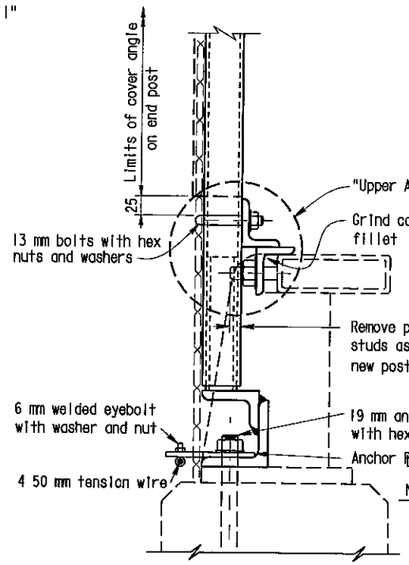
SECTION A-A (SINGLE PIPE RAIL)

Note Details similar to Single Pipe Rail except as noted



SECTION A-A (DOUBLE PIPE RAIL)

Note Details for Type 9 and Type 11 Metal Railing are similar, Type 11 not shown



SECTION A-A (TUBE RAIL)

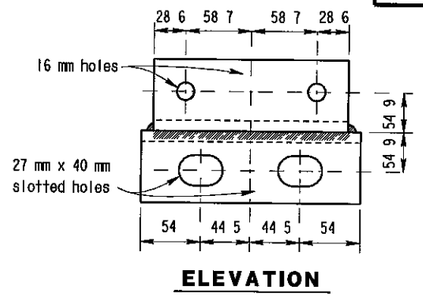
NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Note B

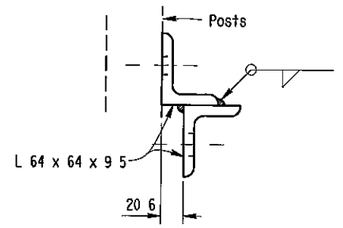
Paint all cut and ground surfaces with zinc rich paint

Note C

At intermediate posts only contractor has an alternate of 3 mm x 51 mm strap or 6 4 mm anchor plate with eyebolt



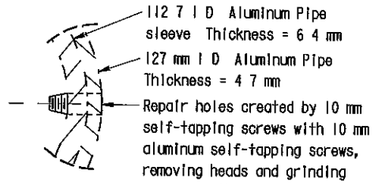
ELEVATION



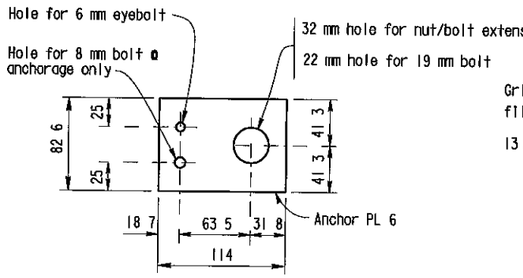
SIDE VIEW

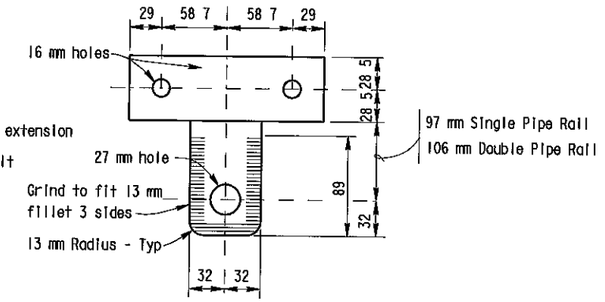
UPPER ANGLE BRACKET

ATTACHMENT DETAILS



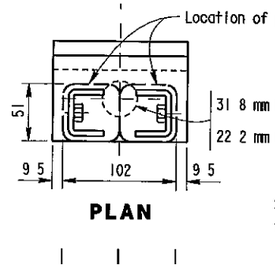
REPAIR DETAIL



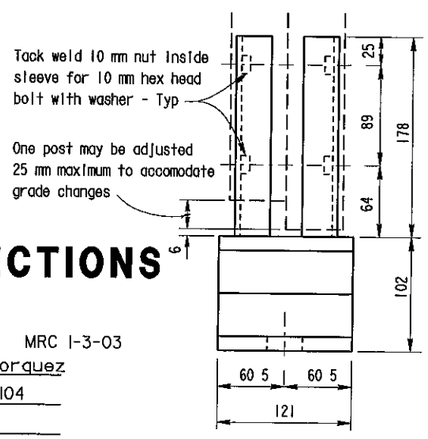


VIEW B-B

(Developed view of upper bracket)

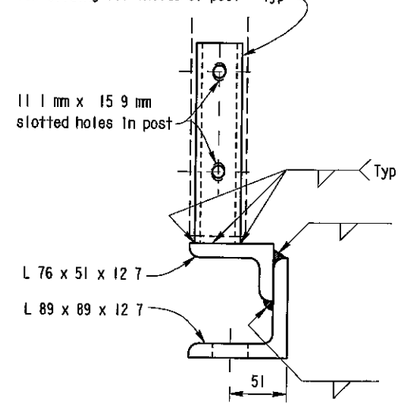


PLAN



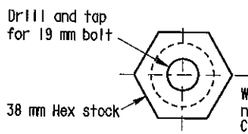
ELEVATION

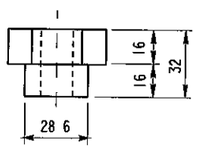
Sleeve formed from PL 4 7, bent thus ⊔ for sliding fit inside of post - Typ



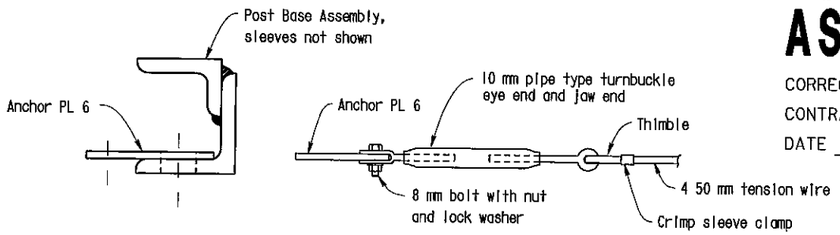
SIDE VIEW

POST BASE ASSEMBLY





NUT/BOLT EXTENSION



BOTTOM ANCHORAGE DETAIL

NO CORRECTIONS AS BUILT

MRC 1-3-03

CORRECTIONS BY John Borquez

CONTRACT NO 06-440104

DATE 11-14-02

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	132	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DIOSDADO ACOBA No 52003 Exp 12-31 02 CIVIL STATE OF CALIFORNIA

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DESIGN	BY D Acoba	5/00	CHECKED F Tannous	5/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY K Endow	5/00	CHECKED F Tannous	5/00	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE
QUANTITIES	BY D Acoba	5/00	CHECKED F Tannous	5/00	CU 06015 EA 440101

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
CHAIN LINK RAILING TYPE 6 MOD NO. 3

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

FILE > nat63 dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

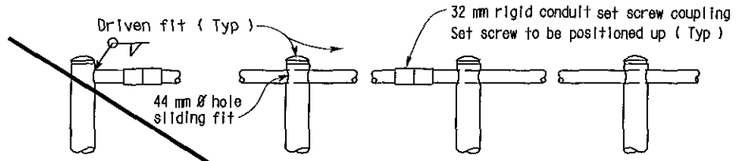
REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 7/17/00 9/26/00 10/3/00

SHEET 10 OF 11

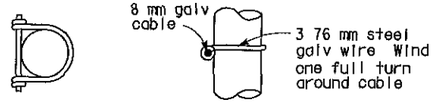
USERNAME > mgarlson DATE PLOTTED > 03 JAN 2003 TIME PLOTTED > 13:26

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RELEASED 6-9-98



END POST **INTERMEDIATE POSTS**



PLAN **ELEVATION**

DETAIL H

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
06	Fre	99	23 3/50 7	133	133

10-3-00
REGISTERED ENGINEER - CIVIL

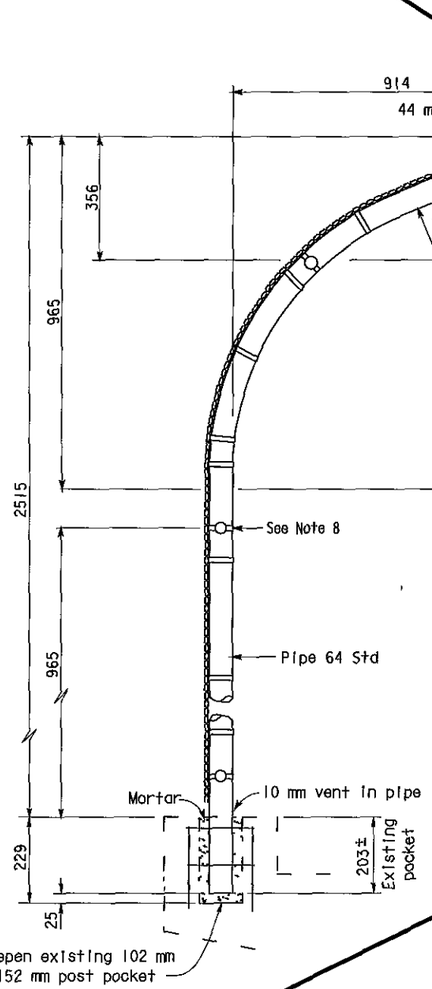
11-13-00
PLANS APPROVAL DATE

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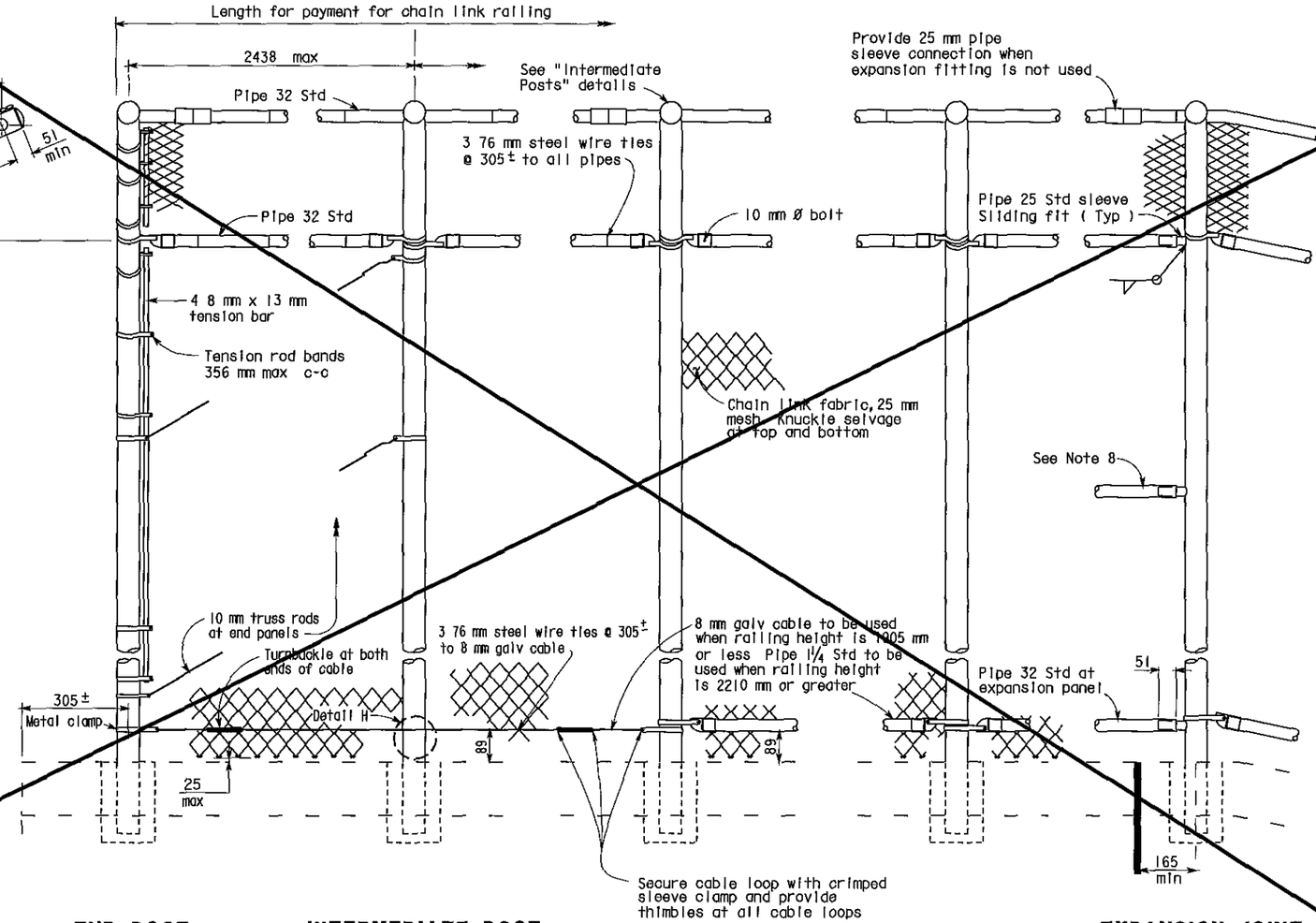
REGISTERED PROFESSIONAL ENGINEER
DIOSDADO ACOBA
No 52003
Exp 12 31 02
CIVIL
STATE OF CALIFORNIA

NOTES:

1 Railing assembly except chain link fabric to be galvanized after fabrication
2 Railing shall conform to horizontal and vertical alignment Posts shall be vertical Horizontal pipes shall be bent if radius is 45 72 m or less may be on 2 438 m chords If radius is over 45 72 m
3 Peen all 10 mm Ø bolts
4 When railing is on slope fabric shall parallel to slope
5 Alternative details may be submitted by Contractor for Engineer's approval
6 Additional pipe 32 std required on radius less than 45 72 m



TYPICAL POST DETAIL



END POST **INTERMEDIATE POST** **EXPANSION JOINT**

ELEVATION

Sheet Deleted

No Type 3 Modified Railing was used on this contract

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

SPECIAL DETAIL

NO SCALE
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

STANDARD DRAWING				
FILE NO XS 9 81	DESIGN BY R W BISHOP	CHECKED J HAMAGUCHI	APPROVAL RECOMMENDED BY	
DRAWING DATE Revised	DETAILS BY R YEE	CHECKED J HAMAGUCHI		
	SUBMITTED BY R W BISHOP		DESIGN SUPERVISOR	

DS OSD 2147A (METRIC) (REV 2/25/97)

1 Revised sheet - removed handrailing and electrical details and notes

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

CU 06105
EA 452001

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
CHAIN LINK RAILING TYPE 3 MOD 1

DISREGARD PRINTS BEARING EARLIER REVISION DATES
REVISION DATES (PRELIMINARY STAGE ONLY) 5/30/00 7/17/00 9/28/00 10/3/00

SHEET 11 OF 11

USERNAME > mgarlson
x5981 dgn
XS981 DGN

DATE PLOTTED > 03-JAN-2003 TIME PLOTTED > 13 32

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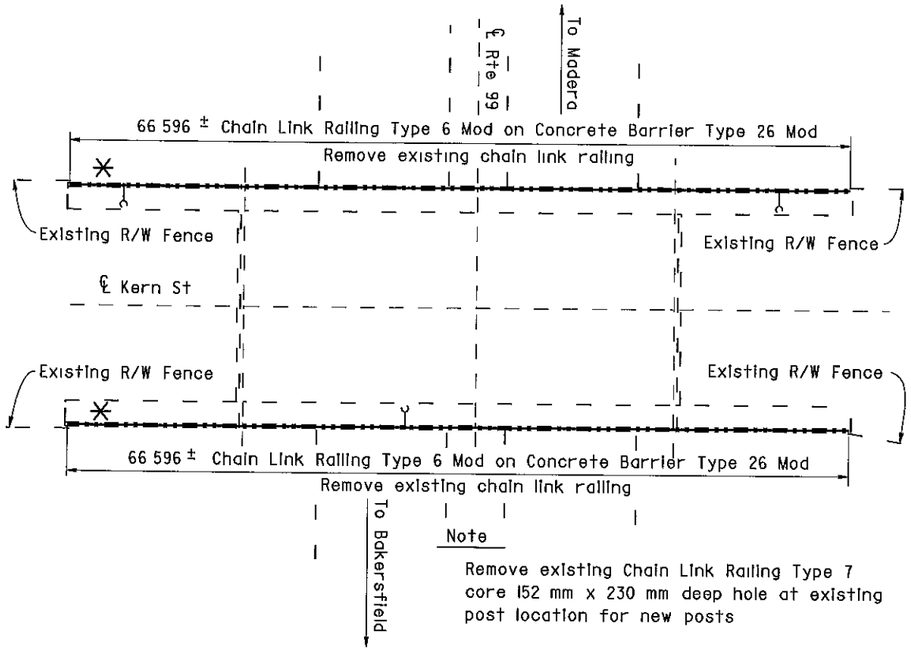
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	126	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

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Note

Remove existing Chain Link Railing Type 7 core 152 mm x 230 mm deep hole at existing post location for new posts

KERN STREET OC

Br No 42-0159, Fre, KP 33 0
1 250

KERN STREET OC 42-0159
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION H	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	133 m

TULARE STREET OC 42-0169
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION I	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	166 m

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

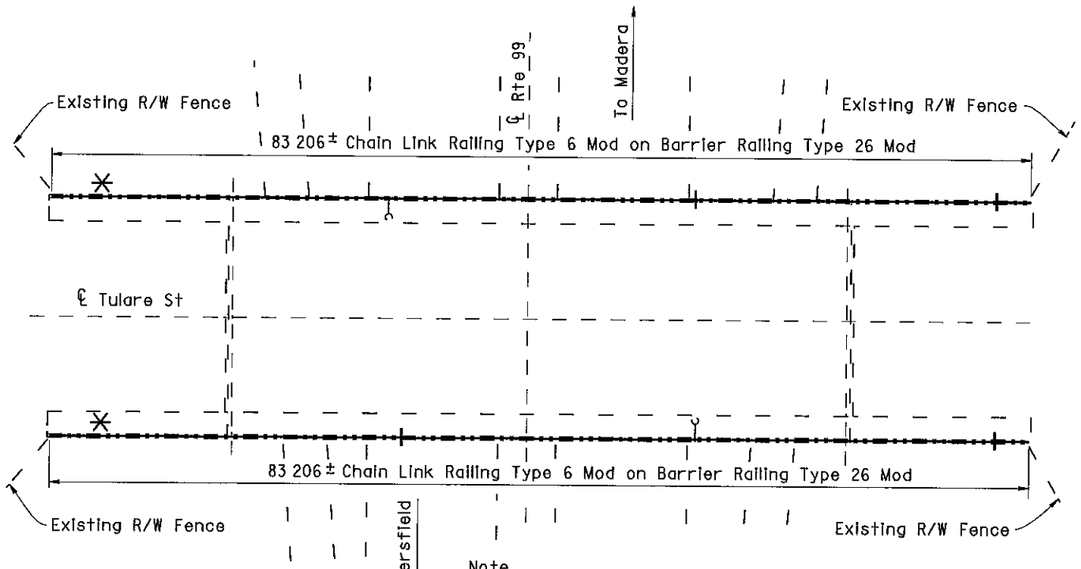
NOTES

— — Indicates existing

℄ Indicates approximate location of existing electrolier (To remain)

Indicates approximate location of remove and reinstall sign on new post

Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details



Note

Remove existing Chain Link Railing Type 7 core 152 mm x 230 mm deep hole at existing post location for new posts

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

TULARE STREET OC

Br No 42-0169, Fre, KP 33 2
1 250

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borguez
CONTRACT NO 06-440104
DATE 11-14-02

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00 DESIGN ENGINEER	DESIGN	BY D Acoba 4/00	CHECKED F Tannous 5/00	LAYOUT	BY K Endow 4/00	CHECKED D Acoba 4/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE	BRIDGE NO Various
	DETAILS	BY K Endow 4/00	CHECKED F Tannous 5/00						KILOMETER POST Varies
	QUANTITIES	BY D Acoba 5/00	CHECKED F Tannous 5/00	SPECIFICATIONS	BY J Maroney 9/00	PLANS AND SPECS COMPARED J Maroney 9/00		CU 06015 EA 440101	DISREGARD PRINTS BEARING EARLIER REVISION DATES

ROUTE 99 BRIDGES
GENERAL PLAN NO. 4

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 7/17/00 9/26/00 10/3/00

SHEET 4 OF 11

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

FILE > nagp4 dgn

USERNAME > mcarlson DATE PLOTTED > 03-JAN-2003 TIME PLOTTED => 08:38

ClibPDF - www.fastio.com

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	127	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

FRESNO STREET OC 42-0170
QUANTITIES

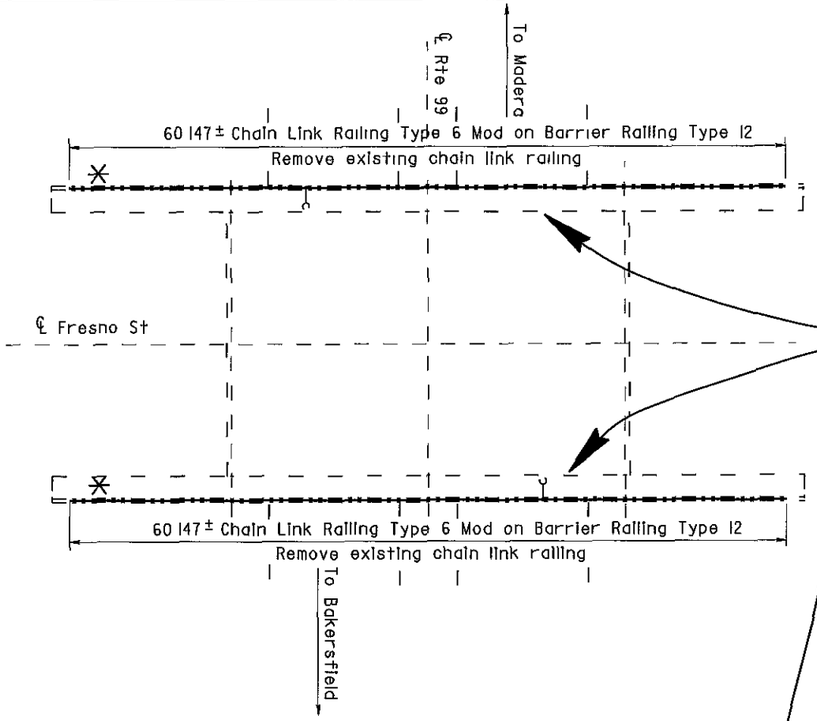
BRIDGE REMOVAL (PORTION), LOCATION J	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	120 m

EL DORADO STREET OC 42-0184
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION K	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	122 m

BELMONT AVENUE OC 42-0186
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION L	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	138 m



Handrail added to Fresno St. and Belmont Ave. OC

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

NOTES

— — Indicates existing

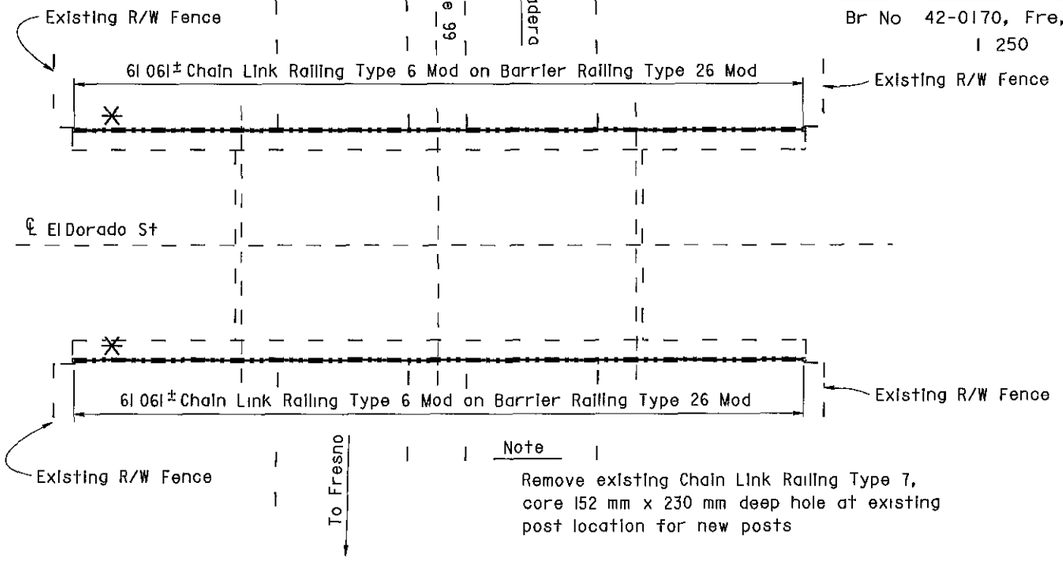
℄ Indicates approximate location of existing electrolier (To remain)

Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

FRESNO STREET OC

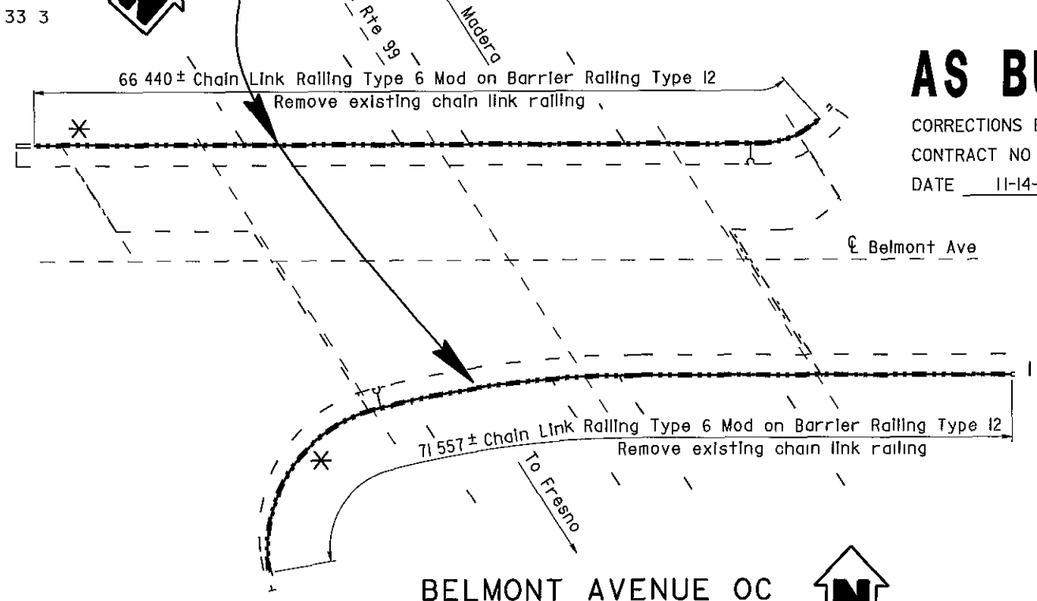
Br No 42-0170, Fre, KP 33 3
1 250



Note
Remove existing Chain Link Railing Type 7, core 152 mm x 230 mm deep hole at existing post location for new posts

EL DORADO STREET OC

Br No 42-0184, Fre, KP 34 6
1 250



BELMONT AVENUE OC

Br No 42-0186, Fre, KP 36 5
1 250

AS BUILT
MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED		LAYOUT	BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00		K Endow	4/00	D Acoba	4/00
DETAILS	K Endow	4/00	F Tannous	5/00				PLANS AND SPECS COMPARED	
QUANTITIES	D Acoba	5/00	F Tannous	5/00	SPECIFICATIONS	J Maroney	9/00	J Maroney	9/00

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

CU 06015
EA 440101

FILE => nogp5.dgn

BRIDGE NO	Various
KILOMETER POST	Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 5

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)									
5/15/00	7/17/00	9/26/00	10/3/00						

SHEET 5 OF 11

USERNAME => marison DATE PLOTTED => 03-JAN 2003 TIME PLOTTED => 06 50

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	131	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

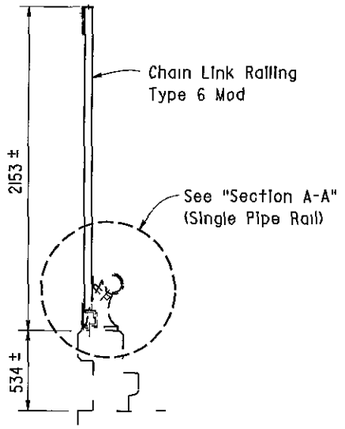
REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

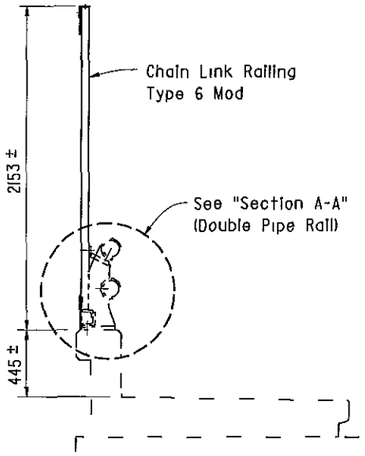
NO CORRECTIONS
AS BUILT

MRC 1-3-03

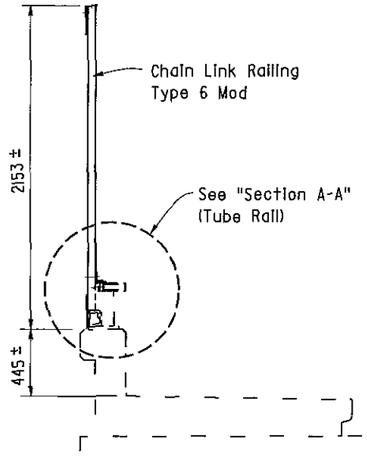
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02



TYPE 1



TYPE 5



TYPE 12

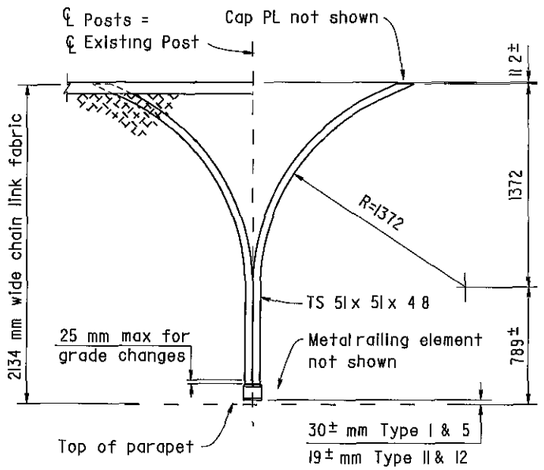
BARRIER RAILING SECTIONS

Existing chain link railing not shown

I 20

TYPE A
- NORTH AVE OC - 2 Locations
- CHURCH AVE OC - 4 Locations
- CALIFORNIA AVE OC - 4 Locations
- VENTURA ST OC - 4 Locations

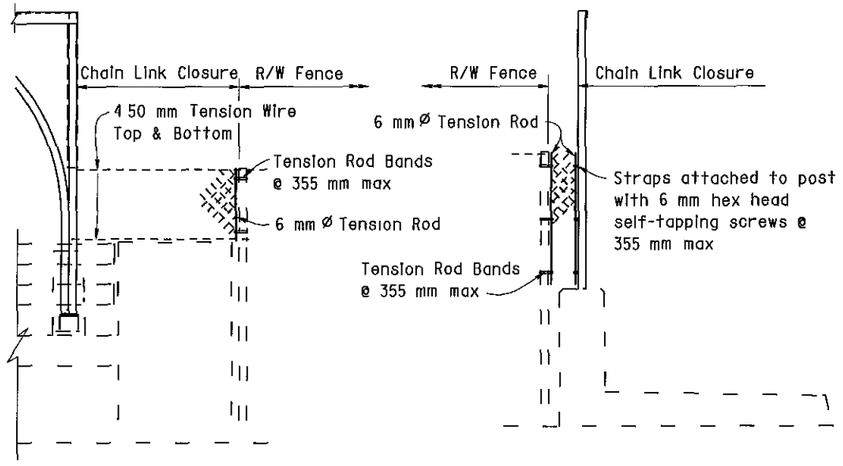
TYPE B
- KERN ST OC - 4 Locations
- TULARE ST OC - 4 Locations
- EL DORADO ST OC - 4 Locations



PART OUTSIDE ELEVATION

Note For details and notes not shown, see "Chain Link Railing Type 6 Mod No 1" sheet

I 10

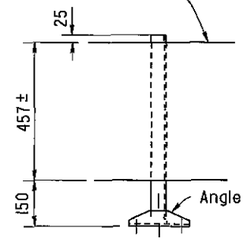


TYPE A TYPE B

R/W FENCE CONNECTION

I 10

Remove existing sign panels and reinstall on new post



TULARE ST OC

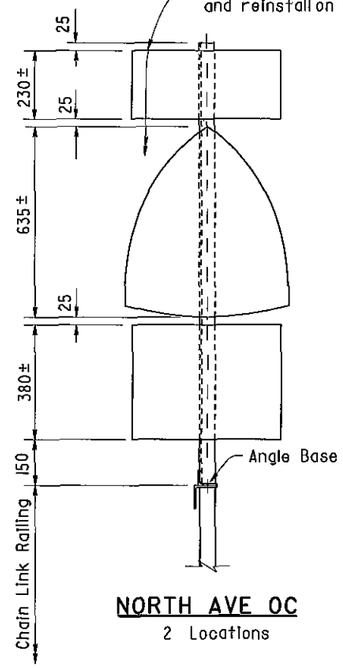
4 Loactions

Note

Reinstall signs at approximately the same location on chain link railing as existing

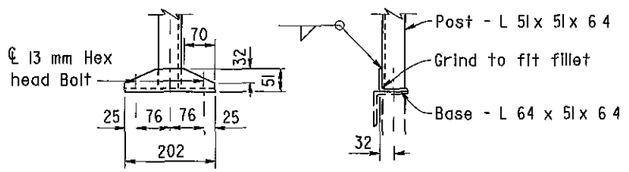
NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Remove existing sign panels and reinstall on new post



NORTH AVE OC

2 Locations



ANGLE BASE

Note

Hot dip galvanize sign post after fabrication
Field drilled holes to be painted with zinc rich paint

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

	BY		CHECKED	
DESIGN	D Acoba	5/00	F Tannous	5/00
DETAILS	K Endow	5/00	F Tannous	5/00
QUANTITIES	D Acoba	5/00	F Tannous	5/00

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
CHAIN LINK RAILING TYPE 6 MOD NO. 2

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE > nat62.dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/17/00 | 9/26/00 | 10/3/00

SHEET 9 OF 11

USERNAME => mcarlson DATE PLOTTED > 03-JAN-2003 TIME PLOTTED > 13:23

ClibPDF - www.fastio.com

VI | Fre | 99

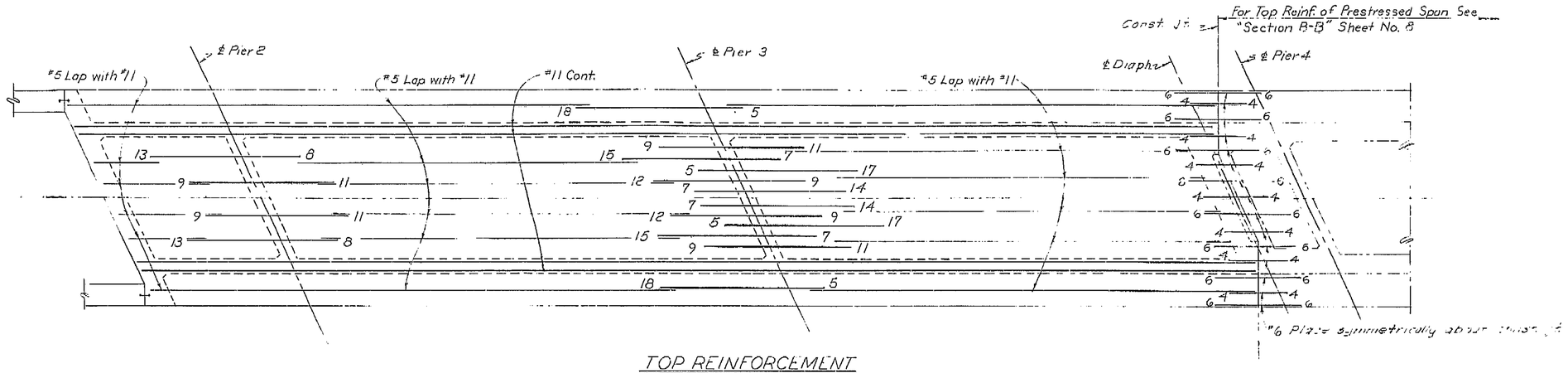
U-006-2(6)
F-006-2(5)

FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
7	CALIF.		302	424

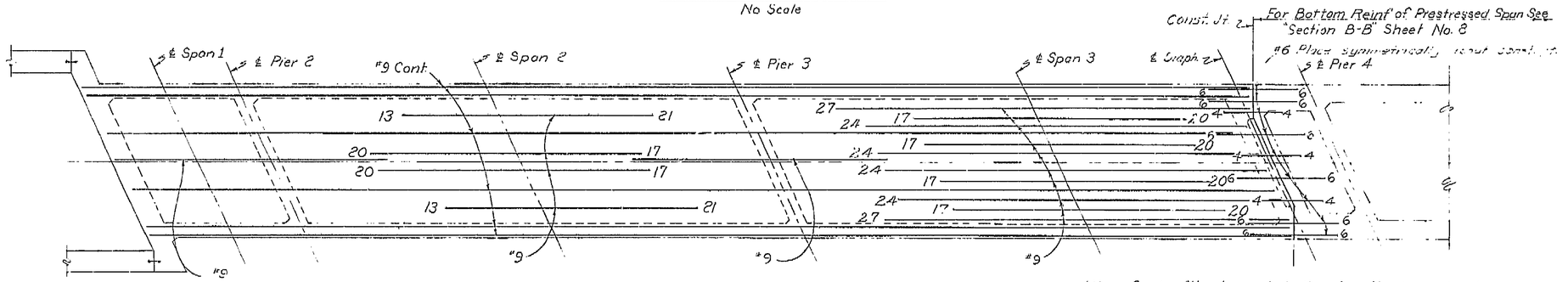
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	99			

BRIDGE ENGINEER — CIVIL ENGINEER — LICENSE 5581

DATE APPROVED: August 28, 1961

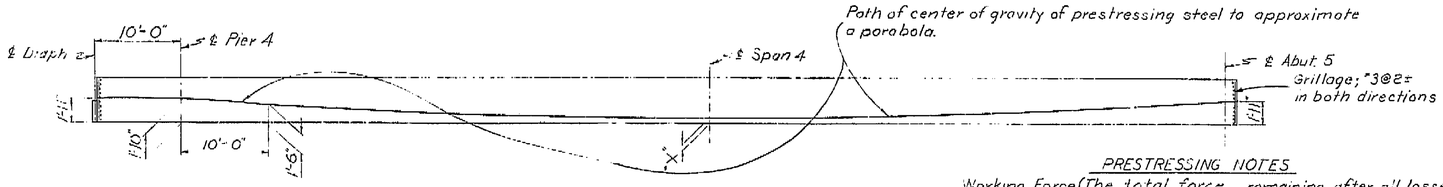


TOP REINFORCEMENT
No Scale



BOTTOM REINFORCEMENT
No Scale

All reinforcing #11 unless noted otherwise. Numbers at ends of bars indicate distance in feet from ℄ of pier for Top Reinforcement or ℄ span for Bottom Reinforcement. No splicing of #11 bars permitted near ℄ pier in Top Reinforcing, and no splicing of #9 permitted near ℄ span in Bottom Reinforcing.



GIRDER ELEVATION OF PRESTRESSED SPAN
No Scale

For details and reinforcement of prestressed span See Typical Section & Girder Layout Sheet.

PRESTRESSING NOTES

Working Force (The total force remaining after all losses, including those due to creep and shrinkage of concrete and creep of steel have occurred) is as follows:

for x = 5" P_f = 1,510,000 lbs
for x = 6" P_f = 1,370,000 lbs
for x = 7" P_f = 1,940,000 lbs

The loss in the post-tensioned prestressing steel due to shrinkage and creep and sequence stressing shall be assumed to be 24,000 P.S.I. In addition to the loss noted above, provision shall be made for losses due to friction, anchorage takeup, and any other losses peculiar to the system of pre-stressing used.

Concrete: F'_b = 4500 P.S.I. @ 28 days F'_{ci} = 3500 P.S.I. @ time of stressing
Prestressing Steel: See Special Provisions

AS BUILT PLANS
Contract No. 62-6T13C.3
Date Completed
Document No. 60001062

302

BRIDGE DEPARTMENT		
DESIGN SECTION 2		
Section Supervisor W. J. Jentsch		
DESIGN	W. E. Nixon	10/60
	Checked D. SHELTON	11/60
DETAILS	By M. Camacho	10/60
	Checked D. SHELTON	11/60
QUANTITIES	By BOB SKIMIN	3/61
	Checked D. SHELTON	3/61

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

COSMOS PLAYGROUND PEDESTRIAN O.C.

GIRDER REINFORCEMENT

SCALE As Noted | BRIDGE 42-215 | FILE | DRAWING C-42215-9

Disregard prints bearing earlier dates → PREL. DRAWING No. P-42215-9 (12/60, 10/60, 11/60, 3/61)

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-12-72 SIGNATURE [illegible] TITLE [illegible]

SCALE 1"= 50' MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM SCALE 1"= 20'

SCALE 1"= 10' or 1"= 100' MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM SCALE 1"= 40'

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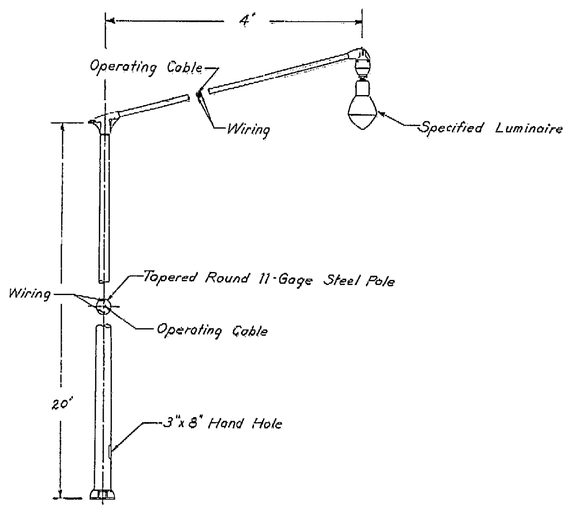
VI	Fre.	41	U-006-2(6) A-006-2(5)

B.P.R. REF. No.	STATE	FEDERAL PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			308	424

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	41	B-FRE	15	15

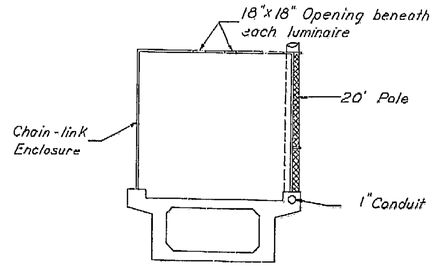
DISTRICT ENGINEER

APPROVED August 29, 1961



LIGHTING STANDARD DETAILS

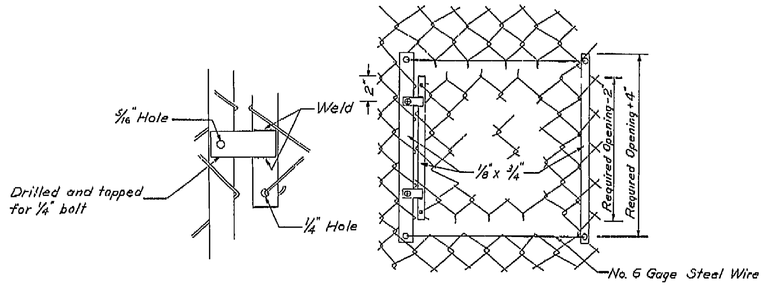
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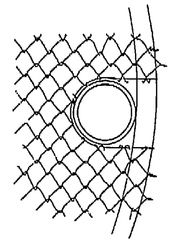
TYPICAL SECTION

Note: Provide 18"x 18" openings in top of chain-link enclosure to permit lowering of luminaire.

Contractor to furnish and install lighting standards as shown complete with mast arm, operating pulleys and cable, luminaire mounting assembly with plumbizer, contactor assembly and specified luminaire. Contractor shall furnish to the Engineer one detachable hand line necessary to drop luminaires for maintenance.



CHAIN-LINK ENCLOSURE OPENING



TOP OF ENCLOSURE POLE OPENING

DESIGN DEPT.	INITIAL	DATE
Designed		
Traced		
Checked		
Supervised by		

Project Engineer	Date	Design Engineer	Date	Approval Recommended By	Date
O.E. Schelander	4/11	E.B. Taylor	5/61		5/16/61

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

PEDESTRIAN O.C. SPECIAL LIGHTING DETAILS

15

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

SCALE 1"= 50' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"= 20'
SCALE 1"= 10' or 1"= 100' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"= 40'

ClibPDF - www.fastio.com

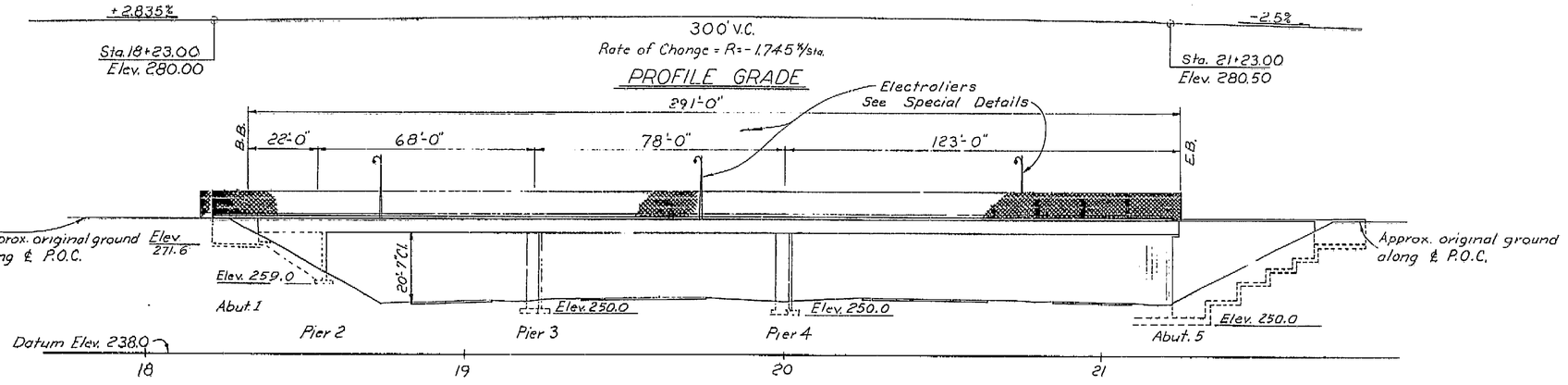
VI | Fre | 99 — U-006-2(6) F-006-2(5)

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			307	424

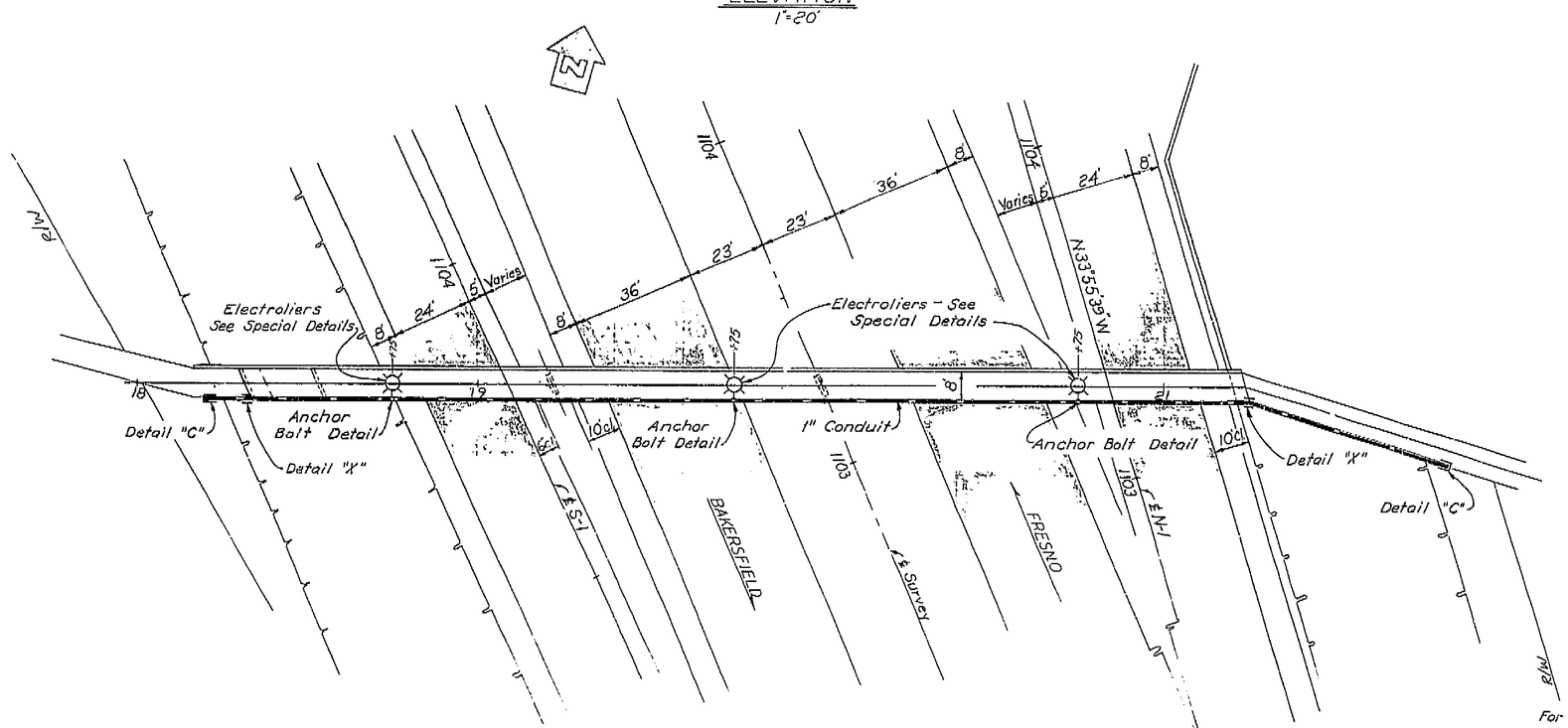
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
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DISTRICT ENGINEER

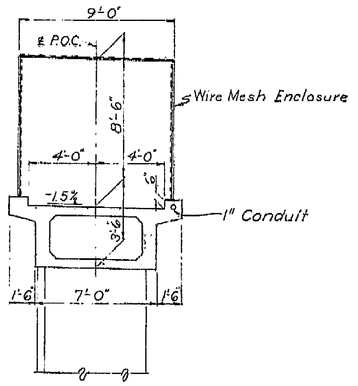
DATE APPROVED August 28, 1961



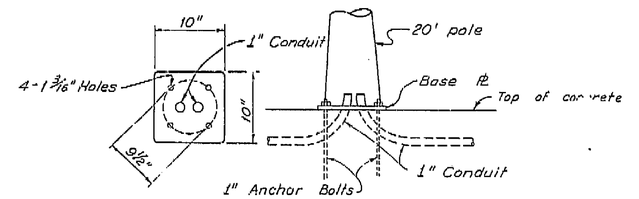
ELEVATION
1"=20'



PLAN
1"=20'



TYPICAL SECTION
1/2"=1'-0"



BASE PLATE DETAIL

Note: This plan accurate for highway lighting only.

For additional notes see "Pedestrian O.C. Special Lighting Details" and Sheet ES-7-4.

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL RECOMMENDED BY	DATE
O. E. Schubert	4/6/61	E. Taylor	9/61		9/61

BRIDGE DEPARTMENT
DESIGN SECTION
Project Designer: Earl P. Taylor
Chief Designer:

DESIGN	By W. Lebanic 1960	Checked	
DETAILS	By M. Camacho 10/60	Checked	
QUANTITIES	By	Checked	
ELECTRICAL	By	Plans and Specs. Completed	

Approval Recommended by _____ Engineer of Design
Civil and Structural Engr. License No. 5349

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

COSMOS PLAYGROUND PEDESTRIAN O.C.
TO BE LOCATED IN THE CITY OF FRESNO

LIGHTING PLAN

SCALE	BRIDGE	FILE	DRAWING
As Noted	42-215		42215-14

PREL. DRAWING No. P-42215-14

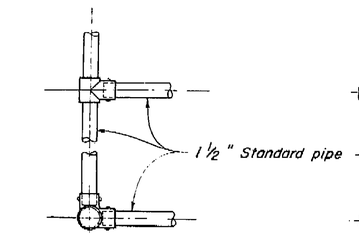
Disregard prints bearing earlier dates

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

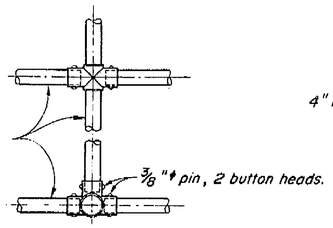
DATE _____ SIGNATURE _____ TITLE _____

SCALE 1"= 50' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"= 10' or 1"= 100' MICROFILM STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS MICROFILM
SCALE 1"= 20' MICROFILM STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"= 40' MICROFILM STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS MICROFILM

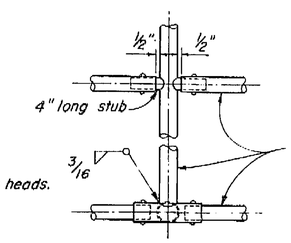
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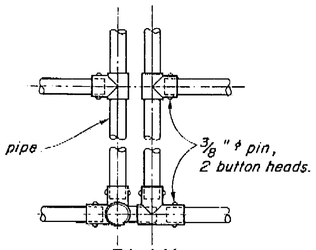
PLAN



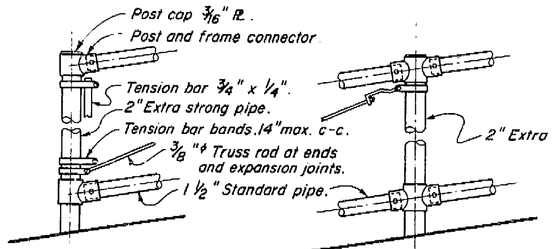
PLAN



PLAN

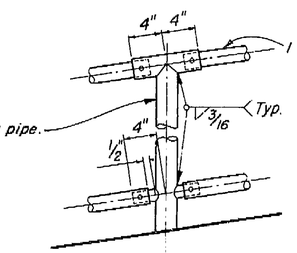


PLAN



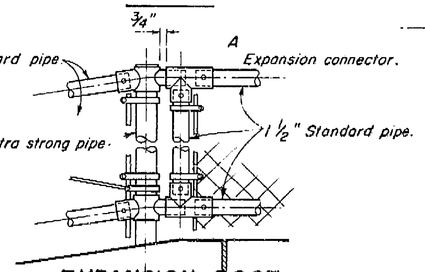
END POST

INTERMEDIATE POST

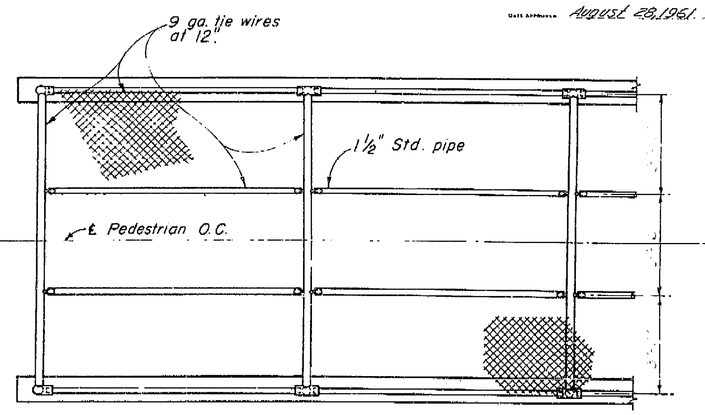


ALTERNATIVE DETAILS

Details at end posts and expansion posts similar.

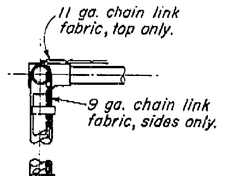


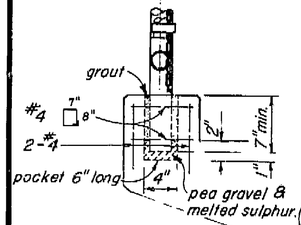
EXPANSION POST



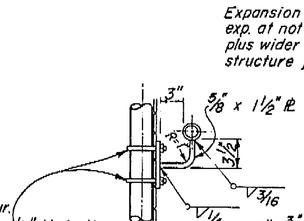
PLAN

Scale: ½" = 1'-0"

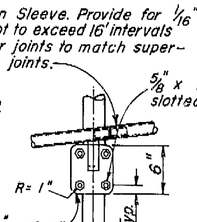




SECTION A-A

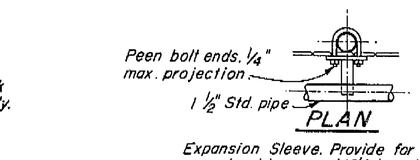


SIDE VIEW



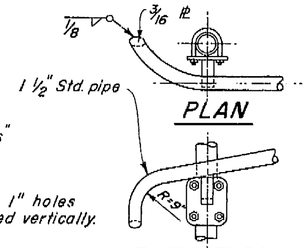
ELEVATION

HAND RAIL BRACKET



PLAN

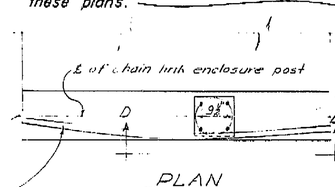
Expansion Sleeve. Provide for 1/16" exp. at not to exceed 16' intervals plus wider joints to match super-structure joints.



PLAN

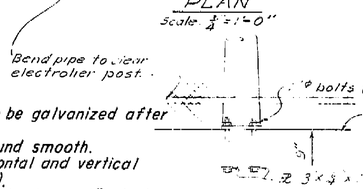
ELEVATION

HAND RAIL AT END



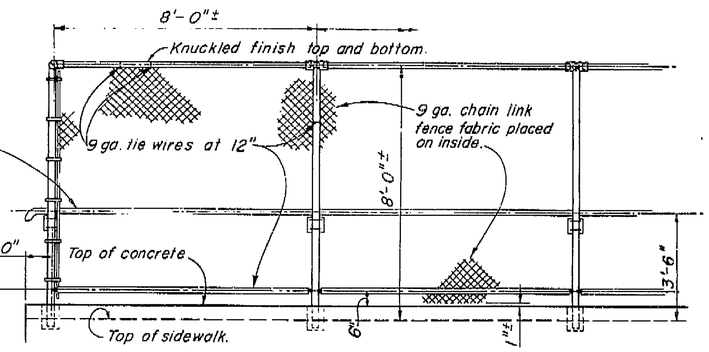
PLAN

Scale ¾" = 1'-0"



ELEVATION D-D

Scale: ¾" = 1'-0"



ELEVATION

Scale ½" = 1'-0"

Railing, posts and fittings to be galvanized after fabrication.

All exposed corners to be ground smooth.

Railing shall conform to horizontal and vertical alignment (posts shall be vertical).

Space post to clear expansion joints by 6" min. to ℄ posts.

Note: For location of electroliers and details of chain link enclosure openings in face of enclosure at electroliers see Road Plans.

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

STANDARD DRAWING

BRIDGE DEPARTMENT
DESIGN SECTION 2
Section Supervisor M. J. Jantzen

DESIGN	In Charge C. Sherman	11/60
	Checked C. Sherman	11/60
DETAILS	In Charge M. Comacho	11/60
	Checked D. Sheldon	11/60
QUANTITIES	In Charge Bob Skimin	3/61
	Checked D. Sheldon	3/61

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

11/60

[illegible] 1, [illegible] EN STEIN O.C.

CHAIN LINK ENCLOSURE

Except as noted Scale 1 1/2"=1'-0" | BRIDGE 42-215 | XS-9-69 FILE | DRAWING C-42215-12

Disregard prints bearing earlier numbers →

PREL. DRAWING No. P-42215-10

537

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE [illegible] SIGNATURE [illegible] TITLE [illegible]

SCALE 1"= 50' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"= 20' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"= 10' or 1"= 100' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"= 40' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

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Revision: 9-22-60
Made #8 bar cont. in Detail J-1.
ETK.

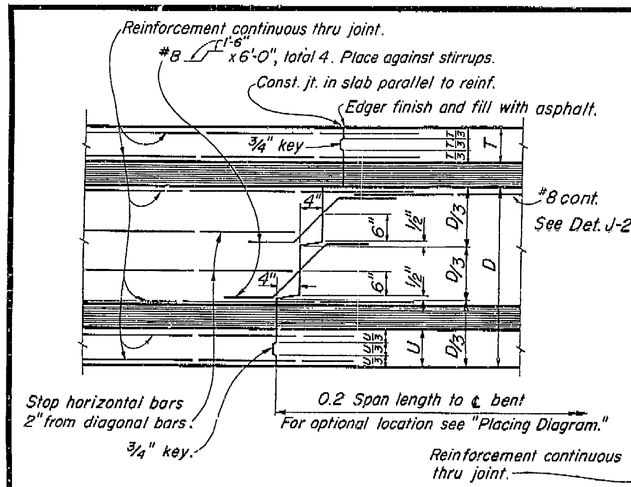
U-006-2(6)
F-006-2(5)

VI	Fre	99

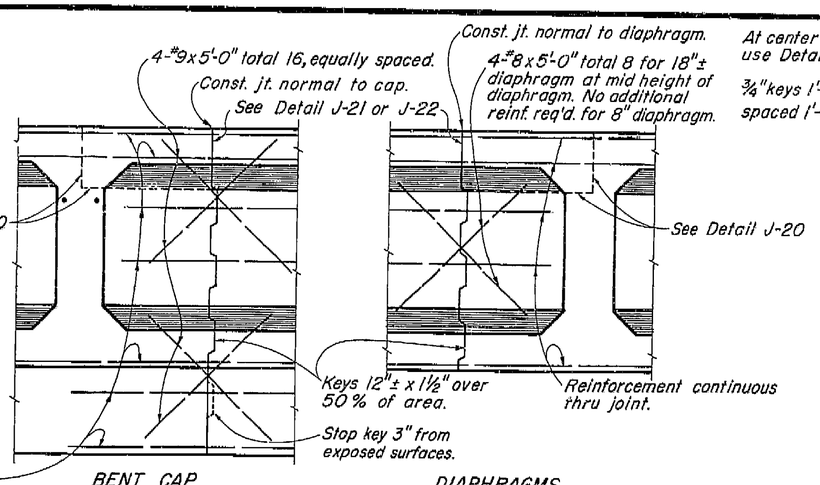
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7	CALIF.			303	424

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS

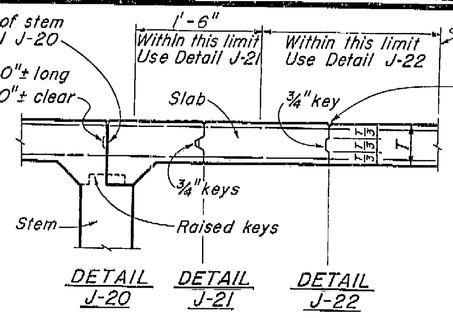
DATE APPROVED August 28, 1961

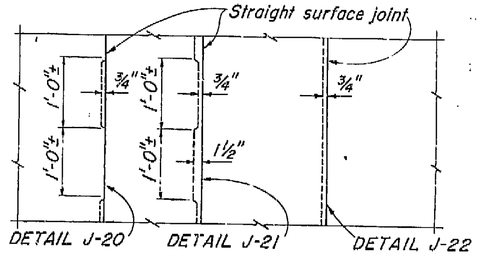


TRANSVERSE GIRDER CONSTRUCTION JOINTS
DETAIL J-3



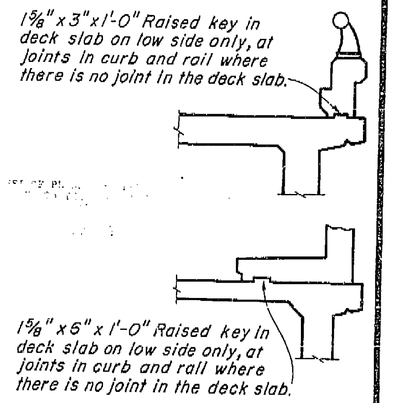
BENT CAP LONGITUDINAL CONSTRUCTION DIAPHRAGMS
DETAIL J-4





DECK SLAB
LONGITUDINAL CONSTRUCTION JOINTS

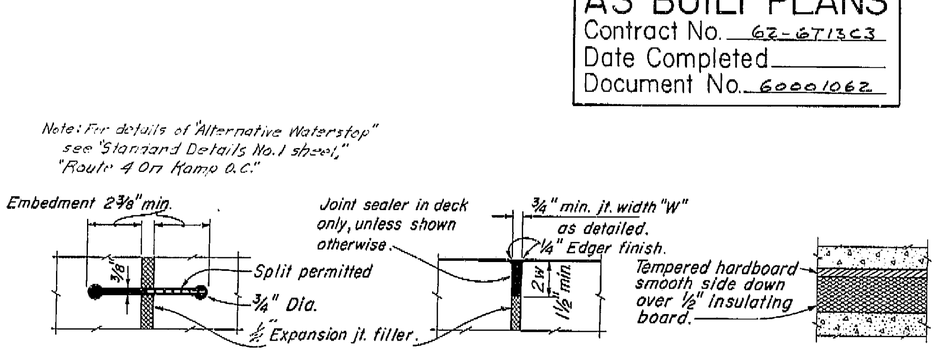
Note: Longitudinal construction joints in slab, if required, are to be located at edge of traffic lanes except as approved by the Engineer.



CURB AND SIDEWALK EXPANSION JOINT
DETAIL C-1

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

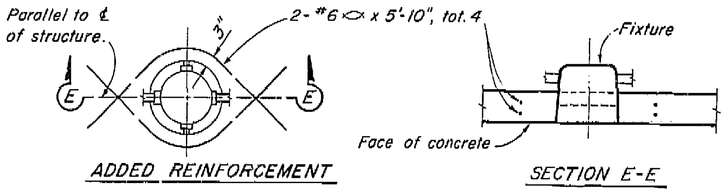
Note: For details of "Alternative Waterstop" see "Standard Details No. 1 sheet," "Route 4 On Ramp O.C."



RUBBER WATERSTOP
DETAIL W-1

SEALED EXPANSION JOINT
DETAIL L-1

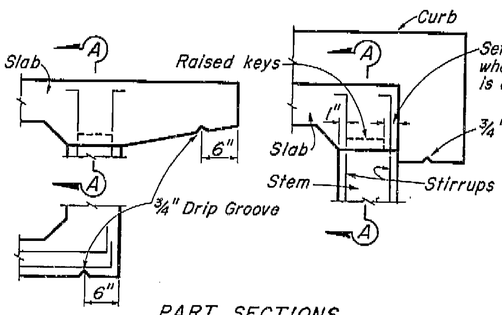
DETAIL M-1



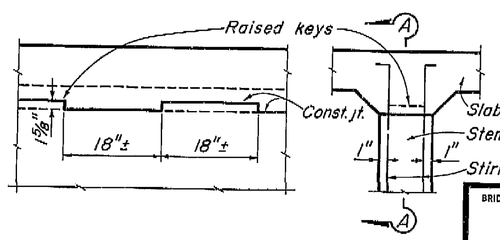
ADDED REINFORCEMENT

SECTION E-E

RECESSED SOFFIT LIGHT
DETAIL F-1

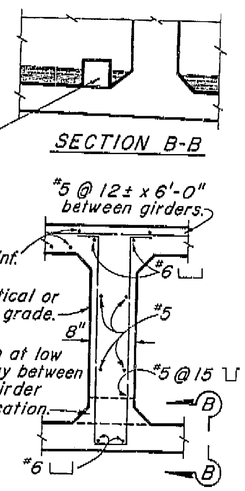


PART SECTIONS
EXTERIOR GIRDER WITH SLAB CANTILEVER
EXTERIOR GIRDER WITH CURB

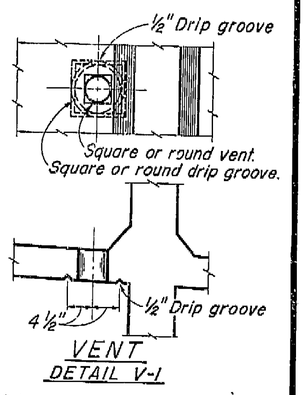


SECTION A-A
PART SECTION INTERIOR GIRDER

KEY-GIRDER STEM TO SLAB
DETAIL J-5



INTERMEDIATE DIAPHRAGM SECTION
DETAIL D-1



VENT
DETAIL V-1

Note:
5" ϕ Vent in lower slab.

Min. of two vents per span in each bay between girders. One vent to be located at low point of span and other vent to be located at opposite end of span @ 1'-6" from face of Abutment or Bent. See "Girder Layout."

STANDARD DRAWING
Submitted: W. E. Farr
Approved: W. E. Farr
Approval Recommended by: [illegible]
Date Drawn: 1-1-60
Designed by: [illegible]
Detailed by: [illegible]
Checked by: [illegible]
Quantities by: [illegible]
Specifications by: [illegible]
Bridge Engineer: W. E. Farr
Civil Engineer: [illegible]
Bridge Engineer: [illegible]
Civil Engineer: [illegible]
Civil and Structural Engineer: [illegible]
License No. 6729

BRIDGE DEPARTMENT
DESIGN SECTION
Project Designer: [illegible]
Chief Designer: [illegible]

DESIGN	By N.C. Lorimer 7/60	Checked D. SHELTON 7/60	
DETAILS	By M. Camacho 7/60	Checked D. SHELTON 7/60	
QUANTITIES	By BOB SKIMIN 7/61	Checked D. SHELTON 5/61	
SPECIFICATIONS	By	Plans and Specs Compared	

Approval Recommended by: [illegible] Engineer of Design
Civil and Structural Engineer: [illegible] License No. 6729

9/60

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

COSMOS PLAYGROUND PEDESTRIAN O.C.

STANDARD DETAILS NO. 1 (BOX GIRDER)

SCALE NONE | BRIDGE 42-215 | XS-16-22 FILE | DRAWING C-42215-10

Disregard prints bearing earlier dates

PREL. DRAWING NO. P-42215-B 10/6/60 11/14/61 6/12

53 5

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DATE _____ SIGNATURE _____ TITLE _____

SCALE 1"= 50' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"= 20'
SCALE 1"= 10' or 1"= 100' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"= 40'

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FED. ROAD DIV. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			298	424

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
12	ORA	405			

To Accompany Plans Dated August 29, 1961

Bridge Engineer

Date Approved August 8, 1958

State Highway Engineer
Civil Engineer License No. 20864

wed 9-24-58
ied Note ◉

Location
ey. 9-30 58 B

Section Reinf.
oved. 10-21-58 JFB

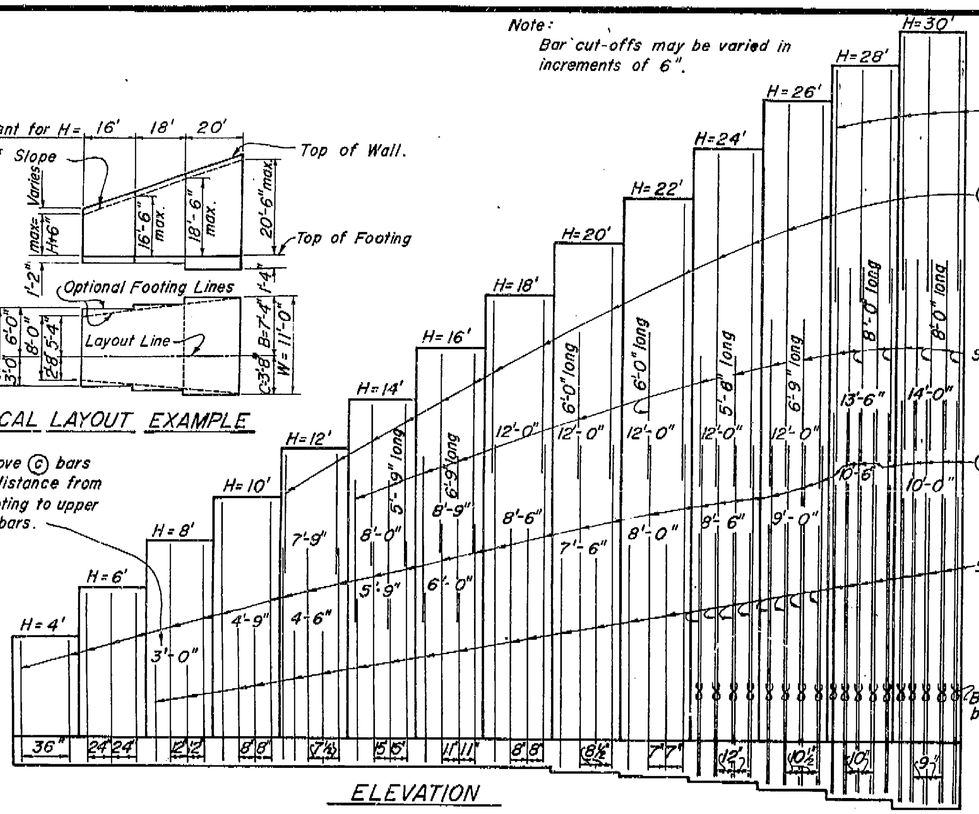
nged note at top
pread Ftg. Sec.
6-21-60
isions in table.
60 JTT

Note:
Bar cut-offs may be varied in increments of 6".

Use Reinforcement for H= 16' 18' 20'

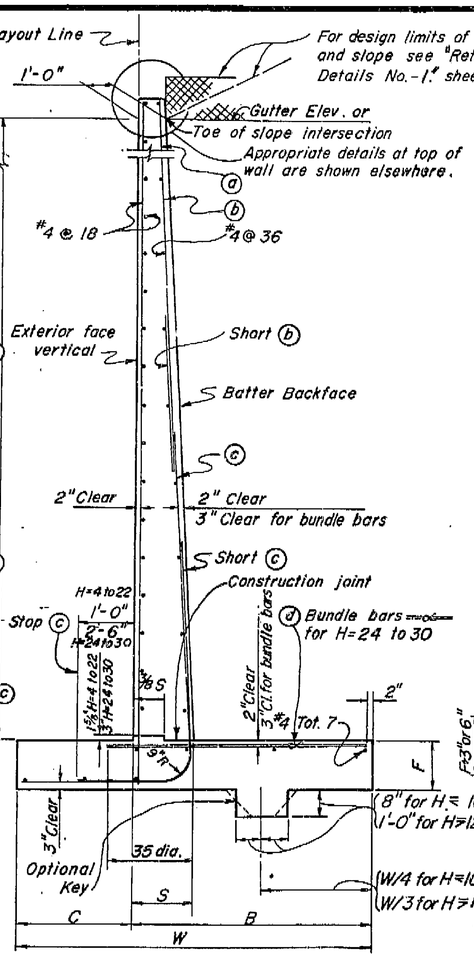
TYPICAL LAYOUT EXAMPLE

Number above (c) bars indicates distance from top of footing to upper end of (c) bars.

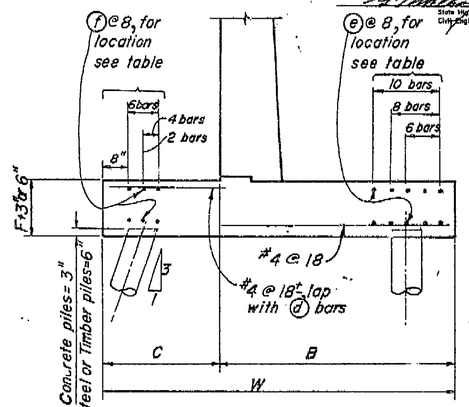


ELEVATION

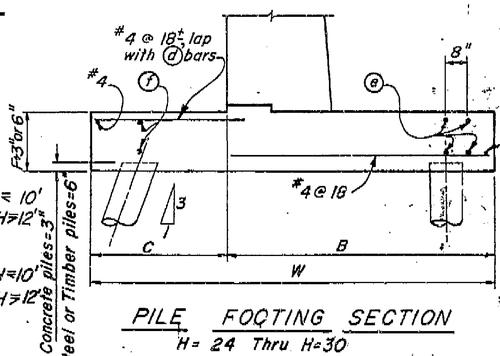
Note:
For design limits of surcharge and slope see "Retaining Wall Details No.-1" sheet



SPREAD FOOTING SECTION



PILE FOOTING SECTION
H=4 Thru H=22



PILE FOOTING SECTION
H=24 Thru H=30

Note:
For details not shown and drainage notes see "Retaining Wall Details No.1".

Note:
Reinforcement detailed is to be placed in addition to that shown for spread footing. All piles not shown, see Pile Layout on other sheets.

◉ For pile footing Design H=4' use same footing dimensions as Design H=6'

TABLE OF REINFORCING STEEL DIMENSIONS AND DATA

Design H		◉4'	6'	8'	10'	12'	14'	16'	18'	20'	22'	24'	26'	28'	30'
W		3'-2"	4'-2"	5'-2"	6'-2"	7'-2"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-3"	14'-3"	15'-3"	16'-3"
C		1'-0"	1'-4"	1'-8"	2'-0"	2'-4"	2'-8"	3'-0"	3'-4"	3'-8"	4'-0"	4'-5"	4'-9"	5'-1"	5'-5"
B		2'-2"	2'-10"	3'-6"	4'-2"	4'-10"	5'-4"	6'-0"	6'-8"	7'-4"	8'-0"	8'-10"	9'-6"	10'-2"	10'-10"
F Spread Ftg.		1'-2"	1'-2"	1'-2"	1'-2"	1'-2"	1'-2"	1'-2"	1'-2"	1'-4"	1'-6"	1'-8"	1'-11"	2'-2"	2'-4"
F+3" Conc. Pile		1'-5"	1'-5"	1'-5"	1'-5"	1'-5"	1'-5"	1'-5"	1'-5"	1'-7"	1'-9"	1'-11"	2'-2"	2'-5"	2'-7"
F+6" Stl. or Tmr. p.		1'-8"	1'-8"	1'-8"	1'-8"	1'-8"	1'-8"	1'-8"	1'-8"	1'-10"	2'-0"	2'-3"	2'-5"	2'-8"	2'-10"
S		1'-2"	1'-3"	1'-4"	1'-5"	1'-6"	1'-7"	1'-8"	1'-9"	1'-10"	1'-11"	2'-3"	2'-4½"	2'-9"	3'-2½"
Batter		½:12	½:12	½:12	½:12	½:12	½:12	½:12	½:12	½:12	½:12	⅝:12	⅝:12	⅝:12	⅞:12
Ⓐ bars														#7@20	#7@18
Ⓓ bars						#5@30	#5@15	#5@11	#6@24	#7@17	#7@14	#8@12	#8@10½	#9@10	#9@9
Ⓒ bars		#5@36	#5@24	#5@12	#5@8	#6@7½	#10@15	#10@11	#10@8	#11@8½	#11@7	#11@12cc	#11@10½cc	#11@10cc	#11@9cc
Ⓓ bars		#5@36	#5@24	#4@12	#4@8	#5@7½	#9@15	#9@11	#9@8	#10@8½	#10@7	#10@12cc	#10@10½cc	#9@10cc	#9@9cc
Total (e) bars		6-#6	6-#6	6-#6	10-#7	10-#7	10-#7	10-#7	8-#7	8-#7	8-#7	4-#7	4-#7	4-#7	4-#7
Total (f) bars					6-#7	6-#7	6-#7	6-#7	4-#7	4-#7	4-#7	2-#7	2-#7	2-#7	2-#7
H Comp. pounds		850	1440	2170	3050	4070	5240	6540	8000	9730	11630	13730	15950	18650	21145
V Comp. pounds		2020	3460	5230	7340	9760	12180	15260	18670	22690	27070	31750	36870	44560	50450
e feet		.50	.60	.79	.94	1.07	1.28	1.41	1.54	1.72	1.90	2.08	2.25	2.52	2.70
Toe Pressure P.S.F.		1240	1570	1930	2270	2640	2980	3290	3590	4000	4480	4640	5040	5810	6190
Spread	Steel lbs./ft.	14	20	28	39	56	84	108	169	206	259	328	393	429	484
Footing	Conc. CF/ft.	8.9	12.6	16.3	20.2	24.3	29.5	33.8	38.5	45.0	52.1	63.1	73.0	87.6	102.7
Conc.	Steel lbs./ft.	24	31	39	74	92	120	144	198	236	289	348	413	449	504
pile ftg.	Conc. CF/ft.	8.8	12.8	16.7	20.8	25.2	29.5	34.1	39.0	45.8	53.1	64.4	74.6	89.4	104.8

cc Denotes a bundle of 2 bars.

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" CONDITION AS NOTED IN LETTER OF SUBMITTAL OF RECORD DATED _____ AND APPROVED BY _____ DATE _____

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer: Sue Hunt
Chief Designer: Bill Quintrall

DESIGN	W. Quintrall 11/60	Checked	J. SHELTON 11/60
DETAILS	M. Camacho 11/60	Checked	J. SHELTON 11/60
QUANTITIES	308 Sht. 5/61	Checked	D. SHELTON 4/61
SPECIFICATIONS	W	Checked	

Approved Recommended by _____ Chief Bridge Engineer _____ Date Approved 8/15/61

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

9/60

COSTA MESA PLAYGROUND PEDESTRIAN O.C.

TYPE 1, CANTILEVER RETAINING WALL

SCALE	none	BRIDGE	42-215	XB 3-46 FILE	DRAWING	C-42215-5

PREL. DRAWING NO. P-42215-11 3/15

W-3

Disregard prints bearing earlier dates

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed _____
Document No. 60001062

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

ClibPDF - www.fastio.com

sion offset Values added. 9-58

sion: Optional e Key. 9-58 B

Mod'l note in Design nage Def. 7-59 JTJ

VI | Fre | 99

U-006-2(6)
F-006-2(5)

FED. ROAD DIV. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
7	CALIF.			299	424

To Accompany Plans Dated August 28, 1961

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS

Bridge Engineer — Civil Engineer — License No.

Date Approved August 8, 1958

State Highway Engineer
Civil Engineer License No 20864

WALL OFFSET VALUES

Vertical layout line

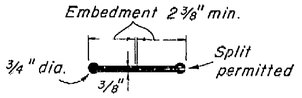
Offset as follows:

Stem as constructed

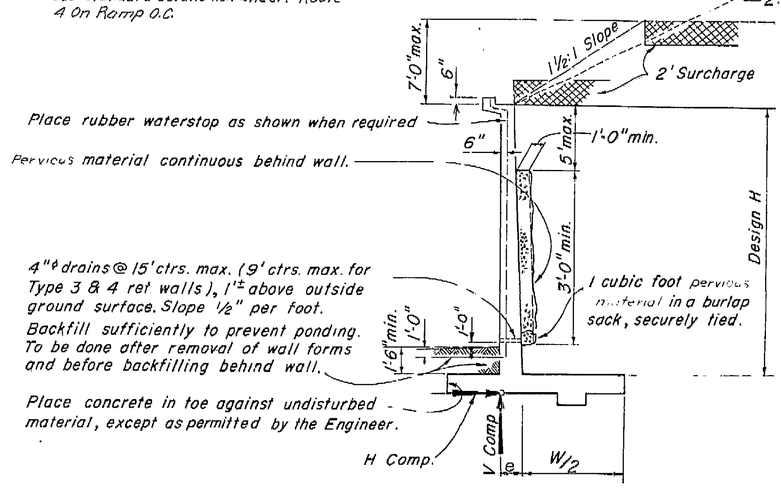
H 4 = 1/4" H 18 = 1 1/2"
H 6 = 3/8" H 20 = 1 3/4"
H 8 = 1/2" H 22 = 2"
H 10 = 5/8" H 24 = 2 1/4"
H 12 = 3/4" H 26 = 2 1/2"
H 14 = 1" H 28 = 2 1/2"
H 16 = 1 1/4" H 30 = 2 1/2"

RUBBER WATERSTOP

Use only when watertight joint is required

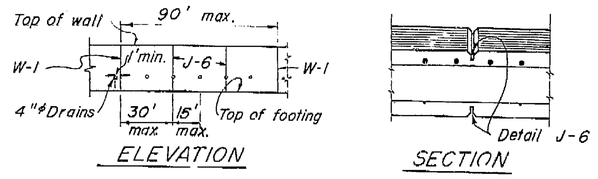


Note: For details of "Alternative Waterstop" see "Standard Details No. 1 sheet." Route 4 On Ramp O.C.



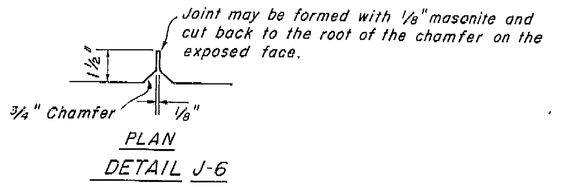
DESIGN AND DRAINAGE

Surcharge limits shown apply to Retaining walls Type 1 and 3.



ELEVATION

SECTION



PLAN
DETAIL J-6

Embedment 2 3/8" min.

#4

Rubber waterstop

PLAN OF WALL WITH DETAIL W-1

1/2" Expansion joint filler

#4

PLAN OF WALL WITH EXPANSION JOINT ONLY

1/2" Exp jt. if required

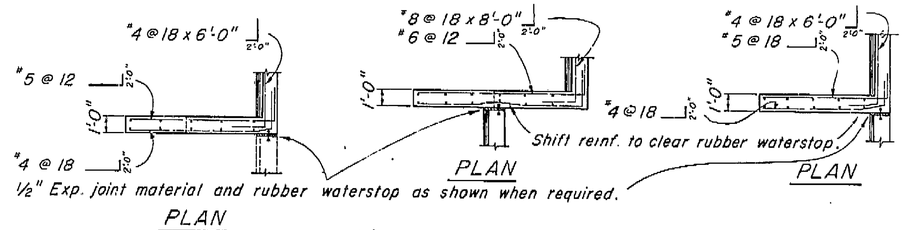
#4 @ 12

#4 @ 12 2'-0"

1'-0" H = 4' to 22'
1'-6" H = 24 to 30'

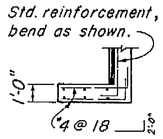
℄ Layout line

FOOTING STEP



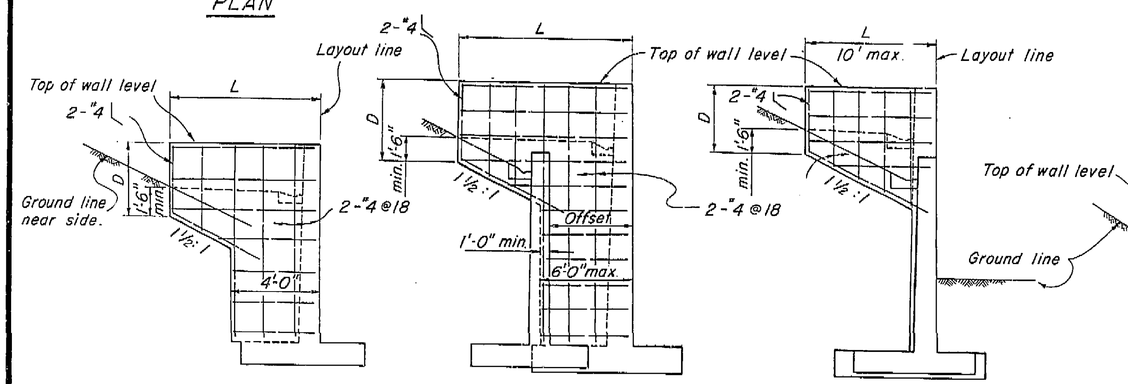
1/2" Exp. joint material and rubber waterstop as shown when required.

Std. reinforcement, bend as shown.



PLAN

AS BUILT PLANS
Contract No. 62-671363
Date Completed
Document No. 60001062



NOTES

Design Conditions:

Design H may be exceeded by 6" before going to the next size.
Footing key is required except when found unnecessary by the Engineer.
Special footing design is required where foundation material is incapable of supporting toe pressure loads listed in table.

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED _____, AS SUBMITTED BY RESIDENT ENGINEER _____ DATED _____

Design Data:

fc = 1200 psi f'c = 3000 psi fs = 20,000 psi n = 10 earth = 120 pcf

Equivalent fluid pressure = 36 pcf max. for determination of toe pressure.
27 pcf min. for determination of heel pressure.

BRIDGE DEPARTMENT — DESIGN SECTION			
Project Designer:			
Chief Designer: W.D. Jantzen			
DESIGN	By K.E. Larkin 7/61	Checked C. SWEDIN 8/61	
DETAILS	By M. Camacho 7/60	Checked D. SHELTON 7/60	
QUANTITIES	By Bob Skimin 7/61	Checked D. SHELTON 8/61	
SPECIFICATIONS	By	Plans and Specs. Compared	
Approval Recommended by: Project Engineer		Civil and Structural Engr. Examiner No.	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

10/59

COSMOS PLAYGROUND PEDESTRIAN O.C.

RETAINING WALL DETAILS NO. 1

SCALE None | BRIDGE 42-815 | XS 3-45 FILE | DRAWING C-42215-6

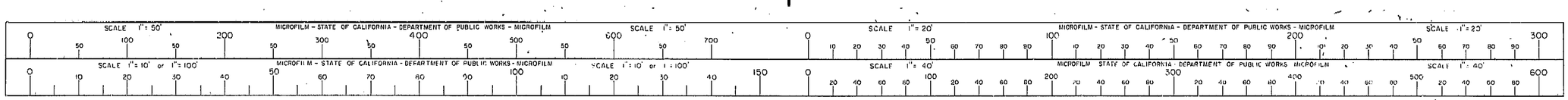
PREL. DRAWING No. P-42215-12 | 9/12

Disregard prints bearing earlier dates

W-1

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DATE _____ SIGNATURE _____ TITLE _____



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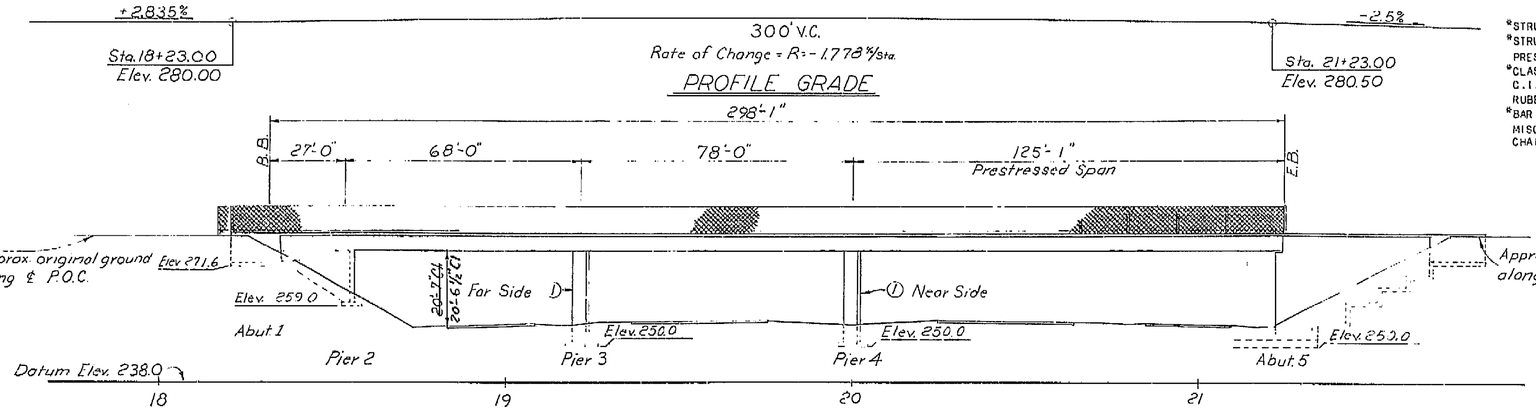
VI | Fre | 99 — U-006-2(6), F006-2(5)

FED. ROAD DIV. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			234	424

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	~~180~~ 99	~~R~~ F		15

P.M. 19.4

APPROVED: ASSISTANT STATE HIGHWAY ENGINEER — CIVIL ENGINEER LICENSE NO. 5760
August 28, 1961

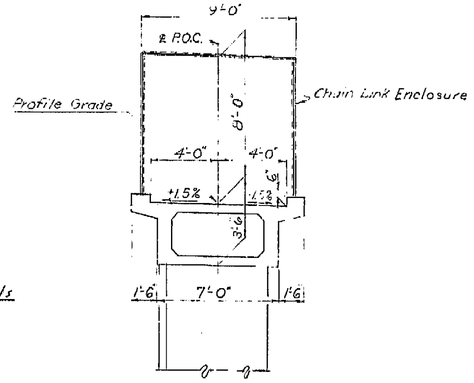


ELEVATION
1"=20'

APPROXIMATE QUANTITIES

*STRUCTURE EXCAVATION (BRIDGE)	450 C.Y.
*STRUCTURE BACKFILL (BRIDGE)	510 C.Y.
PRESTRESS C.I.P. CONCRETE	LUMP SUM
*CLASS "A" CONCRETE (BRIDGE)	315 C.Y.
C.I.P. PRESTRESSED CONCRETE	78 C.Y.
RUBBER WATERSTOPS	80 L.F.
*BAR REINFORCING STEEL (BRIDGE)	59,000 LBS.
MISCELLANEOUS METAL (BRIDGE)	900 LBS.
CHAIN LINK ENCLOSURE	312 L.F.

*FINAL QUANTITIES



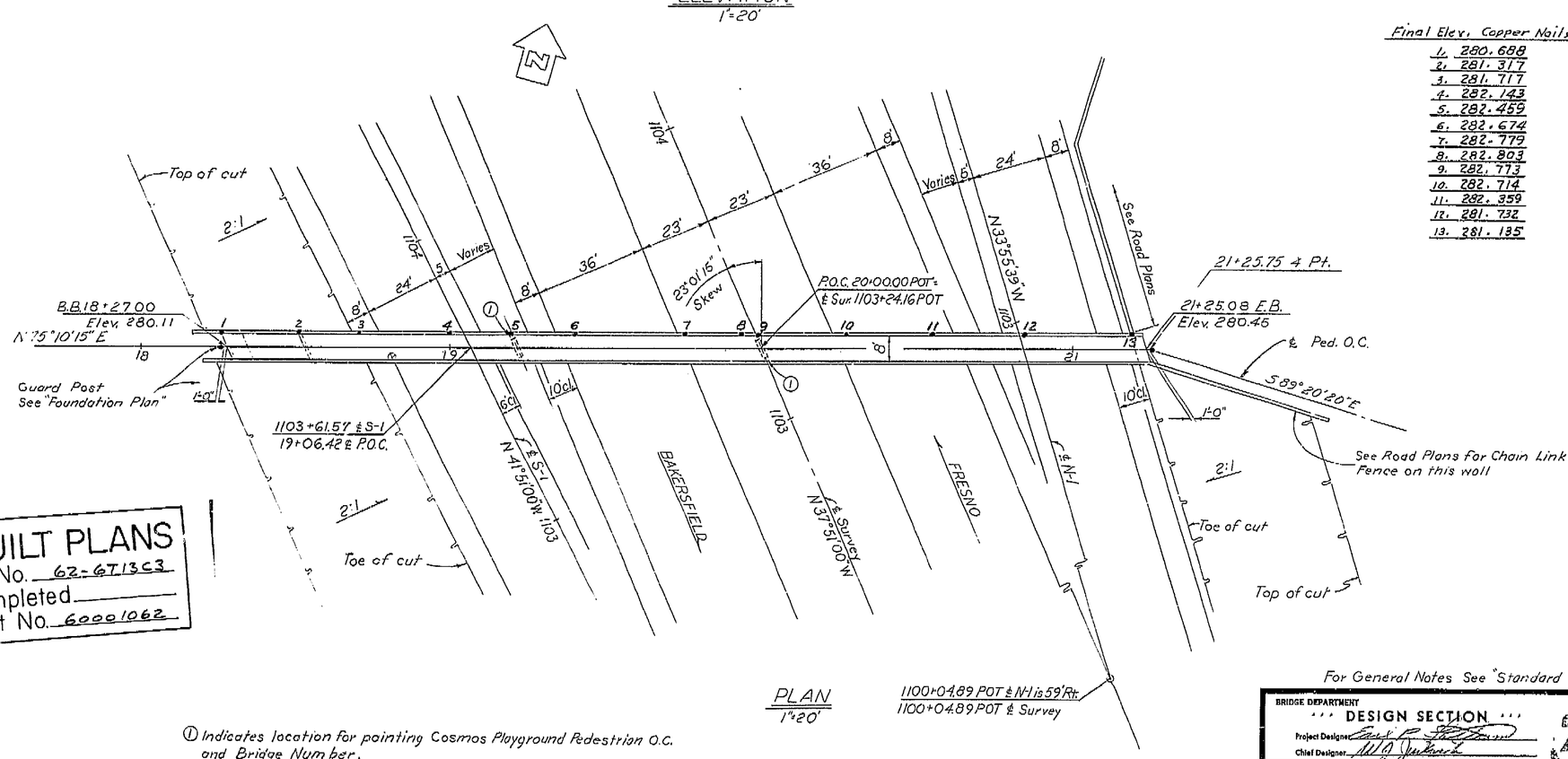
TYPICAL SECTION
¼"=1'-0"

Final Elev. Copper Nails

1.	280.688
2.	281.317
3.	281.717
4.	282.143
5.	282.459
6.	282.674
7.	282.779
8.	282.803
9.	282.773
10.	282.714
11.	282.359
12.	281.732
13.	281.135

INDEX TO PLANS

SHEET NO.	TITLE
1.	General Plan
2.	Foundation Plan
3.	Abutment 1 & Pier 2 Details
4.	Abutment 5 Details
5.	Type 1 Cantilever Retaining Wall
6.	Retaining Wall Details No 1
7	Pier 3 & 4 Details
8.	Typical Section & Girder Layout
9.	Girder Reinforcement
10.	Standard Details No. 1
11.	Standard Details No. 2
12.	Chain Link Enclosure
13.	Log of Test Borings
14	Electrical Data
15.	Pavement Lighting Details



PLAN
1"=20'

1100+04.89 POT ℄ N-1 is 59' Rt.
1100+04.89 POT ℄ Survey

LIVE LOADING-SIDEWALK

For General Notes See "Standard Details No. 2" sheet

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

① Indicates location for painting Cosmos Playground Pedestrian O.C. and Bridge Number.
℄ Indicates point of minimum vertical clearance

BRIDGE DEPARTMENT
DESIGN SECTION

Project Designer	Earl P. Stevens		
Chief Designer	M.A. Quadros		
DESIGN	by M.S. Lorenz 10/60	Checked	D. SHELTON 11/60
DETAILS	by M. Camacho 10/60	Checked	D. SHELTON 11/60
QUANTITIES	by Bob Skimin 9/61	Checked	D. SHELTON 9/61
SPECIFICATIONS	by Owen Fleagle 9/61	Plans and Specs. Compared	
Approval Recommended by		Chief and Structural Engineer of Bridge	Civil and Structural Engr. Limited No. 5760

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

COSMOS PLAYGROUND PEDESTRIAN O.C.
TO BE LOCATED IN THE CITY OF FRESNO

GENERAL PLAN

SCALE As Noted | BRIDGE 42-215 | FILE | DRAWING C-42215-1

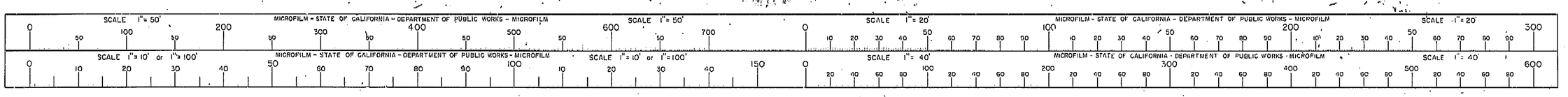
PREL. DRAWING No. P-42215-1

Disregard prints bearing earlier dates

Note: Route Change (VI-Fre-99)
Contract "62-6T13C3-F"

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DATE 1-12-62 SIGNATURE [illegible] TITLE [illegible]



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VI	Fre	99

U-006-2(6)
F-006-2(5)

FED. ROAD DIV. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.			306	424

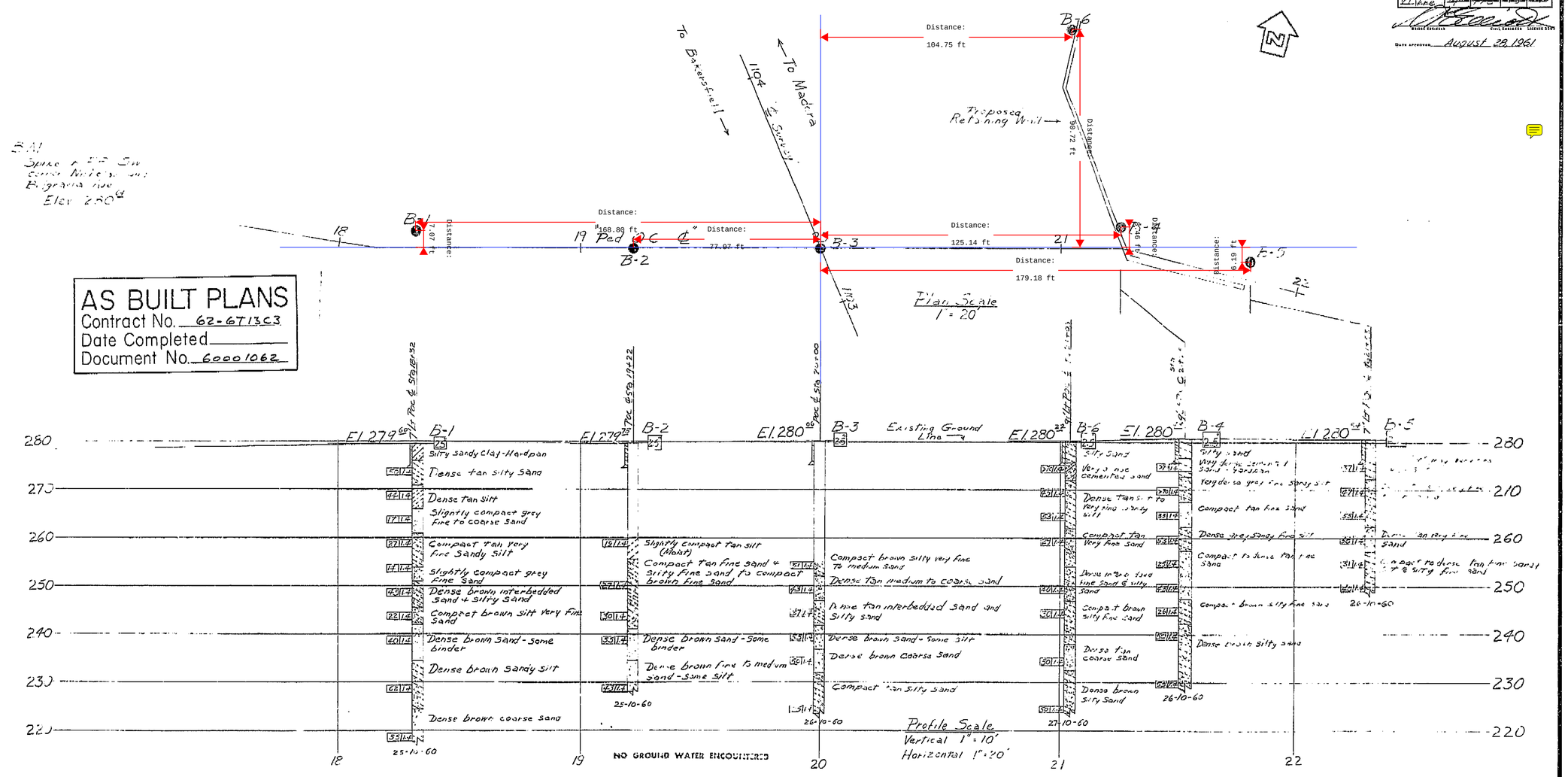
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	41	7.0/7.8	306	424

DISTRICT ENGINEER — CIVIL ENGINEER — SURVEYOR DATE

DATE APPROVED: August 28, 1961

BRIDGE DEPARTMENT

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062



FIELD STUDY	b. Shaw for	6-5-60
DRAWN	b. F. Ferrell	11-4-60
CHECKED	b. B. Sinclair	11-4-60
Approval Recommended by		Engineering Geologist
		Soils Engineer

306

CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS

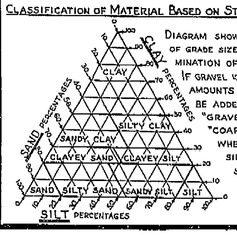


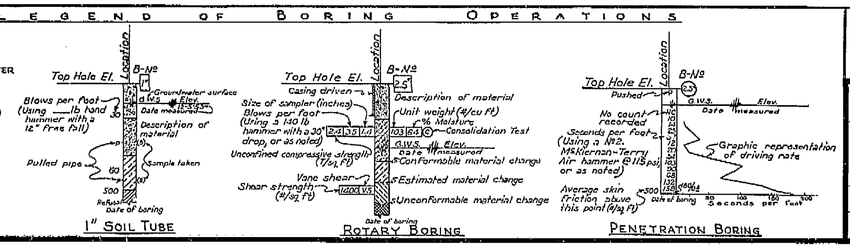
DIAGRAM SHOWING THE BASIS FOR ESTIMATES OF GRADE SIZE DISTRIBUTION USED IN DETERMINATION OF CLASS NAMES. IF GRAVEL IS PRESENT IN APPRECIABLE AMOUNTS THE TERM "GRAVELLY" MAY BE ADDED TO THE CLASS NAME, VIZ. "GRAVELLY SAND." THE TERMS "COARSE", "MEDIUM" AND "FINE" WHEN USED TO DESCRIBE SAND, SILT AND GRAVEL REFER TO STANDARD GRADE SIZE LIMITS.

LEGEND OF EARTH MATERIALS

- GRAVEL
- SAND
- SILT
- CLAY
- SANDY CLAY OR CLAYEY SAND
- SANDY SILT OR SILTY SAND
- SILTY CLAY OR CLAYEY SILT
- PEAT AND/OR ORGANIC MATTER
- FILL MATERIAL
- IGNEOUS ROCK
- SEDIMENTARY ROCK
- METAMORPHIC ROCK

LEGEND OF BORING OPERATIONS

- PLAN OF ANY BORING
- PENETROMETER
- 2½" CONE PENETROMETER
- SAMPLER BORING (DRY)
- ROTARY BORING (WET)
- AUGER BORING (DRY)
- JET BORING
- CORE BORING
- TEST PIT



NOTE

Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

COSMOS PLAYGROUND PEDESTRIAN O.C.

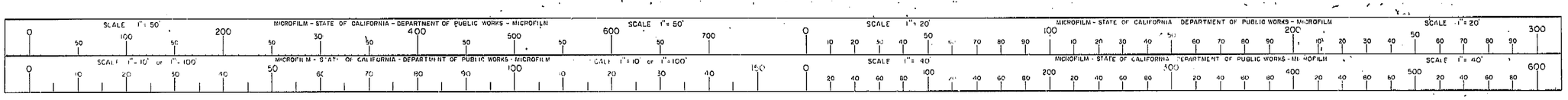
LOG OF TEST BORINGS

SCALE As shown	BRIDGE 42-215	FILE	DRAWING C-A2215-13

PA 7073-5 5sr

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____



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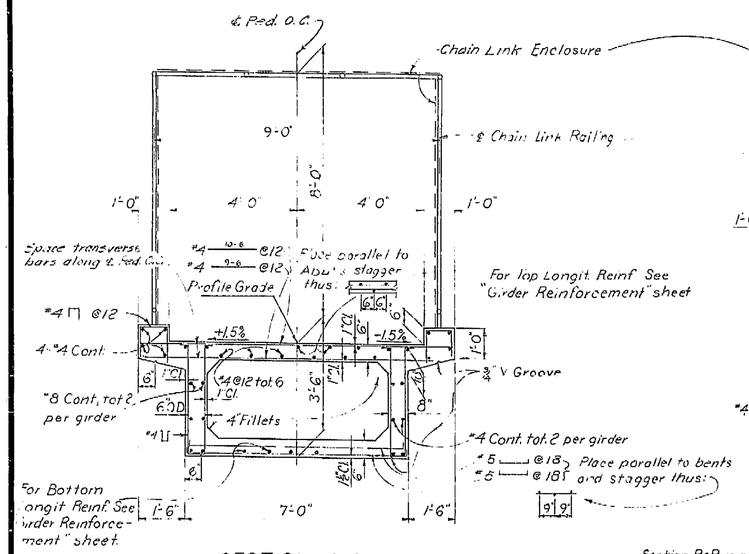
VI	Fre	99

U-006-2(6)
F-006-2(5)

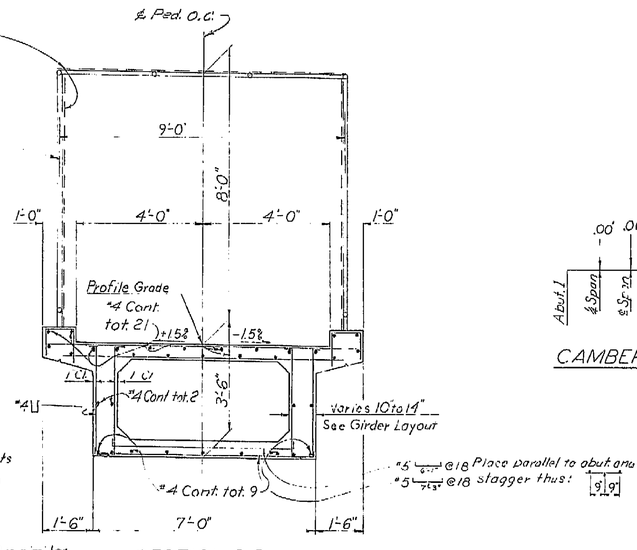
FED. ROAD SYS. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.		301	424

DIST.	COUNTY	ROUTE	POSTMILE	SHEET NO.	TOTAL SHEETS
VI	Fre				

August 28, 1961
DATE APPROVED

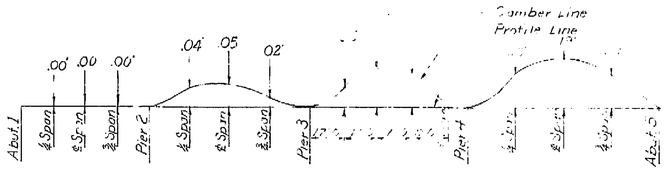


SECTION A-A
3/8"=1'-0"



SECTION B-B
3/8"=1'-0"
(At Prestressed Span)

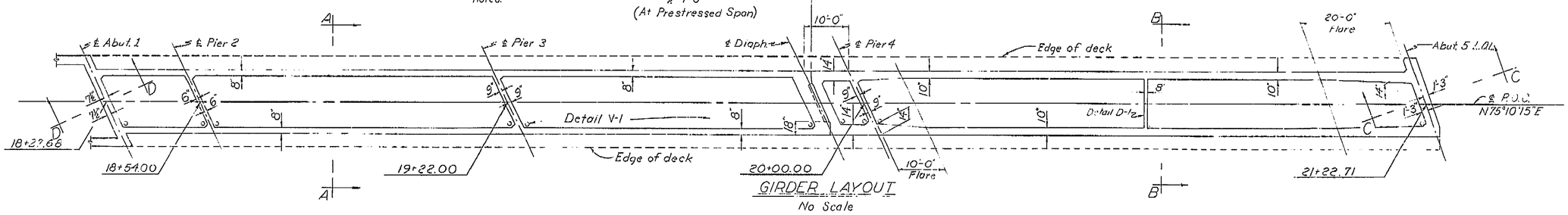
Section B-B is similar to Section A-A, except as noted.



CAMBER DIAGRAM FOR TOTAL GIRDER DEFLECTION DUE TO DEAD LOADS

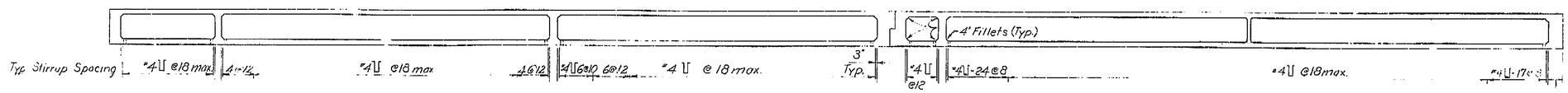
THE TOTAL DEFLECTION WILL BE REACHED ABOUT 4 YEARS AFTER FALSEWORK REMOVAL. FOR VALUES AT TIME OF FALSEWORK REMOVAL DIVIDE THOSE SHOWN BY 4.

THE AMOUNT OF CAMBER FOR CONSTRUCTION WILL BE DETERMINED BY THE ENGINEER.

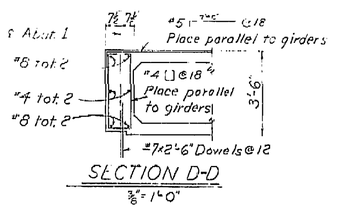


GIRDER LAYOUT
No Scale

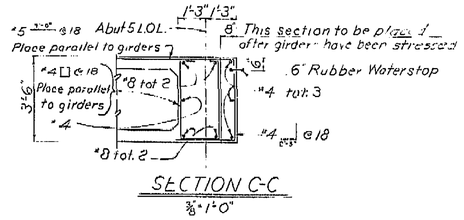
Prestressed Span



LONGITUDINAL SECTION
No Scale



SECTION D-D
3/8"=1'-0"



SECTION C-C
3/8"=1'-0"

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

BRIDGE DEPARTMENT		
DESIGN SECTION 2		
Section Supervisor M. J. Jenkins		
DESIGN	by M.E. Johnson	11/61
	Control D. SHELTON	11/61
DETAILS	by M. Camacho	10/60
	Control D. SHELTON	11/60
QUANTITIES	by BOB SKIMIN	3/61
	Control D. SHELTON	4/61

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

COSMOS PLAYGROUND PEDESTRIAN O.C.

TYPICAL SECTION & GIRDER LAYOUT

SCALE As Noted | BRIDGE 42-215 | FILE | DRAWING C-42215-8

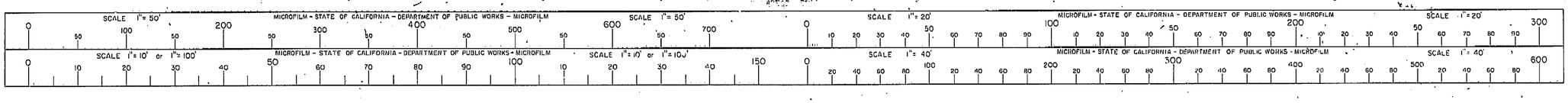
Disregard prints bearing earlier dates/numbers → PREL. DRAWING No. P-42215-6 | 8/61 | 12/61 | 1/62 | 3/15

30

53

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DATE 1-12-62 SIGNATURE [illegible] TITLE [illegible]



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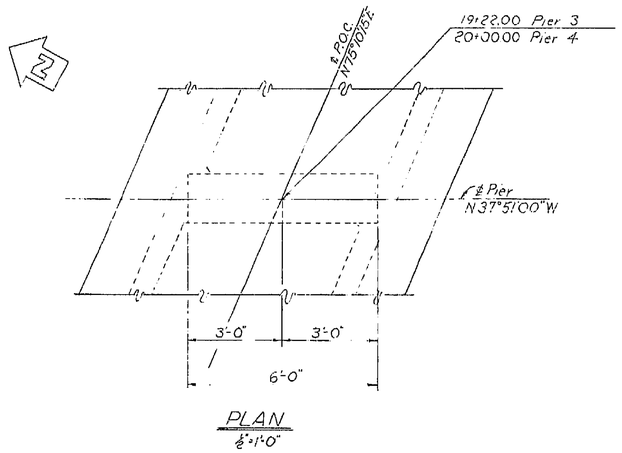
VI	Fre	99

U-006-2(6)
F-006-2(5)

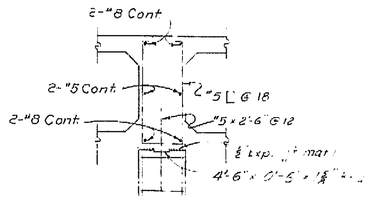
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7	CALIF.		300	424

DIST	COUNTY	ROUTE	SECTION	SHEET NO	TOTAL SHEETS
VI	Fre				

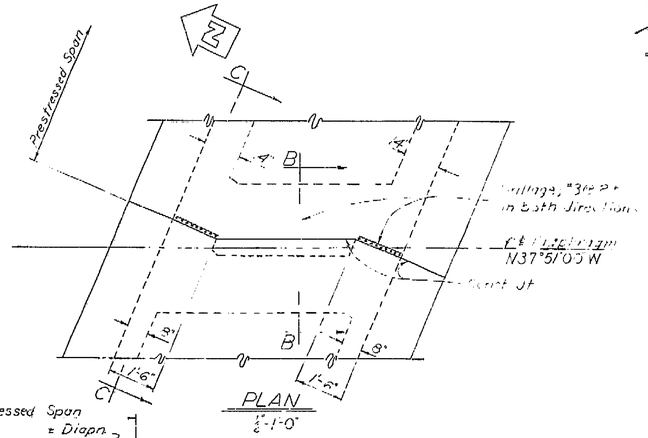
August 28, 1961
DATE APPROVED



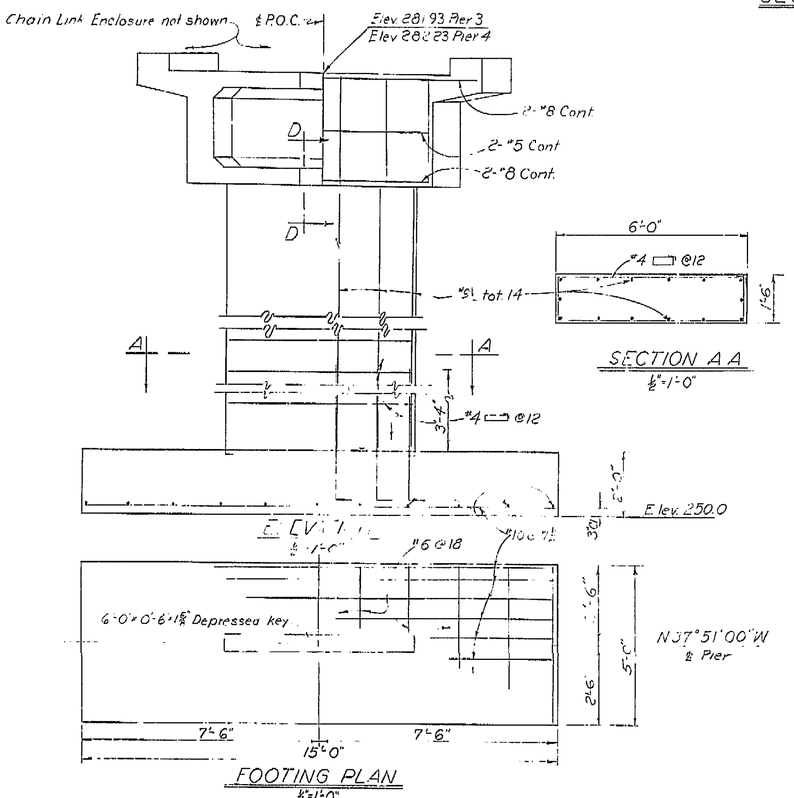
PLAN
3/8"=1'-0"



SECTION D-D
3/8"=1'-0"

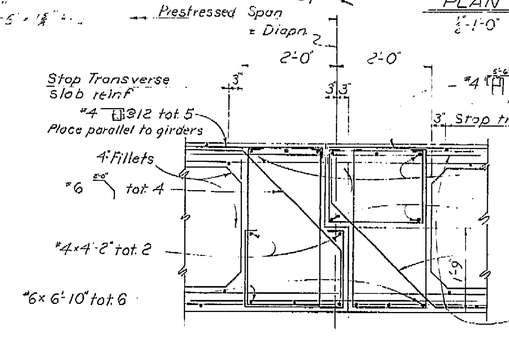


PLAN
1/4"=1'-0"

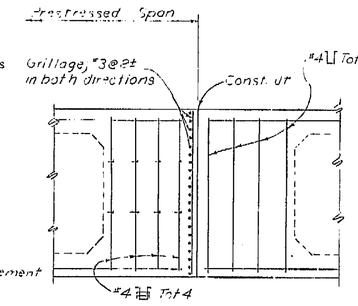


SECTION A-A
3/8"=1'-0"

FOOTING PLAN
3/8"=1'-0"



SECTION B-B
3/8"=1'-0"



SECTION C-C
3/8"=1'-0"

Note: Prestressing anchorages not indicated

SPAN 3 JOINT DETAILS

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

BRIDGE DEPARTMENT DESIGN SECTION 2		
Section Supervisor		
DESIGN	by K. Ishii	4/61
	Checked D. SHELTON	11/60
DETAILS	by M. Camacho	'60
	Checked D. SHELTON	11/60
QUANTITIES	by BOB SKIMIN	3/61
	Checked D. SHELTON	4/61

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

COSMOS PLAYGROUND PEDESTRIAN O.C.

PIER 3 & 4 DETAILS

SCALE As Noted	BRIDGE 42-215	FILE	DRAWING C-42215-7

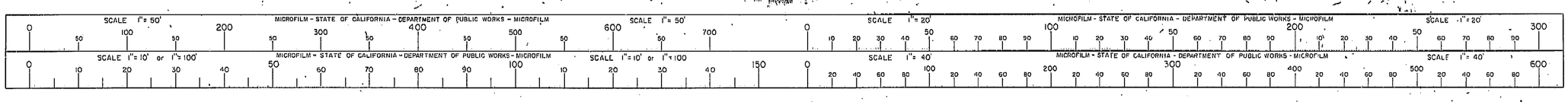
Disregard prints bearing earlier dates → PREL. DRAWING No. P-42215-5 | 7/26/60 | 10/24/60 | 1/23/61 | 3/15/61

300

532

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-12-73 SIGNATURE [illegible] TITLE [illegible]



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DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	99			

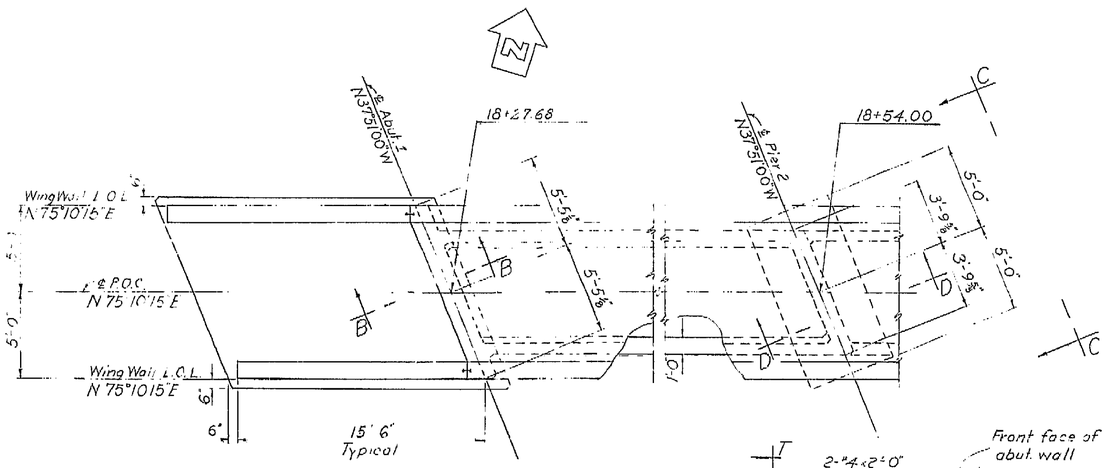
U-006-2(6)
F-006-2(5)

FED. ROAD DIV. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.		296	424

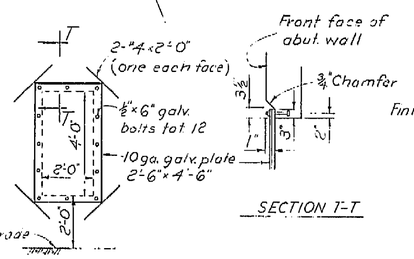
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	99			

Bridge Engineer — Civil Engineer—License 5585

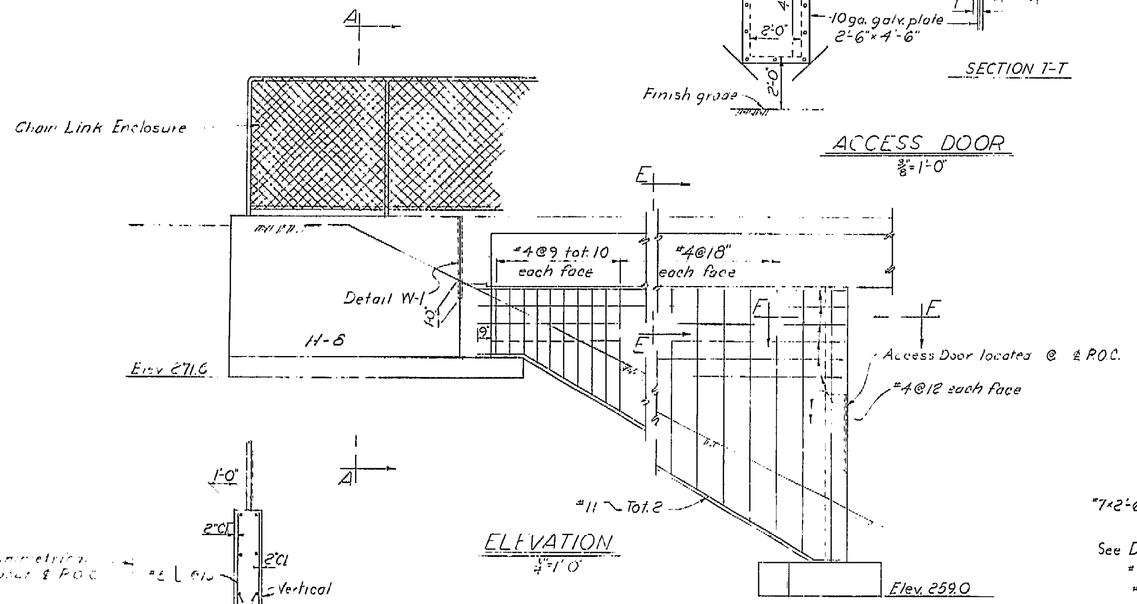
Date Approved... August 28, 1961



PLAN
¼"=1'-0"

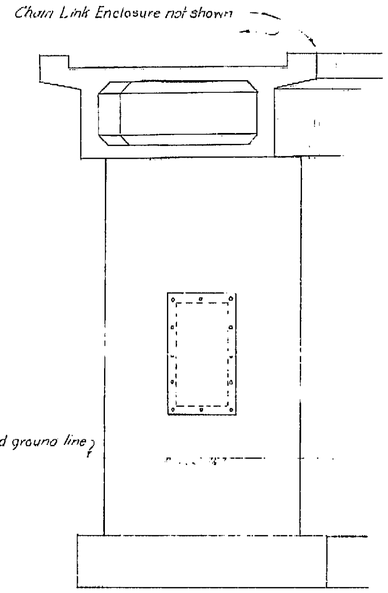


SECTION T-T

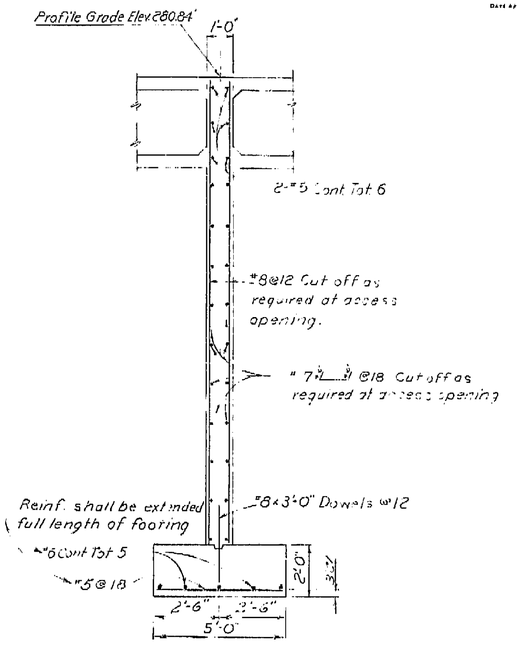


ACCESS DOOR
⅜"=1'-0"

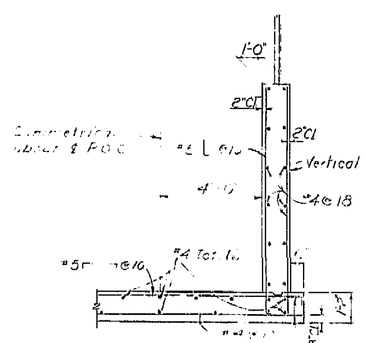
ELEVATION
¼"=1'-0"



ELEVATION C-C
⅜"=1'-0"

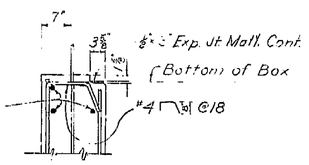


SECTION D-D
⅜"=1'-0"

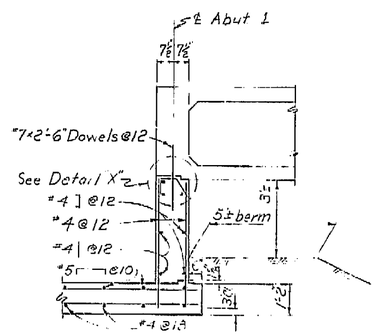


SECTION A-A
⅜"=1'-0"

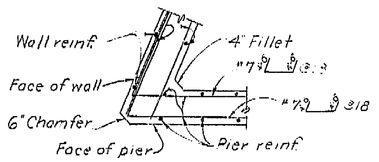
Place transverse slab bars parallel to ℄ Abutment #1 and space along ℄ P.O.C.



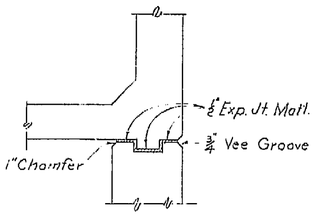
DETAIL "X"
¾"=1'-0"



SECTION B-B
⅜"=1'-0"



SECTION F-F
℄"=1'-0"



SECTION E-E
1"=1'-0"

BRIDGE DEPARTMENT
DESIGN SECTION 2
Section Supervisor W. Wenstrom

DESIGN	By NE A. Nair	11/60
	Checked D. SHELTON	11/60
DETAILS	By M. Camacho	10/60
	Checked D. SHELTON	11/60
QUANTITIES	By Bob Skimin	2/61
	Checked D. SHELTON	4/61

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

COSMOS PLAYGROUND PEDESTRIAN O.C.

ABUTMENT 1 & PIER 2 DETAILS

SCALE As Noted | BRIDGE 42-215 | FILE | DRAWING C-42215-3

Disregard prints bearing earlier numbers → dates

PREL. DRAWING No. P-42215-3 | 5/61 | 7/61 | 9/61 | 11/61 | 1/62 | 3/62 | 5/62

5-2 f

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

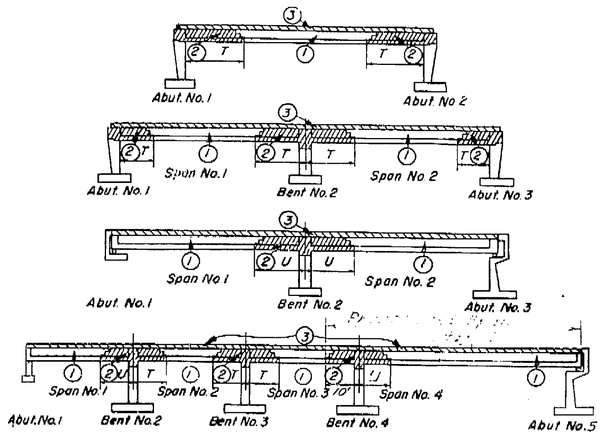
DATE 1-12-62 SIGNATURE ... TITLE ...

96

SCALE 1"= 50' MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM SCALE 1"= 20'

SCALE 1"= 10' or 1"= 100' MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM SCALE 1"= 40'

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BOX GIRDER SUPERSTRUCTURE PLACING DIAGRAM

Numbers (1) and (2) indicate sequence of placing bottom slab and girder stem concrete. (2) may be placed simultaneously with (1) when approved by the Engineer, and provided that the (1) sections are placed in adjoining spans.

Top slab concrete (3) shall be placed separately from (1) and (2). (3) may be placed continuously or in parts as approved by the Engineer, however the only joints permitted shall be located within 2'-0" of the girder joints between (1) and (2).

$T = \frac{1}{3}$ span length

$U = \frac{1}{4}$ span length

For any deviation from the above the contractor shall submit a diagram to the Engineer.

GENERAL NOTES

Specifications:

Design: A.A.S.H.O. dated 1957 with revisions and as supplemented by Bridge Planning and Design Manual.

Construction: Standard Specifications, Division of Highways, dated January 1960 and the Special Provisions.

Live Loading: [illegible]

Unit Stresses.

Reinforced Concrete:

$f_s = 20{,}000$ p.s.i.

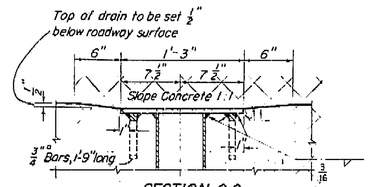
$n = 10$

$f_c = 1{,}200$ p.s.i.

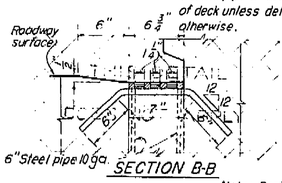
Footing Pressure: [illegible]

Abut 1 = [illegible] tons p.s.f.
Pier 2 = [illegible] tons p.s.f.
Pier 3 = [illegible] tons p.s.f.
Pier 4 = 35 tons p.s.f.
Abut 5 = 31 tons p.s.f.

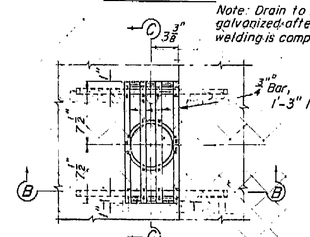
AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062



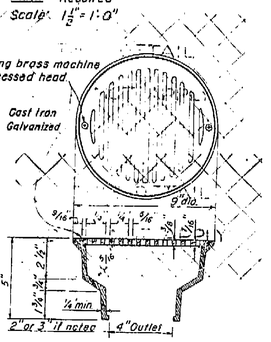
SECTION C-C



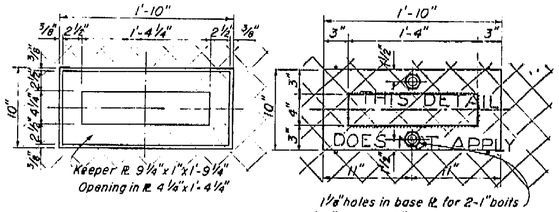
SECTION B-B



DRAIN DETAIL TYPE "A"
Required
Scale 1½" = 1'-0"

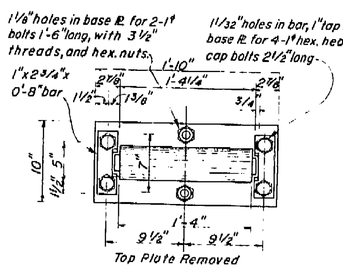


AREA DRAIN
Required

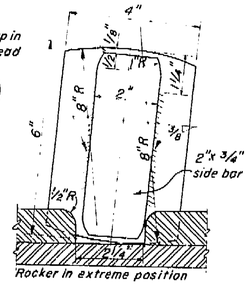


TOP PLATE

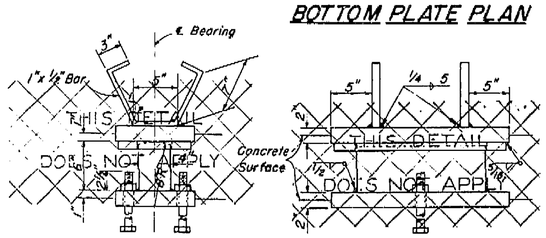
BOTTOM PLATE PLAN



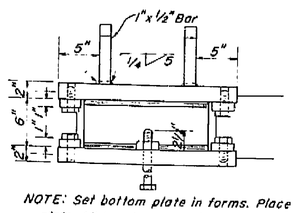
BOTTOM PLATE PLAN



END VIEW OF ROCKER
Scale 6"=1'-0"

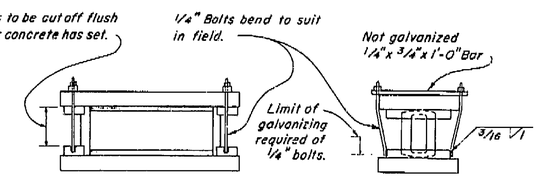


10"x22" FIXED BEARING ASSEMBLY
Required Scale 1½"=1'-0"



NOTE: Set bottom plate in forms. Place concrete directly against bottom plate. All bearing assemblies to be galvanized after fabrication.

10"x22" EXPANSION BEARING ASSEMBLY
2 Required Scale 1½"=1'-0"



DETAIL OF ERECTION BOLTS
Scale 1½"=1'-0"

BRIDGE DEPARTMENT
DESIGN SECTION

Project Designer [illegible]
Chief Designer [illegible]

DESIGN	by [illegible]	checked D. SKELTON 7/60
DETAILS	by M. Camacho 7/60	checked D. SKELTON 7/60
QUANTITIES	by Bob Skimin 8/61	checked D. SKELTON 8/61
SPECIFICATIONS	by	Plans and Issue Completed

Approval Recommended by [illegible] Date and Approval 8/28/61

9/60

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

COSTA [illegible] GRADE PEDESTRIAN O.C.

STANDARD DETAILS NO. 2 (BOX GIRDER)

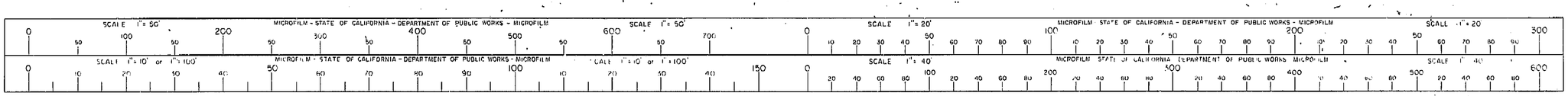
SCALE As Noted | BRIDGE 42-215 | FILE XS-16-40 | DRAWING C. 42215-11

PREL. DRAWING NO P-42215-9 | 7/61 | 12/61 | 3/15

Disregard prints bearing earlier date

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____



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VI | Fre | 99

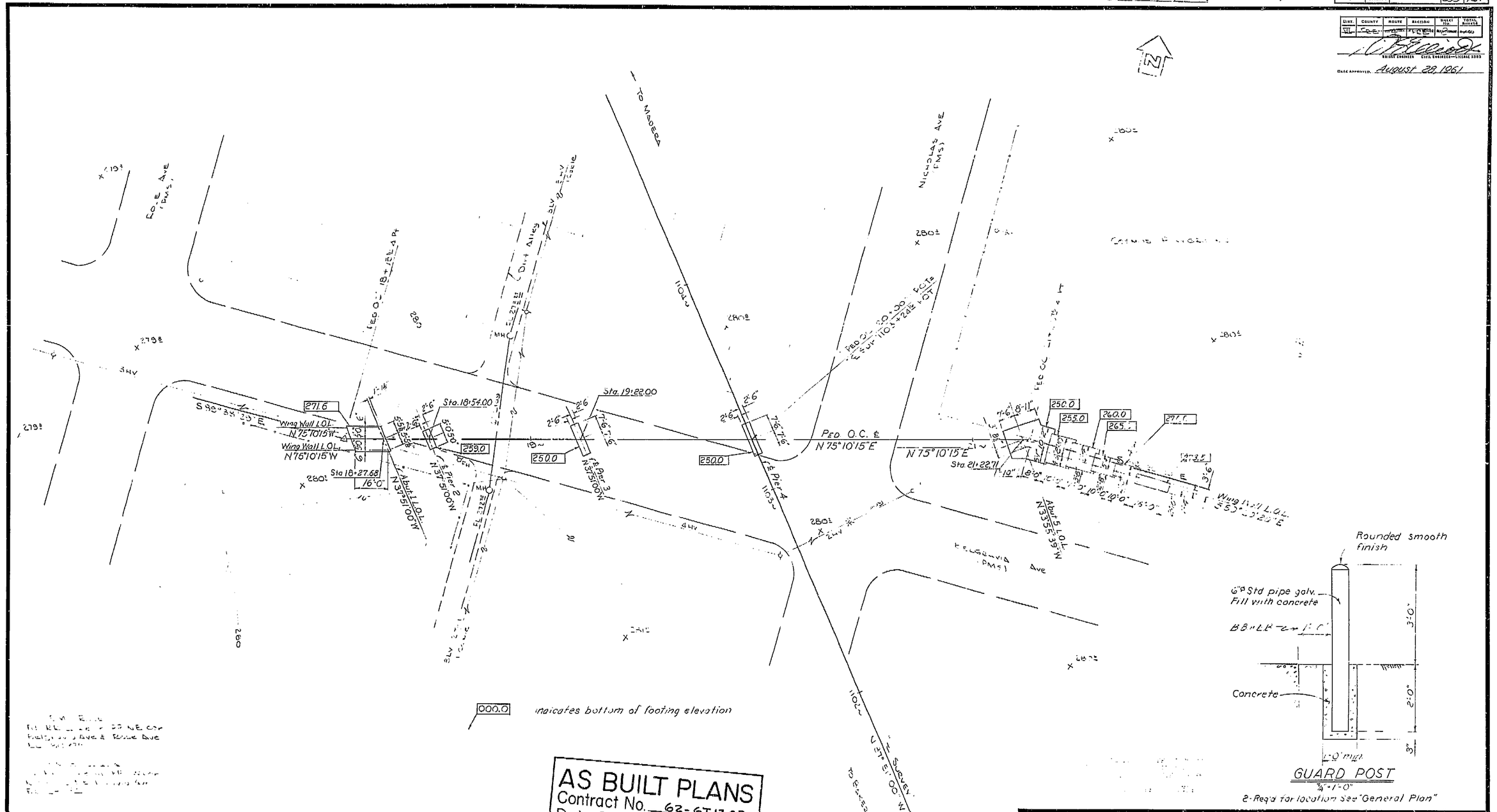
U-006-2(6)
F-006-2(5)

FED. ROAD DIV. NO	STATE	F. A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.		295	424

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	Fre	99		295	424

BRIDGE ENGINEER — CIVIL ENGINEER—LICENSE 5303

DATE APPROVED: AUGUST 28, 1961



000.0 indicates bottom of footing elevation

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

LEVEL DATUM: USC&GS
FOR ALINEMENT TIES SEE BR. 1073-2
CONTOURS AS OF B-60
SITE PLAN FROM DISTRICT DATA.
SURVEY BY [illegible] DATE [illegible]
DRAWN BY JS DATE 8-60
TRACED BY JS DATE 8-16-60

295

BRIDGE DEPARTMENT
DESIGN SECTION
Section Supervisor W. J. Gerdtzen

DESIGN	By [illegible]	
	Checked D. HELTON 11/60	
DETAILS	By M. Camacho 11/60	
	Checked D. SHELTON 11/60	
QUANTITIES	By BOB SKIMIN 3/61	
	Checked D. SHELTON 3/61	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

COSMOS PLAYGROUND PEDESTRIAN O.C.

FOUNDATION PLAN

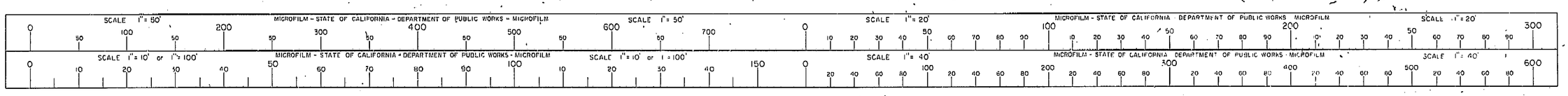
SCALE 1" = 20' | BRIDGE 42-215 | FILE 5-42 | DRAWING C-42215-2

PREL. DRAWING NO. P-42215-2 11/60 12/60 1/61 3/61 7/10

PE 7073-4 527

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-13-72 SIGNATURE Thomas E. Coat TITLE SR RMC



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VI	Fre	99

U-006-2(6)
F-006-2(6)

FED. ROAD DIV. NO	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.		297	424

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	99			

BRIDGE ENGINEER — CIVIL ENGINEER — LICENSE 5585
DATE APPROVED: August 28, 1961

10"x22 Exp. Brg. Assemblies See Sheet "7 for details

1¼" Exp. Jt. Mat'l.

Grillage see Girder Reinforcement

℄ P.O.C.

Abut 5 L.O.L.

PLAN
(Bearing Layout)
⅜"=1'-0"

See Road Plans

21+22.71

℄ P.O.C. N75°10'15"E

Abut 5 L.O.L. N33°55'39"W

PLAN
¾"=1'-0"

DETAIL - E
½"=1'-0"

6 Rubber Waterstop

#4 tot 4 (Not to extend into footing)

This backwall to be placed after girders have been prestressed

DETAIL - Z
½"=1'-0"

℄ Bearing Abut 5 L.O.L.

Const. Jt.

Battered 3¾:12

Optional Key - "5x8'-0" @14

See "Top Footing Plan"

SECTION B-B
¼"=1'-0"

See Road Plans

Chain Link Enclosure not shown

Note: For location of bearing elevations see Standard Details No. 2

Post holes @ 8'± c.c. for Fencing See Road Plans

Detail W-1

Detail J-6

Level

Elev. 280.85

Elev. 276.45

Elev. 276.37

Abut. reinf.

2½" Exp. Jt. Mat'l.

℄ Abut. L.O.L.

4" ø Drains

Elev. 270.0

Elev. 265.0

Elev. 260.0

Elev. 255.0

Elev. 250.0

SECTION F-F
⅜"=1'-0"

ELEVATION A-A
⅜"=1'-0"

ELEVATION
⅜"=1'-0"

Abut. L.O.L.

Abut reinf.

"4 tot 6 (Not to be extended into footing)

SECTION G-G
⅜"=1'-0"

Wing Wall L.O.L.

Wall reinf. Vertical

see Detail K

SECTION C-C
½"=1'-0"

Wing Wall L.O.L.

Wall reinf. Vertical

SECTION D-D
½"=1'-0"

DETAIL K
1"=1'-0"

Wing Wall L.O.L.

"4 @ 36 Top

#9x15'-10"@14 Top

#5x7'-0"@12 - Tot 9 Top

#8x7'-0"@12 - Tot 9 Bot

#8 x 12 Top & Bot. Tot. 7 e.a.

For reinf. See Type 1 Cantilever Retaining Wall Sheet

FOOTING PLAN
⅜"=1'-0"

AS BUILT PLANS
Contract No. 62-671303
Date Completed
Document No. 60001062

Note: Detail K for Retaining Walls only. See Section A-A "Chain Link Enclosure" sheet for Chain Link Enclosure.

BRIDGE DEPARTMENT
DESIGN SECTION 2
Section Supervisor W. J. Leonhardt

DESIGN	by M.E.C.	11/60
	Checked D. SHELTON	11/60
DETAILS	by M. Camacho	11/60
	Checked D. SHELTON	11/60
QUANTITIES	by BOB SKIMIN	2/61
	Checked D. SHELTON	2/61

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

COSMOS PLAYGROUND PEDESTRIAN O.C.

ABUTMENT 5 DETAILS

SCALE As Noted | BRIDGE 42-215 | FILE | DRAWING C-42215-4

Disregard prints bearing earlier numbers dated

PREL. DRAWING NO. P-42215-4 1/61 2/61 11/61 2/61 3/61

297

529

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-11-62 SIGNATURE [illegible] TITLE [illegible]

SCALE 1"= 50' — MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM — SCALE 1"= 20'

SCALE 1"= 10' or 1"= 100' — MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM — SCALE 1"= 40'

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California Department of Transportation
Division of Maintenance

Structure Maintenance and Investigations

BRIDGE

INSPECTION

RECORDS

INFORMATION

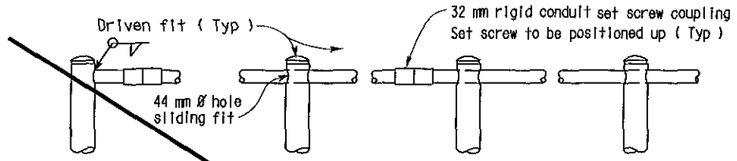
SYSTEM

The requested documents have been generated by BIRIS.

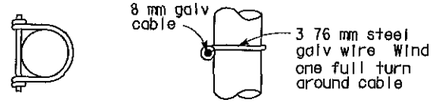
These documents are the property of the California Department of Transportation and should be handled in accordance with Deputy Directive 55 and the State Administrative Manual.

Records for “Confidential” bridges may only be released outside the Department of Transportation upon execution of a confidentiality agreement.

RELEASED 6-9-98



END POST **INTERMEDIATE POSTS**



PLAN **ELEVATION**

DETAIL H

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
06	Fre	99	23 3/50 7	133	133

10-3-00
REGISTERED ENGINEER - CIVIL

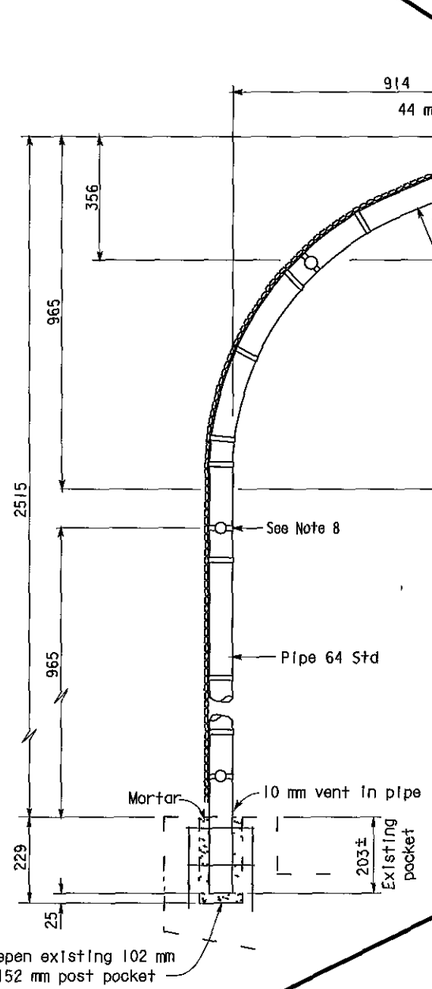
11-13-00
PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

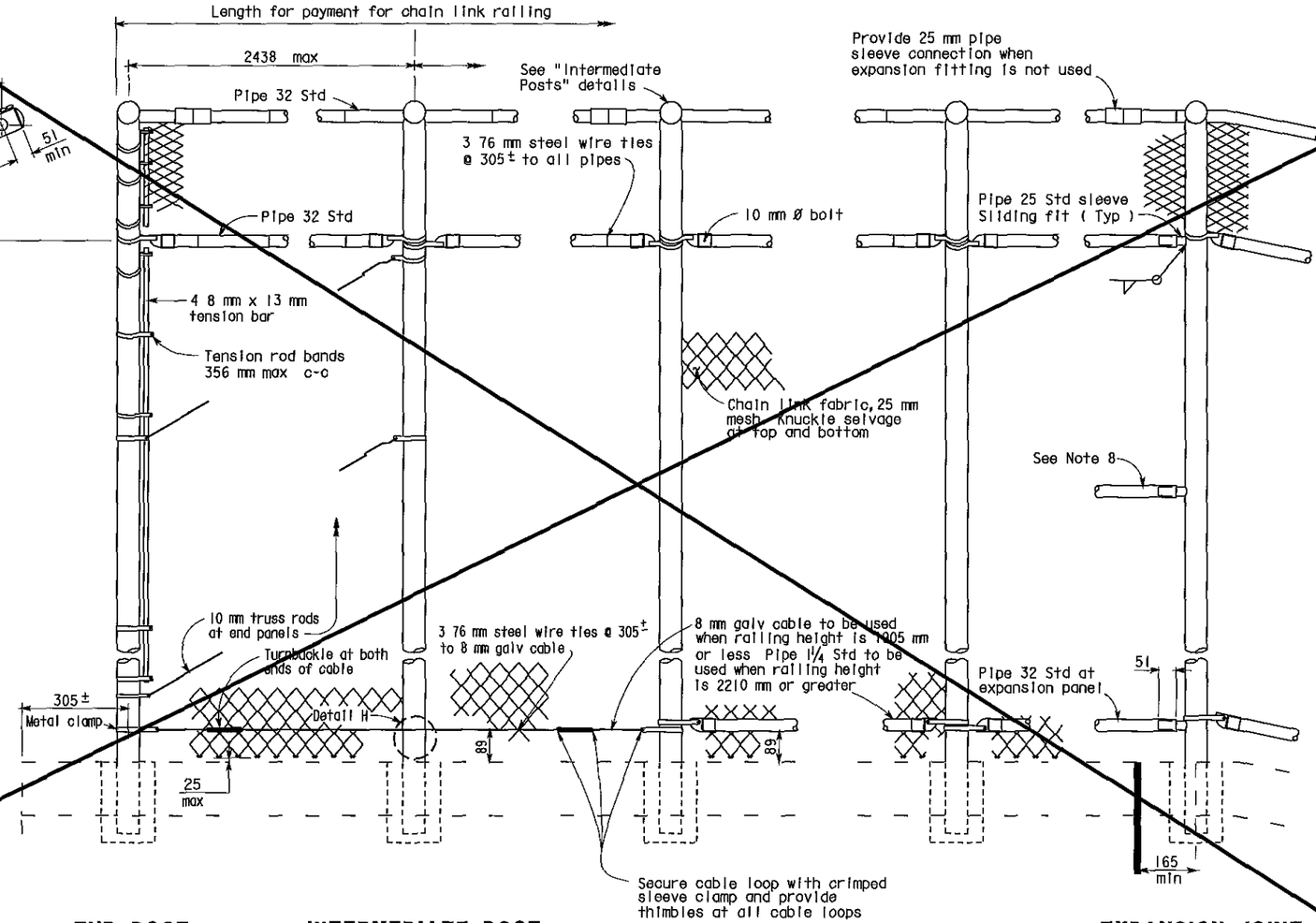
REGISTERED PROFESSIONAL ENGINEER
DIOSDADO ACOBA
No 52003
Exp 12 31 02
CIVIL
STATE OF CALIFORNIA

NOTES:

1 Railing assembly except chain link fabric to be galvanized after fabrication
2 Railing shall conform to horizontal and vertical alignment Posts shall be vertical Horizontal pipes shall be bent if radius is 45 72 m or less may be on 2 438 m chords If radius is over 45 72 m
3 Peen all 10 mm Ø bolts
4 When railing is on slope fabric shall parallel to slope
5 Alternative details may be submitted by Contractor for Engineer's approval
6 Additional pipe 32 std required on radius less than 45 72 m



TYPICAL POST DETAIL



END POST **INTERMEDIATE POST** **EXPANSION JOINT**

ELEVATION

Sheet Deleted

No Type 3 Modified Railing was used on this contract

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

SPECIAL DETAIL

NO SCALE
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

STANDARD DRAWING				
FILE NO XS 9 81	DESIGN BY R W BISHOP	CHECKED J HAMAGUCHI	APPROVAL RECOMMENDED BY	
DRAWING DATE Revised	DETAILS BY R YEE	CHECKED J HAMAGUCHI		
	SUBMITTED BY R W BISHOP		DESIGN SUPERVISOR	

DS OSD 2147A (METRIC) (REV 2/25/97)

1 Revised sheet - removed handrailing and electrical details and notes

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

CU 06105
EA 452001

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
CHAIN LINK RAILING TYPE 3 MOD 1

DISREGARD PRINTS BEARING EARLIER REVISION DATES
REVISION DATES (PRELIMINARY STAGE ONLY) 5/30/00 7/17/00 9/28/00 10/3/00

SHEET 11 OF 11

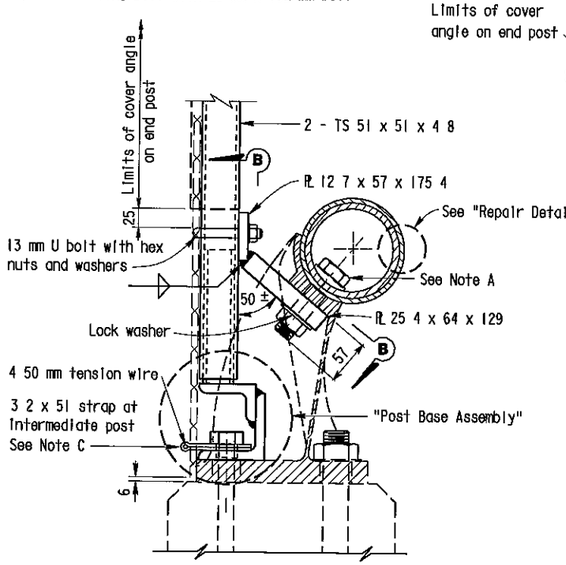
USERNAME > mgarlson
x5981 dgn
XS981 DGN

DATE PLOTTED > 03-JAN-2003 TIME PLOTTED > 13 32

ClibPDF - www.fastio.com

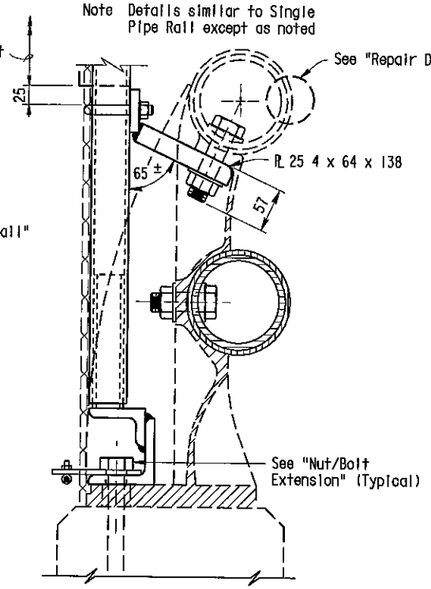
Note A

Replace existing bolt with 25 mm x 102 mm bolt



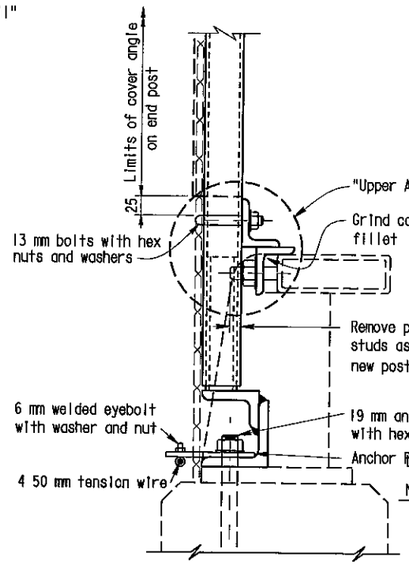
SECTION A-A (SINGLE PIPE RAIL)

Note Details similar to Single Pipe Rail except as noted



SECTION A-A (DOUBLE PIPE RAIL)

Note Details for Type 9 and Type 11 Metal Railing are similar, Type 11 not shown



SECTION A-A (TUBE RAIL)

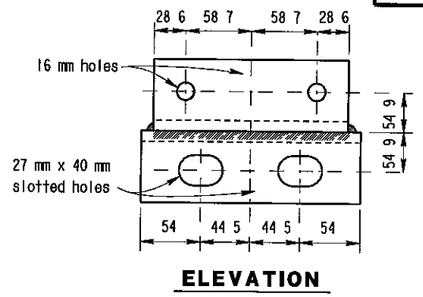
NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Note B

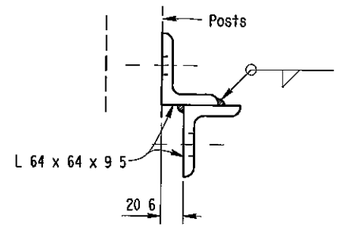
Paint all cut and ground surfaces with zinc rich paint

Note C

At intermediate posts only contractor has an alternate of 3 mm x 51 mm strap or 6 4 mm anchor plate with eyebolt



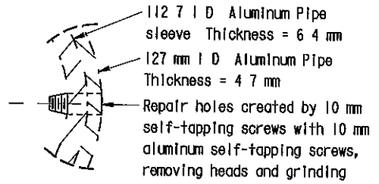
ELEVATION



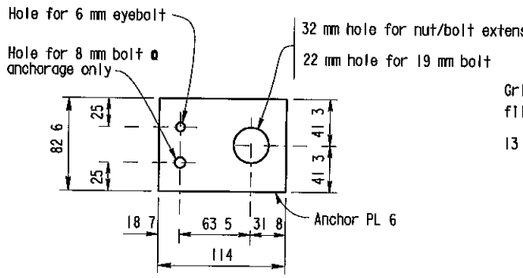
SIDE VIEW

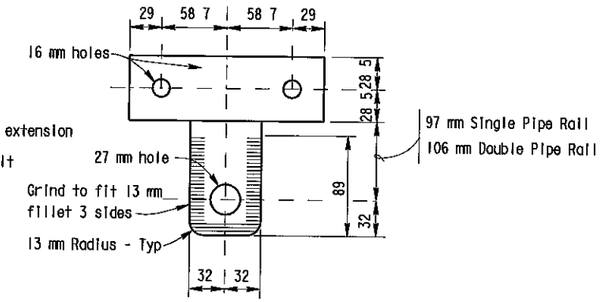
UPPER ANGLE BRACKET

ATTACHMENT DETAILS



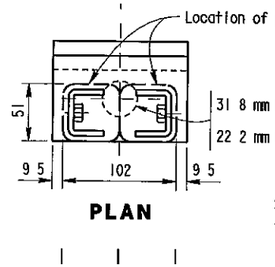
REPAIR DETAIL



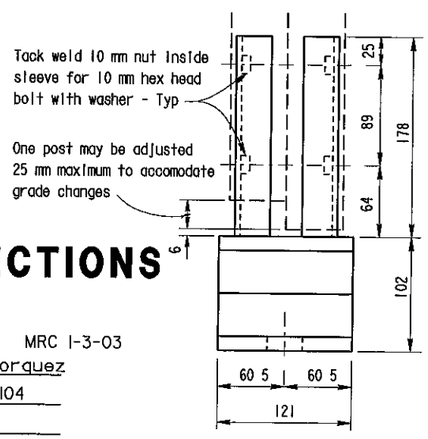


VIEW B-B

(Developed view of upper bracket)

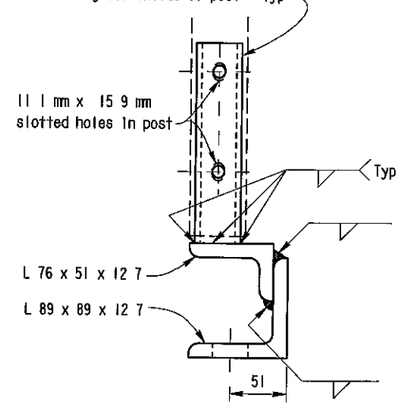


PLAN



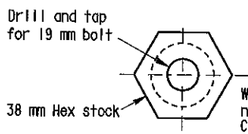
ELEVATION

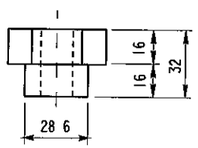
Sleeve formed from PL 4 7, bent thus ⊔ for sliding fit inside of post - Typ



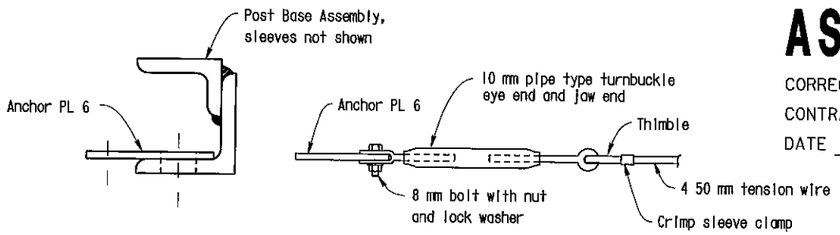
SIDE VIEW

POST BASE ASSEMBLY





NUT/BOLT EXTENSION



BOTTOM ANCHORAGE DETAIL

NO CORRECTIONS AS BUILT

MRC 1-3-03

CORRECTIONS BY John Borquez

CONTRACT NO 06-440104

DATE 11-14-02

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	132	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DIOSDADO ACOBA No 52003 Exp 12-31 02 CIVIL STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

DESIGN	BY D Acoba	5/00	CHECKED F Tannous	5/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY K Endow	5/00	CHECKED F Tannous	5/00	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE
QUANTITIES	BY D Acoba	5/00	CHECKED F Tannous	5/00	CU 06015 EA 440101

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
CHAIN LINK RAILING TYPE 6 MOD NO. 3

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

FILE > nat63 dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 7/17/00 9/26/00 10/3/00

SHEET 10 OF 11

USERNAME > mgarlson DATE PLOTTED > 03 JAN 2003 TIME PLOTTED > 13:26

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
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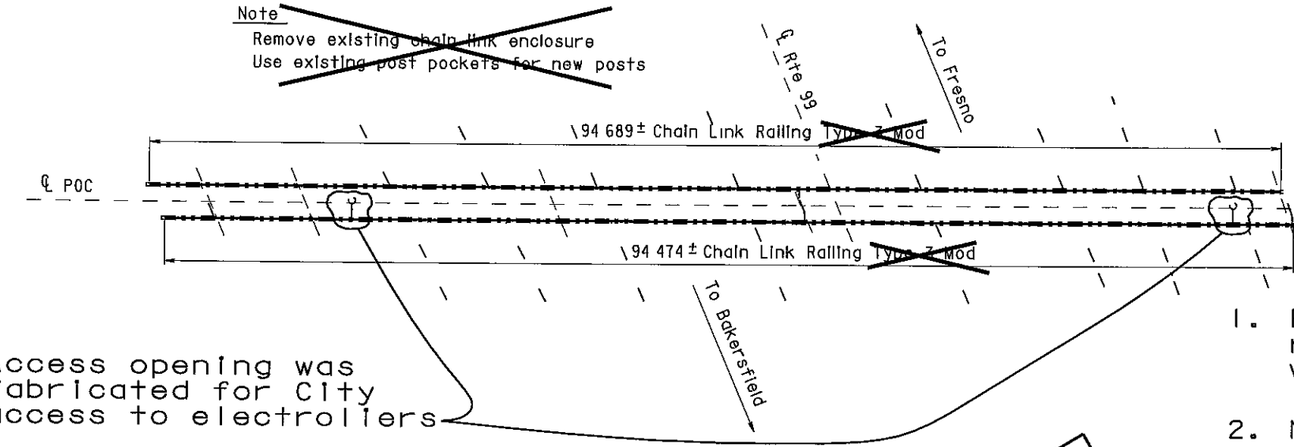
10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

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Note
Remove existing chain link enclosure
Use existing post pockets for new posts



COSMOS PLAYGROUND POC

Br No 42-0215, Fre, KP 31 2
1 250

1. Existing chain link railing remained and was painted.
2. New 1" mesh was installed and replaced the old 2" mesh.
3. Existing electroliers remained.

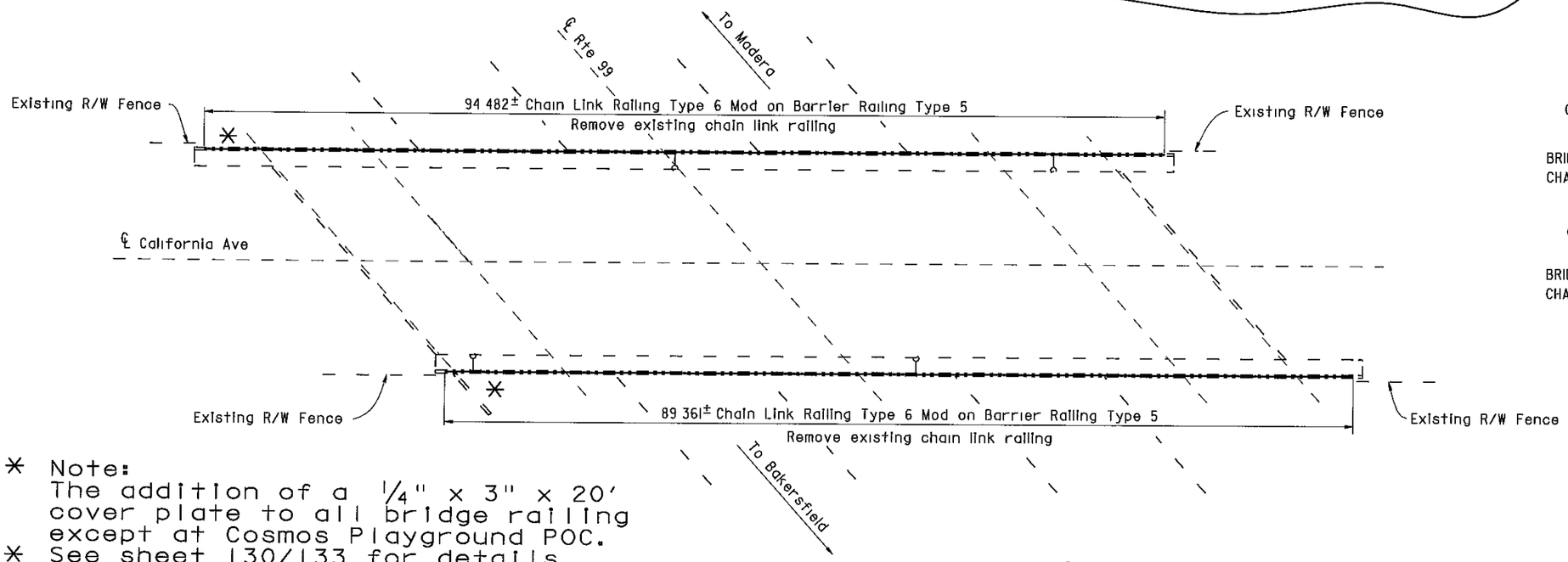
NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

NOTES

— — Indicates existing

℄ Indicates approximate location of existing electroliter (To remain)

Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details



COSMOS PLAYGROUND POC 42-0215
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION C	LUMP SUM
CHAIN LINK RAILING (TYPE 3 MODIFIED)	209 m

CALIFORNIA AVENUE OC 42-0217
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION D	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	184 m

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

CALIFORNIA AVENUE OC

Br No 42-0217, Fre, KP 32 0
1 250

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borguez
CONTRACT NO 06-440104
DATE 11-14-02

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00
DETAILS	K Endow	4/00	F Tannous	5/00
QUANTITIES	D Acoba	5/00	F Tannous	5/00
LAYOUT	K Endow	4/00	D Acoba	4/00
SPECIFICATIONS	J Maroney	9/00	J Maroney (PLANS AND SPECS COMPARED)	9/00

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

CU 06015
EA 440101

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 2

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/12/00 | 9/26/00 | 10/3/00

SHEET 2 OF 11

FILE -> nagp2.dgn

USERNAME -> morrison DATE PLOTTED -> 03 JAN 2003 TIME PLOTTED -> 08:15

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	99	23 3/50 7	125	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

VENTURA STREET OC 42-0158K
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION E	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	78 m

VENTURA STREET OC 42-0158E
QUANTITIES

BRIDGE REMOVAL (PORTION) LOCATION F	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	122 m

VENTURA STREET OC 42-0158S
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION G	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	74 m

NOTES

— — Indicates existing

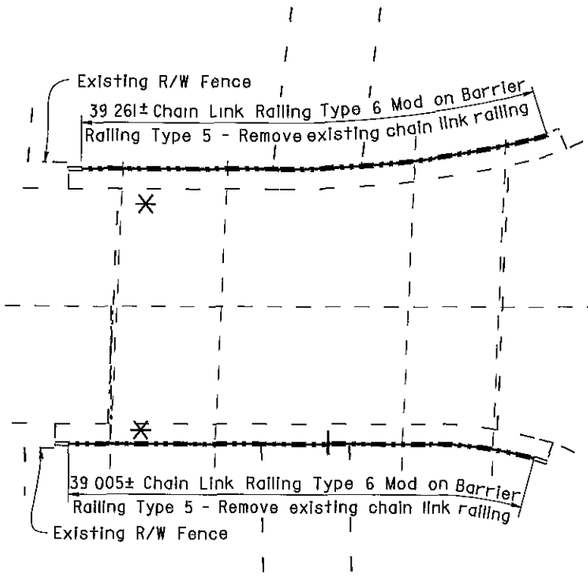
℄ Indicates approximate location of existing electroller (To remain)

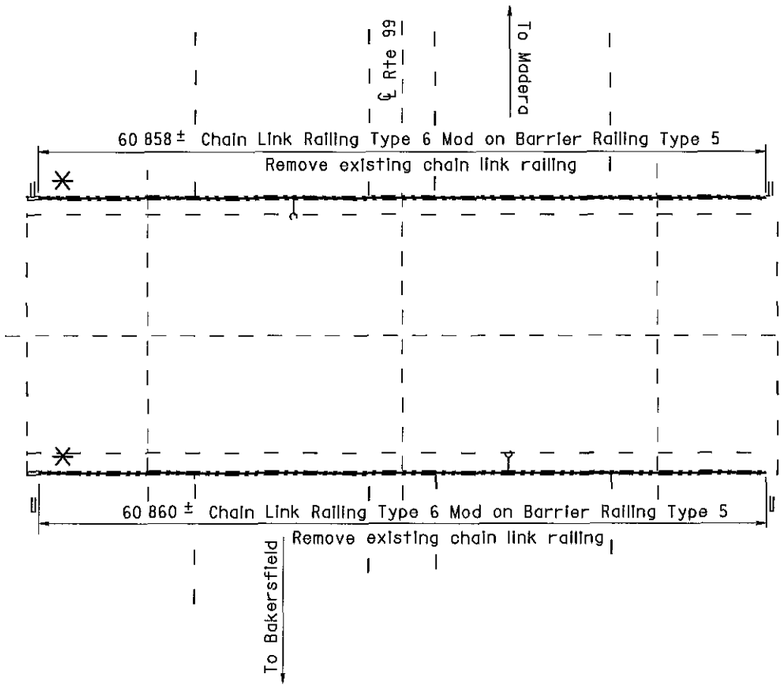
Indicates approximate location of remove and reinstall sign on new post

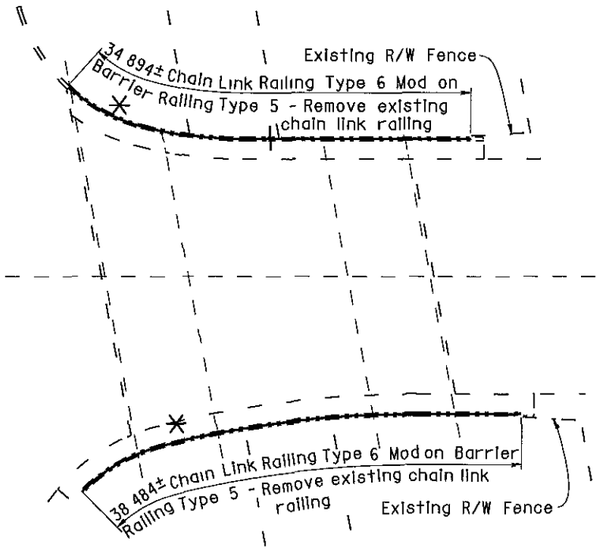
Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.







Br No 42-0158K

Bridges 42-0158K and 42-0158S were both painted with Color No. 20109 - "Deep red".

Br No. 42-0158E

VENTURA STREET OC

Fre, KP 32 5
I 250

AS BUILT
MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

Br No 42-0158S

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

	BY		CHECKED			BY		CHECKED			
DESIGN	D Acoba	4/00	F Tannous	5/00	LAYOUT	K Endow	4/00	D Acoba	4/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE
DETAILS	K Endow	4/00	F Tannous	5/00				PLANS AND SPECS COMPARED			
QUANTITIES	D Acoba	5/00	F Tannous	5/00	SPECIFICATIONS	J Maroney	9/00	J Maroney	9/00		

Michael J Lee 10/3/00
DESIGN ENGINEER

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE => nagp3.dgn

BRIDGE NO Various
KILOMETER POST Varies

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

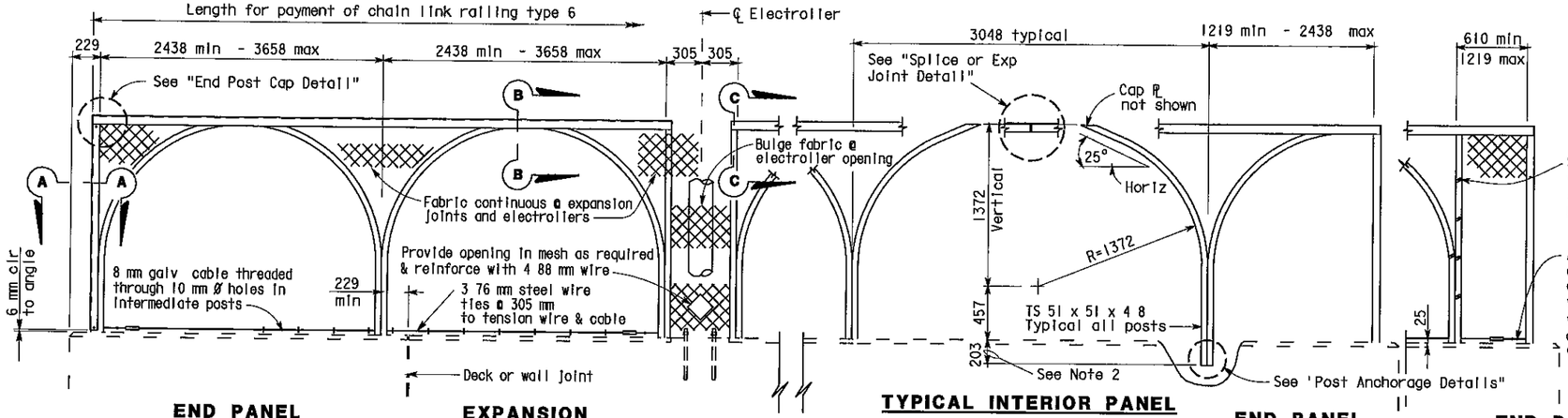
REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/17/00 | 9/28/00 | 10/1/00

ROUTE 99 BRIDGES
GENERAL PLAN NO. 3

SHEET 3 OF 11

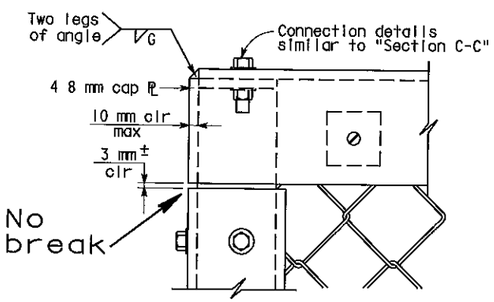
USERNAME => mcarlson DATE PLOTTED => 03 JAN 2003 TIME PLOTTED => 08 32

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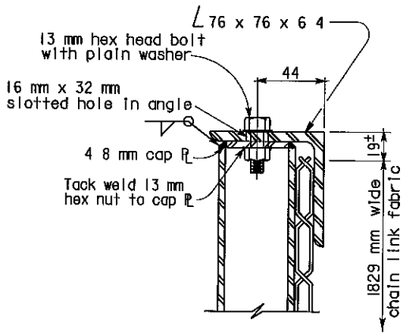


END PANEL 2438 mm - 3658 mm | **EXPANSION PANEL AT ELECTROLIER** | **TYPICAL INTERIOR PANEL** | **END PANEL 1219 mm - 2438 mm** | **END PANEL 610 mm - 1219 mm**

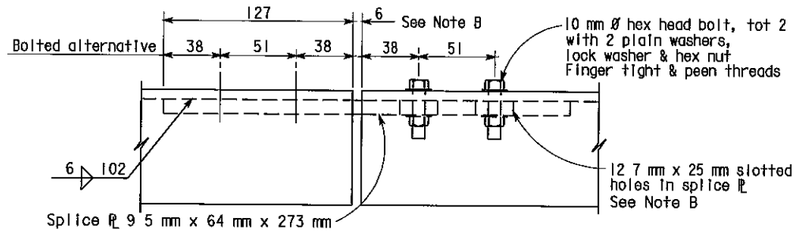
ELEVATION



END POST CAP DETAIL

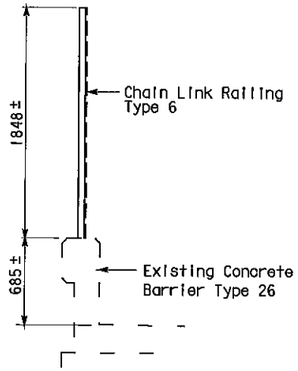


SECTION C-C

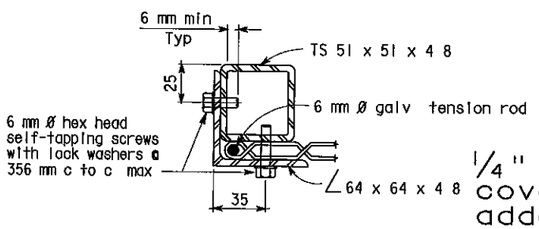


SPLICE OR EXPANSION JOINT DETAIL

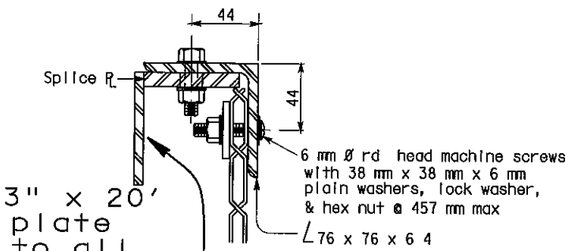
Note B Expansion joint same dimension as expansion joint in deck or wall Increase slotted hole length and splice ℙ length correspondingly



TYPICAL SECTIONS



SECTION A-A



SECTION B-B

NOTES

1. Horizontal angle shall be continuous over not less than two intermediate posts except that a shorter length is permitted at expansion joints, electrollers and other rail discontinuities
2. One post may be embedded 152 mm minimum to accomodate grade changes, otherwise fabricate post lengths as required
3. Curved posts may be rotated in plan within its post pocket to accomodate curved horizontal alignment
4. Straight posts and straight portions of curved posts shall be installed normal to bridge profile grade
5. Top horizontal angle shall be parallel to bridge profile grade and shall be shop bent to fit horizontal curves
6. When railing is on slope, fabric shall be placed parallel to slope
7. Alternative details may be submitted by Contractor for Engineer's approval
8. Railing assembly except chain link fabric shall be galvanized after fabrication
9. For details and reinforcement not shown, see "Concrete Barrier Type 25 or 26" sheet
10. See Bridge Plans for limits of Chain Link Railing Type 6 Mod
11. Provide thimbles at all cable loops
12. Chain link fabric to be 1829 mm wide with 25 mm mesh and with knuckled selvage top and bottom
13. When railing is placed on a horizontal alignment with a radius of 45 72 m or less, thread 8 mm cable through 10 mm Ø welded eye rods embedded 102 mm into the top of the concrete parapet and equally spaced to limit the middle ordinate distance between the 8 mm cable and the curve to 25 mm max
14. Splices and expansion joints shall be located at ℄ panel
15. Holes in posts for 8 mm cable and its anchorage may be field drilled and painted with zinc rich paint

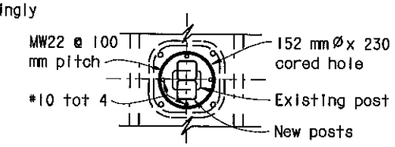
AS BUILT

MRC 1-3-03

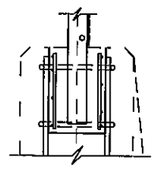
CORRECTIONS BY John Borquez

CONTRACT NO 06-440104

DATE 11-14-02



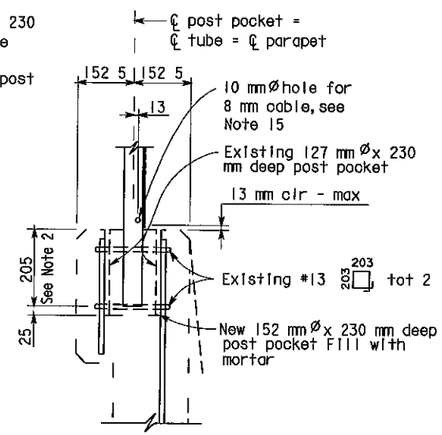
PLAN



SECTION

Detail omitted

POCKET DETAILS



POST ANCHORAGE DETAIL

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	130	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

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DESIGN	BY D Acoba	5/00	CHECKED F Tannous	5/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY K Endow	5/00	CHECKED F Tannous	5/00	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE
QUANTITIES	BY D Acoba	5/00	CHECKED F Tannous	5/00	BRIDGE NO Various; KILOMETER POST Varies

ROUTE 99 BRIDGES

CHAIN LINK RAILING TYPE 6 MOD NO. 1

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV 10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE > nat61.dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/17/00 | 9/26/00 | 10/3/00

SHEET 8 OF 11

USERNAME mcarlson DATE PLOTTED > 03-JAN-2003 TIME PLOTTED => 12:11

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
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10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

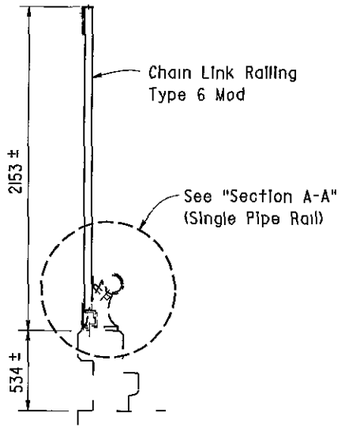
REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

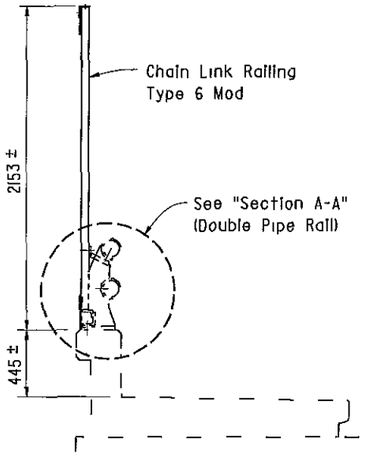
NO CORRECTIONS
AS BUILT

MRC 1-3-03

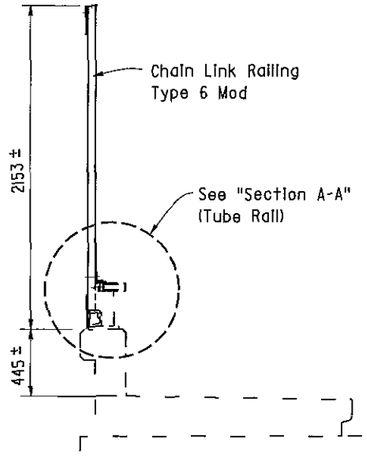
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02



TYPE 1



TYPE 5



TYPE 12

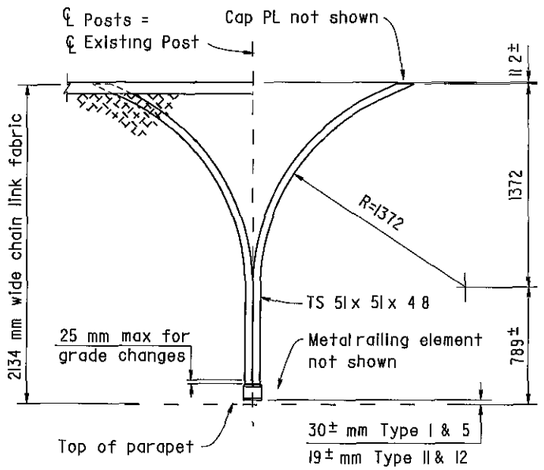
BARRIER RAILING SECTIONS

Existing chain link railing not shown

I 20

TYPE A
- NORTH AVE OC - 2 Locations
- CHURCH AVE OC - 4 Locations
- CALIFORNIA AVE OC - 4 Locations
- VENTURA ST OC - 4 Locations

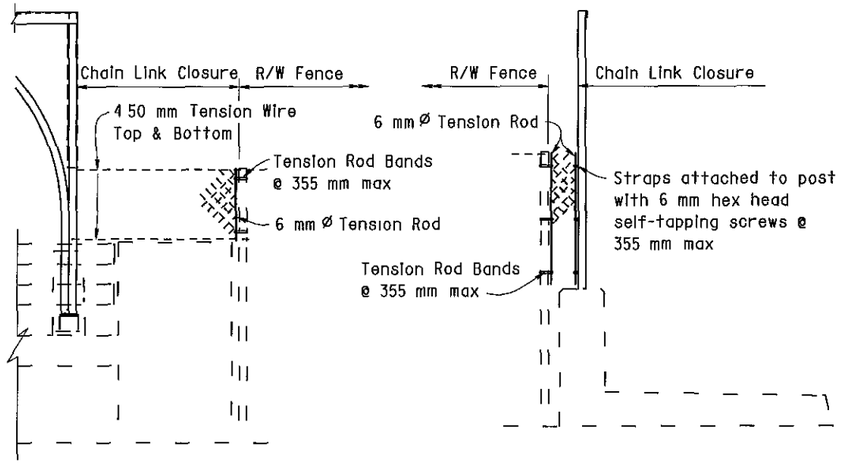
TYPE B
- KERN ST OC - 4 Locations
- TULARE ST OC - 4 Locations
- EL DORADO ST OC - 4 Locations



PART OUTSIDE ELEVATION

Note For details and notes not shown, see "Chain Link Railing Type 6 Mod No 1" sheet

I 10

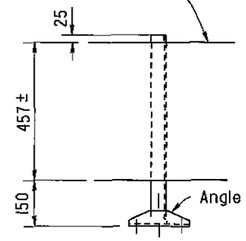


TYPE A TYPE B

R/W FENCE CONNECTION

I 10

Remove existing sign panels and reinstall on new post



TULARE ST OC

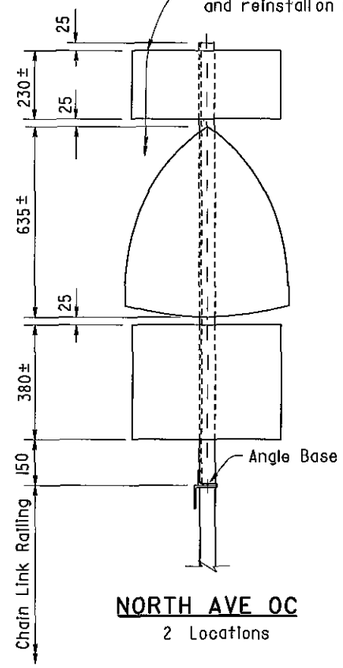
4 Loactions

Note

Reinstall signs at approximately the same location on chain link railing as existing

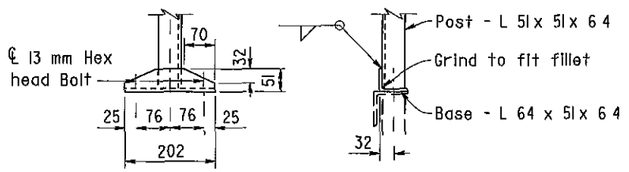
NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Remove existing sign panels and reinstall on new post



NORTH AVE OC

2 Locations



ANGLE BASE

Note

Hot dip galvanize sign post after fabrication
Field drilled holes to be painted with zinc rich paint

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

	BY		CHECKED	
DESIGN	D Acoba	5/00	F Tannous	5/00
DETAILS	K Endow	5/00	F Tannous	5/00
QUANTITIES	D Acoba	5/00	F Tannous	5/00

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
CHAIN LINK RAILING TYPE 6 MOD NO. 2

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE > nat62.dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/17/00 | 9/26/00 | 10/3/00

SHEET 9 OF 11

USERNAME => mcarlson DATE PLOTTED > 03-JAN-2003 TIME PLOTTED > 13:23

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NOTE
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Caltrans Metric

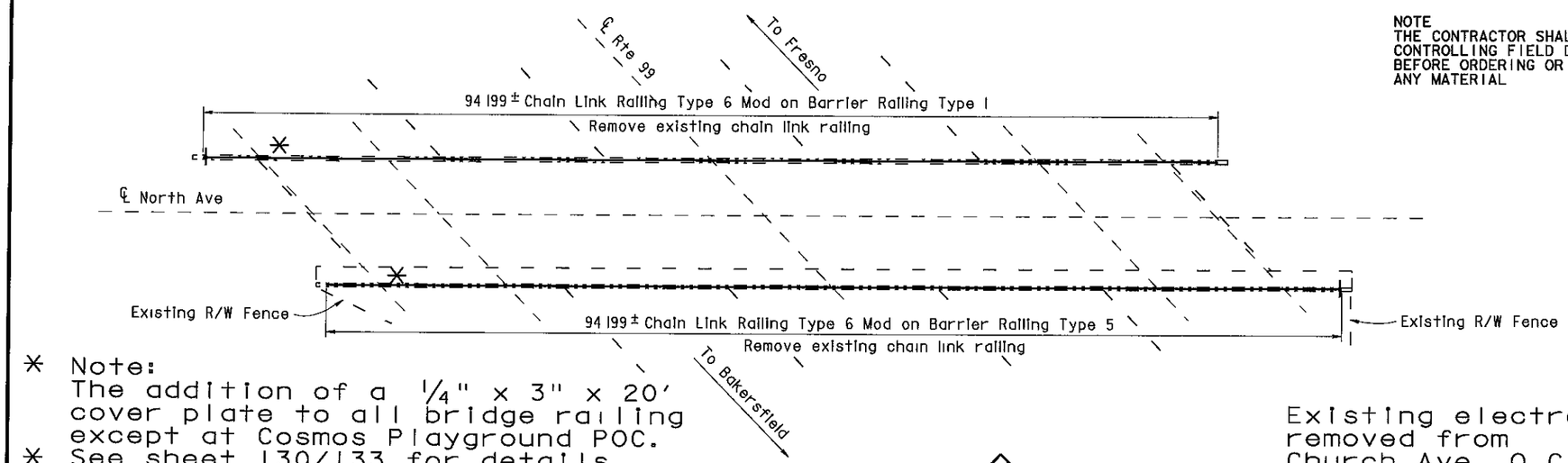
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	123	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DIOSDADO ACOBA
No 52003
Exp 12-31-02
CIVIL
STATE OF CALIFORNIA

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* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

NORTH AVENUE OC

Br No 42-0210, Fre, KP 27 8
1 250

Existing electroliers removed from Church Ave. O.C.

NOTES

— — Indicates existing

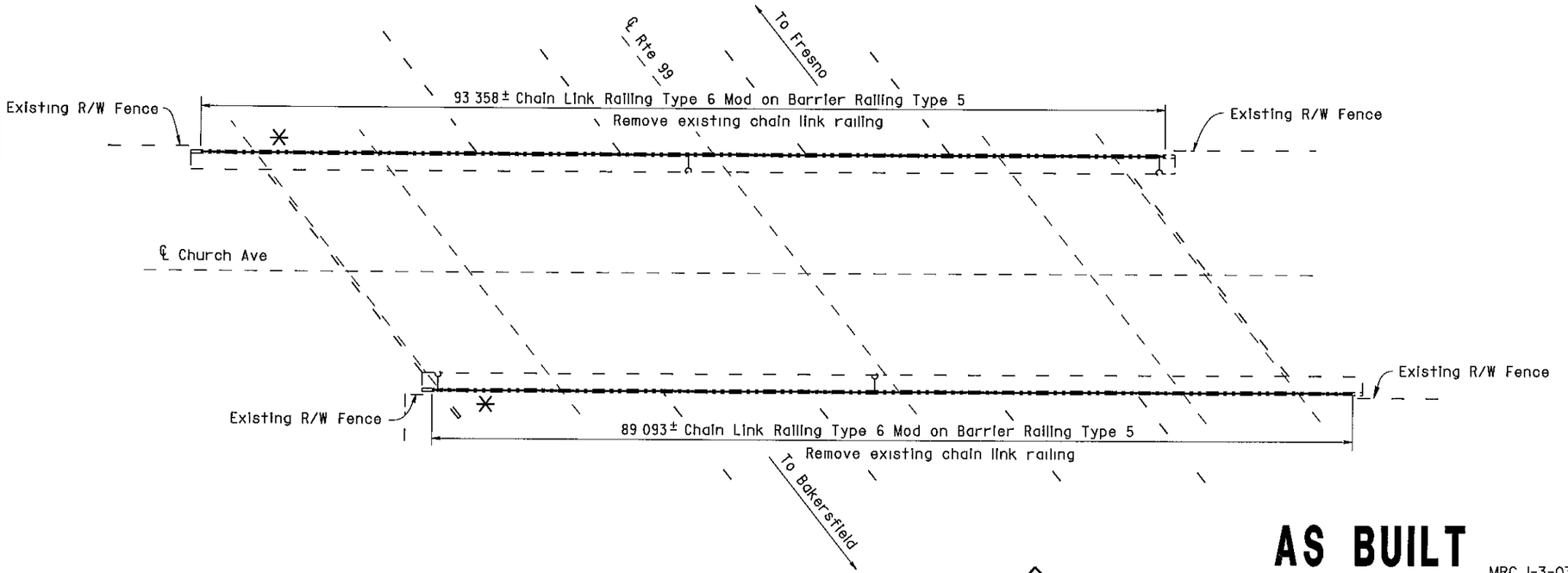
℄ Indicates approximate location of existing electrolier (To remain)

Indicates approximate location of remove and reinstall sign on new post

Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details

INDEX TO PLANS

SHEET NO	TITLE
1	GENERAL PLAN NO 1
2	GENERAL PLAN NO 2
3	GENERAL PLAN NO 3
4	GENERAL PLAN NO 4
5	GENERAL PLAN NO 5
6	GENERAL PLAN NO 6
7	GENERAL PLAN NO 7
8	CHAIN LINK RAILING TYPE 6 MOD NO 1
9	CHAIN LINK RAILING TYPE 6 MOD NO 2
10	CHAIN LINK RAILING TYPE 6 MOD NO 3
11	CHAIN LINK RAILING TYPE 3 MOD



CHURCH AVENUE OC

Br No 42-0214, Fre, KP 30 9
1 250

AS BUILT MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

NORTH AVENUE OC 42-0210
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION A	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	189 m

CHURCH AVENUE OC 42-0214
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION B	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	183 m

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED		BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00	LAYOUT	K Endow	4/00	D Acoba	4/00
DETAILS	K Endow	4/00	F Tannous	5/00				PLANS AND SPECS COMPARED	
QUANTITIES	D Acoba	5/00	F Tannous	5/00	SPECIFICATIONS	J Maroney	9/00	J Maroney	9/00

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 1

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 5/15/00 7/17/00 9/26/00 10/3/00

SHEET 1 OF 11

FILE -> nagpl.dgn

USERNAME -> mgarson DATE PLOTTED -> 02 JAN 2003 TIME PLOTTED -> 16:55

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
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10/3/00
REGISTERED CIVIL ENGINEER

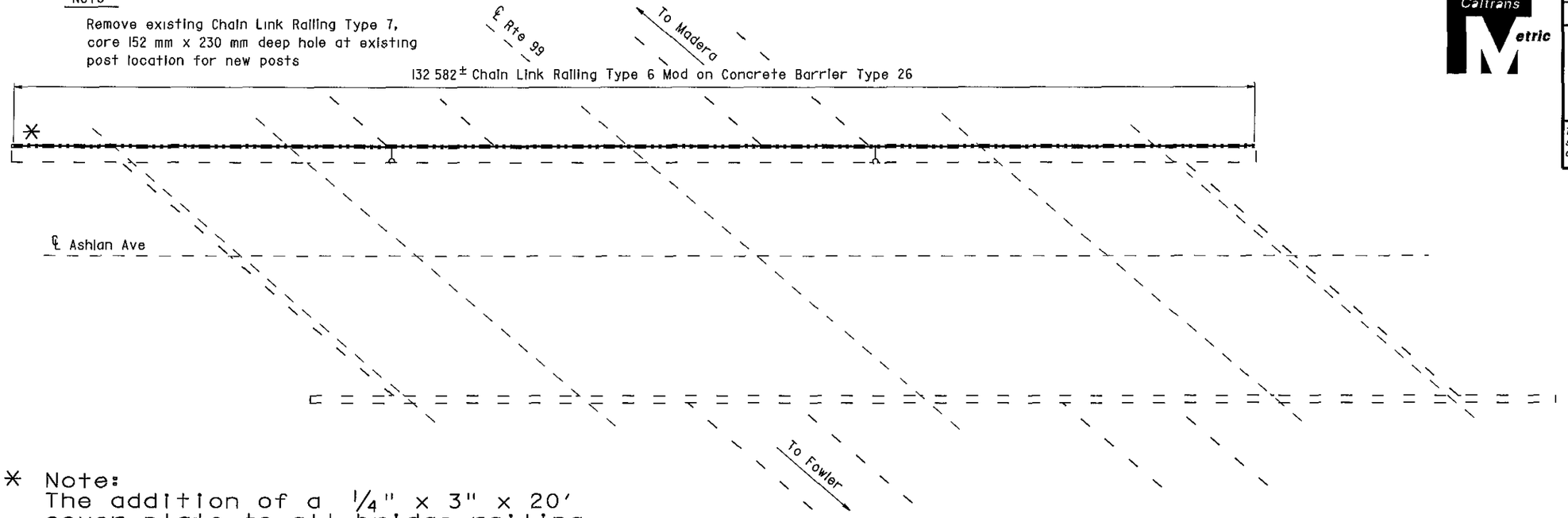
11-13-00
PLANS APPROVAL DATE

DIOSDADO ACOBA No 52003 Exp 12-31-02 CIVIL STATE OF CALIFORNIA

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Note

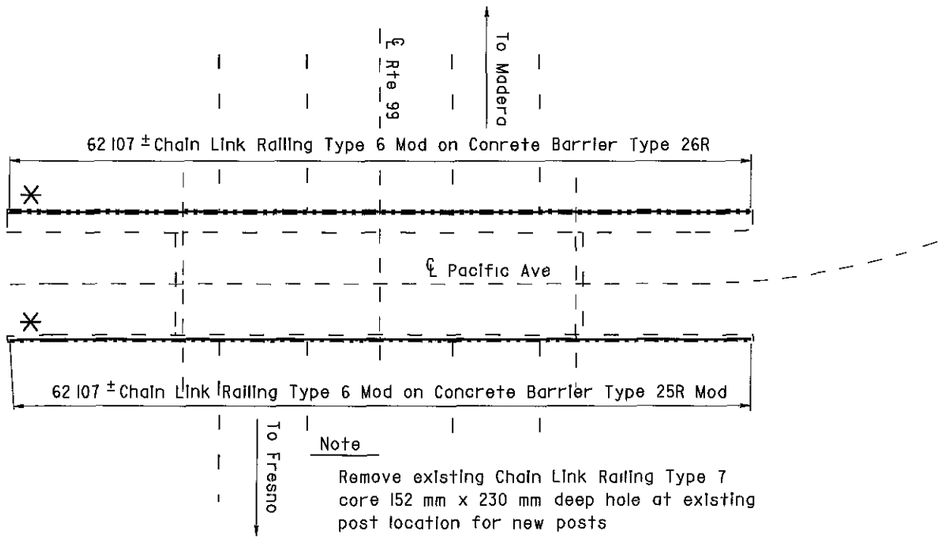
Remove existing Chain Link Railing Type 7, core 152 mm x 230 mm deep hole at existing post location for new posts



* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

ASHLAN AVENUE OC

Br No 42-0140, Fre, KP 42 8
1 250



Note

Remove existing Chain Link Railing Type 7 core 152 mm x 230 mm deep hole at existing post location for new posts

PACIFIC AVENUE OC

Br No 42-0189, Fre, KP 36 0
1 250

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

NOTES

— — Indicates existing

℄ ↓ Indicates approximate location of existing electrolier (To remain)

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

ASHLAN AVENUE OC 42-0140
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION O	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	133 m

PACIFIC AVENUE OC 42-0189
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION P	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	124 m

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

DESIGN	BY D Acoba 4/00	CHECKED F Tannous 5/00	LAYOUT	BY K Endow 4/00	CHECKED D Acoba 4/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE
DETAILS	BY K Endow 4/00	CHECKED F Tannous 5/00					
QUANTITIES	BY D Acoba 5/00	CHECKED F Tannous 5/00	SPECIFICATIONS	BY J Maroney 9/00	PLANS AND SPECS COMPARED J Maroney 9/00		

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 7

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE => nagp7.dgn

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SHEET 7 OF 11

USERNAME -> mgarrison DATE PLOTTED => 03 JAN 2003 TIME PLOTTED => 11:45

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
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10/3/00
REGISTERED CIVIL ENGINEER

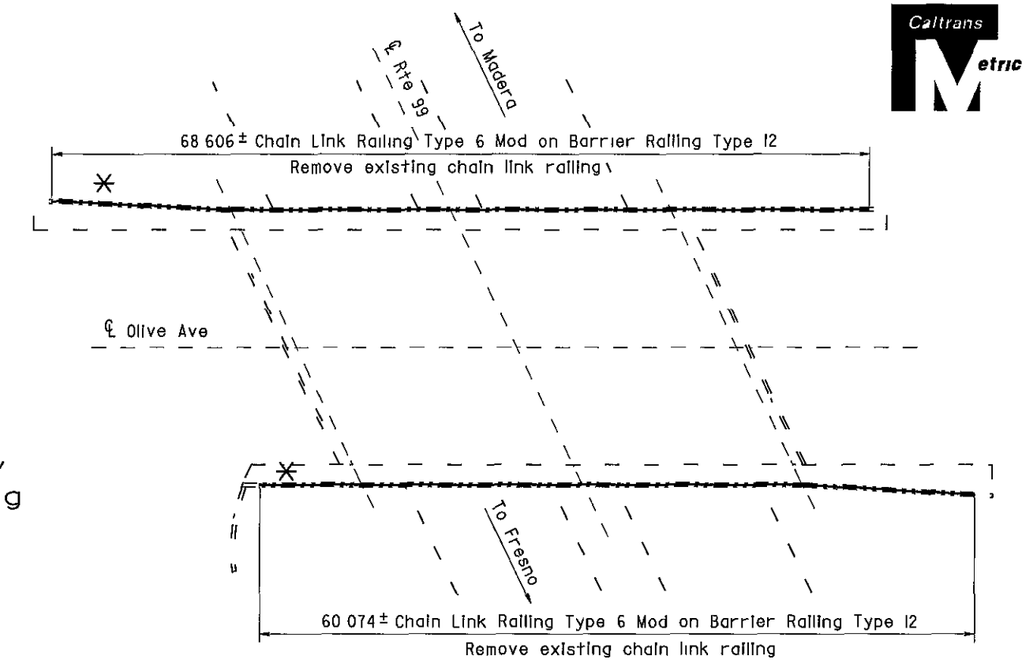
11-13-00
PLANS APPROVAL DATE

DIOSDADO ACOBA No 52003 Exp 12-31 02 CIVIL STATE OF CALIFORNIA REGISTERED PROFESSIONAL ENGINEER

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NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.



OLIVE AVENUE OC

Br No 42-0187, Fre, KP 37 5
1 250

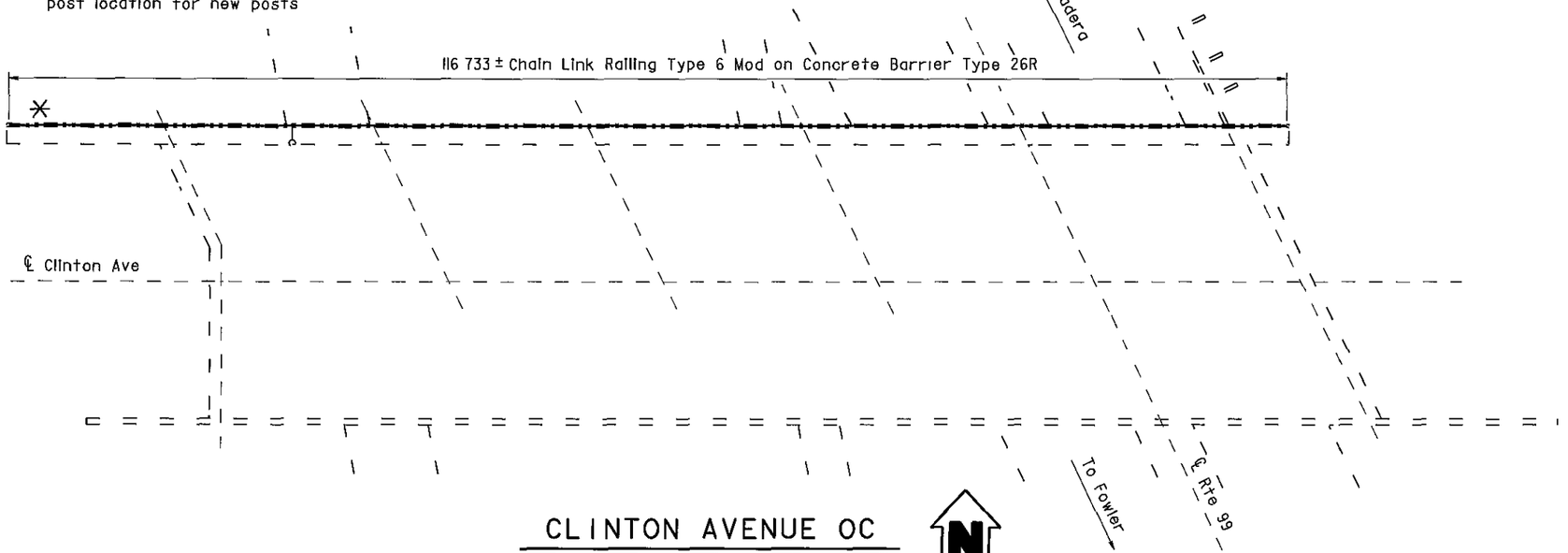
NOTES

— — Indicates existing

℄ Indicates approximate location of existing electrolier (To remain)

Note

Remove existing Chain Link Railing Type 7 core 152 mm x 230 mm deep hole at existing post location for new posts



CLINTON AVENUE OC

Br No 42-0183, Fre, KP 39 3
1 250

OLIVE AVENUE OC 42-0187
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION M	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	129 m

CLINTON AVENUE OC 42-0183
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION N	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	116 m

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED		BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00	LAYOUT	K Endow	4/00	D Acoba 4/00
DETAILS	K Endow	4/00	F Tannous	5/00				
QUANTITIES	D Acoba	5/00	F Tannous	5/00	SPECIFICATIONS	J Maroney	9/00	PLANS AND SPECS COMPARED J Maroney 9/00

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 6

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE => nagp6.dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/17/00 | 9/26/00 | 10/3/00

SHEET 6 OF 11

USERNAME => mcarlson DATE PLOTTED => 03 JAN-2003 TIME PLOTTED => 08 53

ClibPDF - www.fastio.com

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	127	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

FRESNO STREET OC 42-0170
QUANTITIES

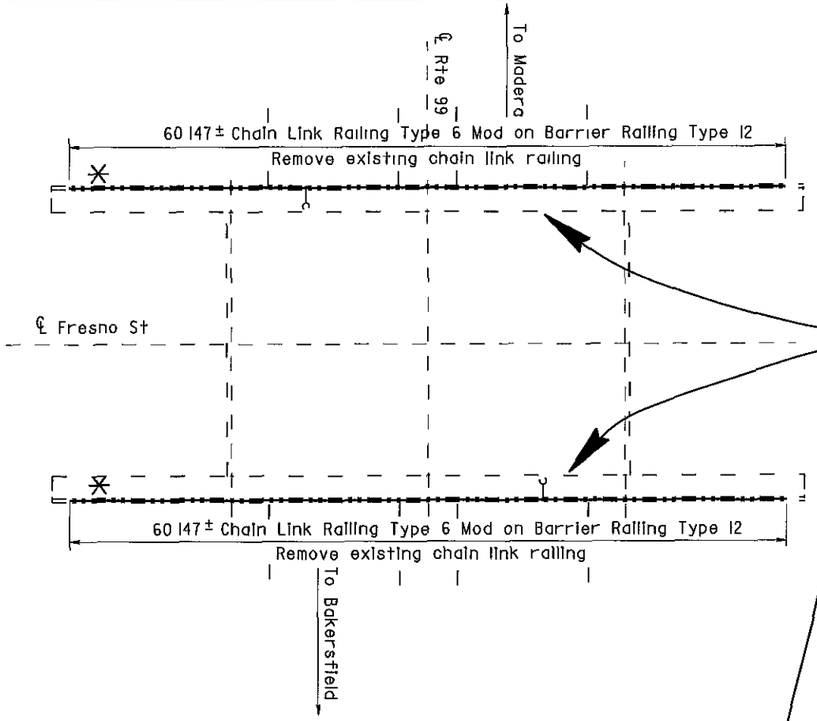
BRIDGE REMOVAL (PORTION), LOCATION J	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	120 m

EL DORADO STREET OC 42-0184
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION K	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	122 m

BELMONT AVENUE OC 42-0186
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION L	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	138 m



Handrail added to Fresno St. and Belmont Ave. OC

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

NOTES

— — Indicates existing

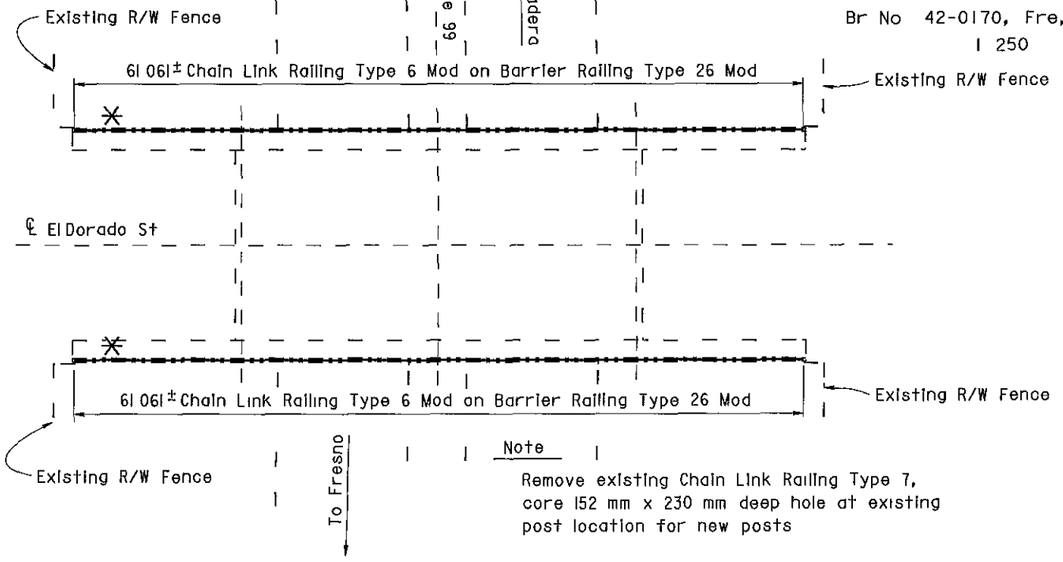
℄ Indicates approximate location of existing electrolier (To remain)

Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

FRESNO STREET OC

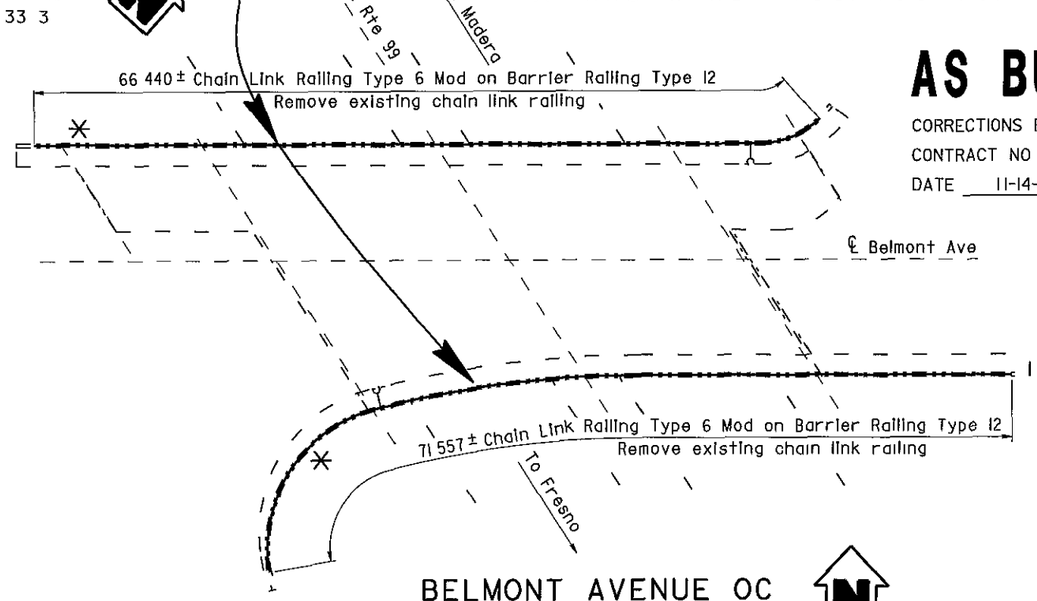
Br No 42-0170, Fre, KP 33 3
1 250



Note
Remove existing Chain Link Railing Type 7, core 152 mm x 230 mm deep hole at existing post location for new posts

EL DORADO STREET OC

Br No 42-0184, Fre, KP 34 6
1 250



BELMONT AVENUE OC

Br No 42-0186, Fre, KP 36 5
1 250

AS BUILT
MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED		LAYOUT	BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00		K Endow	4/00	D Acoba	4/00
DETAILS	K Endow	4/00	F Tannous	5/00				PLANS AND SPECS COMPARED	
QUANTITIES	D Acoba	5/00	F Tannous	5/00	SPECIFICATIONS	J Maroney	9/00	J Maroney	9/00

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

CU 06015
EA 440101

FILE => nogp5.dgn

BRIDGE NO	Various
KILOMETER POST	Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 5

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)									
5/15/00	7/17/00	9/26/00	10/3/00						

SHEET 5 OF 11

USERNAME => marison DATE PLOTTED => 03-JAN 2003 TIME PLOTTED => 06 50

ClibPDF - www.fastio.com

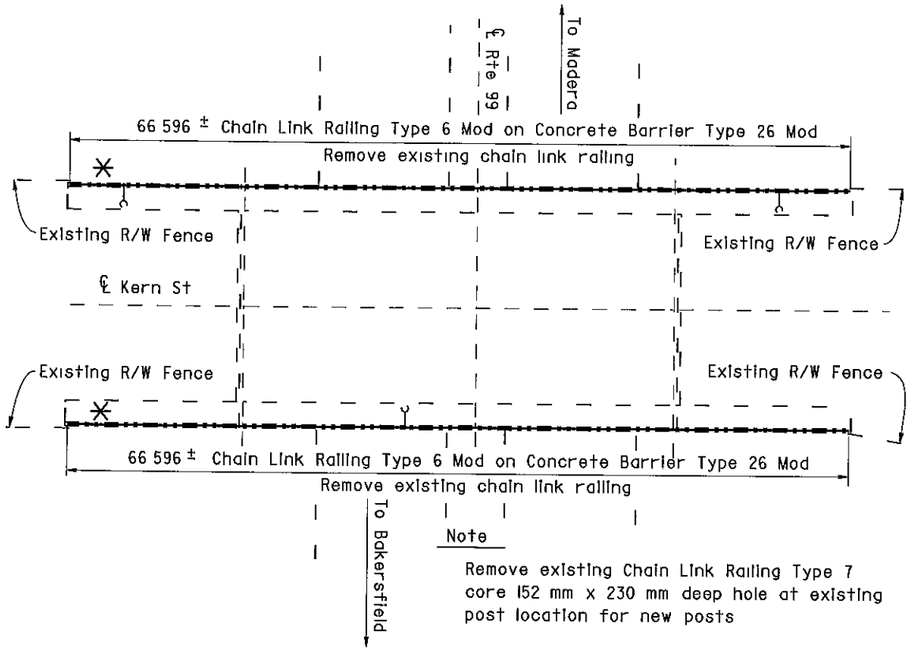
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	126	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet



Note

Remove existing Chain Link Railing Type 7 core 152 mm x 230 mm deep hole at existing post location for new posts

KERN STREET OC

Br No 42-0159, Fre, KP 33 0
1 250

KERN STREET OC 42-0159
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION H	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	133 m

TULARE STREET OC 42-0169
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION I	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	166 m

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

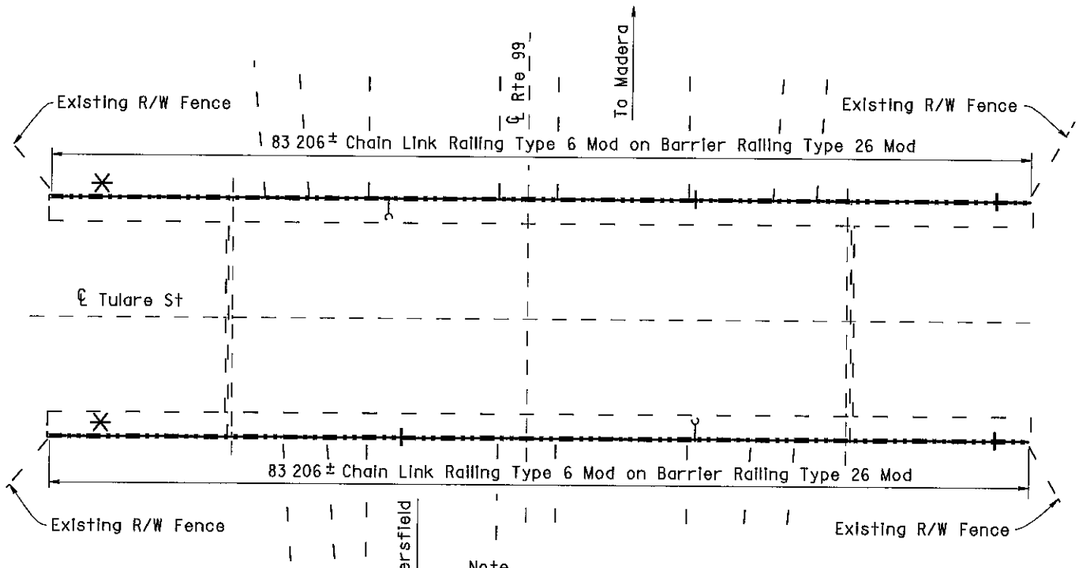
NOTES

— — Indicates existing

℄ Indicates approximate location of existing electrolier (To remain)

Indicates approximate location of remove and reinstall sign on new post

Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details



Note

Remove existing Chain Link Railing Type 7 core 152 mm x 230 mm deep hole at existing post location for new posts

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

TULARE STREET OC

Br No 42-0169, Fre, KP 33 2
1 250

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00 DESIGN ENGINEER	DESIGN	BY D Acoba 4/00	CHECKED F Tannous 5/00	LAYOUT	BY K Endow 4/00	CHECKED D Acoba 4/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE	BRIDGE NO Various
	DETAILS	BY K Endow 4/00	CHECKED F Tannous 5/00						KILOMETER POST Varies
	QUANTITIES	BY D Acoba 5/00	CHECKED F Tannous 5/00	SPECIFICATIONS	BY J Maroney 9/00	PLANS AND SPECS COMPARED J Maroney 9/00		CU 06015 EA 440101	DISREGARD PRINTS BEARING EARLIER REVISION DATES

ROUTE 99 BRIDGES
GENERAL PLAN NO. 4

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 7/17/00 9/26/00 10/3/00

SHEET 4 OF 11

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

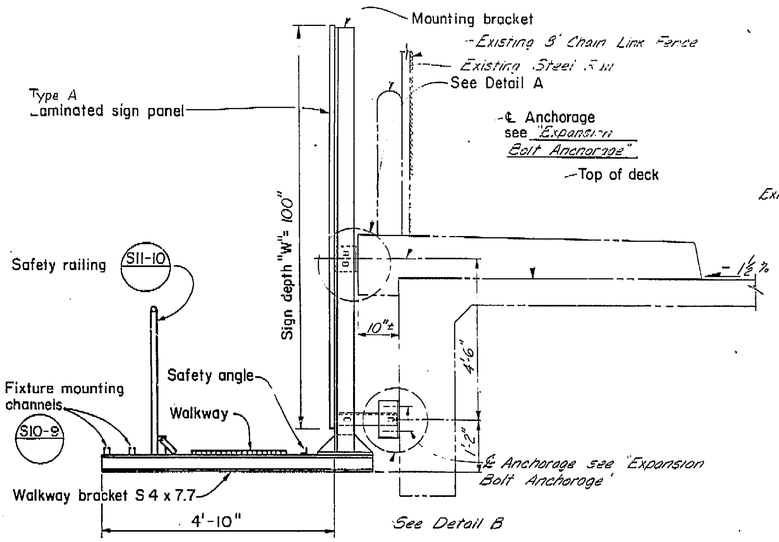
FILE > nagp4 dgn

USERNAME > mcarlson DATE PLOTTED > 03-JAN-2003 TIME PLOTTED => 08:38

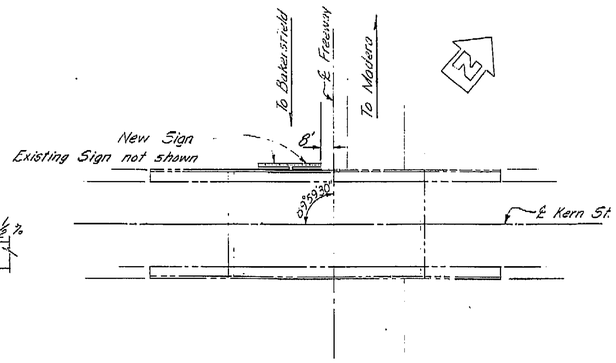
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
6	Fre.			9	

DESIGN ENGINEER — REG. CERTIFICATE NO. — DATE APPROVED — 8/83 — 17729



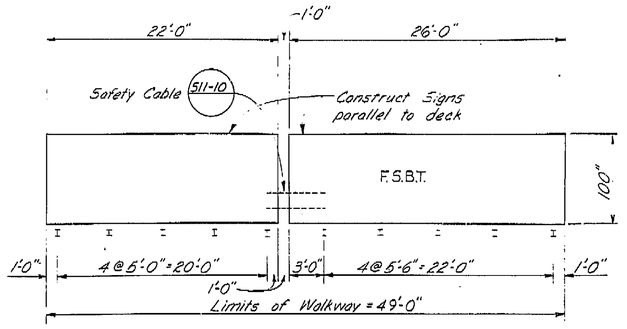
TYPICAL MOUNTING BRACKET ASSEMBLY



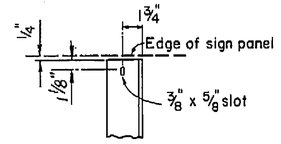
LOCATION PLAN

Scale 1"=40'

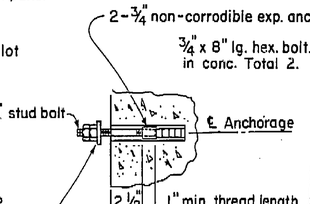
Br. No. 42-159



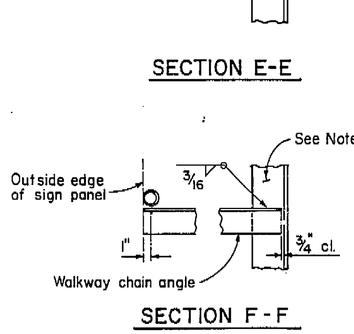
MOUNTING BRACKET ASSEMBLY SPACING



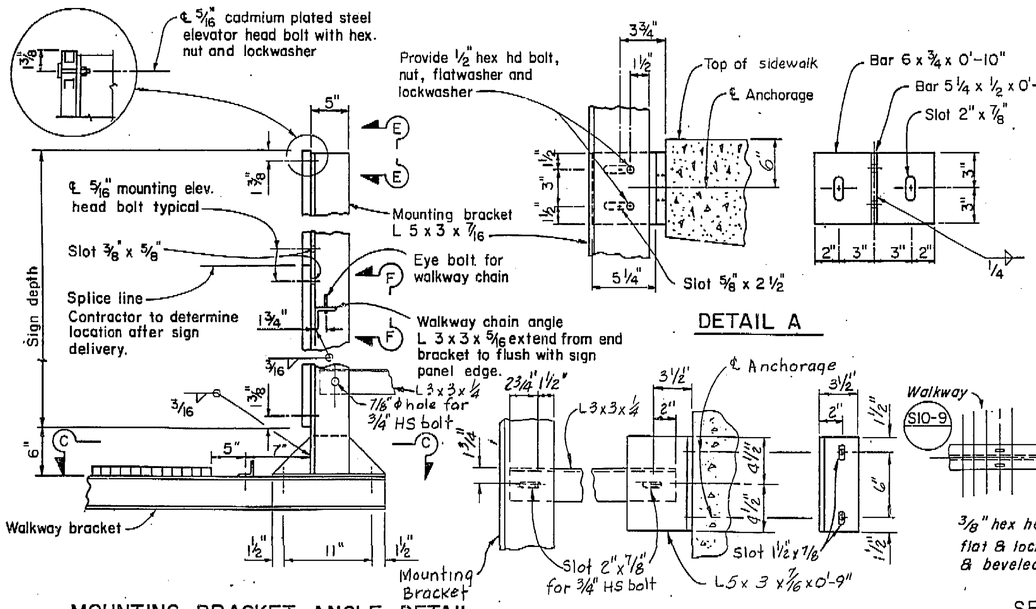
SECTION E-E



EXPANSION BOLT ANCHORAGE



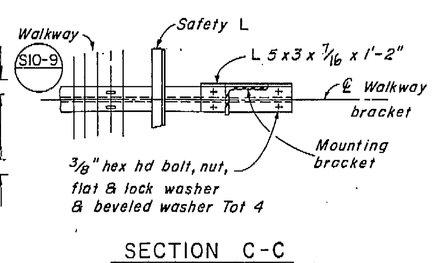
SECTION F-F



MOUNTING BRACKET ANGLE DETAIL

DETAIL A

DETAIL B



SECTION C-C

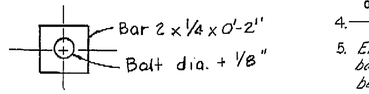


PLATE WASHER

Use over slotted holes

AS BUILT PLANS
Contract No. 06-242504
Date Completed
Document No.

Notes:

1. For detail not shown see "Standard Plans".
2. The exterior mounting bracket to face outward to accommodate the walkway chain angle.
3. Contractor to provide anchor bolt layout before anchor bolts are placed.
4. ——— Indicates existing structure.
5. Existing sign to be removed. Existing anchor bolts shall be removed to a depth of 1" inch below the surface and the resulting hole patched with mortar.

NOTE: THE CONTRACTOR SHALL VERIFY ALL DEPENDENT DIMENSIONS IN THE FIELD BEFORE ORDERING OR FABRICATING ANY MATERIAL.

Standard Plan Sheet No.
Detail No.

	By		Checked	
DESIGN	E. RIKER	8/83	Barry Moreno	8/83
DETAILS	M. Moreno	8/83	Barry Moreno	8/83
QUANTITIES	Barry Moreno	8/83	M. Morrow	8/83

3/77 State of CALIFORNIA DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES DESIGN SECTION 4
PROJECT ENGINEER Earl Rikin

BRIDGE NO. 42-159
POST MILE

KERN STREET OVERCROSSING
BRIDGE MOUNTED SIGN
LAMINATED PANEL, TYPE A, WITH WALKWAY

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06351
WO 242501

Disregard prints bearing earlier revision dates

REVISION DATES (PRELIMINARY STAGE ONLY) — 10/20/83

SHEET 1 OF 1

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

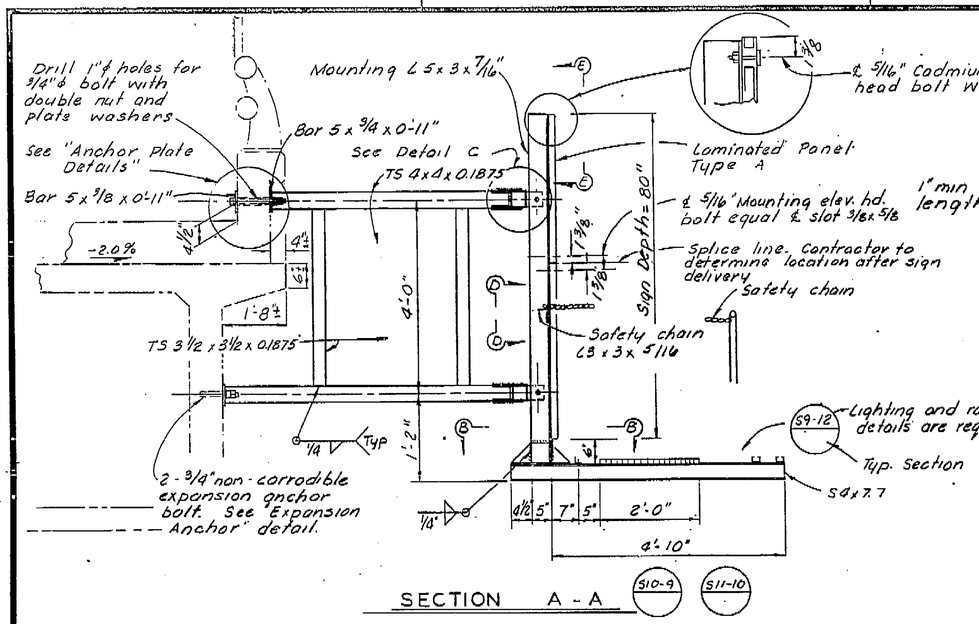
DATE 10/20/83 SIGNATURE Ronald R. Blankford TITLE

MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF TRANSPORTATION – MICROFILM
SCALE 1"= 50' SCALE 1"= 50' SCALE 1"= 20' SCALE 1"= 20'
SCALE 1"= 10' or 1"=100' SCALE 1"= 10' or 1"=100' SCALE 1"= 40' SCALE 1"= 40'

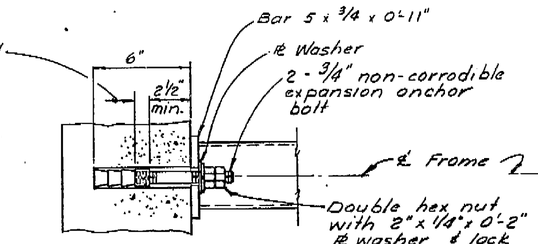
ClipPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99		8	

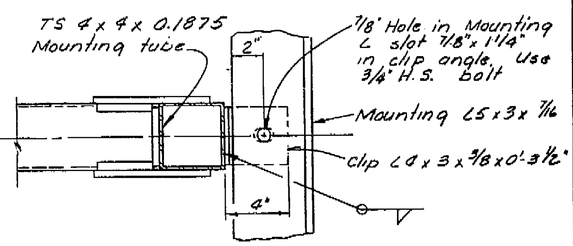
G. H. Pomeroy 7/83 7845
DESIGN ENGINEER — REGISTERED CIVIL ENGINEER NUMBER
DATE APPROVED



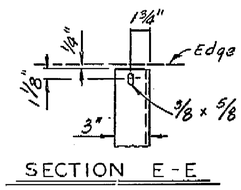
SECTION A - A



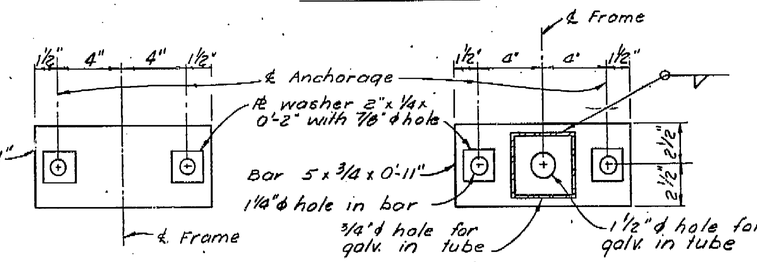
EXPANSION ANCHOR



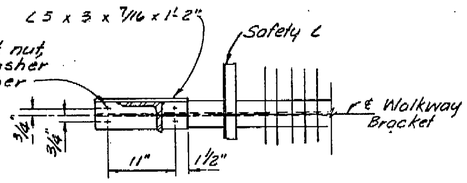
DETAIL C



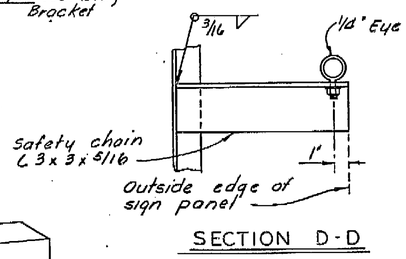
SECTION E-E



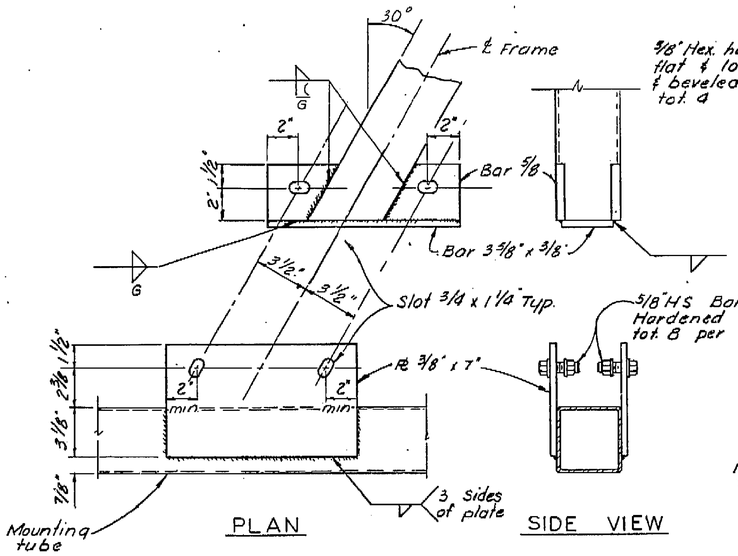
ANCHOR PLATE DETAILS

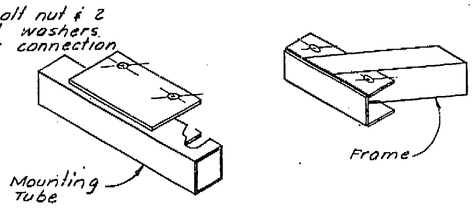


SECTION B-B



SECTION D-D





FRAME-MOUNTING TUBE CONNECTION

AS BUILT PLANS
Contract No. 06-242504
Date Completed
Document No.

LAMINATED SIGN PANEL TYPE A

CHURCH AVENUE OVERCROSSING

BRIDGE MOUNTED SIGN-SKEWED ANCHORAGE AND FRAME DETAILS

Standard Plan Sheet No.
Detail No.

NOTE: THE CONTRACTOR SHALL VERIFY ALL DEPENDENT DIMENSIONS IN THE FIELD BEFORE ORDERING OR FABRICATING ANY MATERIAL.

	By	Checked	
DESIGN	Ben Mitawa 7/83	E. RIVER	7/83
DETAILS	Ben Mitawa 7/8-3	E RIVER	7/83
QUANTITIES	Ben Mitawa 7/23	E. RIVER	7/83

State of CALIFORNIA
DEPARTMENT OF TRANSPORTATION

STRUCTURES - DESIGN 4
PROJECT ENGINEER Earl Riker 7/84

BRIDGE NO. 42-214
POST MILE

CU 06351
WO 242501

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

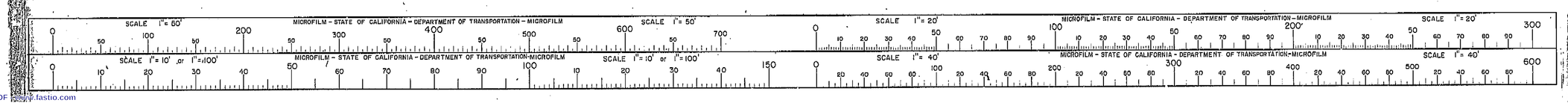
Disregard prints bearing earlier revision dates

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 2 OF 2

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 10/20/83 SIGNED Donald B. Lockhard TITLE

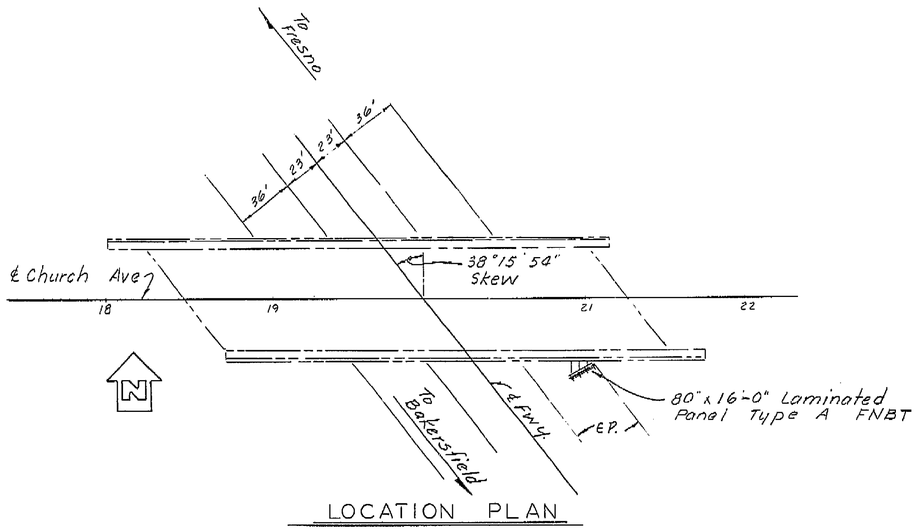


ClibPDF - www.fastio.com

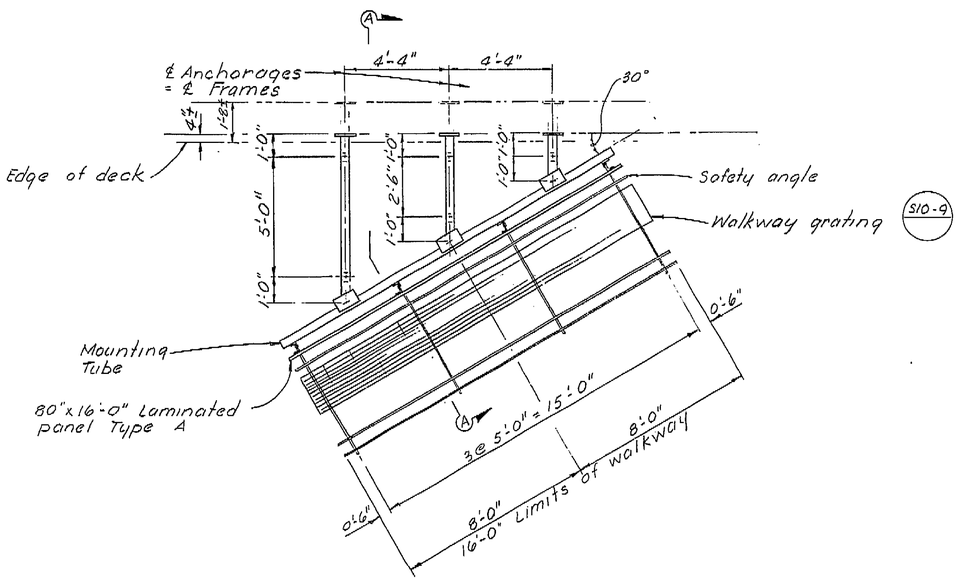
DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
6	Fre	41		7	

E G Pomeroy 7/83 7845
DESIGN ENGINEER REGISTERED CIVIL ENGINEER NUMBER

DATE APPROVED



LOCATION PLAN



LAYOUT

AS BUILT PLANS
Contract No. 06-242504
Date Completed
Document No.

Note:
1. For details not shown see "Standard Plans"
2. Exterior bracket angle to face outward to accommodate the safety chain angle.
3. Finish to be galvanizing. 3/4"ϕ Holes in underside of tubing maybe added by contractor to permit draining of galvanizing.
4. Ends of mounting tube to be covered with 3/16" min. material seal welded.
5. All high strength (H.S.) bolts shall be wrench tightened
6. Min size fillet weld is 1/4" or smaller piece thickness unless noted otherwise.
7. For SECTION A-A see "Anchorage & Frame Details" sheet.
8. ———— — — ———— Indicates existing structure
9. Holes in concrete to be drilled with non percussion type drill.

Standard Plan Sheet No.
Detail No.

NOTE: THE CONTRACTOR SHALL VERIFY ALL DEPENDENT DIMENSIONS IN THE FIELD BEFORE ORDERING OR FABRICATING ANY MATERIAL.

	By		Checked		
DESIGN	Dan Matsuo	7/83	E. RIVER	7/83
DETAILS	Harry Mitchell	7/83	E. RIVER	7/83
QUANTITIES	Dan Matsuo	7/83	E. RIVER	7/83

State of CALIFORNIA
DEPARTMENT OF TRANSPORTATION

STRUCTURES - DESIGN 4
E. Riker 7/84
PROJECT ENGINEER REGISTERED CIVIL ENGINEER NO.

BRIDGE NO. 42-214
POST MILE

CHURCH AVENUE OVERCROSSING
BRIDGE MOUNTED SIGN - SKEWED
LAYOUT AND LOCATION PLAN

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06351
WO 292501

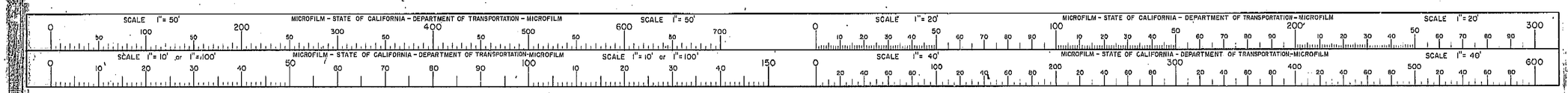
Disregard prints bearing earlier revision dates →

REVISION DATES (PRELIMINARY STAGE ONLY) 9/5/84 7/11/84

SHEET 1 OF 2

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 10/20/83 SIGNATURE Ronald B. Blackford TITLE



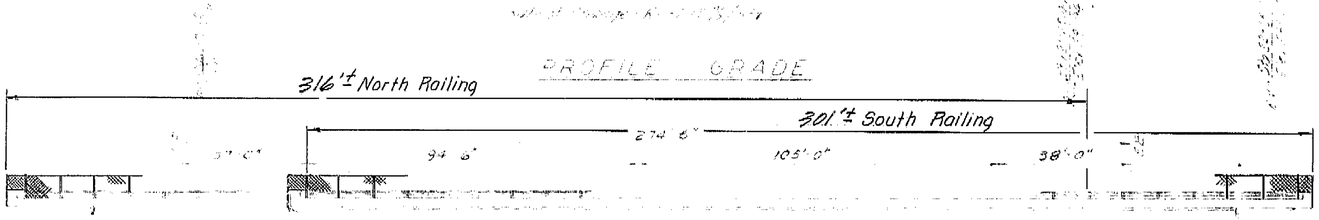
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	19.2/21.8	4	9

BRIDGE ENGINEER ..... REGISTERED CIVIL ENGINEER NUMBER 22944

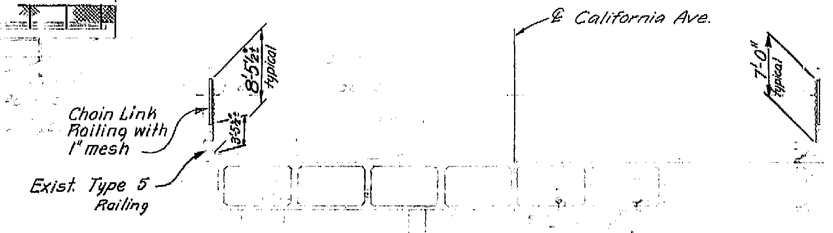
ASSISTANT STATE HIGHWAY ENGINEER ..... REGISTERED CIVIL ENGINEER NUMBER 8389

DATE APPROVED June 25, 1973



ELEVATION

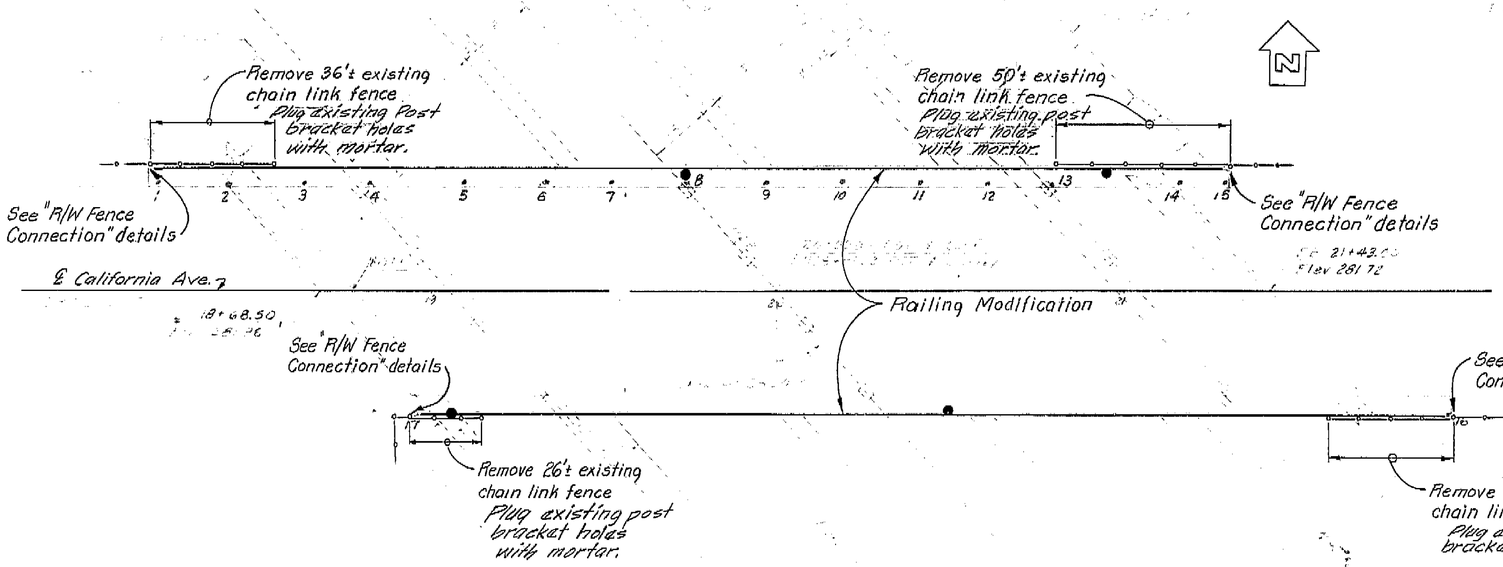
NOTE:
THE CONTRACTOR SHALL VERIFY ALL DEPENDENT DIMENSIONS IN THE FIELD BEFORE ORDERING OR FABRICATING ANY MATERIAL.



TYPICAL SECTION

INDEX TO PLANS

SHEET NO	TITLE
1	GENERAL PLAN
2	CHAIN LINK RAILING DETAILS



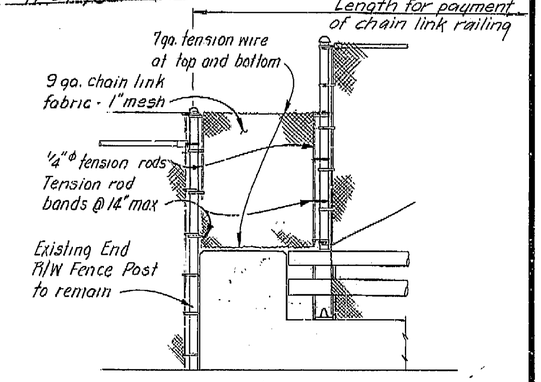
PLAN

APPROXIMATE QUANTITIES

REMOVE CHAIN LINK FENCE	148 LF
MODIFY BRIDGE RAILING (LOCATION B)	~~537~~ 614.3 LF

● Indicates location of existing electrolier

AS BUILT
CORRECTIONS BY F.W. Dowly Mgr
CONTRACT NO. 06-125704
DATE 11-29-73



R/W FENCE CONNECTION

BRIDGE DEPARTMENT
DESIGN SECTION 13
Section Supervisor G. Sparkes
Project Engineer Maurice N. Pohll

DESIGN	By M. Pohll	7-72	Checked T.A. Hanson 9/72
DETAILS	By M. Pohll	7-72	Checked T.A. Hanson 9/72
LAYOUT	By M. Pohll	7-72	Checked T.A. Hanson 9/72
QUANTITIES	By M. Pohll	7-72	Checked T.A. Hanson 9/72
SPECIFICATIONS	By Don R. Mowbray 9/72		Plans and Reports Compared DRM 9-72

Approval Recommended by E.C. Cassano (Design Engineer) Registered Civil Engr. License No. 8919

STATE OF CALIFORNIA
BUSINESS AND TRANSPORTATION AGENCY
DEPARTMENT OF TRANSPORTATION

CALIFORNIA AVENUE OVERCROSSING
RAILING MODIFICATION
GENERAL PLAN

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-217	19.80		1	2

Disregard prints bearing earlier numbers → PREL. DRAWING No. P- 9/29/72

WO 125701
CU 06351

AS BUILT PLANS
Contract No. 06-125704
Date Completed
Document No. 6000 6552

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DATE 6/23/25 SIGNATURE Dick Mathews TITLE Microfilm Supervisor

MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF TRANSPORTATION – MICROFILM
SCALE 1"= 50' SCALE 1"= 10' or 1"= 100' SCALE 1"= 20' SCALE 1"= 40'

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DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	19.7/21.8	6	9

RESIDENT ENGINEER — REGISTERED CIVIL ENGINEER NUMBER 8980

ASSISTANT STATE HIGHWAY ENGINEER — REGISTERED CIVIL ENGINEER NUMBER 8980

DATE APPROVED June 25, 1973

BRIDGE DEPARTMENT

PROFILE GRADE

191'± West Railing

190'± East Railing

Face of PN

Face of PN

60-1½"

60-1½"

124'-3"

2-2⅝"

Datum Elev. 250.0'

DETAIL A
Scale: None

ELEVATION
Scale 1"=2"

⅜" ϕ hex head bolt with lock washer & plain washer

1"x½" slotted hole in top L

L 3½x2½x¼x0'-2"

℄ Post

1½"

L 3x2½x¼

¼" Min

3"

¼" ϕ hex-head self-tapping screws with lock washers

T.S. 3"x2"x.1875 post

SECTION B-B
Scale: None

Signs mounted by Drilling & Tapping Posts

Note: ~~Signs to be mounted by straps & Saddle Bracket method, see Std. Plans Sheet 5A4 &~~

Sign Panels

See Detail A

See Detail A

2"

T.S. 3"x2"x.1875 Post

Chain Link Railing

Existing Steel Railing

Existing Steel Railing

Top of Sidewalk

Top of Sidewalk

Total 2 each

Total 2 each

DETAILS FOR MOUNTING SIGNS ABOVE CHAIN LINK RAILING
Scale: None

℄ Thorne Ave.

50'-0" Roadway

8'-0" typical

Profile grade

-1.5%

-5%

Type F curb

Chain Link Railing with 1" mesh

Existing Steel railing

TYPICAL SECTION
Scale 1"=10'

Paving Notch

End Chain Link Railing at existing steel railing post

16'-6"±

Clearance Lines

Edge of pavement

Future

To Modesto

4+37.72 PN
El 287.13

147+36.53 FRWH
5+00.00 Thorne Ave.

287.225

Face of abutment

℄ Thorne Ave.

N 0° 32' 30" W

Railing Modification

Existing electrolier at end of wingwall

Skew

5+62.28 PN
El 286.93

286.96

End Chain Link Railing at existing steel railing post

16'-6"±

Paving Notch

PLAN
Scale 1"=20'

= Remove existing signs & posts. Salvage and install signs on extended chain link railing post.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL DEPENDENT DIMENSIONS IN THE FIELD BEFORE ORDERING OR FABRICATING ANY MATERIAL.

INDEX TO PLANS

SHEET NO	TITLE
1	GENERAL PLAN
2	CHAIN LINK RAILING DETAILS

AS BUILT
CORRECTIONS BY F.W. Dowling
CONTRACT NO. 06-125704
DATE 12-18-73

APPROXIMATE QUANTITIES

REMOVE ROADSIDE SIGN	4 EA
MODIFY BRIDGE RAILING (LOCATION D)	38 LF
INSTALL SIGN (STRAP AND SADDLE BRACKET METHOD)	8 EA

BRIDGE DEPARTMENT
*** DESIGN SECTION *** 13
Section Supervisor: L. Hazlett
Project Engineer: Marlen M. Pohll

DESIGN	M. Pohll 7-72	Checked	T.A. Hanson 9/72
DETAILS	M. Pohll 7-72	Checked	T.A. Hanson 9/72
LAYOUT	M. Pohll 7-72	Checked	T.A. Hanson 9/72
QUANTITIES	M. Pohll 9-72	Checked	T.A. Hanson 9/72
SPECIFICATIONS	D. A. Moulton 9-72	Plans and Reports Compared	DRM 9-72

Approval Recommended by: P.C. Crandall, Duties Engineer — Registered Civil Engr. License No. 8013

STATE OF CALIFORNIA
BUSINESS AND TRANSPORTATION AGENCY
DEPARTMENT OF TRANSPORTATION

THORNE AVENUE OVERCROSSING

RAILING MODIFICATION

GENERAL PLAN

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-185	21.70		1	2

Disregard prints bearing earlier revision numbers.

No.	By	Date
1		9/73

WO 125701
CU 06351

AS BUILT PLANS
Contract No. 06-125704
Date Completed
Document No. 60006552

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 6/23/75 SIGNATURE Dick Meadows TITLE Microfilm Supervisor

MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF TRANSPORTATION – MICROFILM
SCALE 1"= 50' / SCALE 1"= 20' / SCALE 1"= 10' or 1"= 100' / SCALE 1"= 40'

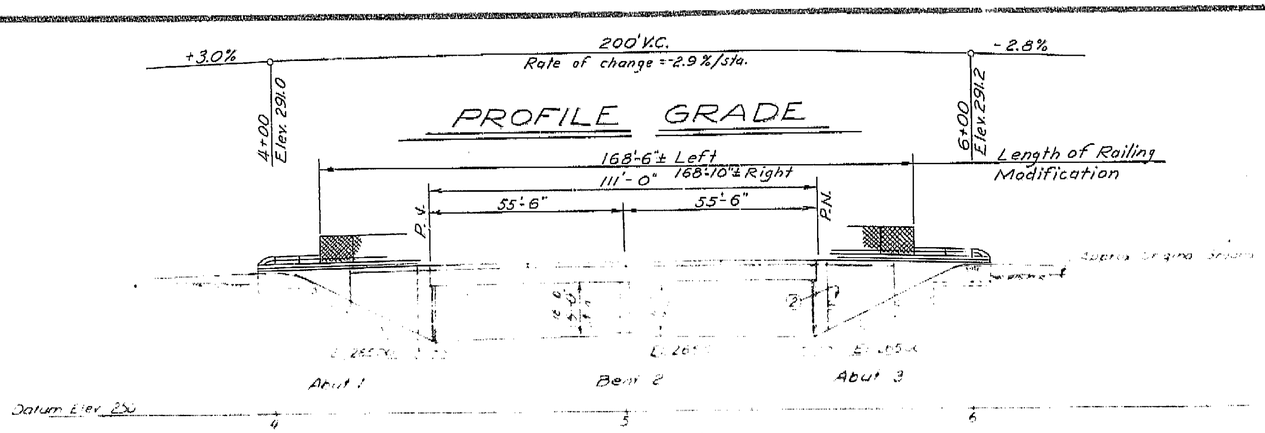
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DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	19.2 / 21.8	8	9

BRIDGE ENGINEER — REGISTERED CIVIL ENGINEER NUMBER 9595

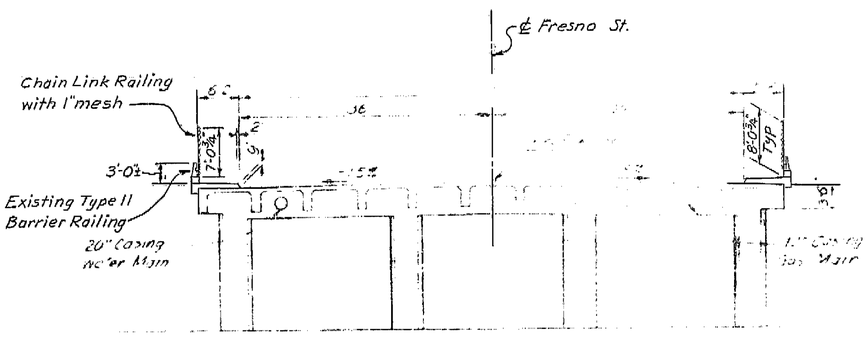
ASSISTANT STATE HIGHWAY ENGINEER — REGISTERED CIVIL ENGINEER NUMBER 8340

DATE APPROVED June 25, 1973



ELEVATION

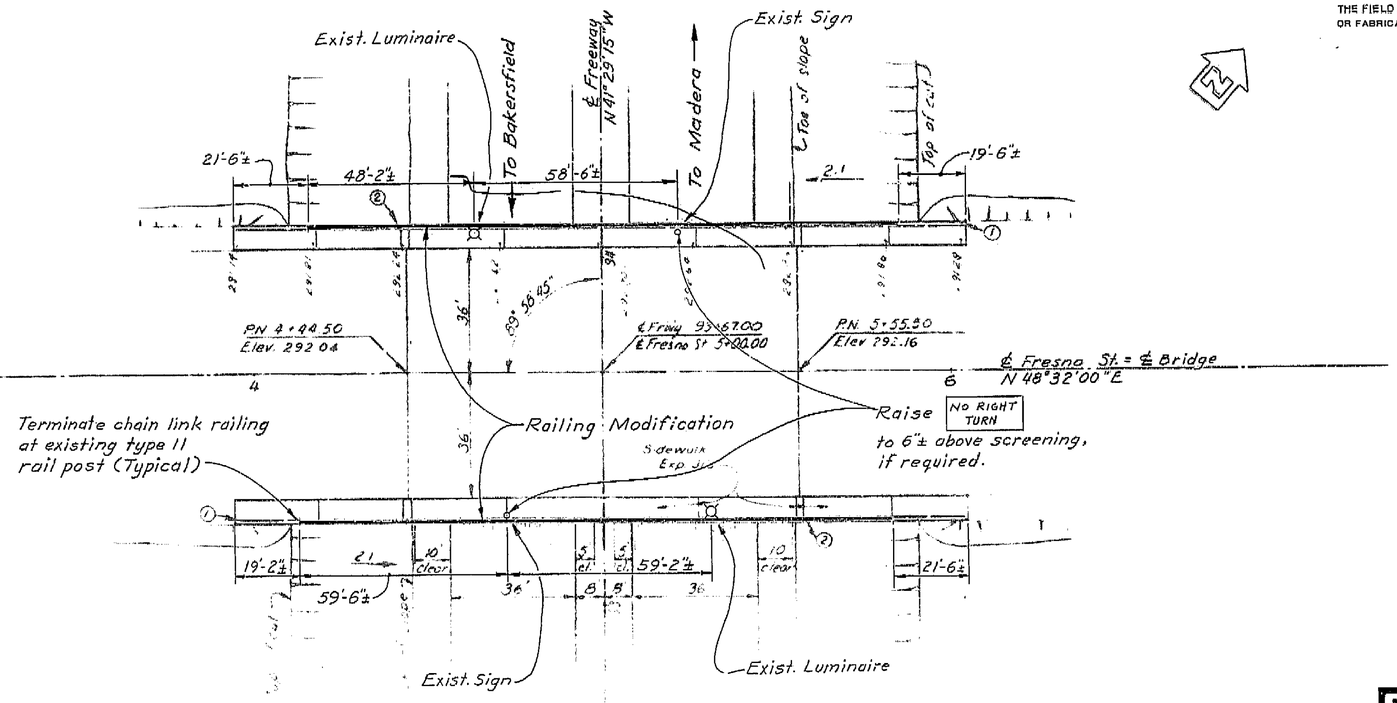
1"=20'



NOTE:
THE CONTRACTOR SHALL VERIFY ALL DEPENDENT DIMENSIONS IN THE FIELD BEFORE ORDERING OR FABRICATING ANY MATERIAL.

TYPICAL SECTION

1"=10'



PLAN

1"=20'

INDEX TO PLANS

Sheet No.	Title
1	General Plan
2	Chain Link Railing Details

AS BUILT
CORRECTIONS BY F.W. Dowling
CONTRACT NO. 06-125704
DATE 11-29-73

APPROXIMATE QUANTITY
MODIFY BRIDGE RAILING (LOCATION ℄) 334 LF

BRIDGE DEPARTMENT
DESIGN SECTION 13
Section Supervisor: L.C. Sinclair
Project Engineer: Martin N. Hall

DESIGN	By M. Pohll 11-72	Checked	B. Cochran 11/72
DETAILS	By PARTIN 11-72	Checked	B. Cochran 11/72
LAYOUT	By PARTIN 11-72	Checked	B. Cochran 11/72
QUANTITIES	By PARTIN 11-72	Checked	B. Cochran 11/72
SPECIFICATIONS	By [illegible] 11/72	Plans and Specs Compared	DRM

Approval Recommended by R.C. Cassano, Design Engineer — Registered Civil Engr. License No. [illegible]

STATE OF CALIFORNIA
BUSINESS AND TRANSPORTATION AGENCY
DEPARTMENT OF TRANSPORTATION

FRESNO STREET OVERCROSSING
RAILING MODIFICATION

GENERAL PLAN

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-170	20.73		1	2

Disregard prints bearing earlier revision dates — 11/1/72

AS BUILT PLANS
Contract No. 06-125704
Date Completed
Document No. 6000 6552

WO 125701
CU 06351

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 6/23/75 — SIGNATURE Dick Meadows — TITLE Microfilm Supervisor

MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF TRANSPORTATION – MICROFILM
SCALE 1"= 50' / SCALE 1"= 50'
SCALE 1"= 20' / SCALE 1"= 20'
SCALE 1"= 10' or 1"= 100' / SCALE 1"= 10' or 1"= 100'
SCALE 1"= 40' / SCALE 1"= 40'

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Dist	County	Route	Post Miles	Sheet No	Total Sheets
06	FRE	99	19.2/21.8	1	9

R H Ramsey
DISTRICT DIRECTOR OF TRANSPORTATION
REGISTERED CIVIL ENGINEER NO 10644

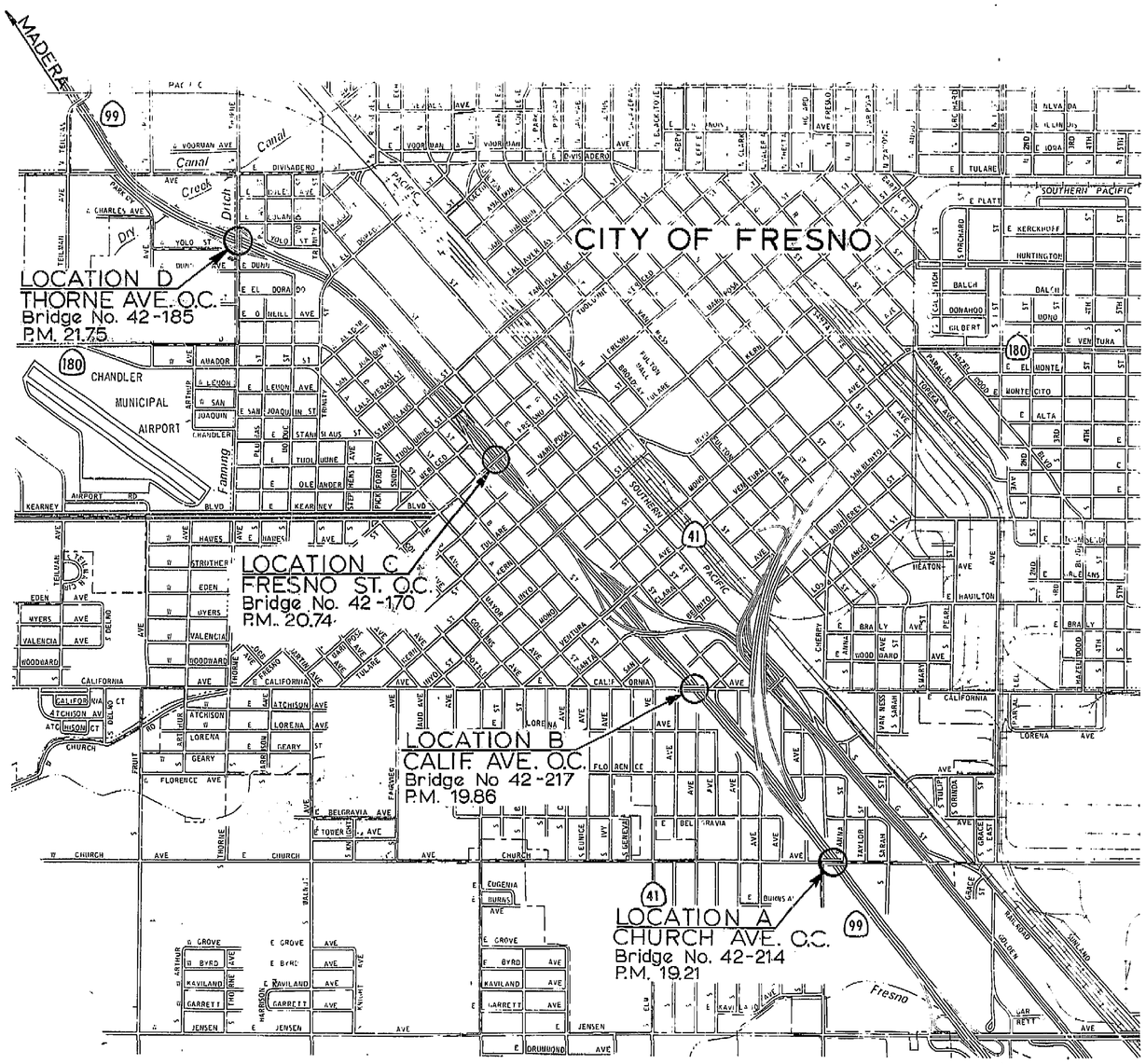
DATE APPROVED June 25, 1973

INDEX OF SHEETS

SHEET NO. 1 TITLE SHEET
" " 2-3 CHURCH AVE. O.C. BR. NO. 42-214
" " 4-5 CALIFORNIA AVE. O.C. BR. NO. 42-217
" " 6-7 THORNE AVE. O.C. BR. NO. 42-185
" " 8-9 FRESNO STREET O.C. BR. NO. 42-170

APPLICABLE STANDARD PLANS

S44-6



LOCATION MAP

0 1 2 3 4 5 6

Scale, in thousands of feet.

AS BUILT PLANS
Contract No. 06-125704
Date Completed
Document No. 6000 6552

NO AS BUILT
CORRECTIONS BY: FW Dowling
CONTRACT NO. 06-125704
DATE 11-29-73

STATE OF CALIFORNIA
BUSINESS AND TRANSPORTATION AGENCY
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

IN FRESNO COUNTY IN FRESNO
AT VARIOUS LOCATIONS
FROM CHURCH AVENUE OVERCROSSING
TO THORNE AVENUE OVERCROSSING

to be supplemented by Standard Plans dated January, 1973

Contract No. 06-125704

Recommended by	Date	Design Engineer	Date	Prepared by	Date
[signature]	10/72	[signature]	9/72	[signature]	9/72

06351 125701

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 6/23/75 SIGNATURE Dick Meadows TITLE Microfilm Supervisor

SCALE 1"= 50' MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF TRANSPORTATION – MICROFILM
SCALE 1"= 10' or 1"= 100' MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF TRANSPORTATION – MICROFILM
SCALE 1"= 20' MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF TRANSPORTATION – MICROFILM
SCALE 1"= 40' MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF TRANSPORTATION – MICROFILM

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DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	19.2/21.5	2	9

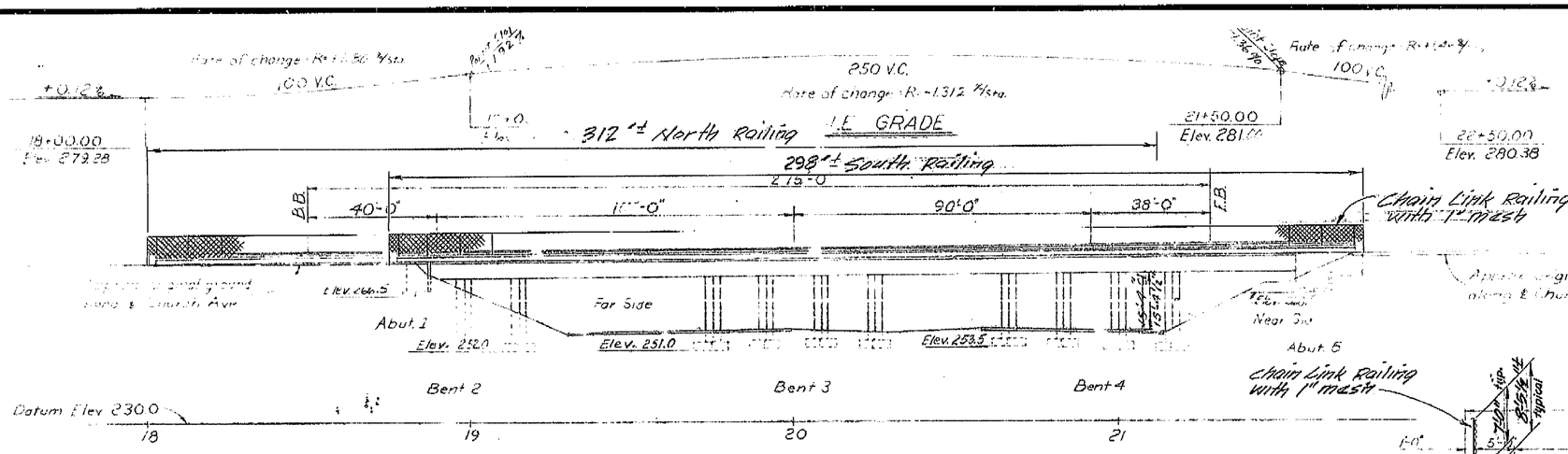
BRIDGE ENGINEER — REGISTERED CIVIL ENGINEER NUMBER 8585

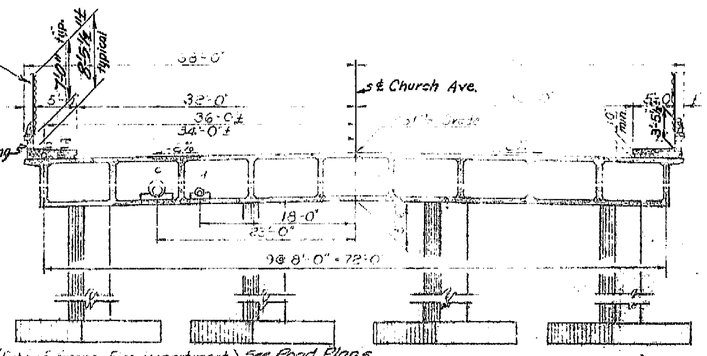
ASSISTANT STATE HIGHWAY ENGINEER — REGISTERED CIVIL ENGINEER NUMBER 8580

DATE APPROVED: June 25, 1973

INDEX TO PLANS

SHEET NO.	TITLE
1	GENERAL PLAN
2	CHAIN LINK RAILING DETAILS

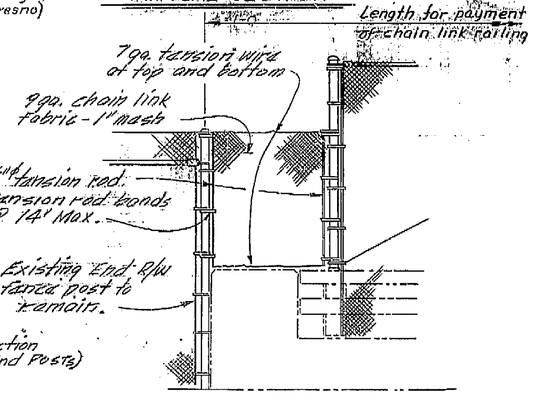




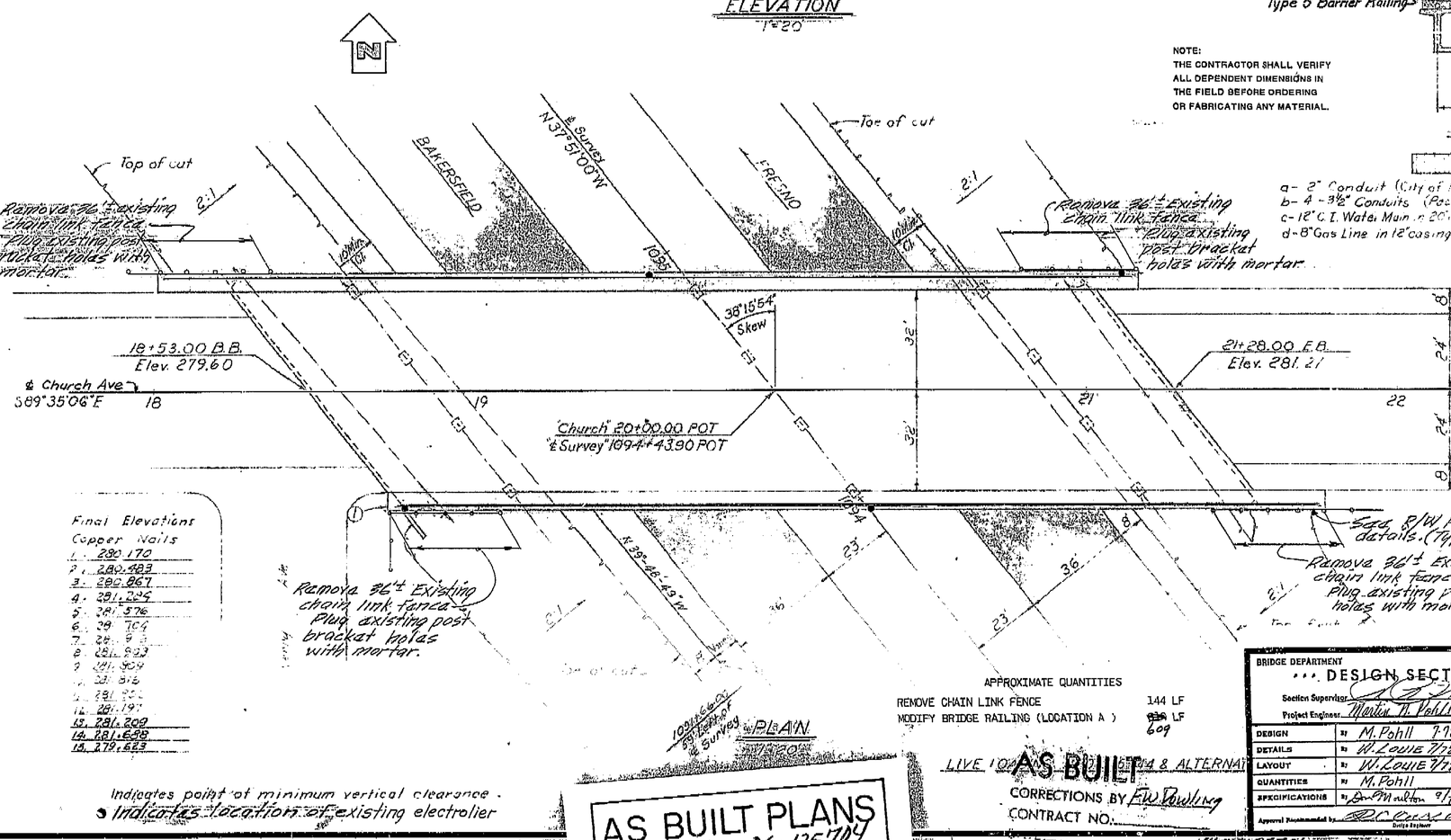
NOTE:
THE CONTRACTOR SHALL VERIFY ALL DEPENDENT DIMENSIONS IN THE FIELD BEFORE ORDERING OR FABRICATING ANY MATERIAL.

a- 2" Conduit (City of Fresno Fire Department) See Road Plans.
b- 4 - 3½" Conduits (Pacific Telephone & Telegraph Co.)
c- 12" C.I. Water Main in 20" casing (City of Fresno)
d- 8" Gas Line in 12" casing (PG&E)

TYPICAL SECTION



R/W FENCE CONNECTION



Final Elevations
Copper Nails

1.	280.170
2.	280.483
3.	280.867
4.	281.229
5.	281.576
6.	28[illegible]
7.	28[illegible]
8.	28[illegible]
9.	28[illegible]
10.	28[illegible]
11.	28[illegible]
12.	28[illegible]
13.	281.209
14.	281.498
15.	279.623

Indicates point of minimum vertical clearance.
Indicates location of existing electrolier

1094+66.01 = 39'± East of ℄ Survey "PLAN" N 39°48'43" W

APPROXIMATE QUANTITIES

REMOVE CHAIN LINK FENCE	144 LF
MODIFY BRIDGE RAILING (LOCATION A)	~~650~~ LF 609

LIVE LOAD [illegible] & ALTERNAT[illegible]

AS BUILT
CORRECTIONS BY F.W. Bowling
CONTRACT NO.:

AS BUILT PLANS
Contract No. 06-125704
Date Completed
Document No. 6000 6552

WO 125701
CU 06351

BRIDGE DEPARTMENT — DESIGN SECTION ... 13
Section Supervisor: [illegible]
Project Engineer: Martin N. Pohll

DESIGN	By M. Pohll 7-72	Checked	T.A. Hanson 9/72
DETAILS	By W. Louie 7/72	Checked	T.A. Hanson 9/72
LAYOUT	By W. Louie 7/72	Checked	T.A. Hanson 9/72
QUANTITIES	By M. Pohll	Checked	T.A. Hanson 9/72
SPECIFICATIONS	By [illegible] 9/72	Plans and Estimate Completed	[illegible] 9/72

Approved Recommended by: [illegible] Design Engineer — Registered Civil Engr. License No. [illegible]

STATE OF CALIFORNIA
BUSINESS AND TRANSPORTATION AGENCY
DEPARTMENT OF TRANSPORTATION

CHURCH AVENUE OVERCROSSING

RAILING MODIFICATION

GENERAL PLAN

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-214	19.2	1.	2.	9

Disregard prints bearing earlier numbers

PREL. DRAWING No. P- 7/31/72 8/24/72 9/19

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

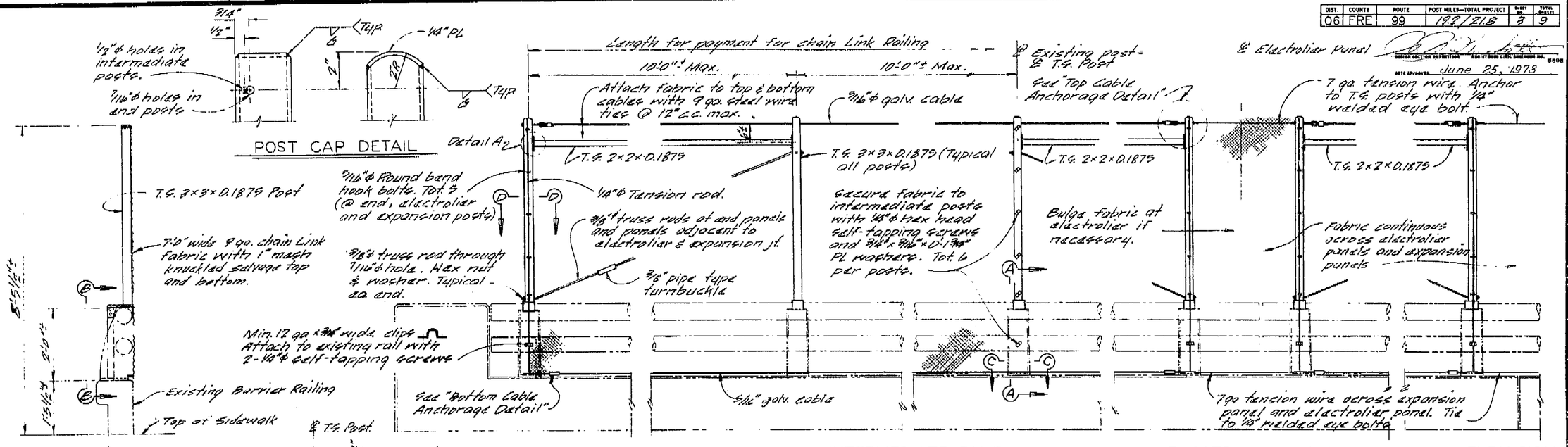
DATE 6/23/75 SIGNATURE Dick Mendenhall TITLE Microfilm Supervisor



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DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	FRE	99	19.2 / 21.8	2	9

DESIGN SECTION DEFINITIONS — REGISTERED CIVIL ENGINEER — DATE APPROVED: June 25, 1973



No AS BUILT CORRECTIONS BY F.W. Powell Mfg
CONTRACT NO. 06-125704
DATE 11-29-73

BRIDGE DEPARTMENT
DESIGN SECTION 13
Project Engineer: Martin N. Pohll

DESIGN	by M. Pohll	8-72
	Checked by [illegible]	7/72
DETAILS	by W. Louie	8/72
	Checked by B. COCHRAN	9/72
QUANTITIES	by M. Pohll	9-72
	Checked by T. A. Howson	9/72

STATE OF CALIFORNIA
BUSINESS AND TRANSPORTATION AGENCY
DEPARTMENT OF TRANSPORTATION

CHURCH AVENUE OVERCROSSING RAILING MODIFICATION

CHAIN LINK RAILING DETAILS

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-214	19.2		2	2

Disregard prints bearing earlier revision dates

REVISION DATES (PRELIMINARY STAGE ONLY)								
8/8/72	BN	9/21/72						

4 WO 125701 CU 06351

AS BUILT PLANS
Contract No. 06-125704
Date Completed
Document No. 6000 6552

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.
DATE 6/23/95 SIGNATURE [signature] TITLE Microfilm Supervisor

MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF TRANSPORTATION – MICROFILM
SCALE 1"= 50' / SCALE 1"= 20' / SCALE 1"= 10' or 1"= 100' / SCALE 1"= 40'

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DIST	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	Sheet No.	Total Sheets
06	FRE	99	19.2/21.8	5	9

POST CAP DETAIL

TYPICAL SECTION

END PANEL

INTERMEDIATE PANEL

ELECTROLIER PANEL

EXPANSION PANEL

ELEVATION

DETAIL A

SECTION A-A

SECTION B-B

SECTION C-C

SECTION D-D

TOP CABLE ANCHORAGE DETAIL

BOTTOM CABLE ANCHORAGE DETAIL

PLAN

Length for payment for chain Link Railing

10'-0"± Max.

10'-0"± Max.

Detail A2

Existing Barrier Railing

℄ Top of Sidewalk

℄ T.G. Post

℄ Existing Post= ℄ T.G. Post

℄ Electrolier typical

Notes:

1. Railing assembly except chain link fabric to be galvanized after fabrication.
2. Where railing is on slope, chain link fabric shall be placed parallel to slope.
3. Post extensions and chain link fabric shall conform to horizontal and vertical alignment. Post extensions shall be vertical. Horizontal pipes shall be bent if radius is 150 ft. or less and may be on 10 ft chords if radius is over 150 ft.
4. Peen all exposed bolts
5. Provide thimbles at all cable loops.
6. Existing structure shown thus: ——·——·——
7. Alternative details may be submitted by Contractor for Engineers approval.

Recommended for approval: June 25, 1973

AS BUILT
CORRECTIONS BY F.W. Dowling
CONTRACT NO. 06-125704
DATE 11-28-73

AS BUILT PLANS
Contract No. 06-125704
Date Completed
Document No. 60006552

BRIDGE DEPARTMENT
DESIGN SECTION 13
Project Engineer Martin N. Pohll

DESIGN	by M. Pohll	8-72
	Checked B. SACHRAN	9/72
DETAILS	by W. Louie	8/73
	Checked B. SACHRAN	9/72
QUANTITIES	by M. Pohll	9-72
	Checked T.A. Hansen	9/72

STATE OF CALIFORNIA
BUSINESS AND TRANSPORTATION AGENCY
DEPARTMENT OF TRANSPORTATION

CALIFORNIA AVENUE OVERCROSSING RAILING MODIFICATION

CHAIN LINK RAILING DETAILS

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-217	19.80		2	2

WO 125701
CU 06351

REVISION DATES (PRELIMINARY STAGE ONLY)
8/16/72 9/21/72

Disregard prints bearing earlier revision dates

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

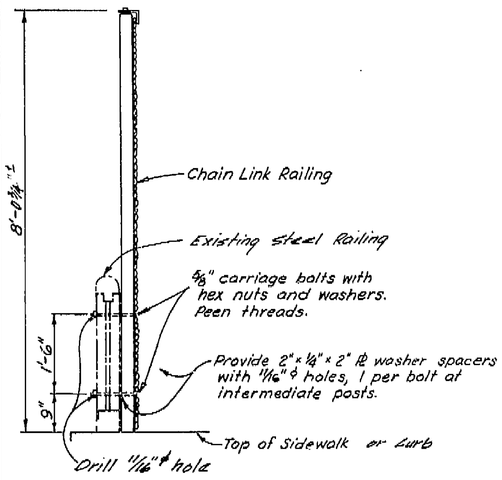
DATE 6/23/75 SIGNATURE Rick Meadows TITLE Microfilm Supervisor

MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF TRANSPORTATION – MICROFILM
SCALE 1"= 50' SCALE 1"= 20' SCALE 1"= 10' or 1"= 100' SCALE 1"= 40'
ClibPDF - www.fastio.com

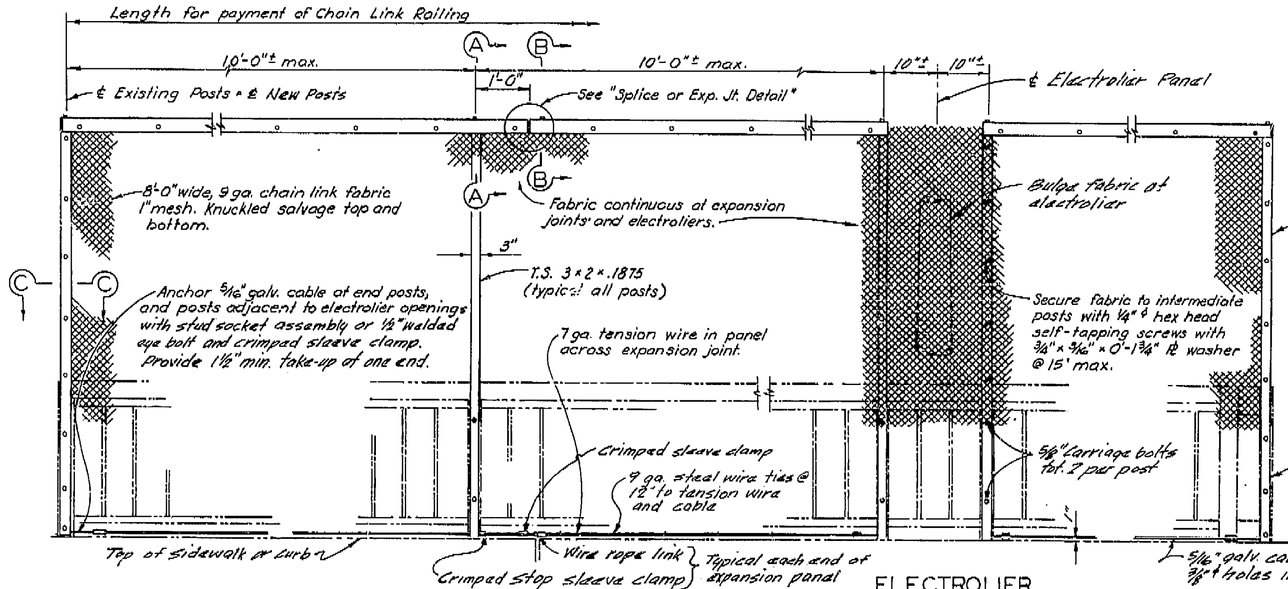
DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	FRE	99	19.2/21.8	7	9

DESIGN SECTION SUPERVISOR — REGISTERED CIVIL ENGINEER No. 8088

DATE APPROVED: June 25, 1973



TYPICAL SECTION



SINGLE END POST — DECK OR WALL JOINT — ELECTROLIER PANEL — DOUBLE END POST

ELEVATION

Details for future and existing electrolier similar.

NO AS BUILT

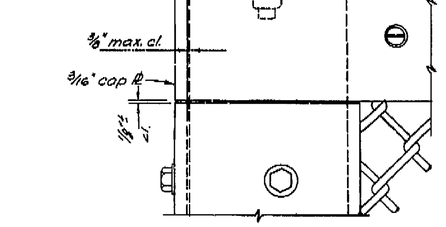
CORRECTIONS BY: EW Dowling

CONTRACT NO. 06-125704

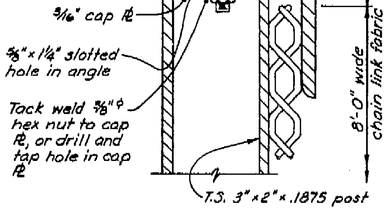
DATE 11-20-73

NOTES:

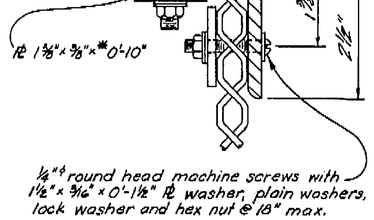
1. Railing assembly except chain link fabric to be galvanized after fabrication.
2. Posts shall be vertical.
3. Railing shall conform to horizontal and vertical alignment. Horizontal angle shall be bent to conform to horizontal alignment if radius is 150 ft. or less and may be on 10 ft. chords if radius is over 150 ft.
4. Horizontal angle shall be continuous over not less than two intermediate posts, except that a shorter length is permitted at expansion joints, electroliers and other rail discontinuities.
5. When rail is on slope, place fabric parallel to slope.
6. Alternative details may be submitted by Contractor for Engineer's approval.
7. Provide thimbles at all cable loops.
8. The Contractor shall verify all dependent dimensions in the field before ordering or fabricating any material.
9. When railing is placed on a curved horizontal alignment with radius of 150 ft. or less, thread 5/16" cable through 3/8"ϕ welded eye bolts set in epoxy adhesive in ½"ϕ x 3" deep drilled holes in concrete curb or sidewalk equally spaced to limit the midordinate distance between the 5/16" cable and the curve to 1" max.



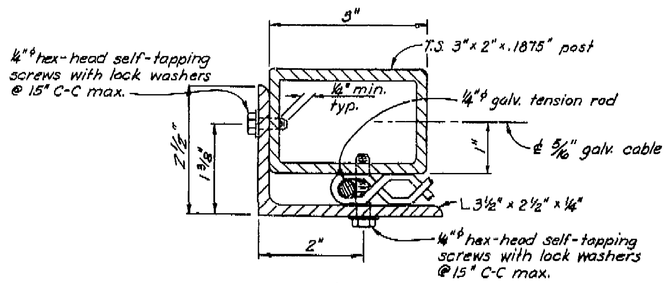
END POST ELEVATION



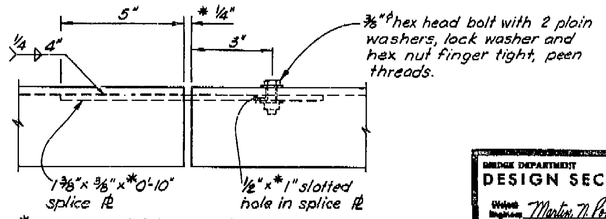
SECTION A-A



SECTION B-B



SECTION C-C



* Expansion joint same dimension as expansion joint in deck or wall. Increase slotted hole length and splice ℓ length correspondingly.

SPLICE OR EXPANSION JOINT DETAIL

AS BUILT PLANS
Contract No. 06-125704
Date Completed
Document No. 6200 6552

BRIDGE DEPARTMENT			
DESIGN SECTION 13			
Orig. Engineer: Martin N. Pohll			
DESIGN	by	M. Pohll	7-72
	checked	E Lee	8-72
DETAILS	by	W L'ouie	7-72
	checked	E Lee	8-72
QUANTITIES	by	M. Pohll	9-72
	checked	T.A. Hanson	9/72

STATE OF CALIFORNIA
BUSINESS AND TRANSPORTATION AGENCY
DEPARTMENT OF TRANSPORTATION

THORNE AVENUE OVERCROSSING RAILING MODIFICATION

CHAIN LINK RAILING DETAILS

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-185	21.70		2	2

REVISION DATES (PRELIMINARY STAGE ONLY): 8/24/72 9/21/72

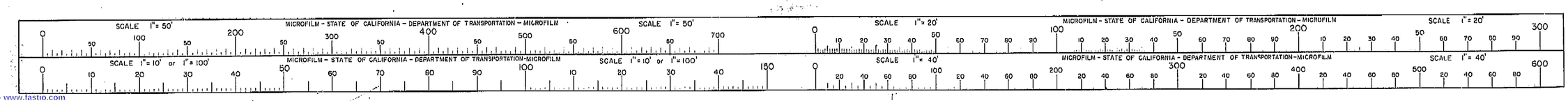
Disregard prints bearing earlier revision dates →

ORIGINAL SCALE IN INCHES

WO 125701
CU 06391

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 6/23/95 SIGNATURE [illegible] TITLE Microfilm Supervisor

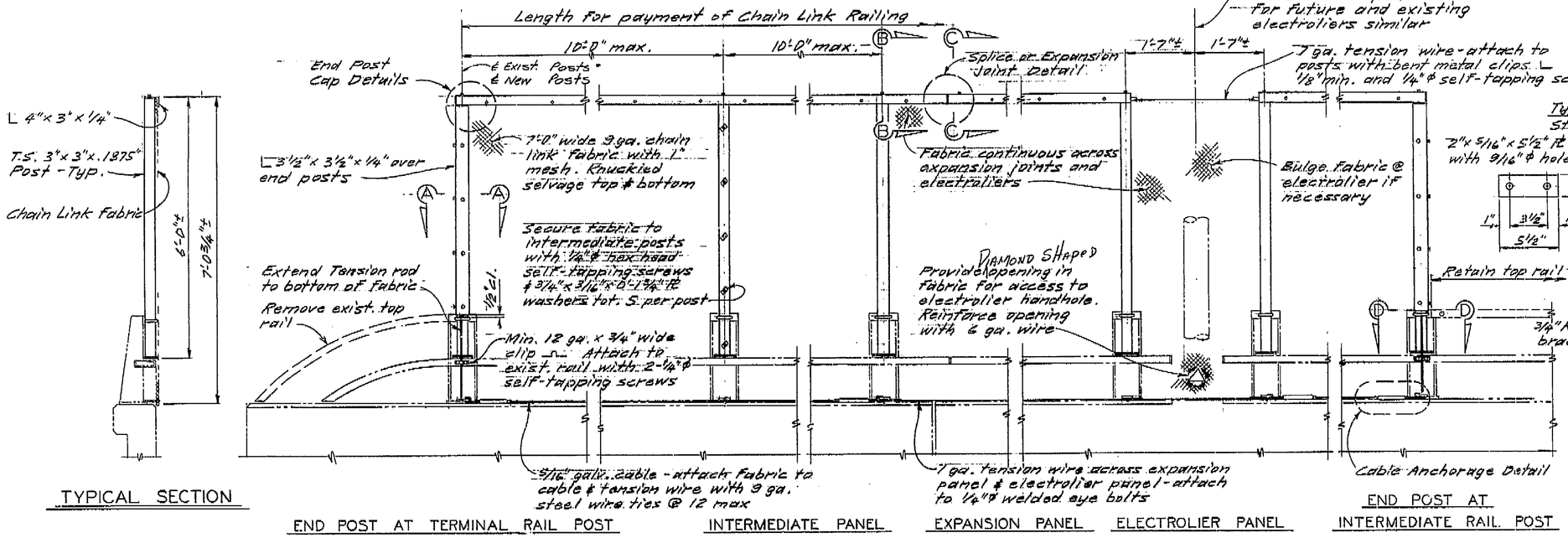


ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	19.2/21.8	9	9

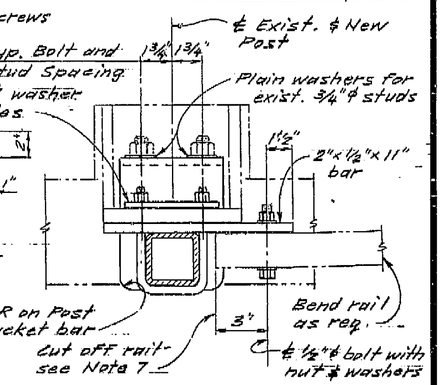
DESIGN SECTION SUPERVISOR — REGISTERED CIVIL ENGINEER NO.

DATE APPROVED June 25, 1973

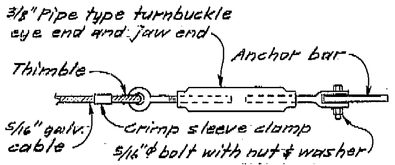


TYPICAL SECTION

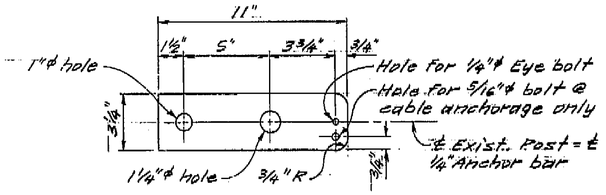
END POST AT TERMINAL RAIL POST | INTERMEDIATE PANEL | EXPANSION PANEL | ELECTROLIER PANEL | END POST AT INTERMEDIATE RAIL POST



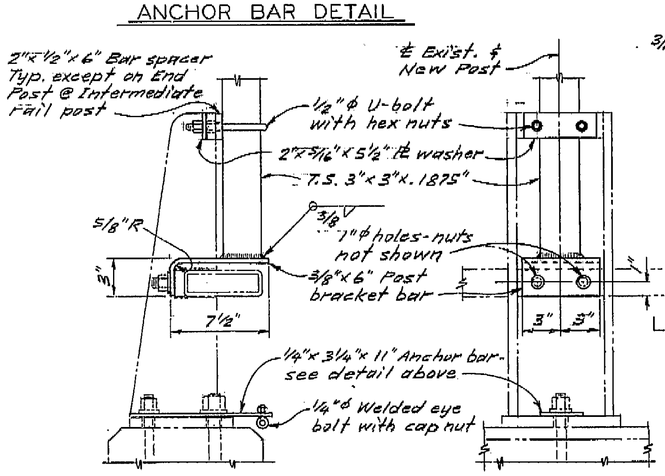
SECTION D-D



CABLE ANCHORAGE DETAIL



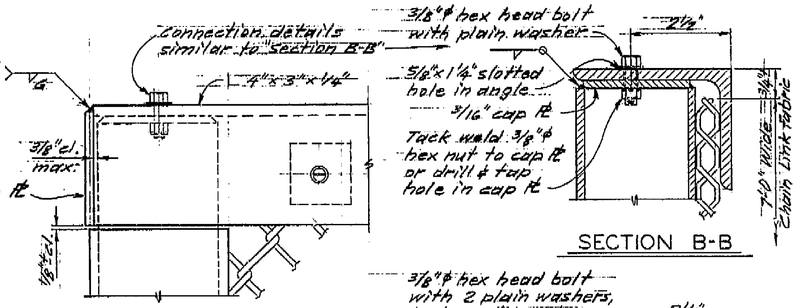
ANCHOR BAR DETAIL



SECTION | REAR ELEVATION

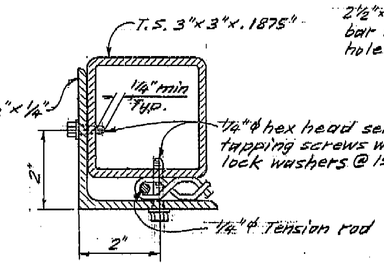
POST ATTACHMENT DETAILS

ELEVATION

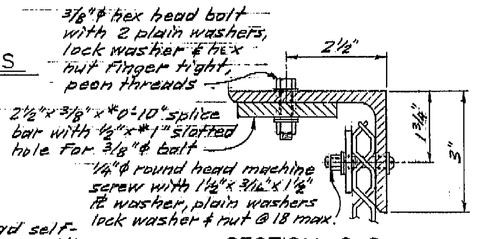


END POST CAP DETAILS

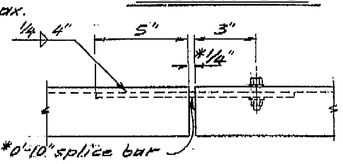
SECTION B-B



SECTION A-A



SECTION C-C



SPLICE OR EXPANSION JOINT DETAIL

NOTES:

1. Railing assembly except chain link fabric to be galvanized after fabrication.
2. Posts shall be vertical.
3. Railing shall conform to horizontal and vertical alignment. Horizontal angle shall be bent to conform to horizontal alignment if radius is 150 ft. or less.
4. Horizontal angle shall be continuous over not less than two intermediate posts, except that a shorter length is permitted at expansion joints, electroliers and other rail discontinuities.
5. When railing is on slope, place fabric parallel to slope.
6. Alternative details may be submitted by contractor for Engineer's approval.
7. Grind cut end of tube smooth and paint with zinc rich paint.
8. Exist. railing shown thus: ———·——·——

*Expansion joint same dimension as expansion joint in deck or wall. Increase slotted hole length and splice bar length correspondingly.

AS BUILT
CORRECTIONS BY F.W. Dowling
CONTRACT NO. 06-125704
DATE 1-29-73

BRIDGE DEPARTMENT
DESIGN SECTION 13
Project Engineer E Lee

DESIGN	by W. Lewis	3/73
	Checked E Lee	3/73
DETAILS	by K. Endow	3/73
	Checked W. Lewis	3/73
QUANTITIES	by Partin	11/72
	Checked B Cochran	11/72

STATE OF CALIFORNIA
BUSINESS AND TRANSPORTATION AGENCY
DEPARTMENT OF TRANSPORTATION

FRESNO STREET OVERCROSSING
RAILING MODIFICATION

CHAIN LINK RAILING DETAILS

BRIDGE NO.	POST MILE	WO	SHEET	OF
42-170	20.73	CU	2	2

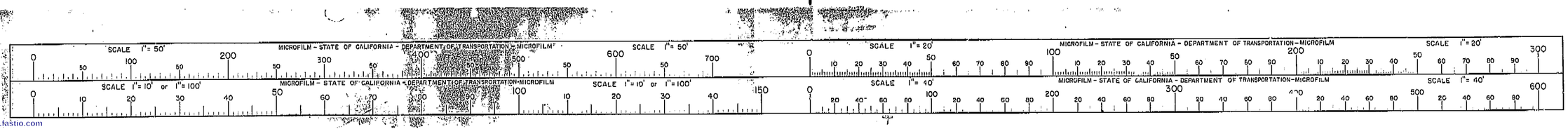
REVISION DATES (PRELIMINARY STAGE ONLY)
Disregard prints bearing earlier revision dates →

9

(11)
Existing Type 9-11 or 11

AS BUILT PLANS
Contract No. 06-125704
Date Completed
Document No. 6000 6552

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.
DATE 6/23/95 DESIGNATED Rick Meadows TITLE Microfilm Supervisor



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VI	Fre	99

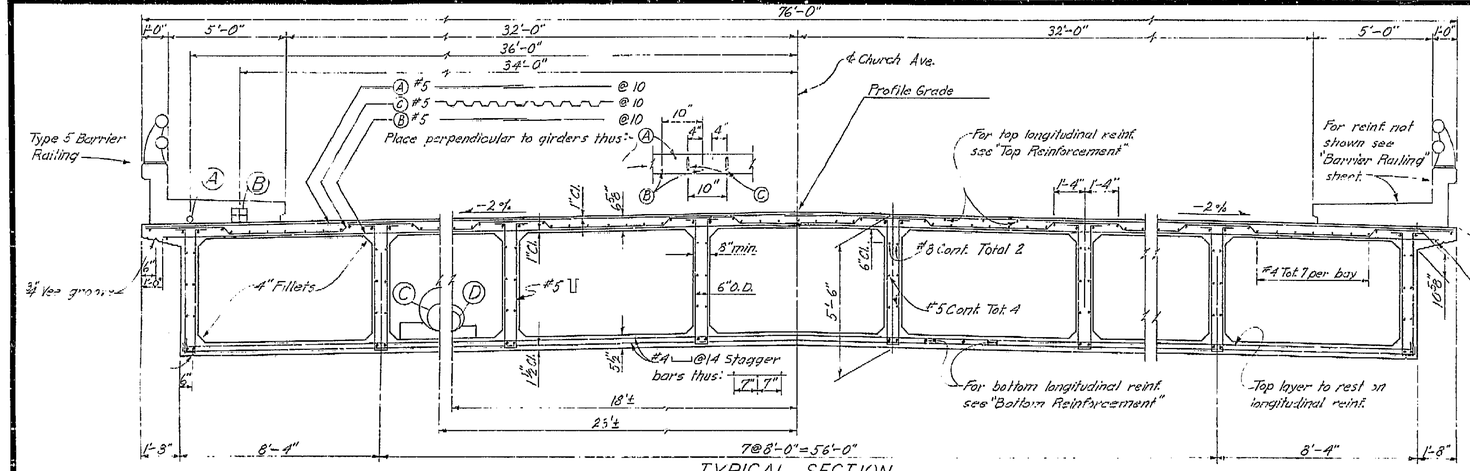
U-006-2(6)
F-006-2(3)

FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.		215	424

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
06	Fre	4	1.8 Eastbound	214	424

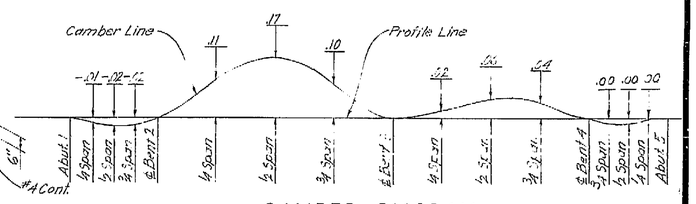
Bridge Engineer — Civil Engineer—Legal Jobs

DATE APPROVED: AUGUST 29 1961



TYPICAL SECTION

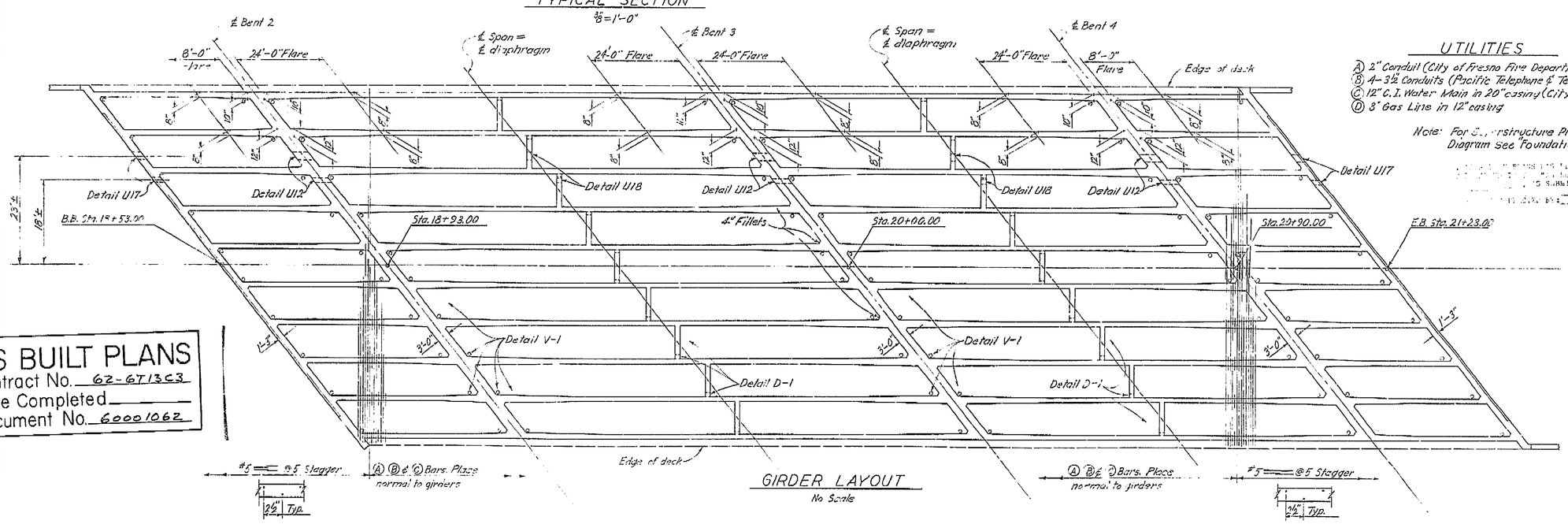
3/8"=1'-0"



CAMBER DIAGRAM

TOTAL GIRDER DEFLECTION DUE TO DEAD LOADS

Note:
The total deflection will be reached about four years after falsework removal. For values at time of falsework removal, divide those shown by 4. The amount of camber for construction will be determined by the Engineer.



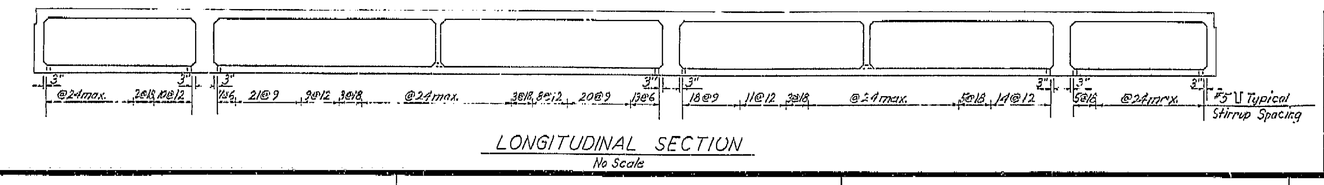
GIRDER LAYOUT

No Scale

UTILITIES

Ⓐ 2" Conduit (City of Fresno Fire Department)
Ⓑ 4–3½ Conduits (Pacific Telephone & Telegraph Co.)
Ⓒ 12" C.I. Water Main in 20" casing (City of Fresno)
Ⓓ 8" Gas Line in 12" casing

Note: For Superstructure Placing Diagram see "Foundation Plan"



LONGITUDINAL SECTION

No Scale

BRIDGE DEPARTMENT			
DESIGN SECTION 2			
Project Designer: Earl Parker			
Chief Designer: W J Burbank			
DESIGN	By: Ray McTee 12/60	Checked: ED Berry 1/60	
DETAILS	By: H.N. Dahl 1960	Checked: ED Berry 1/60	
QUANTITIES	By: D.P. Pollock 1/61	Checked: G.F. Sweeney	
SPECIFICATIONS	By:	Plans and Specs. Checked	
Approval Recommended by: Bridge Engineer — Civil Engr. License No. 8488			

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CHURCH AVENUE OVERCROSSING

TYPICAL SECTION & GIRDER LAYOUT

SCALE As Noted	BRIDGE 42-214	FILE	DRAWING C-42214-7

Disregard prints bearing earlier numbers →

PREL. DRAWING No. P-42214-2 (10/58 12/58 2/59 3/60)

507

215

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-12-73 SIGNATURE [illegible] TITLE [illegible]



ClibPDF - www.fastio.com

VI | Fre | 99

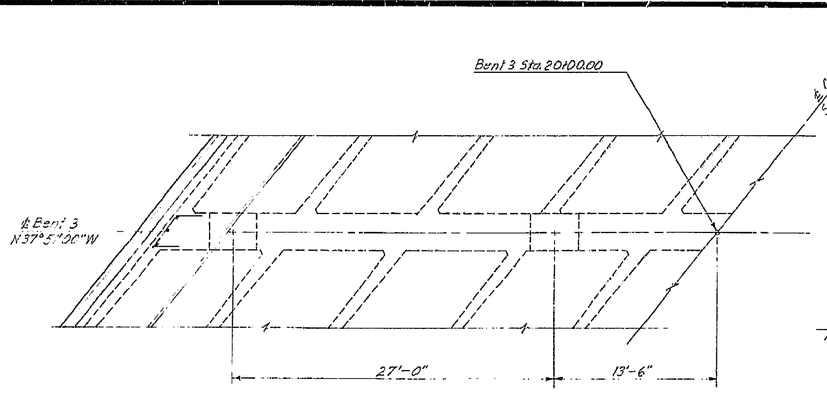
U-006-2(6)
F-006-2(5)

FED. ROAD DIV. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.		274	424

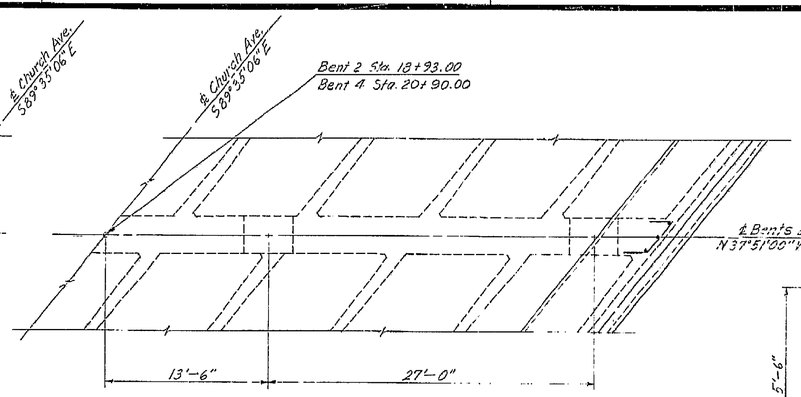
DIST.	COUNTY	ROUTE	SECTION	POST MILES	SHEET NO.	TOTAL SHEETS
11	Fre					

BRIDGE ENGINEER — CIVIL ENGINEER — LICENSE 5585

DATE APPROVED August 29, 1961

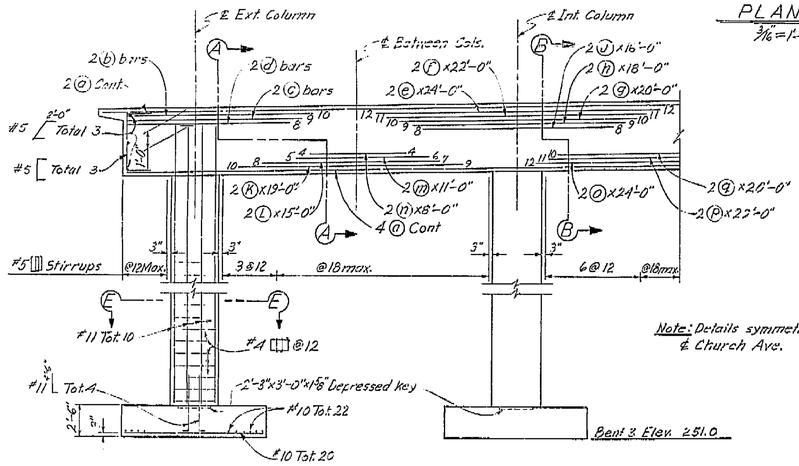


BENT 3



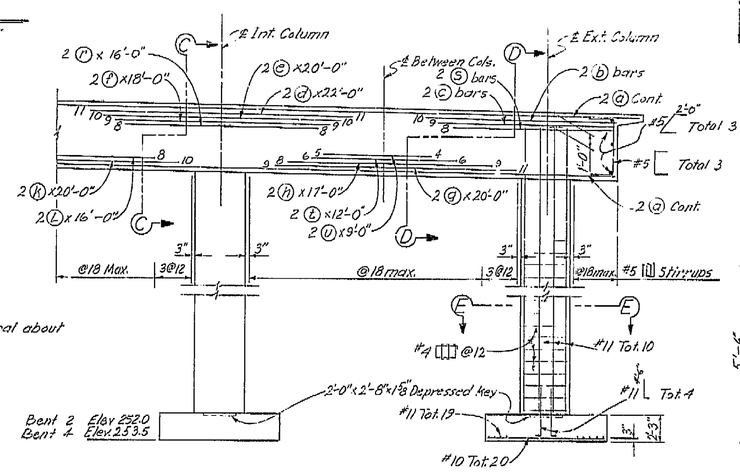
BENTS 2&4

PLAN
3/16"=1'-0"

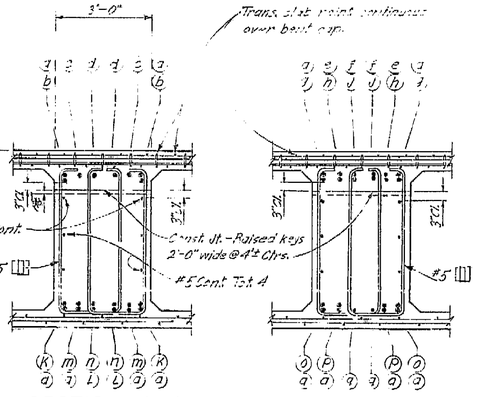


BENT 3

Note: Details symmetrical about ℄ Church Ave.



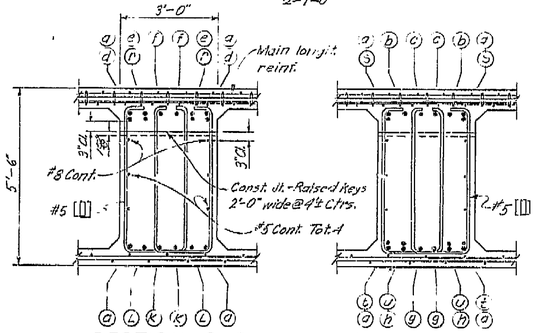
BENTS 2&4



SECTION A-A

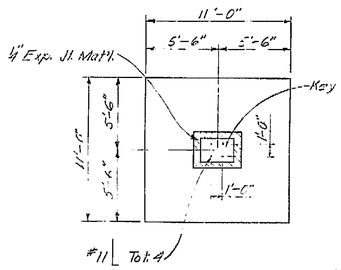
SECTION B-B

BENT 3
½"=1'-0"

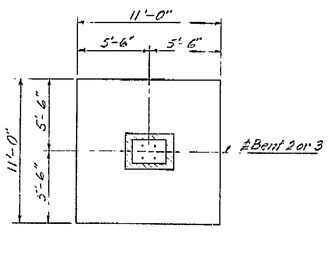


SECTION C-C

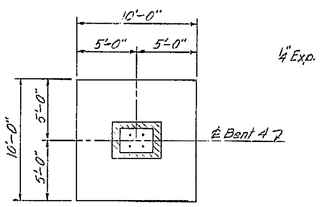
SECTION D-D

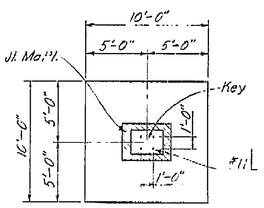


BENT 5



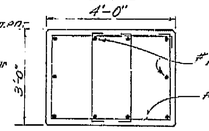
ELEVATION
3/16"=1'-0"





Note: All bars are No. 11 except as noted. Numbers at ends of bars indicate distance in feet from ℄ Column for Top Reinforcement or From ℄ between Columns for Bottom Reinforcement. No splicing of #11 bars permitted near ℄ of Cols for Top reinforcement or near ℄ between Columns for Bottom Reinforcement

BENTS 2&4
½"=1'-0"



SECTION E-E
½"=1'-0"

BENTS 2&4

FOOTING PLAN
3/16"=1'-0"

THIS SET OF PLANS WAS NOT CORRECTED TO ... AS SUBMITTED BY ENGINEER

... AS BUILT" PRINTS ... CORRECTED BY ... DATE ...

BRIDGE DEPARTMENT — DESIGN SECTION 2			
Project Designer: Earl E. Stillman			
Chief Designer: W. Glenbrook			
DESIGN	By Ray McTye 10/60	Checked ED Berry 11/60	
DETAILS	By H.N. Dahl	Checked ED Berry 11/60	
QUANTITIES	By D.P. Pollock 1/61	Checked	
SPECIFICATIONS	By	Place and Form. Detailed	
Approval Recommended by		Civil Engr. License No. 5585	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CHURCH AVENUE OVERCROSSING

BENT DETAILS

SCALE As Noted	BRIDGE 42-214	FILE	DRAWING C-42214-6

Disregard prints bearing earlier numbers → PREL. DRAWING NO. P- 42214-8 | 3/16/61 | 4/6/61 | 5/12

5206

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-12-72 SIGNATURE ... TITLE ...

274

SCALE 1"= 50' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"= 20'
SCALE 1"= 10' or 1"= 100' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"= 40'

ClibPDF - www.fastio.com

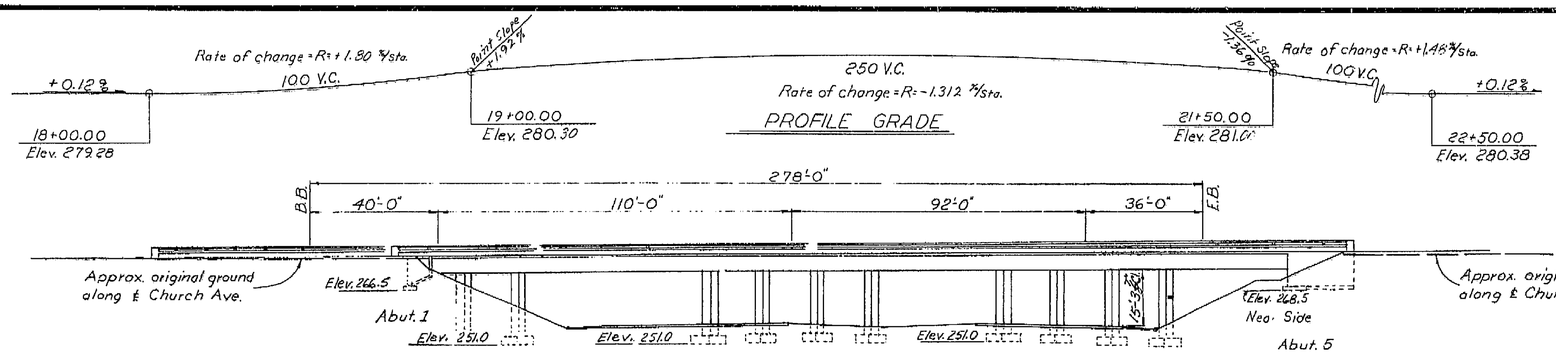
VI | Fre | 99 | U-006-2(6), F-006-2(5)

FED. ROAD DIV. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
7	CALIF.			282	424

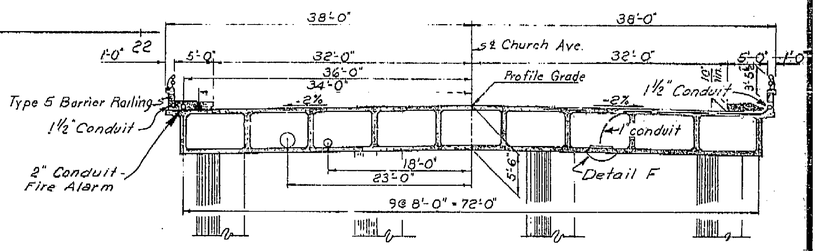
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	99	B	281	424

DISTRICT ENGINEER

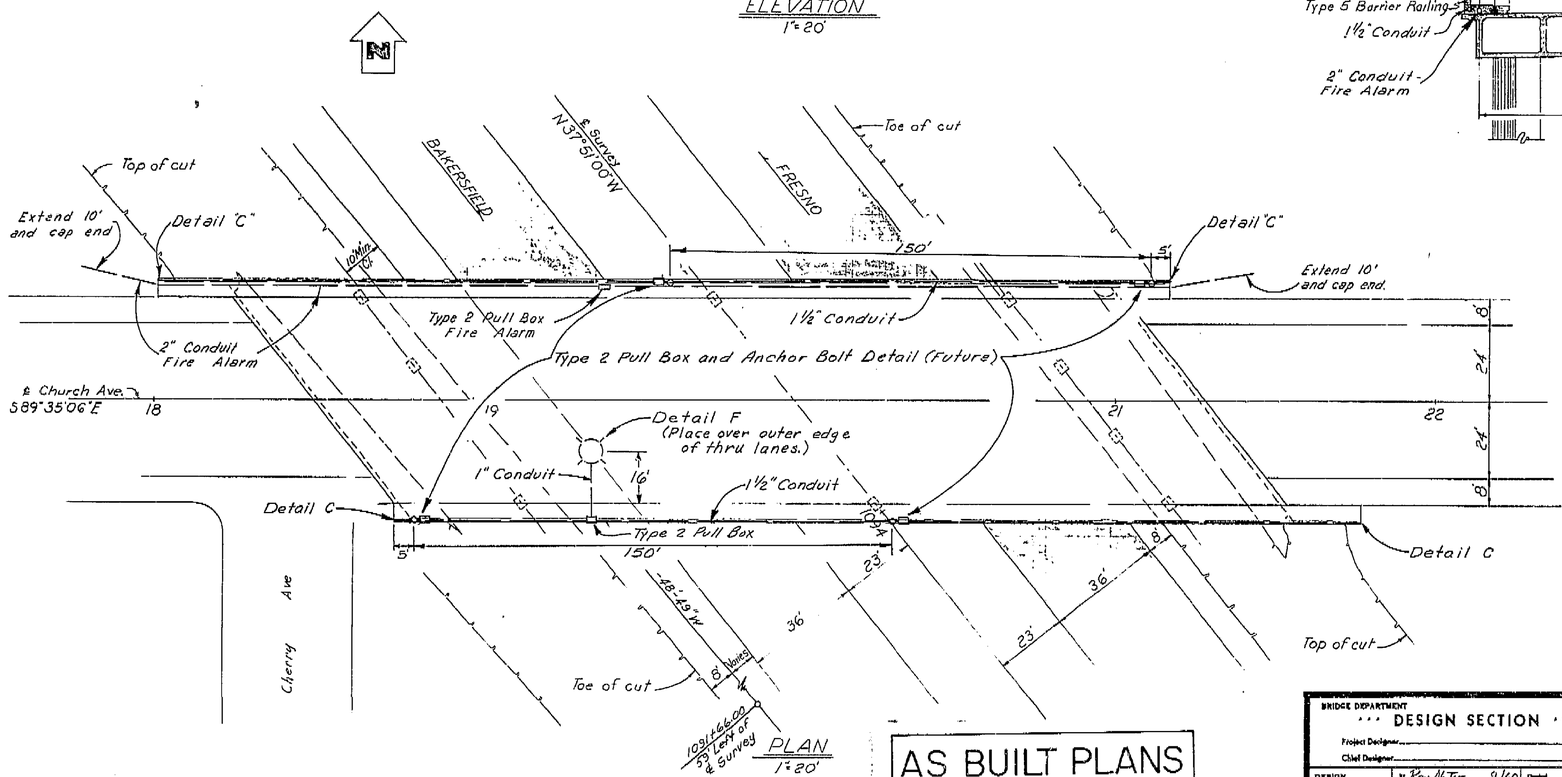
DATE APPROVED August 28, 1961



ELEVATION
1"=20'



TYPICAL SECTION
8"=1'-0"



PLAN
1"=20'

Note: This plan accurate for highway lighting only.

For additional notes see Sheet No. ES-7-4

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL RECOMMENDED BY	DATE
D. L. Schlenk	4/61	E. H. Taylor	4/61	[illegible]	4/61

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

BRIDGE DEPARTMENT
DESIGN SECTION 2

Project Designer			
Chief Designer			
DESIGN	By Roy Ah Tye 9/60	Checked	
DETAILS	By M. Carnacho 9/60	Checked	
QUANTITIES	By	Checked	
ELECTRICAL	By	Plans and Specs. Completed	

Approval Recommended by _____ Engineer of Design
PE&S and Structural Engr. License No. _____ DATE _____

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CHURCH AVENUE OVERCROSSING
TO BE LOCATED AT THE SOUTH CITY LIMIT OF FRESNO

LIGHTING PLAN

SCALE	BRIDGE	FILE	DRAWING
As Noted	42-214		

PREL. DRAWING No. P-4224-1 Rev.

"Disregard Prints Bearing Earlier Dates"

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DATE _____ SIGNATURE _____ TITLE _____

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"=50' 1"=100' 1"=10' 1"=20' 1"=40'

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VI	Fre	99

U-006-2(6)
F-006-2(5)

FED. ROAD DIV. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.		272	424

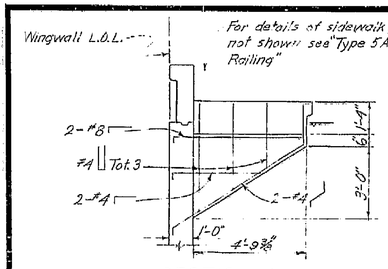
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	99			

DATE APPROVED August 28, 1961

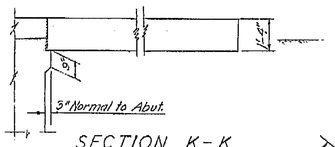
AS BUILT PLANS
Contract No. 62-671303
Date Completed
Document No. 6000 1062

272

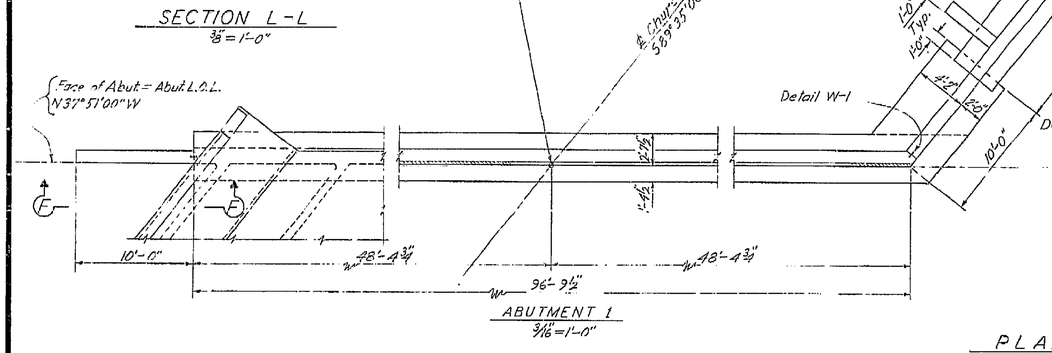
SECTION L-L
3/8" = 1'-0"



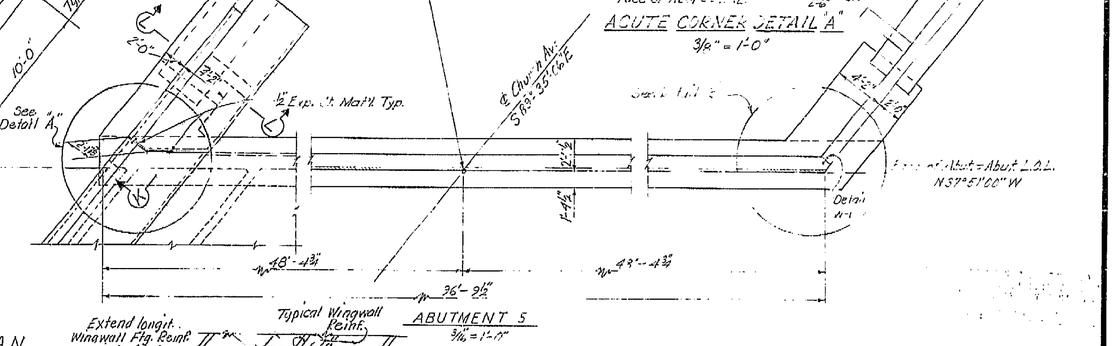
SECTION K-K
3/8" = 1'-0"



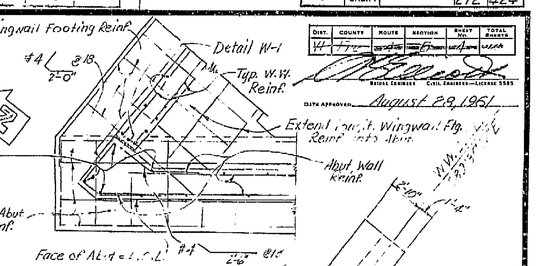
ABUTMENT 1
3/16" = 1'-0"



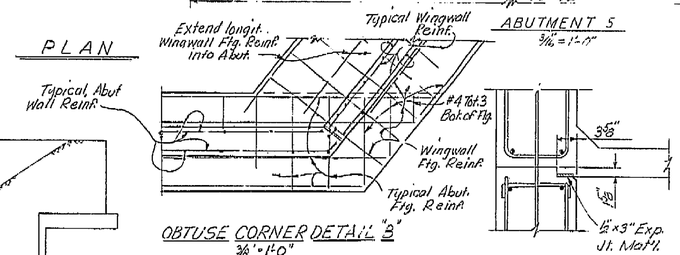
ABUTMENT 5
3/16" = 1'-0"



ACUTE CORNER DETAIL "A"
3/8" = 1'-0"

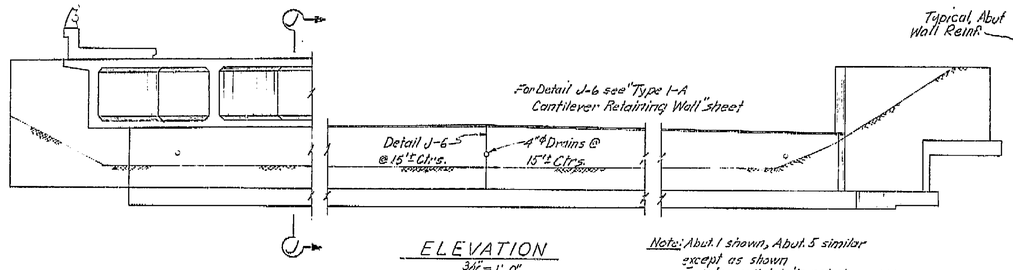


PLAN



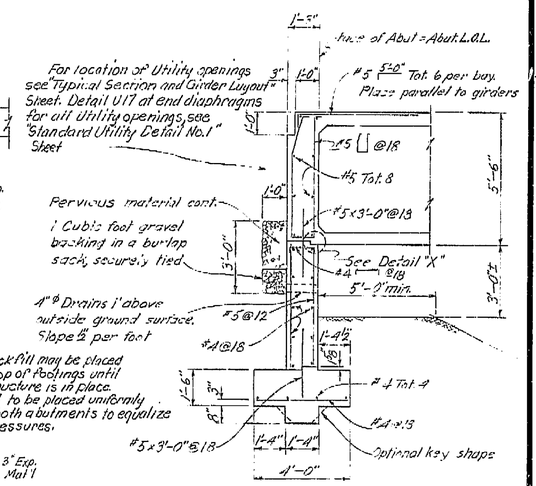
OBTUSE CORNER DETAIL "B"
3/8" = 1'-0"

DETAIL "X"

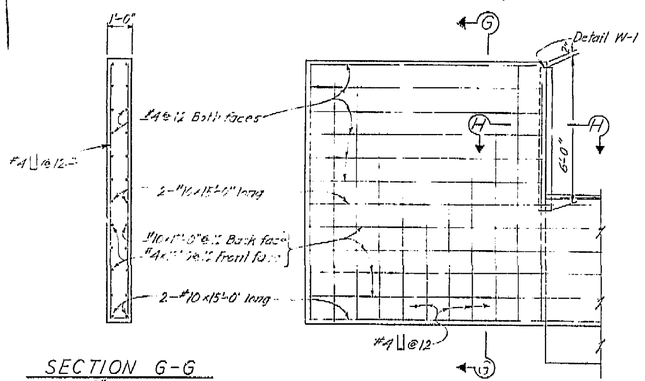


ELEVATION
3/16" = 1'-0"

Note: Abut. 1 shown, Abut. 5 similar except as shown for Wingwall details not shown see "Type 1-A Cantilever Retaining Wall" sheet. All Wingwalls are similar except South Wingwall Abut No. 1.

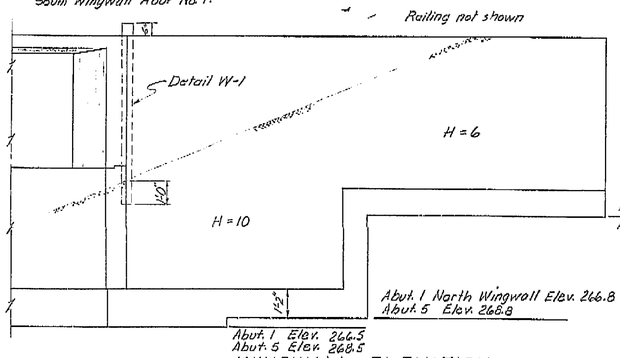


SECTION J-J
3/8" = 1'-0"

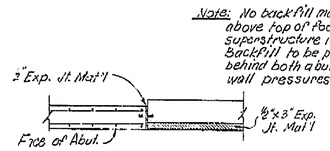


SECTION G-G
3/8" = 1'-0"

ELEVATION F-F
3/8" = 1'-0"



WINGWALL ELEVATION
3/8" = 1'-0"



SECTION H-H

Abut. 1 North Wingwall Elev. 271.0
Abut. 5 Elev. 273.0

BRIDGE DEPARTMENT			
*** DESIGN SECTION *** 2			
Project Designer: Earle E. Sullivan			
Chief Designer: W. V. Patterson			
DESIGN	By: Ray McLyc 10/60	Checked: ED Barry 11/60	
DETAILS	By: H. N. Dahl 10/60	Checked: ED Barry 11/60	
QUANTITIES	By: D. R. Pollock 1/61	Checked: K. F. Forkel 2/61	
SPECIFICATIONS	By:	Plans and Specs. Prepared	
Approval Recommended by: Chief of Design		Civil Engr. License No. 5439	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CHURCH AVENUE OVERCROSSING

ABUTMENT DETAILS

SCALE As Noted	BRIDGE 42-214	FILE	DRAWING C-42214-A

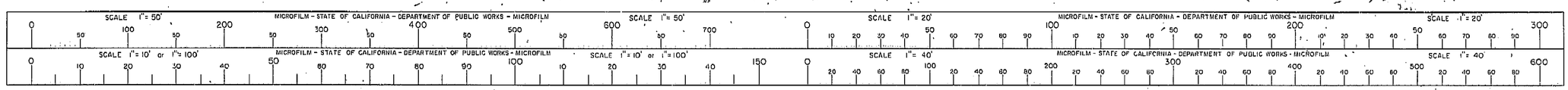
Disregard prints bearing earlier numbers

PREL. DRAWING No. P-42-214	6	10/60	11/60	1/61	2/61							

534

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DATE 1-12-72 SIGNATURE [illegible] TITLE [illegible]



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VI | Fre | 99

U-006-2(6)
F-006-2(5)

FED. ROAD DIV. No.	STATE	F. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
7	CALIF.		271	424

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	99		271	

Bridge Engineer — Civil Engineer—Structural Steel

DATE APPROVED August 28, 1961

TO FRESNO

TO BAKERSFIELD

Wingwall L.L.L.
S89° 35' 06"E

Wingwall L.O.L.
S89° 35' 06"E

Sta. 18+23.00

Sta. 18+54.27

Sta. 20+90.00

Sta. 21+26.73

Typical Bent 2 Flg.

Typical Bent 3 Flg.

Typical Bent 4 Flg.

Typical Bent Footings

Face of Abut. Abut L.O.L. N 37° 51' 00" W

℄ Bent 2 N 37° 51' 00" W

℄ Bent 3 N 37° 51' 00" W

℄ Bent 4 N 37° 51' 00" W

Face of Abut. Abut L.L.L. N 37° 51' 00" W

℄ CHURCH AVE

S 89° 35' 06" E

30" RCP Sewer

27" RCP Sewer

10" CI water

8" HP Gas

3 HV. 1 Wire

3 HV. 2 LV Wire

4 LV

Gas Vent Under Str. Bus

PCC Curb

PCC Sidewalk

Leinf Conc Bldg

CHERRY AVE. (FM 3)

℄ Survey N 51° 51' 00" W

Note: Bottom of footing elevations shown thus: 00.0

AS BUILT PLANS
Contract No. 62-671303
Date Completed
Document No. 6000.1062

EM. [illegible]
FLOW LINE OF PIPE
[illegible]
EL 277.1

EM. A
FLOW LINE OF PIPE
[illegible]
EL 274.4

LEVEL DATUM: USC&GS MSL
FOR ALINEMENT TIES SEE PR 0741-4
CONTOURS AS OF 10-59
SITE PLAN TO SUPPLEMENT DISTRICT DATA.
SURVEY BY JGG DATE 10-59
DRAWN BY JS DATE 8-24-60
TRACED BY JS DATE 8-24-60

BRIDGE DEPARTMENT
DESIGN SECTION 2
Section Supervisor W. J. Beerbower

DESIGN	By R.M. McTee	11/60
	Checked E.D. Berry	11/60
DETAILS	By H.N. Dahl	10/60
	Checked E.D. Berry	11/60
QUANTITIES	By D.P. Pollock	1/61
	Checked	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CHURCH AVENUE OVERCROSSING

FOUNDATION PLAN

SCALE 1" = 20' | BRIDGE 42-214 | FILE 8-42 | DRAWING C-42214-3

C-42214-3 PR 0741-6 523

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DATE 1-11-72 SIGNATURE [illegible] TITLE [illegible]

SCALE 1"= 50' | SCALE 1"= 20' | SCALE 1"= 10' or 1"= 100' | SCALE 1"= 40'

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

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VI	Fre	99

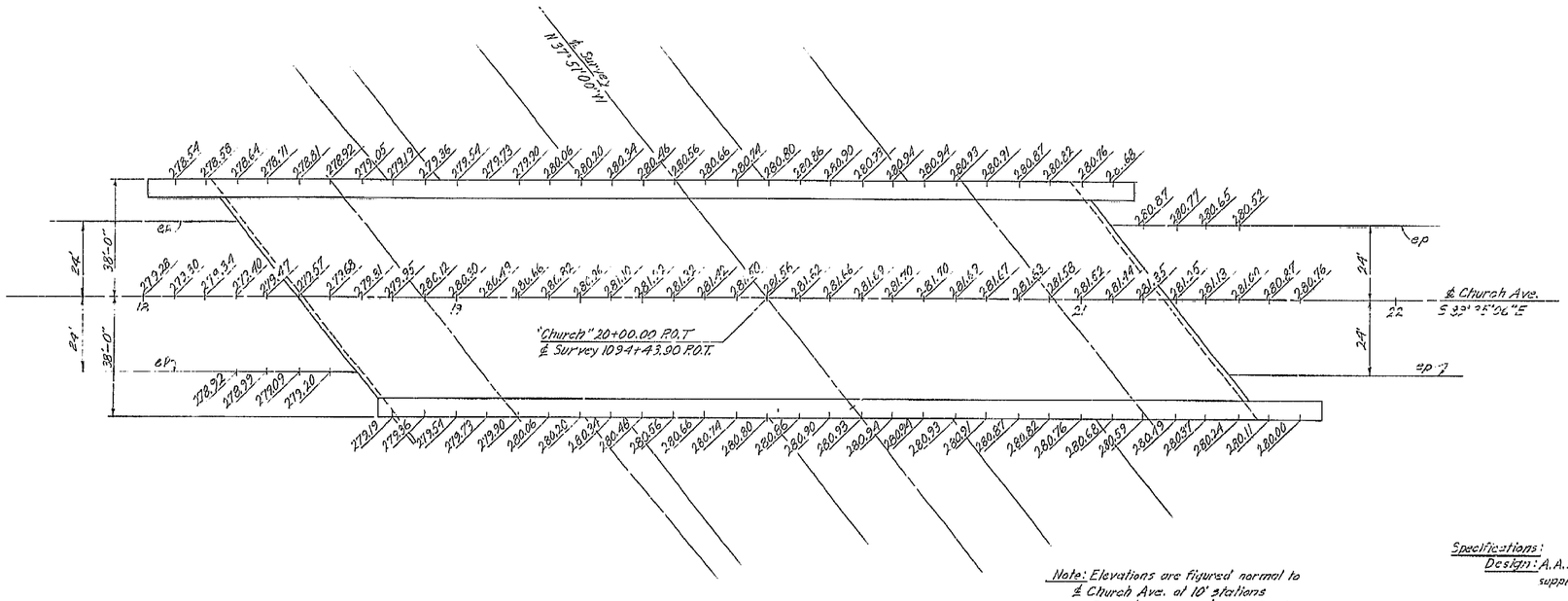
U-006-2(5)
F-006-2(5)

FED. ROAD DIV. No.	STATE	F. A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.		270	424

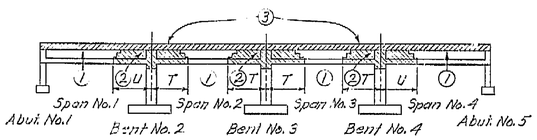
DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	Fre	99	B	270	424

BRIDGE ENGINEER — CIVIL ENGINEER—LICENSE 5085

DATE APPROVED August 28, 1961



Note: Elevations are figured normal to ℄ Church Ave. at 10' stations
Elevations do not include Camber



BOX GIRDER SUPERSTRUCTURE PLACING DIAGRAM

Numbers (1) and (2) indicate sequence of placing bottom slab and girder stem concrete. (2) may be placed simultaneously with (1) when approved by the Engineer; and provided that the (1) sections are placed in adjoining spans.

Top slab concrete (3) shall be placed separately from (1) and (2). (3) may be placed continuously or in parts as approved by the Engineer, however the only joints permitted shall be located within 2'-0" of the girder joints between (1) and (2).

T = ½ span length

U = ¼ span length

For any deviation from the above the contractor shall submit a diagram to the Engineer.

GENERAL NOTES

Specifications:
Design: A.A.S.H.O. dated 1957 with revisions and as supplemented by Bridge Planning and Design Manual.

Construction: Standard Specifications, Division of Highways, dated January 1960 and the Special Provisions.

Live Loading: H20-S16-44 and Alternative

Unit Stresses:
Reinforced Concrete: fs = 20,000 P.S.I., N=10
fc = 1,200 P.S.I.

Footing Pressure: 3½ tons P.S.F. @ Bents
1 ton P.S.F. @ Abuts.

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer Eng. by Consultant
Chief Designer W.W. Overcast

DESIGN	by Ray Nichols 10/60	Checked E.D. Berry 11/60
DETAILS	by H.N. Dahl 1960	Checked E.D. Berry 11/60
QUANTITIES	by D.A. Pollock 1961	Checked
SPECIFICATIONS	By	Plans and Forms Checked

Approved Recommended by [signature] Engineer of Design — Civil Engr. License No. 5409

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CHURCH AVENUE OVERCROSSING

GRID OF DECK ELEVATIONS

SCALE 1"=20' | BRIDGE 42-214 | FILE | DRAWING C-42214-2

Disregard prints bearing earlier numbers → PREL. DRAWING No. P-42-214-4 (08/26/60, 7/6/60, 3/4/61)

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DATE 1-12-72 SIGNATURE [signature] TITLE [illegible]

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"= 50' / SCALE 1"= 20' / SCALE 1"= 10' or 1"= 100' / SCALE 1"= 40'

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FED. ROAD DIST. NO.	STATE	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.		278	424

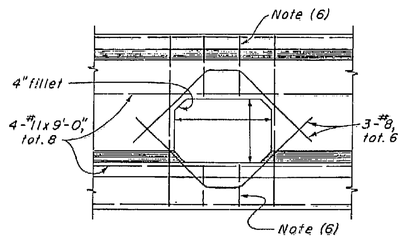
VI | Fre | 99

VI-006-2(6)
F-006-2(5)

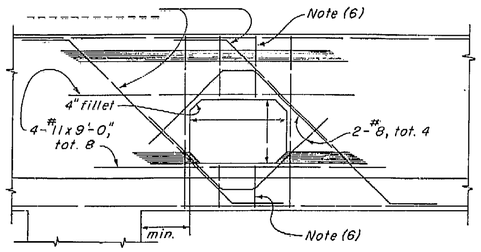
STANDARD DRAWING
Approved
Dec. 1959

AS BUILT PLANS
Contract No. 62-671363
Date Completed
Document No. 6000062

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS
BRIDGE DEPARTMENT

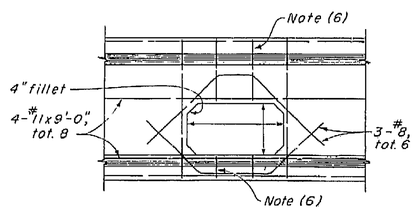


TYPICAL
DETAIL U1

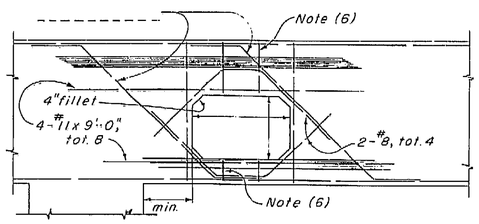


NEAR COLUMN
DETAIL U2

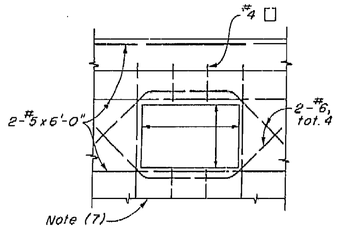
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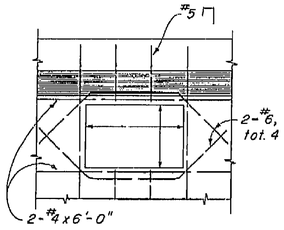
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DETAIL U3



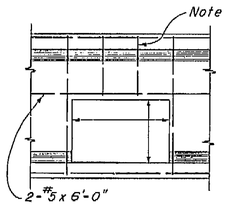
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DETAIL U4



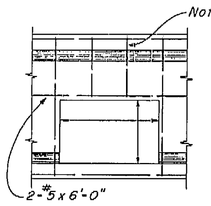
RIGID FRAME
DETAIL U5



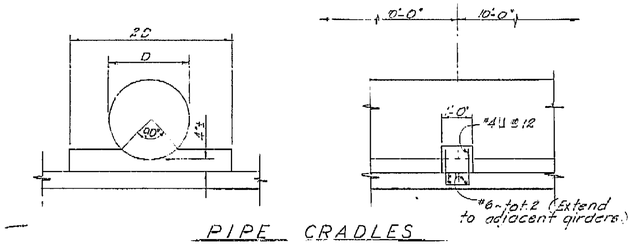
CANTILEVER TYPE
DETAIL U6



END
DETAIL U7

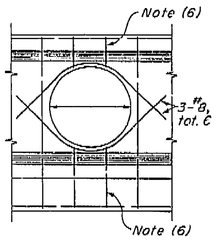


INTERMEDIATE
DETAIL U8

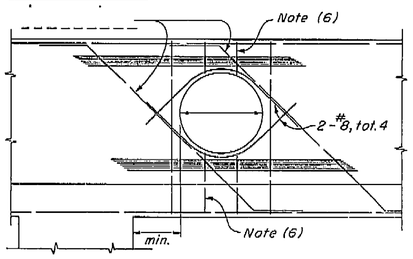


PIPE CRADLES

ABUTMENT BACKWALL

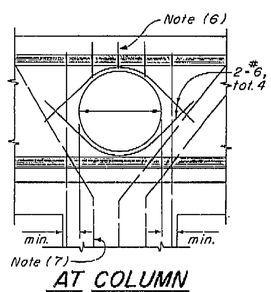


TYPICAL
DETAIL U9

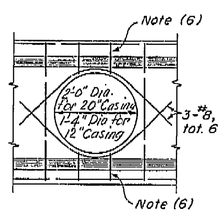


NEAR COLUMN
DETAIL U10

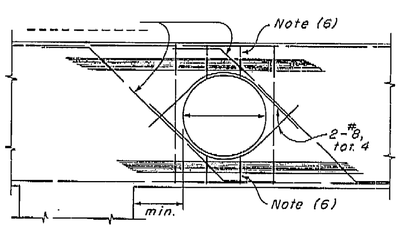
DIAPHRAGMS



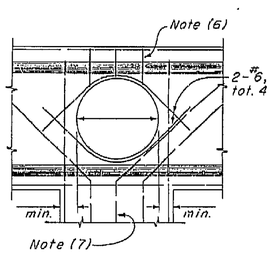
AT COLUMN
DETAIL U11



TYPICAL
DETAIL U12

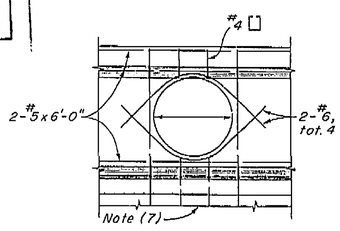


NEAR COLUMN
DETAIL U13

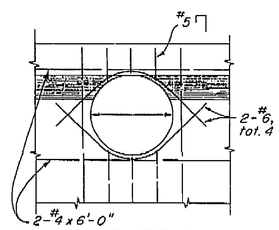


AT COLUMN
DETAIL U14

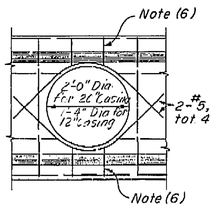
BENT CAP



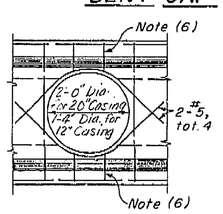
RIGID FRAME
DETAIL U15



CANTILEVER TYPE
DETAIL U16



END
DETAIL U17



INTERMEDIATE
DETAIL U18

ABUTMENT BACKWALL

DIAPHRAGMS

NOTES

(1) For exact location and direction of openings see other sheets.
(2) Location and size of utility openings may be modified as directed by the Engineer, provided minimum dimensions are maintained.
(3) Girders not shown, see other sheets.
(4) Seal around utilities at abutments to be of sufficient strength to withstand earth pressure.
(5) All reinforcement detailed to be placed in addition to reinforcement shown on other sheets.
(6) Stirrups are same size as adjacent stirrups shown on other sheets.
(7) Main reinforcement to clear opening as detailed on other sheets.

BRIDGE DEPARTMENT
DESIGN SECTION 2
PROJECT DESIGNER Eric E. Erickson
CHIEF DESIGNER W. J. Yerkovich

DESIGN	BY Roy White 11/60	CHECKED E.D. Berry 11/60	
DETAILS	BY H.N. Dahl 10/60	CHECKED E.D. Berry 11/60	
QUANTITIES	BY D.P. Pollock Vol	CHECKED T.A. Swanson	
SPECIFICATIONS	BY	PLANS AND SPECS. COMPARED	
APPROVAL RECOMMENDED BY	Bridge Engineer	Civil and Structural Engr. License No. 5419	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CHURCH AVENUE OVERCROSSING

STANDARD UTILITY DETAIL NO. 1

SCALE None. | BRIDGE 42-214 | KS-16-49 FILE | DRAWING C-42214-10

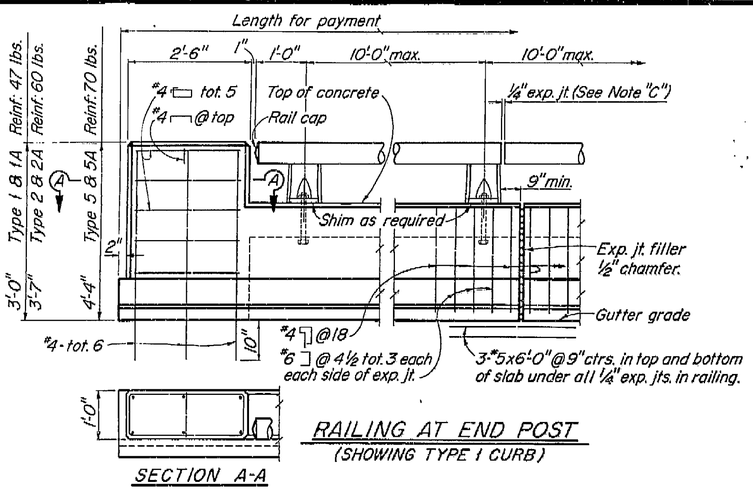
PREL. DRAWING NO. P-42214-11 | 8/9/60 | 9/6/60 | 9/9/60 | 9/12

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

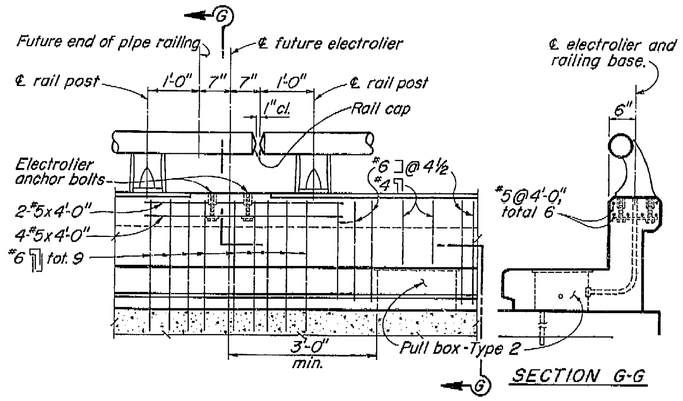
DATE 1-12-72 SIGNATURE [illegible] TITLE [illegible]

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"= 50' | SCALE 1"= 20' | SCALE 1"= 10' or 1"= 100' | SCALE 1"= 40'

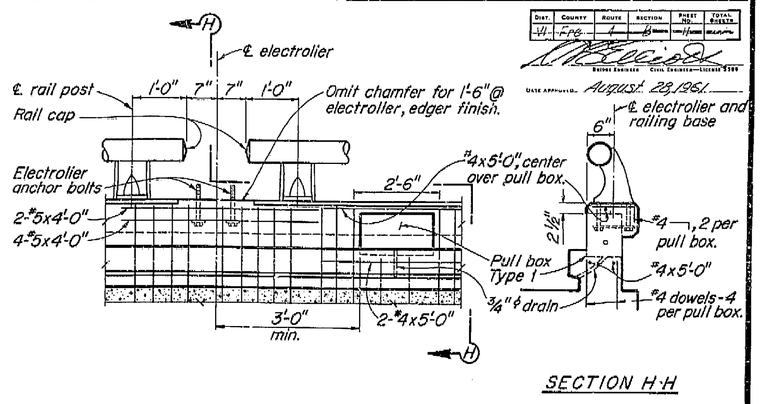
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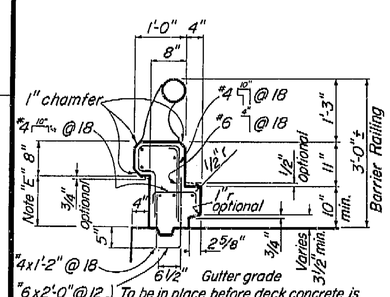
RAILING AT END POST
(SHOWING TYPE 1 CURB)

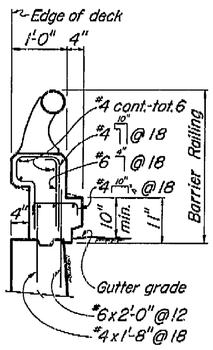


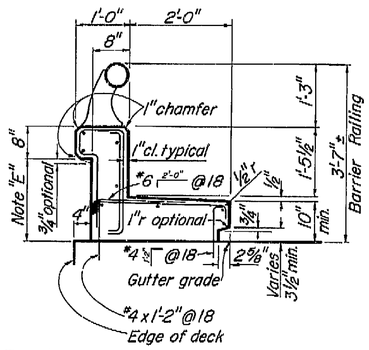
RAILING CLOSURE AT ELECTROLIER
(SHOWING TYPE 2 CURB)

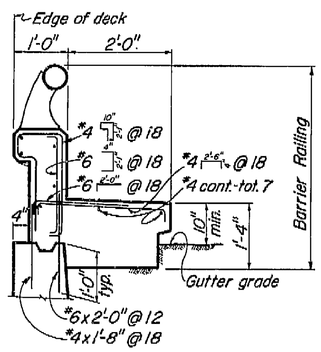


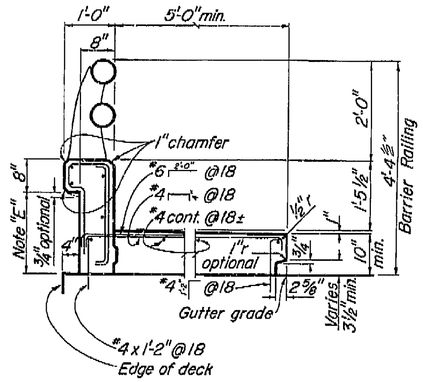
RAILING AT ELECTROLIER
(SHOWING TYPE 1 CURB)

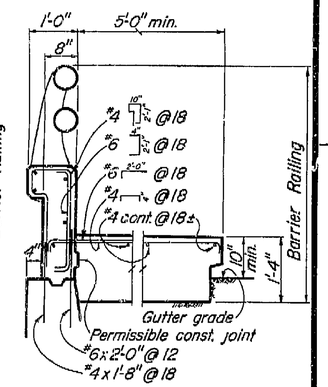












Note: Type 1A and 2A are similar to Type 1 and 2 except as noted.

TYPE 1
Conc. 1.61 cu. ft. / lin. ft.
Reinf. 11.8 lbs. / lin. ft.

TYPE 1A
Conc. 1.61 cu. ft. / lin. ft.
Reinf. 12.0 lbs. / lin. ft.

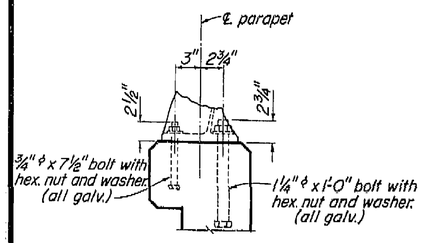
TYPE 2
Conc. 3.43 cu. ft. / lin. ft.
Reinf. 14.7 lbs. / lin. ft.

TYPE 2A
Conc. 4.30 cu. ft. / lin. ft.
Reinf. 17.3 lbs. / lin. ft.

TYPE 5
Conc. 6.10 cu. ft. / lin. ft. } For 5'-0" width
Reinf. 17.2 lbs. / lin. ft. }
Conc. 0.84 cu. ft. / lin. ft. } Per additional ft. (width)
Reinf. 2.1 lbs. / lin. ft. }

TYPE 5A
Conc. 8.35 cu. ft. / lin. ft.
Reinf. 19.7 lbs. / lin. ft.
Conc. 1.34 cu. ft. / lin. ft.
Reinf. 2.1 lbs. / lin. ft.

TYPICAL CURB AND RAIL SECTIONS



RAIL POST ANCHOR BOLT DETAIL
Scale: 1 1/2" = 1'-0"

Note:
A. Railing shall conform to horizontal and vertical alignment.
B. Posts shall be normal to railing.
C. Curb and wall exp. jts. to be located at all deck joints, at ℄ piers or bents and at uniform spacing (40' max.) between those specified. Joint size to be 1/4" min. and increased to match deck joints.
D. Construct 3" deep x 12" wide overflow scupper 2" above deck at low points in grade.
E. Dimension will vary with cross-slope of deck.
F. Walls are to be backfilled before railing is placed.
G. Clearance to reinforcing steel in curb and railing to be 1".

Note: For Details not shown see Section E-E on Section K-K "Abutment Details" sheet

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO AS BUILT CONDITIONS AS SHOWN ON THE ... AS SUBMITTED BY RESIDENT ENGINEER.
TRACINGS CORRECTED BY: ___ DATE: ___

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed ___
Document No. 6000 1062

BRIDGE DEPARTMENT		
DESIGN SECTION 2		
Section Supervisor W J Jackson		
DESIGN	By Ray McTyre	11/60
	Checked E D Berry	'60
DETAILS	By Ray McTyre	11/60
	Checked E D Berry	'60
QUANTITIES	By D P Pollock	Vol.
	Checked P. Hemmington	

10/60
STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CHURCH AVENUE OVERCROSSING

BARRIER RAILING SHEET 1

Except as noted SCALE 3/4"=1'-0" | BRIDGE 42-S14 | XS-9-63 FILE | DRAWING C-A2214-11

Disregard prints bearing earlier numbers → PREL. DRAWING No. P-A2214-14 | 12/20/60 | 1/19/61 | 541

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE ___ SIGNATURE ___ TITLE ___

SCALE 1"= 50' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"= 20'
SCALE 1"= 10' or 1"= 100' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"= 40'

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V1	Fre	99

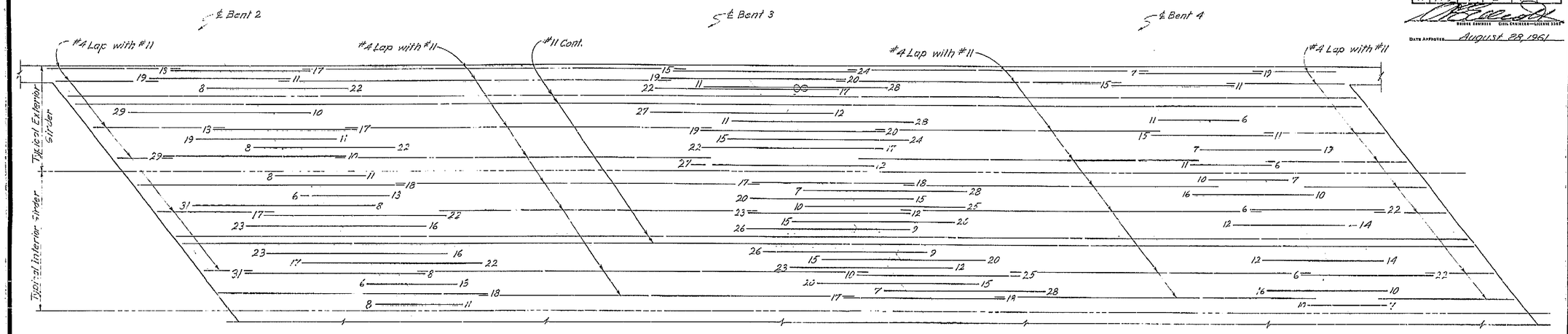
U-006-2(6)
F-006-2(5)

FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.		276	424

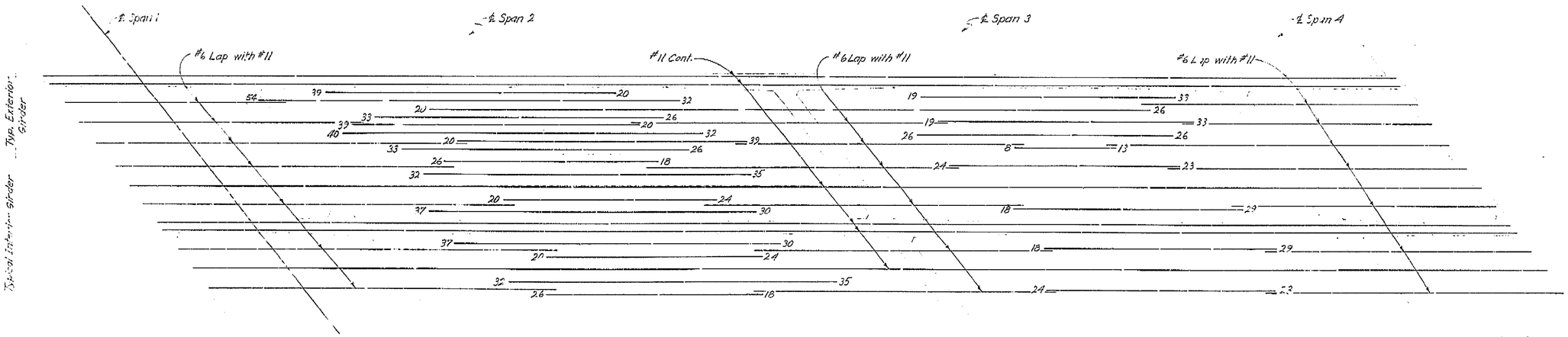
DIST.	COUNTY	ROUTE	SECTION	BRIDGE No.	TOTAL SHEETS
VI	Fre	99	Bldwin	33C-79	with

BRIDGE ENGINEER — CIVIL ENGINEER—LICENSE 5063

DATE APPROVED August 28, 1961



TOP REINFORCEMENT



BOTTOM REINFORCEMENT

AS BUILT PLANS
Contract No. 62-671303
Date Completed
Document No. 60001062

276

Notes: Bunsled bars shown thus: ⟨⟩
All bars are #11 except as noted.
Numbers at ends of bars indicate distance in feet from ℄ Bent for Top Reinforcement and from ℄ Span for Bottom Reinforcement
No splicing of #11 bars permitted near ℄ Bent for Top Reinforcement or near ℄ Span for Bottom Reinforcement

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer: Chief Engineer
Chief Designer: W. J. Gentleman

DESIGN	By: Ras Ah Tyc 10/60	Checked: ED Berry 11/60	
DETAILS	By: H.N. Dahl 1963	Checked: ED Berry 11/60	
QUANTITIES	By: D.P. Pollock 1/61	Checked: T. Engineering Assistant	
SPECIFICATIONS	By:	Plans and Spec. Checked:	

Approval Recommended by: Assistant Bridge Engineer — Civil Engr. License No. ... Exp.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CHURCH AVENUE OVERCROSSING

GIRDER REINFORCEMENT

SCALE	BRIDGE	FILE	DRAWING
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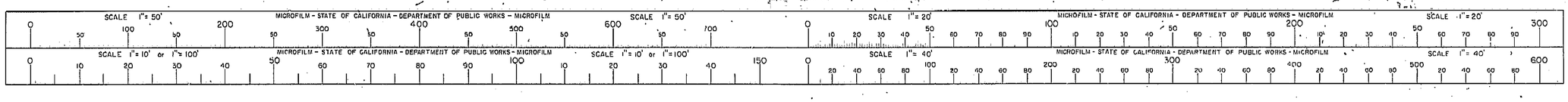
Disregard prints bearing earlier numbers →

PREL. DRAWING No. P-42214-3 (10/1/60, 12/2/60, 7/7/61)

506

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-12-72 SIGNATURE [illegible] TITLE [illegible]



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BRIDGE DEPARTMENT

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre				

PRINCIPAL ENGINEER — CIVIL ENGINEER — LICENSE NO.

DATE APPROVED: AUGUST 20, 196

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.			281	424

VI | Fre | 99

U-006·2(6)
F-006·2(5)

B-1
72.10 ft
℄ Survey
38.17 ft
Distance:
Sta. 1094+43.902 POT ℄ Survey
Sta. 20+00 Section Line
Church Ave. (Section Line)
19
20
21
1094
BM RR Spike in PP
8' West ℄ 33' North
of P.O.T. 1094+73.42
Elev. 279.91
Distance: 40.08 ft
B-2
Distance: 84.40 ft
Distance: 105.75 ft
Distance: 39.03 ft
B-3

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

40 Bk "Church" Sta. 19+16
38 Lt "Church" Sta. 19+28
30 Rt "Church" Sta. 21+05

B-2: El. 283.4
B-1: El. 280.3
B-3: El. 281.7

	B-2	B-1	B-3
290			
280			Slightly compact brown silty fine sand
270		Compact brown silty fine sand some binder	Compact to dense grey to red-brown fine to medium silty sand
260		Dense grey silty fine sand	Dense grey micaceous silt to Dense to compact grey fine sand some mica
250		Very dense brown silt	Dense grey fine sand & silt
240		Dense grey silty fine to medium sand	Compact grey fine to medium sand - some binder
230		Very dense red-brown silty fine sand with good binder	Dense red-brown silty fine sand

NO GROUND WATER ENCOUNTERED

FIELD STUDY	L. R. Hager 2-69
DESIGN	W. F. Sharp 12-69
CHECKED	W. F. Sharp 12-69

Approved & recommended for ____ Fred F. Sharp 5-70
Acting Bridge Engineer
for Chief Engineer
As-built Revision

CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS

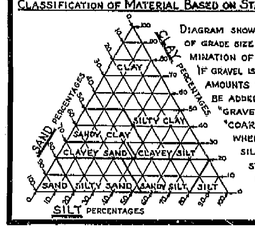


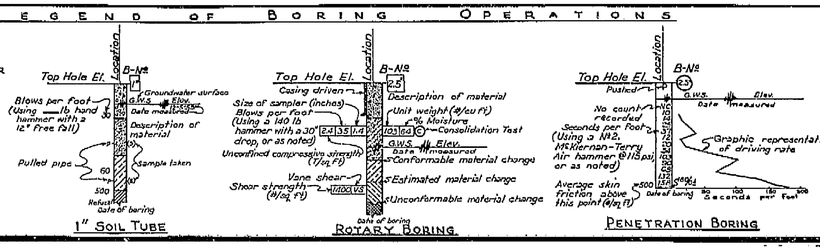
DIAGRAM SHOWING THE BASIS FOR ESTIMATES OF GRADE SIZE DISTRIBUTION USED IN DETERMINATION OF CLASS NAMES. IF GRAVEL IS PRESENT IN APPRECIABLE AMOUNTS THE TERM "GRAVELLY" MAY BE ADDED TO THE CLASS NAME, VIZ. "GRAVELLY SAND." THE TERMS "COARSE," "MEDIUM" AND "FINE" WHEN USED TO DESCRIBE SAND, SILT AND GRAVEL REFER TO STANDARD GRADE SIZE LIMITS.

LEGEND OF EARTH MATERIALS

- GRAVEL
- SAND
- SILT
- CLAY
- SANDY CLAY OR CLAYEY SAND
- SANDY SILT OR SILTY SAND
- SILTY CLAY OR CLAYEY SILT
- PEAT AND/OR ORGANIC MATTER
- FILL MATERIAL
- IGNEOUS ROCK
- SEDIMENTARY ROCK
- METAMORPHIC ROCK

LEGEND OF BORING OPERATIONS

- PLAN OF ANY BORING
- PENETROMETER
- 2½" CONE PENETROMETER
- SAMPLER BORING (DRY)
- ROTARY BORING (WET)
- AUGER BORING (DRY)
- JET BORING
- CORE BORING
- TEST PIT



NOTES

~~The operations which have been performed pursuant to Section 2, Article (e) of the Standard Specifications and/or the Special Provisions accompanying this set of plans are:~~

Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CHURCH AVENUE OVERCROSSING

LOG OF TEST BORINGS

SCALE 1" = 10' | BRIDGE 42-214 | FILE | DRAWING C-42214-13

PRELIMINARY | P-42214-13 | 7/24 | 70/71

PR-6741-3 S13

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE ____ SIGNATURE ____ TITLE ____

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"=50' | SCALE 1"=50' | SCALE 1"=20' | SCALE 1"=20'
SCALE 1"=10' or 1"=100' | SCALE 1"=10' or 1"=100' | SCALE 1"=40' | SCALE 1"=40'

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VI	Fre	99		U-006-2(6) F-006-2(5)

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	TOTAL SHEETS
7	CALIF.			269 424

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	99			

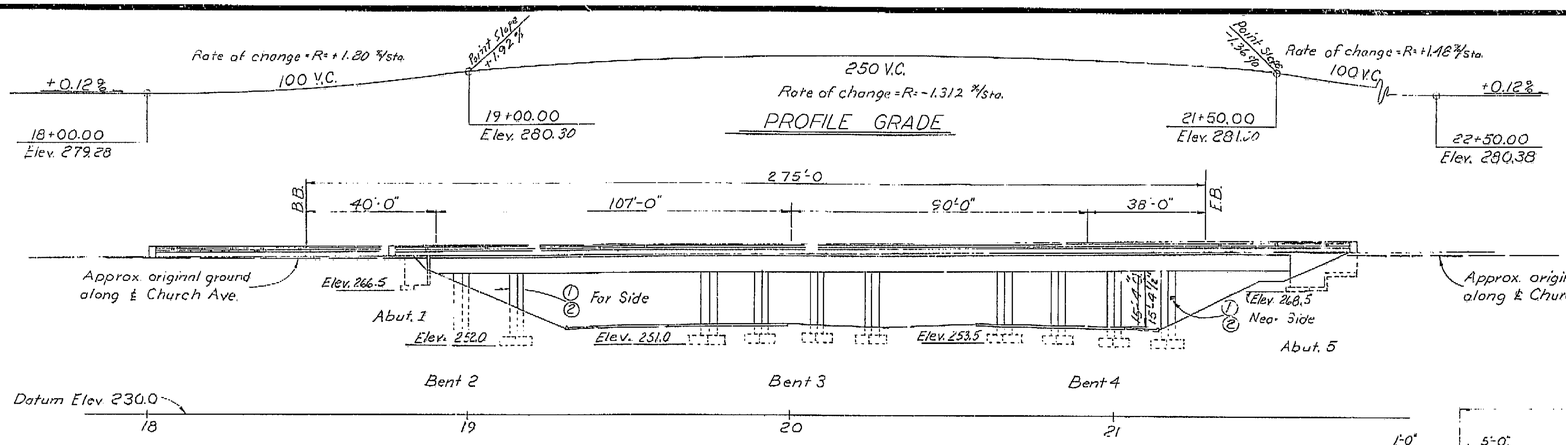
94

DATE APPROVED August 28, 1961.

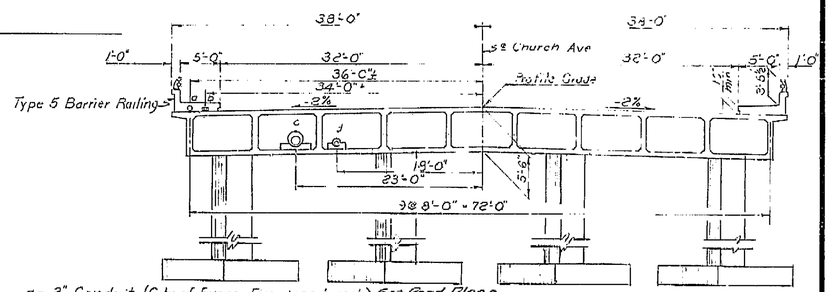
APPROXIMATE QUANTITIES P.M. 19.2

*STRUCTURE EXCAVATION (BRIDGE)	1,020 C.Y.
*STRUCTURE BACKFILL (BRIDGE)	660 C.Y.
*CLASS "A" CONCRETE (BRIDGE)	1,695 C.Y.
RUBBER WATERSTOPS	30 L.F.
*BAR REINFORCING STEEL (BRIDGE)	470,000 LBS.
BARRIER RAILING (TYPE 5)	611 L.F.

*FINAL QUANTITIES

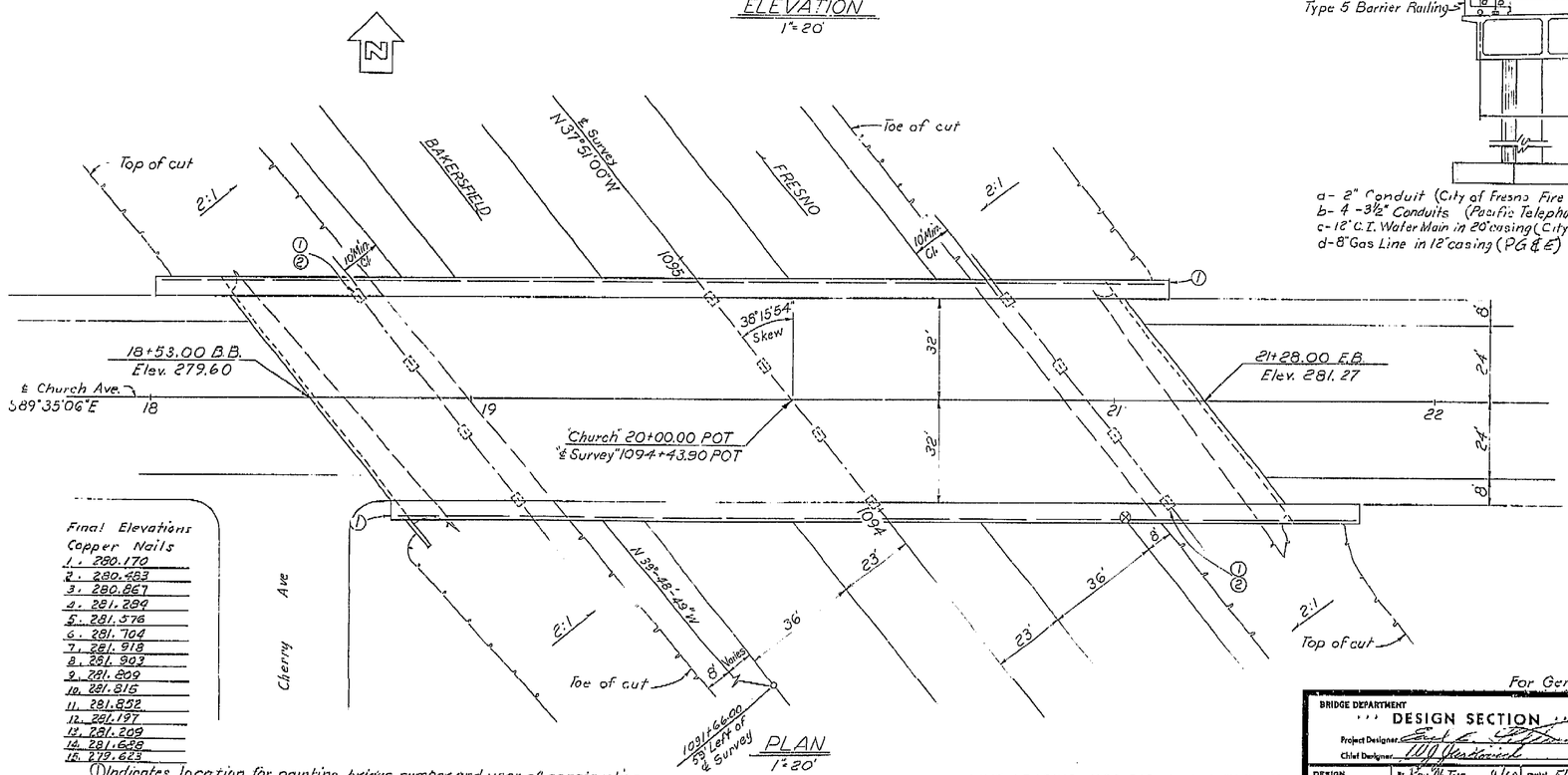


ELEVATION
1"=20'



a- 2" Conduit (City of Fresno Fire Department) See Road Plans.
b- 4 -3½" Conduits (Pacific Telephone & Telegraph Co)
c- 12" C.I. Water Main in 20" casing (City of Fresno)
d- 8" Gas Line in 12" casing (PG&E)

TYPICAL SECTION
½"=1'-0"



PLAN
1"=20'

Final Elevations
Copper Nails

1.	280.170
2.	280.483
3.	280.867
4.	281.284
5.	281.576
6.	281.704
7.	281.918
8.	281.903
9.	281.609
10.	281.816
11.	281.852
12.	281.197
13.	281.209
14.	281.648
15.	279.625

①Indicates location for painting bridge number and year of construction
②Indicates location for painting "Church Avenue O.C."
Ⓐ Indicates point of minimum vertical clearance

LIVE LOADING H20-S16-44 & ALTERNATIVE

INDEX TO PLANS

SHEET NO.	TITLE
1.	General Plan
2.	Grid of Deck Elevations
3.	Foundation Plan
4.	Abutment Details
5.	Type 1-A Cantilever Retaining Wall
6.	Bent Details
7.	Typical Section & Girder Layout
8.	Girder Reinforcement
9.	Standard Details No. 1
10.	Standard Utility Detail No. 1
11.	Barrier Railing Sheet 1
12.	Barrier Railing Sheet 2
13.	Log of Test Boring
14.	Layout Plan

Note: Route Change (VI-Fre-99)

4-8-63 J. W. Beck

For General Notes See "Grid of Deck Elevations" sheet

BRIDGE DEPARTMENT					
DESIGN SECTION 2					
Project Designer: Earl E. Eliason					
Chief Designer: W.J. Hasbrouck					
DESIGN	By Roy Mc Tye	9/60	Checked	ED Berry	11/60
DETAILS	By M. Camacho	9/60	Checked	ED Berry	11/60
QUANTITIES	By D.P. Pollock	9/61	Checked	E.E. Eliason	7-16
SPECIFICATIONS	By		Plans and Specs. Prepared		
Approval Recommended by: Chief Bridge Engineer			Civil Engineer Reg. License No.	5749	495

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

62-6T13C.3

CHURCH AVENUE OVERCROSSING
TO BE LOCATED AT THE SOUTH CITY LIMIT OF FRESNO

GENERAL PLAN

SCALE As Noted | BRIDGE 42-214 | FILE | DRAWING C-42214-1

PREL. DRAWING No. P-42214-1 | 11/29/60 | 12/8/60 | 7/9/61 | 8/4/61 | 5/12

"Disregard Prints Bearing Earlier Dates"

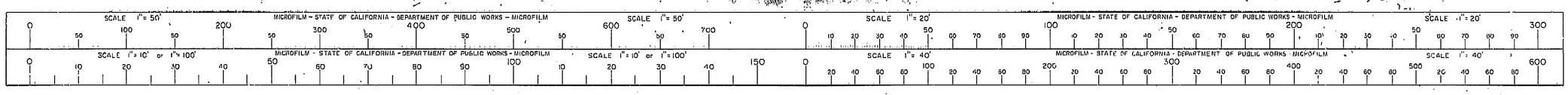
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AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 6000 1062

269

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE / / SIGNATURE / / TITLE / /



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Revision: 9-22-60
Made #8 bar conf. in Detail J-1.
S.K.

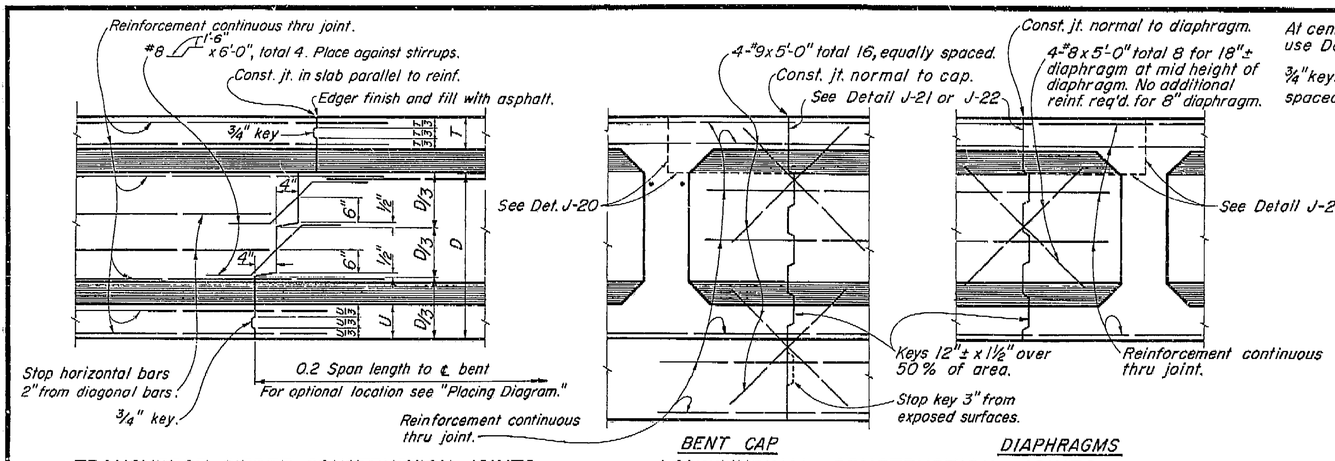
V.I | Fre | 99

U-006-2(6)
F-006-2(6)

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7	CALIF.			277	428

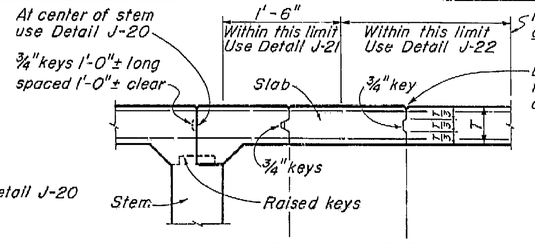
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
11	Fre				

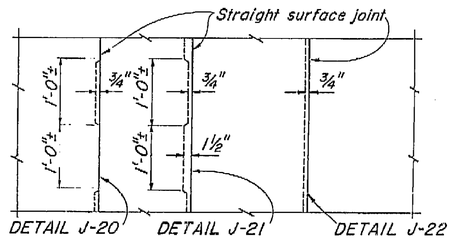
DATE APPROVED August 28, 1961



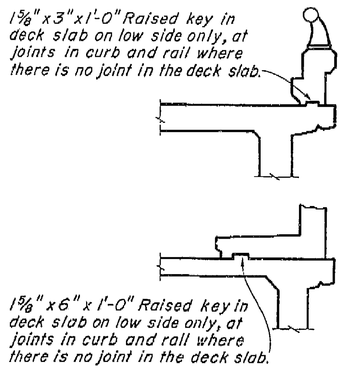
TRANSVERSE GIRDER CONSTRUCTION JOINTS
DETAIL J-3

BENT CAP
LONGITUDINAL CONSTRUCTION JOINTS
DIAPHRAGMS
DETAIL J-4



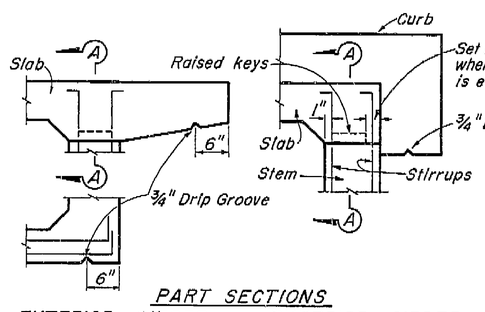


DECK SLAB
LONGITUDINAL CONSTRUCTION JOINTS
Note: Longitudinal construction joints in slab, if required, are to be located at edge of traffic lanes except as approved by the Engineer.

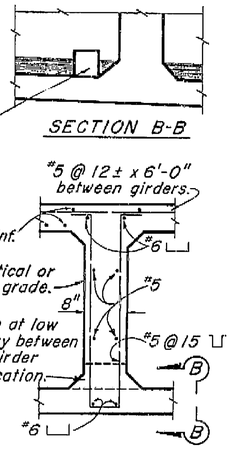


CURB AND SIDEWALK EXPANSION JOINT
DETAIL C-1

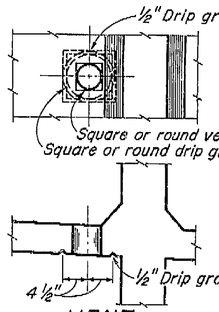
AS BUILT PLANS
Contract No. 62-671363
Date Completed
Document No. 60001062



PART SECTIONS
EXTERIOR GIRDER WITH SLAB CANTILEVER
EXTERIOR GIRDER WITH CURB

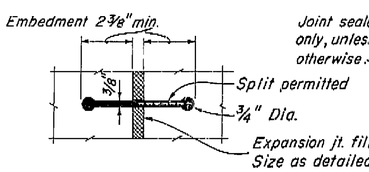


INTERMEDIATE DIAPHRAGM SECTION
DETAIL D-1

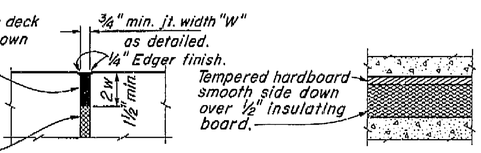


VENT
DETAIL V-1

Note:
5" ϕ Vent in lower slab.
Min. of two vents per span in each bay between girders. One vent to be located at low point of span and other vent to be located at opposite end of span @ 1'-6" from face of Abutment or Bent. See "Girder Layout."

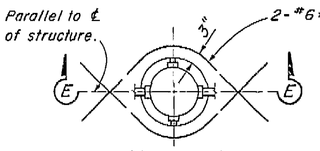


RUBBER WATERSTOP
DETAIL W-1

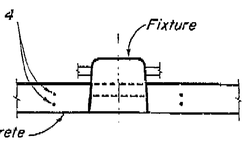


SEALED EXPANSION JOINT
DETAIL L-1

DETAIL M-1

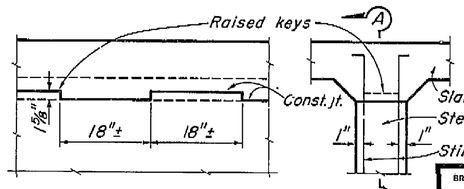


ADDED REINFORCEMENT



SECTION E-E

RECESSED SOFFIT LIGHT
DETAIL F-1



SECTION A-A
PART SECTION INTERIOR GIRDER
KEY-GIRDER STEM TO SLAB
DETAIL J-5

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED _____, AS SUBMITTED BY RESIDENT ENGINEER _____
ENGINEER _____
IRREGULARITIES CORRECTED BY: _____ DATE: _____

STANDARD DRAWING
Submitted by Wm. E. Peters
Approved by Wm. E. Peters
Asst. Bridge Engineer
Bridge Engineer
Date Feb. 1960
DESIGN By Ray Attao 10/60 Checked ED Berry 11/60
DETAILS By H.N. Dahl 1/61 Checked S.D. Berry 2/61
QUANTITIES By
SPECIFICATIONS By
Plans and Specs Completed
Approval Recommended by
Chief and Structural Engr. Concurred
Sheet No. 6729

BRIDGE DEPARTMENT
DESIGN SECTION
Project Designer Earl C. Tuttle
Chief Designer W.J. Gutbrod

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

9/60

CHURCH AVENUE OVERCROSSING

STANDARD DETAILS NO. 1 (BOX GIRDER)

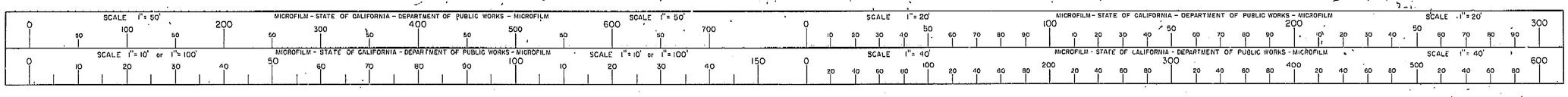
SCALE None | BRIDGE 42-219 | XS-16-22 FILE | DRAWING C-42214-9

PREL. DRAWING No. P-42214-9 | 2/26/60 | 7/9/61

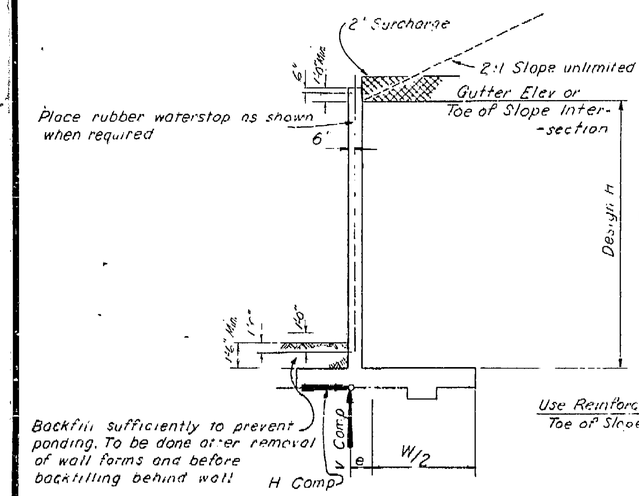
509

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

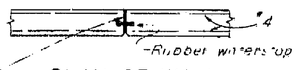


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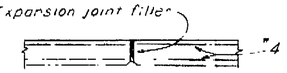


DESIGN AND DRAINAGE

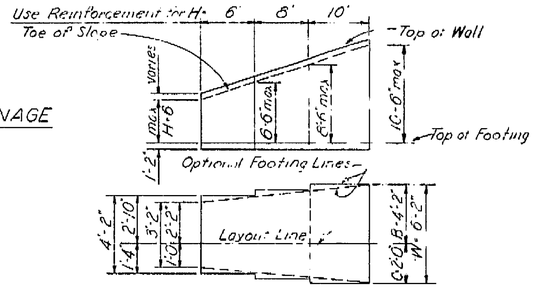
Place concrete in toe against undisturbed material, except as permitted by the Engineer.



PLAN OF WALL WITH DETAIL W-1

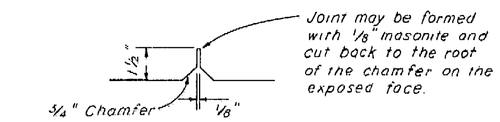


PLAN OF WALL WITH EXPANSION JOINT ONLY



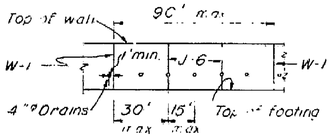
TYPICAL LAYOUT EXAMPLE

Note:
Bar cut-offs may be varied in increments of 6"

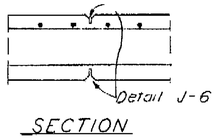


PLAN

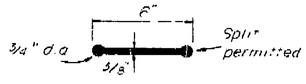
DETAIL J-6



ELEVATION

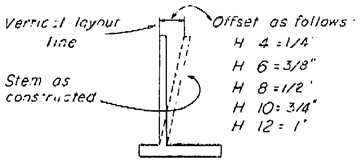


SECTION

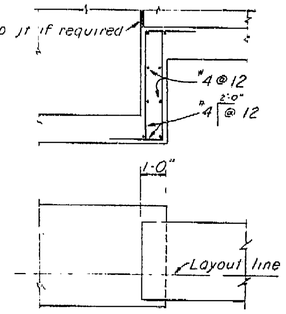


RUBBER WATERSTOP

Note: For details of "Alternative Waterstop" see "Standard Details No. 1" sheet "Route 4 On Ramp 0C."



WALL OFFSET



FOOTING STEP

NOTES

Design Conditions

Design H may be exceeded by 6" before going to the next size. Footing key is required except when found unnecessary by the Engineer. Special footing design is required where foundation material is incapable of supporting toe pressure loads listed in table

Design Data:

fc = 1200 psi fc = 3000 psi fs = 20,000 psi
n = 10 earth = 120 pcf

Equivalent fluid pressure = 36 psf max. for determination of toe pressure
27 psf min for determination of heel pressure

THIS SET OF PLANS HAS BEEN CORRECTED TO AGREE SPOTTED TO THE AS BUILT PRINTS DATED ____ AS SUBMITTED BY RESIDENT ENGINEER
DRAWINGS CORRECTED BY: ____ DATE: ____

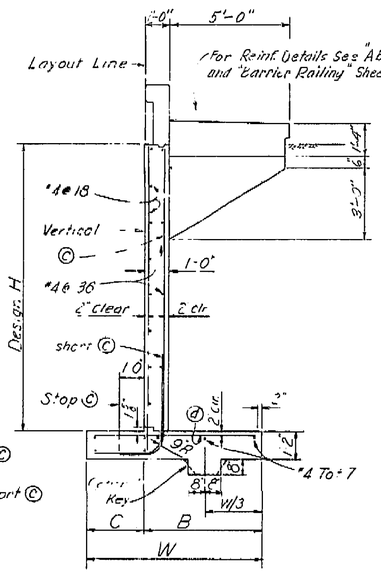
Note:
Reinforcement detailed is to be placed in addition to that shown for spread footing. All piles not shown, see Pile Layout on other sheet.

◉ For pile footing Design H=4' use same footing dimensions as Design H=6'

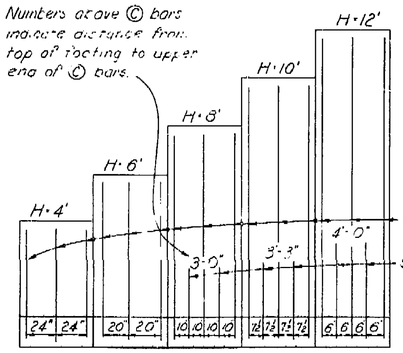
AS BUILT PLANS
Contract No. 62-671303
Date Completed ____
Document No. 60001062

TABLE OF REINFORCING STEEL DIMENSIONS AND DATA

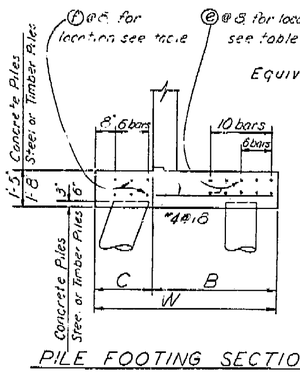
Design H		◉ 4'	6'	8'	10'	12'
W		3'-2"	4'-2"	5'-2"	6'-2"	7'-2"
C		1'-0"	1'-4"	1'-8"	2'-0"	2'-4"
B		2'-2"	2'-10"	3'-6"	4'-2"	4'-10"
© bars		#4 @ 24	#5 @ 20	#5 @ 10	#8 @ 7½	#7 @ 6
Ⓓ bars		#4 @ 24	#5 @ 20	#5 @ 10	#7 @ 15	#7 @ 12
Total Ⓔ bars		6 - #6	6 - #6	6 #6	10 - #7	10 - #7
Total Ⓕ bars					6 - #7	6 - #7
H Comp. pounds		850	1440	2170	3050	4070
V Comp. pounds		2020	3460	5230	7340	9760
e feet		.50	.60	.79	.94	1.07
Toe Pressure P.S.F.		1240	1570	1930	2270	2640
Spread Footing	Steel lbs/ft	13	19	30	49	77
	Conc. C.F./ft	8.6	11.8	15.0	18.1	21.4
Conc. pile Rtg	Steel lbs/ft	24	30	41	82	112
	Conc. C.F./ft	9.9	11.9	15.4	18.8	22.2



SPREAD FOOTING SECTION



ELEVATION



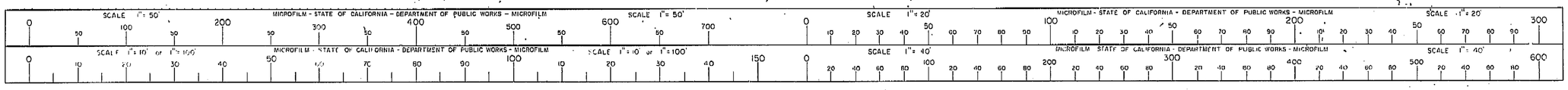
PILE FOOTING SECTION

BRIDGE DEPARTMENT		STATE OF CALIFORNIA
DESIGN SECTION		DEPARTMENT OF PUBLIC WORKS
Project Designer: Carl Peterson		DIVISION OF HIGHWAYS
Chief Designer: W. J. Pollock		
DESIGN by: Kay Hahn '60	Checked: ED Barry '60	CHURCH AVENUE OVERCROSSING
DETAILS by: H.N. Dahl '61	Checked: ED Barry '60	
QUANTITIES by: D.P. Pollock '61	Checked: [illegible]	TYPE I-A CANTILEVER RETAINING WALL
SPECIFICATIONS by:	Prepared Technically:	
Approval Recommended by: [signature] Engineer of Design	Civil Engr. License No. 6430	SCALE None · BRIDGE 42-214 · FILE · DRAWING C-422.14-5

Disregard prints bearing earlier numbers → PREL. DRAWING NO. P- 422.14-7 (7/6/60, 7/26/60, 3/1/61, 5/1/61, 5/2/61)

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE ____ SIGNATURE ____ TITLE ____



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AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 6000 1062

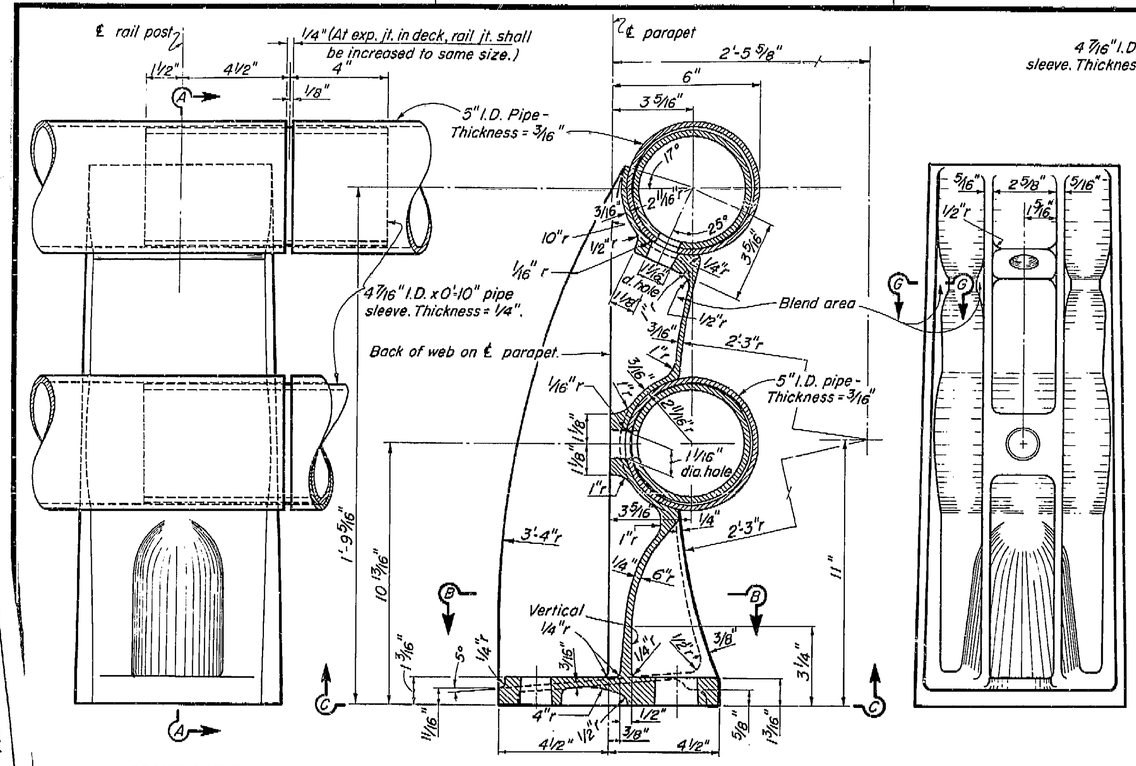
V1 | Fre. | 99

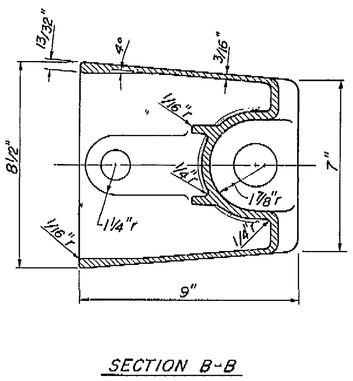
U-006-2(6)
F-006-2(6)

FED. ROAD DIV. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.		280	424

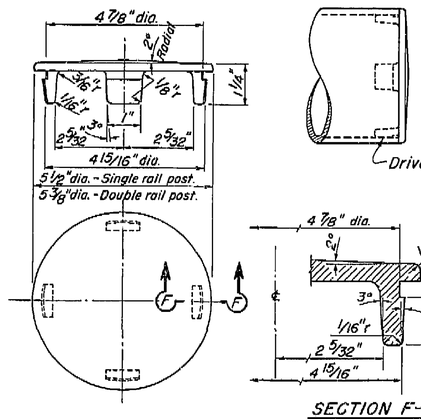
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
4	SCR	9		13	

DATE APPROVED August 28, 1961

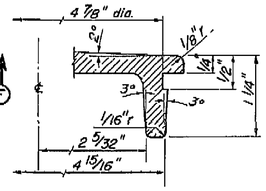




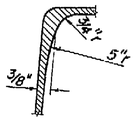
SECTION B-B



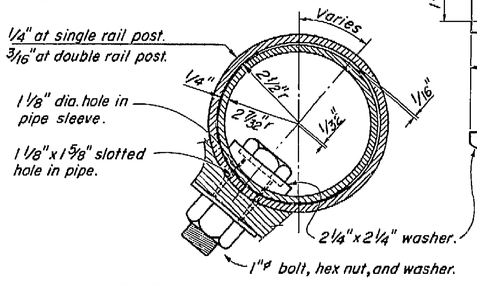
RAIL CAP
1/2" = 1'



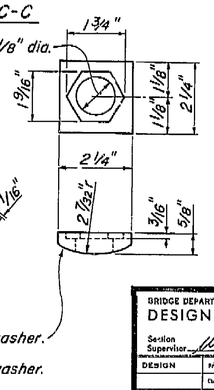
SECTION F-F
1" = 1"



SECTION G-G
1/2" = 1'



RAIL CONNECTION
1/2" = 1"



Notes:

1. At the option of the contractor, material for the railing shall be one of the following:
   a. Aluminum pipe rail and cast aluminum post.
   b. Steel pipe rail and cast steel post. Rail and posts to be galvanized. Steel pipe rail shall be 3/16" thick with 5" I.D.. Rail post dimensions shall be revised as necessary to fit the steel pipe.
2. Shims are to be of asbestos sheet packing.
3. For railing on a horizontal curve the pipe rail shall be bent to the curve or the spacing of posts adjusted so that the middle ordinate between posts will not exceed 1".

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED _____, AS SUBMITTED BY RESIDENT ENGINEER _____.
TRACINGS CORRECTED BY: _____ DATE: _____

BRIDGE DEPARTMENT
DESIGN SECTION 2
Section Supervisor: W. Jenkins

DESIGN	By	Ray Ah Tye	11-60
	Checked	ED Berry	"60
DETAILS	By	Ray Ah Tye	11-60
	Checked	ED Berry	11-60
QUANTITIES	By	O.P. Pollock	1-61
	Checked		

10/60

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CHURCH AVENUE OVERCROSSING

BARRIER RAILING SHEET 2

Except as noted SCALE 3/8" = 1" | BRIDGE 42-214 | XS-9-71 FILE | DRAWING C-42214-12

Disregard prints bearing earlier numbers →

PREL. DRAWING No. P-42214-18 3/24/61 7/19/61

572

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"= 50' | SCALE 1"= 50' | SCALE 1"= 20' | SCALE 1"= 20'
SCALE 1"= 10' or 1"= 100' | SCALE 1"= 10' or 1"= 100' | SCALE 1"= 40' | SCALE 1"= 40'

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California Department of Transportation
Division of Maintenance

Structure Maintenance and Investigations

BRIDGE

INSPECTION

RECORDS

INFORMATION

SYSTEM

The requested documents have been generated by BIRIS.

These documents are the property of the California Department of Transportation and should be handled in accordance with Deputy Directive 55 and the State Administrative Manual.

Records for “Confidential” bridges may only be released outside the Department of Transportation upon execution of a confidentiality agreement.

CONTRACT NO: 06-336604

TRANSFER DATE: 11/19/02
FIELD CORRECTION DATE: 12/11/02

CORRECTIONS TRANSFERED BY: C.Fossett
FIELD CORRECTIONS BY: A.Bossman

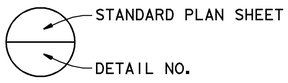
NO AS BUILT CORRECTIONS

INDEX TO PLANS

SHEET NO.	TITLE
1	GENERAL PLAN
2	INDEX TO PLANS
3	FOUNDATION PLAN
4	ABUTMENT LAYOUT
5	ABUTMENT DETAILS NO. 1
6	ABUTMENT DETAILS NO. 2
7	CLOSURE WALL DETAILS
8	BENT 2 LAYOUT
9	BENT 3 LAYOUT
10	BENT 4 LAYOUT
11	BENTS 2 & 4 DETAILS
12	BENT 3 DETAILS NO. 1
13	BENT 3 DETAILS NO. 2
14	PILE DETAILS
15	TYPICAL SECTION
16	GIRDER LAYOUT & REINFORCEMENT
17	PRESTRESSED GIRDER DETAILS NO. 1
18	PRESTRESSED GIRDER DETAILS NO. 2
19	STRUCTURE APPROACH TYPE N(14D) DETAILS NO. 1
20	STRUCTURE APPROACH TYPE N(14D) DETAILS NO. 2
21	STRUCTURE APPROACH DRAINAGE DETAILS
22	LOG OF TEST BORINGS

STANDARD PLANS DATED JULY 1999 WITH ERRATUM NO. 99-1

	A10A	ABBREVIATIONS
	A62C	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL - BRIDGE
	B0-1	BRIDGE DETAILS
RSP	B0-3	BRIDGE DETAILS
	B0-5	BRIDGE DETAILS
	B0-13	BRIDGE DETAILS
	B6-10	UTILITY OPENINGS, T-BEAM
	B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 50 mm)
RSP	B11-53	CONCRETE BARRIER TYPE 25
	B14-4	WATER SUPPLY LINE (BRIDGE) (PIPE SIZES LESS THAN NPS 4)
	B14-5	WATER SUPPLY LINE (DETAILS) (PIPE SIZES LESS THAN NPS 4)

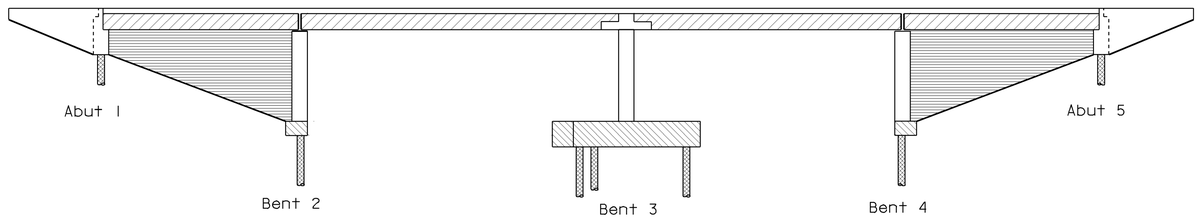


NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

PILE DATA - CIDH CONCRETE PILES

Location	Diameter (mm)	Design Loading (Service Load) (kN)	Nominal Resistance		Design Tip Elevation (m)	Specified Tip Elevation (m)
			Compression (kN)	Tension (kN)		
Abut 1	600	625	1250	0	78.0 (1)	77.0
Bent 2	600	625	1250	0	78.0 (1)	76.0
Bent 3	600	625	1250	365	78.0(1), 82.0(2)	76.0
Bent 4	600	625	1250	0	78.0 (1)	76.0
Abut 5	600	625	1250	0	78.0 (1)	77.0

NOTES: Design Tip Elevation is controlled by the following demands:
(1) Compression, (2) Tension



- Structural Concrete, Bridge
- PC/PS Girder, for concrete strength, see "Prestressed Girder Schedule" on "PRESTRESSED GIRDER DETAILS NO.2" sheet
- Structural Concrete, Bridge Footing
- Cast-In-Drilled-Hole Concrete Pile
- Structural Concrete, Closure Wall

CONCRETE STRENGTH AND TYPE LIMITS

No Scale

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	29.0/32.5	89	109

Jyou-Ru Lyang 7-24-01
REGISTERED CIVIL ENGINEER

8-6-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JYOU-RU LYANG
No. C50300
EXP. 6-30-05
CIVIL
STATE OF CALIFORNIA

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GENERAL NOTES
LOAD FACTOR DESIGN

DESIGN: BRIDGE DESIGN SPECIFICATIONS (1983 13TH Edition AASHTO with Interims and Revisions by CALTRANS)

DEAD LOAD: Includes 1680 Pa for future wearing surface. The deck dead load between the girders has been increased by a factor of 10 percent to allow for the use of steel deck form.

LIVE LOADING: HS20-44 and alternative and permit design load.

SEISMIC LOADING: ATC-32 ARS PBA = 0.2g
Soil Profile Type D

REINFORCED CONCRETE:
f_y = 420 MPa
f'_c = 28 MPa
n = 8
Transverse Deck Slabs (Working Stress Design)
f_s = 140 MPa
f_c = 9 MPa
n = 10

PRESTRESSED CONCRETE: See "PRESTRESSING NOTES"

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DESIGN	BY Jyou-Ru Lyang	CHECKED David Romero	
DETAILS	BY Roberta Lim	CHECKED David Romero	
QUANTITIES	BY Jyou-Ru Lyang	CHECKED David Romero	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 8

BRIDGE NO. 42-213
KILOMETER POST 29.0/32.5

JENSEN AVENUE UC (WIDEN)
INDEX TO PLANS

STRUCTURES DESIGN DETAIL SHEET (METRIC) (REV. 4/20/00)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06249
EA 336601

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 12-1-00 | 1-2-01 | 2-2-01 | 3-1-01 | 4-2-01 | 5-1-01 | 6-1-01 | 7-2-01 | 7-24-01

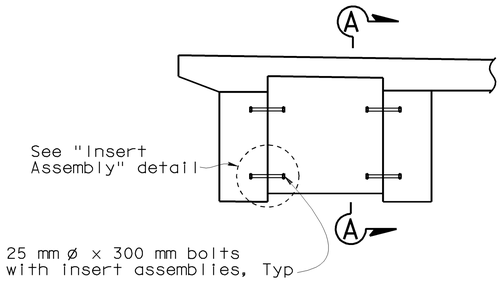
SHEET 2 OF 22

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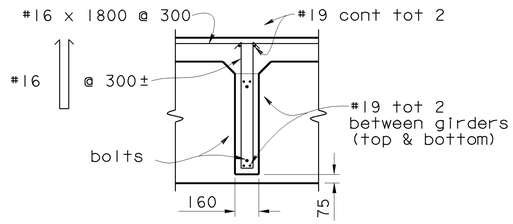
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AS BUILT CORRECTIONS
CORRECTIONS TRANSFERED BY: C. Fossett
FIELD CORRECTIONS BY: A. Bassmon
TRANSFER DATE: 11/9/02
FIELD CORRECTION DATE: 10/1/02
CONTRACT NO: 06-336604



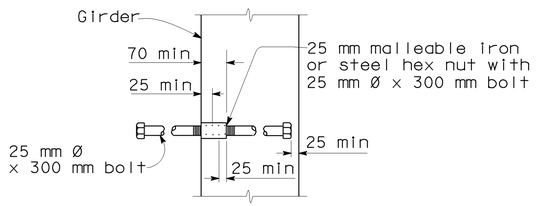
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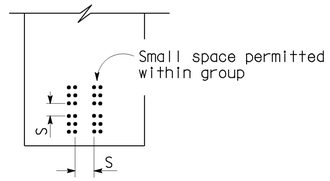
SECTION A-A

1:25



INSERT ASSEMBLY

NO SCALE



CLEARANCES FOR PRETENSIONED STRANDS

1. Strands may be bundled in groups consisting of 3 vertically 2 horizontally, and separated at the ends.
2. The min distance "S" between groups or individual strands is 40 mm for 9.5 mm strands, 45 mm for 11 and 13 mm strands and 50 mm for 15 mm strands.
3. "S" is measured between centers of adjacent strands.
4. Approval of Engineer is required for deviation.

PRESTRESSED GIRDER SCHEDULE

Girder Designation	Length "L" (m)	P = Working force in (kN) "X"		Concrete Strength (MPa) f'_{ci}	Concrete Strength (MPa) f'_c	Deflection Components (mm) ① Deck DL	Deflection Components (mm) ② Rail DL
(A) & (D) & (E)	11.15	100	550	35	35	2	1
		150	600	35	35		
(B) & (C)	18.35	100	1350	35	35	11	6
		150	1500	35	35		
(F)	18.35	100	1650	35	35	12	6
		150	1850	35	35		
(G)	18.35	100	1900	35	35	14	6
		150	2100	35	35		
(H)	11.15	100	750	35	35	4	1
		150	850	35	35		

NOTE: For location of Girders, see "GIRDER LAYOUT & REINFORCEMENT" sheet

PRESTRESSING NOTES

Working force : The force required at center of span after all losses.
Concrete strength : f'_{ci} is at time of initial stressing,
f'_c is at 28 days MPa.
Deflection components : Informational - to be used in setting screed line elevations.

Screed line elevations for deck concrete will be determined by the Engineer.

Contractor may interpolate "P" and "X" values between limits shown, as approved by the Engineer.

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	29.0/32.5	105	109

REGISTERED CIVIL ENGINEER — 5-31-01

8-6-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JYOU-RU LYANG No. C50300 Exp. 6-30-05 CIVIL — STATE OF CALIFORNIA

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DESIGN	BY Jyou-Ru Lyang	CHECKED David Romero	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY Roberta Lim	CHECKED David Romero	DIVISION OF STRUCTURES STRUCTURE DESIGN 8
QUANTITIES	BY Jyou-Ru Lyang	CHECKED David Romero	

BRIDGE NO. 42-213
KILOMETER POST 29.0/32.5

JENSEN AVENUE UC (WIDEN)

PRESTRESSED GIRDER DETAILS NO. 2

STRUCTURES DESIGN DETAIL SHEET (METRIC) (REV. 4/20/00)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06249
EA 336601

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 2-28-01 | 3-30-01 | 4-27-01 | 5-14-01 | 5-31-01

SHEET 18 OF 22

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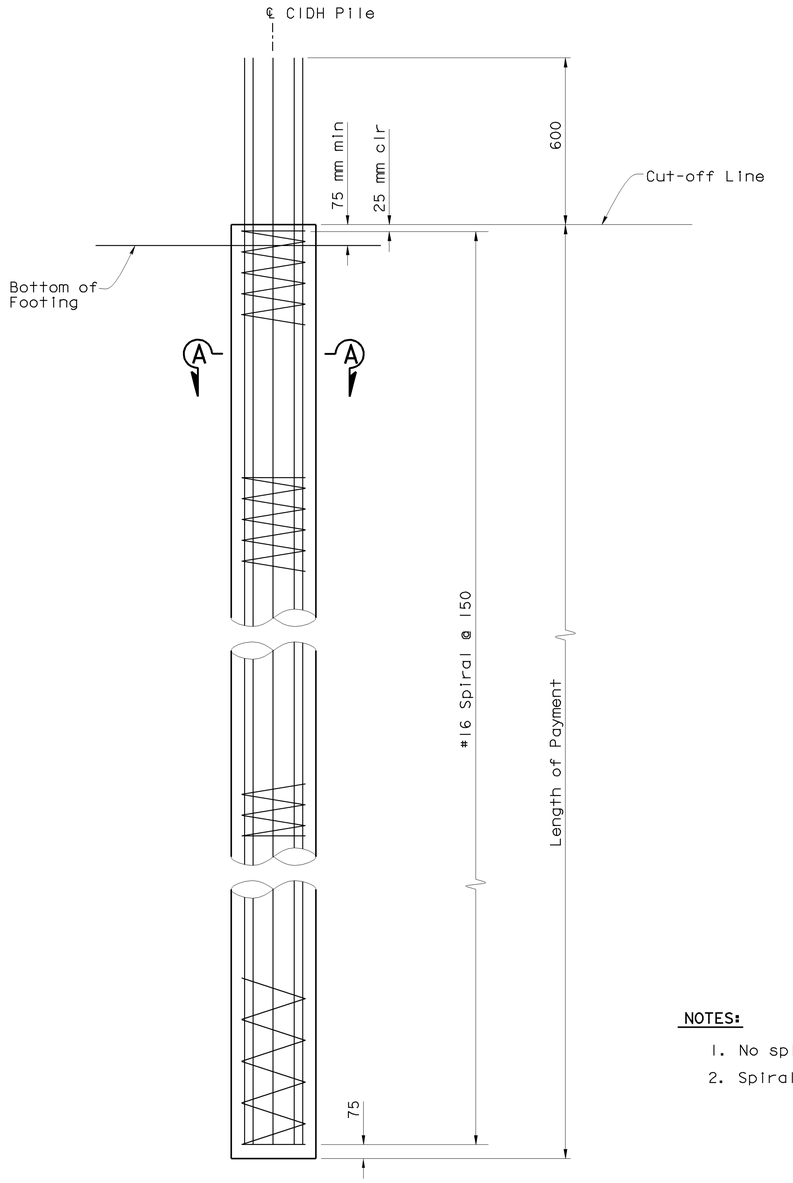
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NO AS BUILT CORRECTIONS

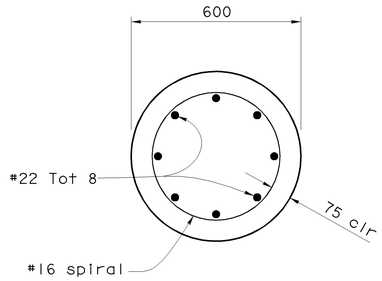
CORRECTIONS TRANSFERED BY: C. Fossett
FIELD CORRECTIONS BY: A. Bassiman

TRANSFER DATE: 11/9/02
FIELD CORRECTION DATE: 10/9/02

CONTRACT No. 06-336604



600 mm CIDH CONCRETE PILE
ELEVATION
1:20



SECTION A-A
1:10

NOTES:

1. No splice allowed in main pile reinforcement
2. Spirals are "Service" butt spliced

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	29.0/32.5	101	109

Jyou Lyang 5-31-01
REGISTERED CIVIL ENGINEER

8-6-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JYOU-RU LYANG
No. C50300
Exp. 6-30-05
CIVIL
STATE OF CALIFORNIA

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DESIGN	BY Jyou-Ru Lyang	CHECKED David Romero	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 8	BRIDGE NO. 42-213
DETAILS	BY Roberta Lim	CHECKED David Romero			KILOMETER POST 29.0/32.5
QUANTITIES	BY Jyou-Ru Lyang	CHECKED David Romero			

JENSEN AVENUE UC (WIDEN)
PILE DETAILS

STRUCTURES DESIGN DETAIL SHEET (METRIC) (REV. 4/20/00)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06249
EA 336601

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

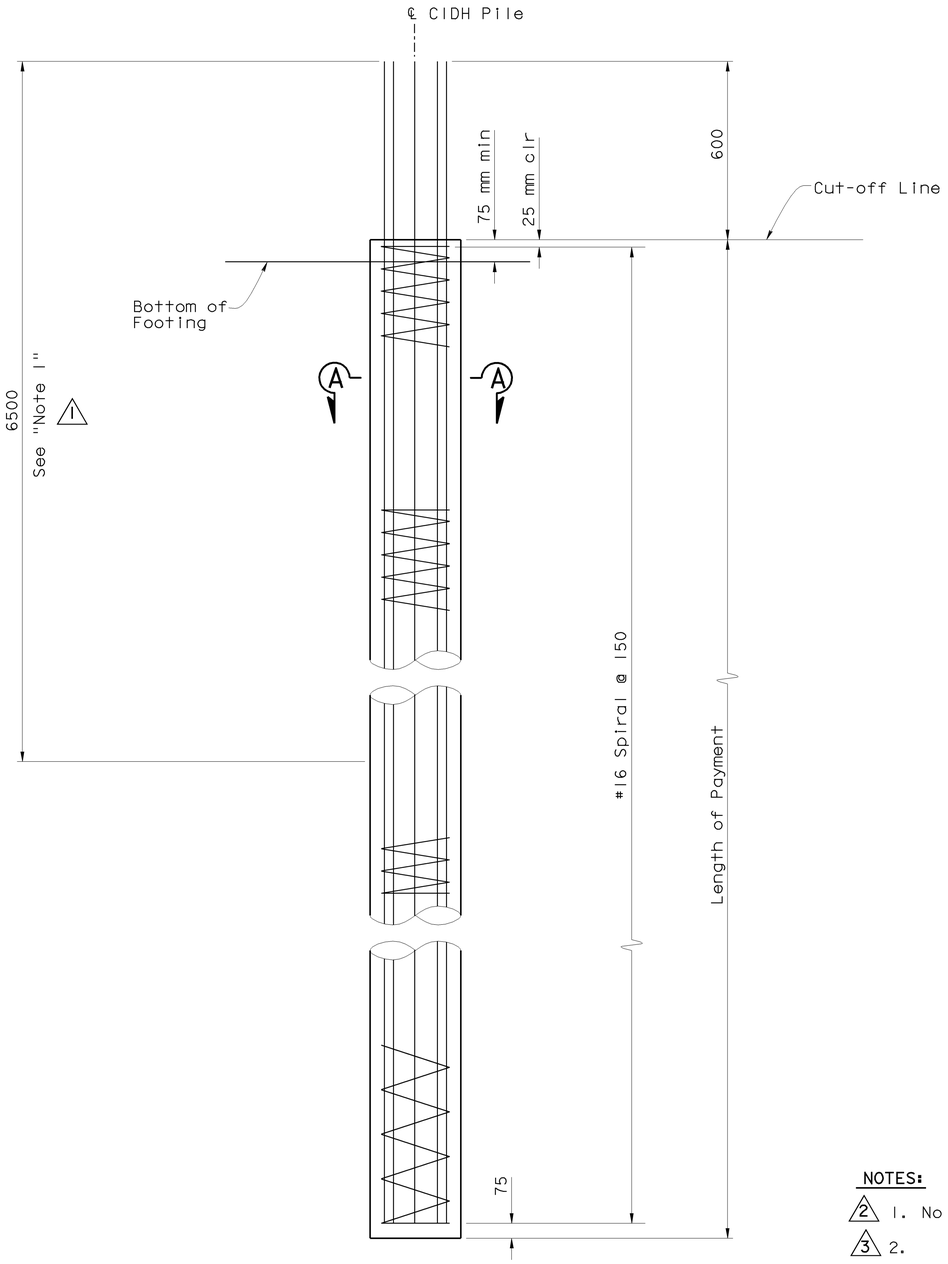
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SHEET 14 OF 22

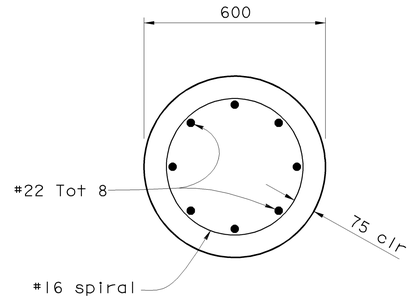
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600 mm CIDH CONCRETE PILE
ELEVATION
1:20



SECTION A-A
1:10

NOTES:

2 1. No splice allowed in main pile reinforcement & spiral reinforcement

3 2.

MARK	DATE	DESCRIPTIONS	BY	CH'D
		REVISIONS		
3		Deleted Note		
2		Revised Note		
1		Added Note		
△				

CONTRACT CHANGE ORDER NO. 9
SHEET 1 OF 1

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No
06	Fre	99	29.0/32.5	101 R

Caltrans Metric

REGISTERED CIVIL ENGINEER 3-27-02

8-6-01
PLANS APPROVAL DATE

JYOU-RU LYANG No. C 50300 Exp. 6-30-05 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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NO AS BUILT CORRECTIONS
CORRECTIONS TRANSFERED BY: C. Fassett
FIELD CORRECTIONS BY: A. Bassman
TRANSFER DATE: 11/5/02
FIELD CORRECTION DATE: 10/1/02
CONTRACT NO: 06-336604

DESIGN	BY Jyou-Ru Lyang	CHECKED David Romero	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 8	BRIDGE NO. 42-213
DETAILS	BY Roberta Lim	CHECKED David Romero			KILOMETER POST 29.0/32.5
QUANTITIES	BY Jyou-Ru Lyang	CHECKED David Romero			

JENSEN AVENUE UC (WIDEN)
PILE DETAILS

STRUCTURES DESIGN DETAIL SHEET (METRIC) (REV. 4/20/00)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06249
EA 336601

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 1-4-01 | 2-1-01 | 2-15-01 | 3-14-01 | 3-27-02

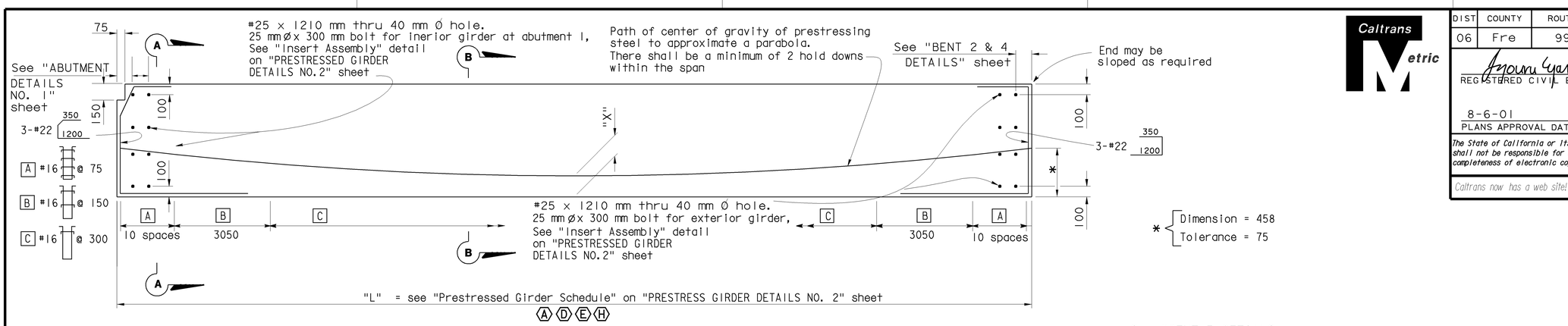
SHEET 14

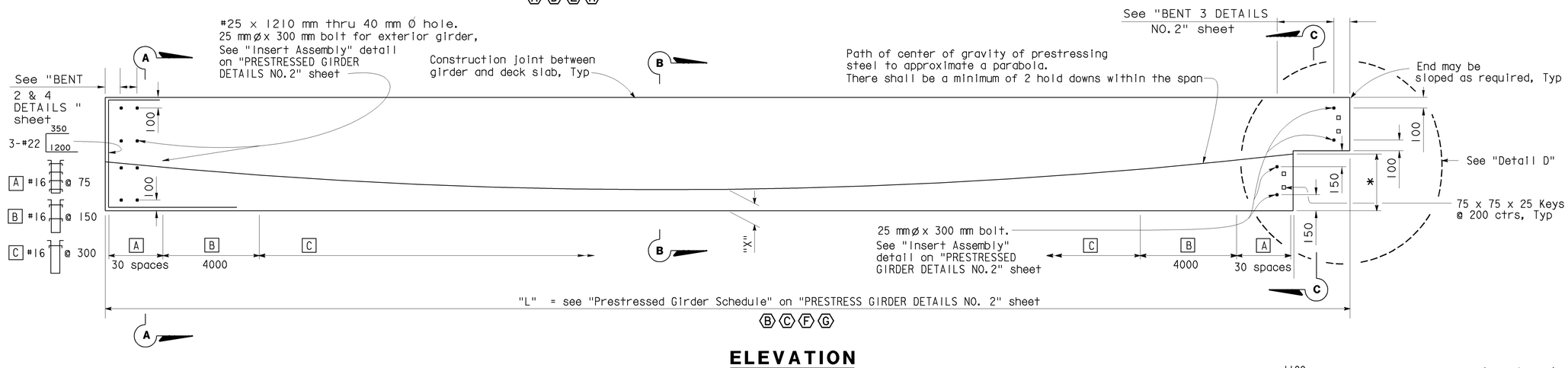
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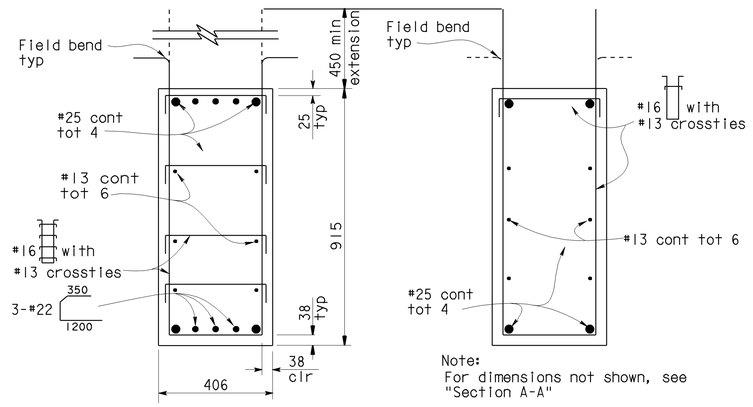
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CONTRACT No: 06-336604
TRANSFER DATE: 11/9/02
FIELD CORRECTION DATE: 10/1/02
CORRECTIONS TRANSFERED BY: C. Fossett
FIELD CORRECTIONS BY: A. Bossman

NO AS BUILT CORRECTIONS





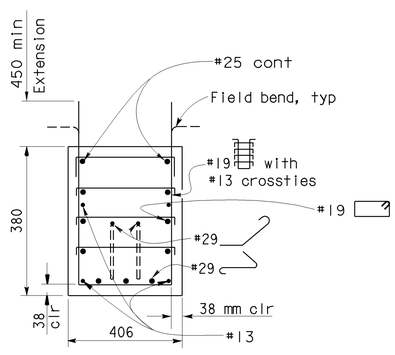


SECTION A-A
1:10

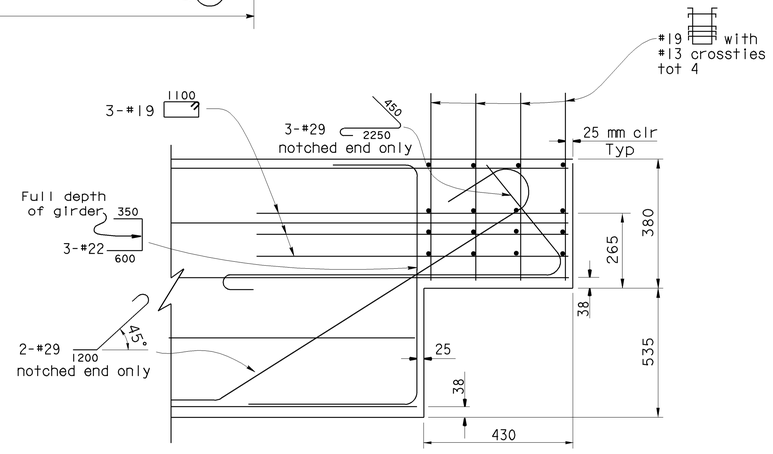
Note:
For dimensions not shown, see "Section A-A"

SECTION B-B
1:10

ELEVATION
1:20



SECTION C-C
1:10



DETAIL D
No Scale

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	29.0/32.5	104	109

Jyou-Ru Lyang 7-24-01
REGISTERED CIVIL ENGINEER

8-6-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JYOU-RU LYANG
No. C50300
Exp. 6-30-05
CIVIL
STATE OF CALIFORNIA

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	BY	CHECKED
DESIGN	Jyou-Ru Lyang	David Romero
DETAILS	Roberta Lim	David Romero
QUANTITIES	Jyou-Ru Lyang	David Romero

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 8

CU 06249
EA 336601

BRIDGE NO. 42-213
KILOMETER POST 29.0/32.5

JENSEN AVENUE UC (WIDEN)
PRESTRESSED GIRDER DETAILS NO. 1

STRUCTURES DESIGN DETAIL SHEET (METRIC) (REV. 4/20/00)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 7-24-01

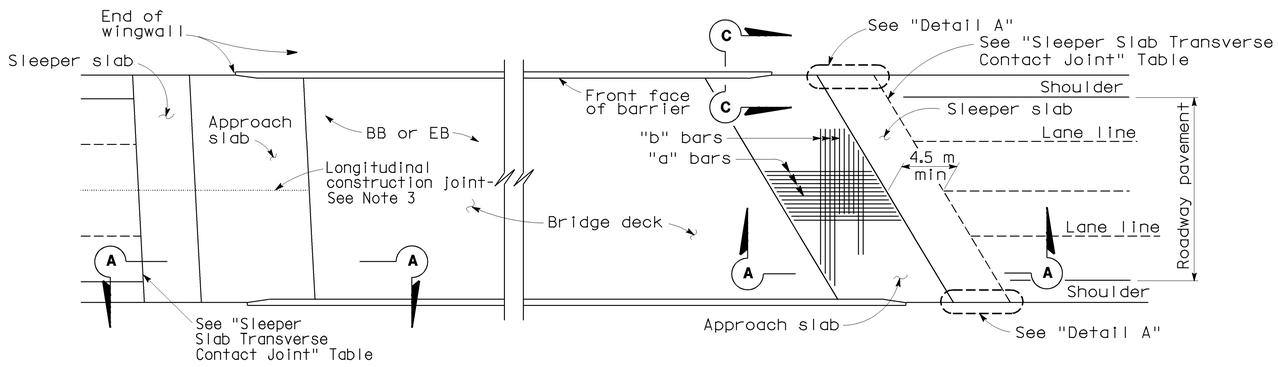
SHEET 17 OF 22

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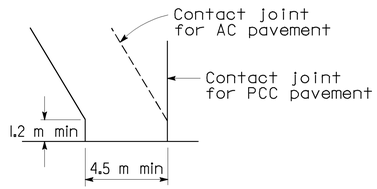
CONTRACT NO. 06-336604
WORK ORDER NO. 1
TRANSFER DATE: 11/9/02
FIELD CORRECTION DATE: 10/1/02
CORRECTIONS TRANSFERED BY: C. Fossett
FIELD CORRECTIONS BY: A. Bassman
NO AS BUILT CORRECTIONS



SKEW < 20°

PLAN

SKEW ≥ 20°



DETAIL A

Caltrans

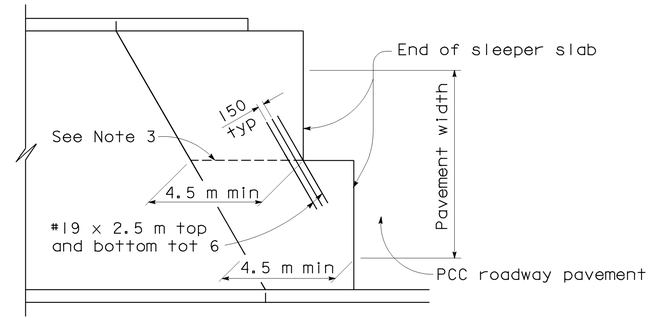
DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	29.0/32.5	106	109

REGISTERED ENGINEER - CIVIL
5-31-01
8-13-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JYOU-RU LYANG
No. C50300
Exp. 6-30-05
CIVIL
STATE OF CALIFORNIA

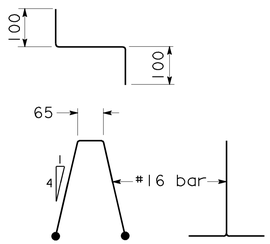
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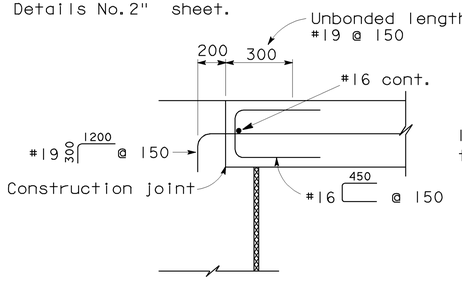


STRUCTURE APPROACH - END STAGGER DETAIL

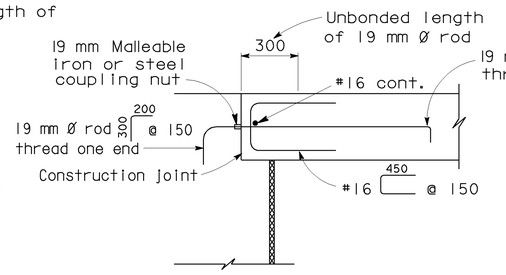
NOTE: For Section C-C, see "Structure Approach Type N (14D) Details No. 2" sheet.



BAR CHAIR DETAIL



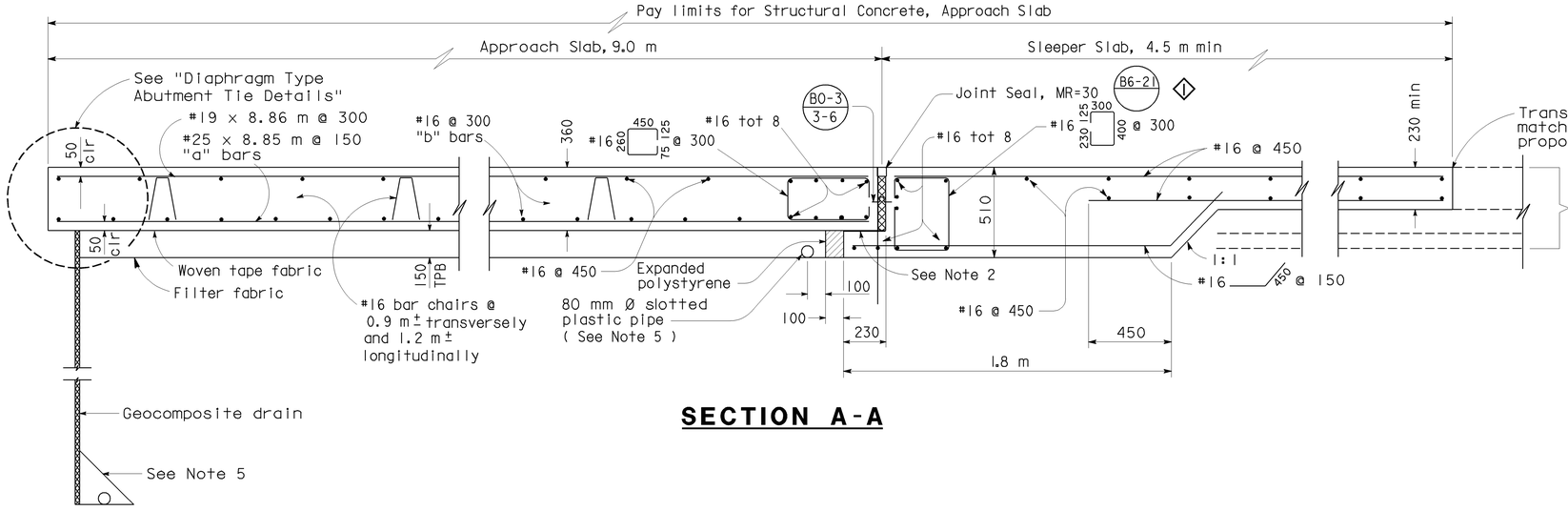
ALTERNATIVE 1



ALTERNATIVE 2

DIAPHRAGM TYPE ABUTMENT TIE DETAILS (SEE NOTE 1)

APPROACH SLAB TRANSVERSE CONTACT JOINT		
APPROACH SKEW	WITH AC ROADWAY PAVEMENT	WITH PCC ROADWAY PAVEMENT
< 20°	Parallel to face of paving notch	Parallel to face of paving notch
20° - 45°	Parallel to face of P N use (Detail A)	Stagger lines 7.2 m to 10.8 m apart
> 45°	Parallel to face of P N use (Detail A)	Stagger at each lane line



SECTION A-A

NOTES:

1.
2. Sliding joint 7 x 225 neoprene strip, coat top with silicone grease and cover with 225 x 1.613 galvanized sheet metal.
3. Longitudinal construction joints, when permitted by the Engineer, shall be located on lane lines.
4. For transverse contact joint with new PCC paving, refer to Standard Plan A35-A.
5. For drainage details, see "Structure Approach Drainage Details" sheet.
6. At the contractor's option, slab transverse reinforcement may be placed parallel to paving notch. Spacing of transverse reinforcement is measured along ℄ roadway.

SPECIAL DETAILS

NO SCALE

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

STANDARD DRAWING

FILE NO. XS 22-16.0	DESIGN BY M.TRAFFALIS	CHECKED E.THORKILDSEN	APPROVAL RECOMMENDED BY
DRAWING DATE REVISED	DETAILS BY R.YEE	CHECKED E.THORKILDSEN	DESIGN SUPERVISOR
	SUBMITTED BY M.HA		

1 Revised Note
2 Deleted Note

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
DIVISION OF STRUCTURES
STRUCTURE DESIGN 8

CU 06249
EA 336601

BRIDGE NO. 42-213
KILOMETER POST 29.0/32.5

JENSEN AVENUE UC (WIDEN)

STRUCTURE APPROACH TYPE N (14D) DETAILS NO. 1

SHEET 19 OF 22

DISREGARD PRINTS BEARING EARLIER REVISION DATES →
REVISION DATES (PRELIMINARY STAGE ONLY): 1-23-01 | 3-15-01 | 4-16-01 | 5-1-01 | 5-31-01

DS OSD 2147A (METRIC) (REV. 2/25/97)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

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213_1922_r1_san14d1.dgn
XS22160.DGN

DATE PLOTTED => 12-DEC-2002 TIME PLOTTED => 15:10

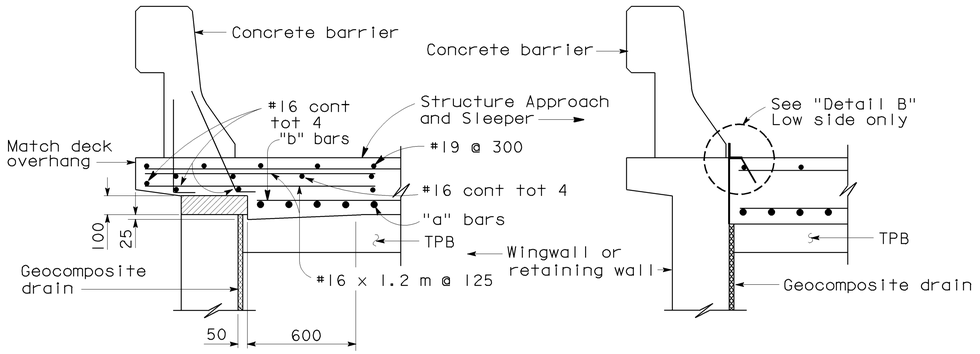
ClibPDF - www.fastio.com

AS BUILT CORRECTIONS

CORRECTIONS TRANSFERED BY: C. Fossett
FIELD CORRECTIONS BY: A. Bassman

TRANSFER DATE: 11/19/02
FIELD CORRECTION DATE: 10/1/02

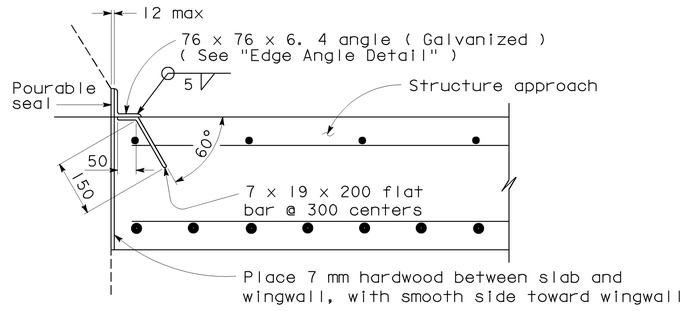
CONTRACT NO. 06-336604 - 97



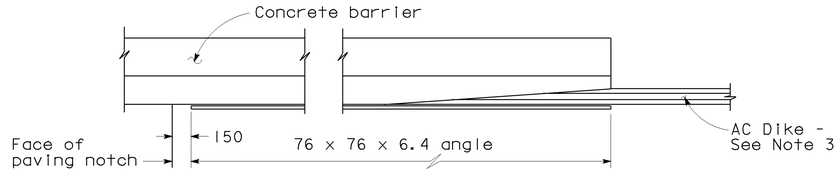
TYPE E-1 **TYPE E-2**

SECTION C-C

(Type E-1 to be used, unless otherwise shown on plans)



DETAIL B



EDGE ANGLE DETAIL

PLAN (SEE NOTE 1)

GUARDRAIL AND DIKE DETAILS

SECTION G-G

SECTION H-H

SECTION I-I

NOTES:

1. AC Dike and MBGR, if required, are shown for typical application only. For details of this project, see "Road Plans".
2. Optional DF (Douglas Fir) block spacers attached as shown, may be used adjacent to Approach Slabs. Use 90 x 190 x 350 DF block spacer for 250 x 250 DF posts and 90 x 143 x 350 DF block spacer for 143 x 190 DF posts.
3. AC Dike, when required, shall be placed as shown. When AC Dike is not required, end angle at beginning of barrier transition, end of wingwall or end of Approach Slab, as applicable.

▨ Remove all polystyrene.

NO SCALE

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	29.0/32.5	107	109

Caltrans Metric

REGISTERED ENGINEER - CIVIL
5-31-01

8-13-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JYOU-RU LYANG
No. C50300
Exp. 6-30-05
CIVIL
STATE OF CALIFORNIA

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DATE PLOTTED => 12-DEC-2002 TIME PLOTTED => 15:10

STANDARD DRAWING

FILE NO. XS 22-16.1	DESIGN BY M. TRAFFALIS	CHECKED E. THORKILDSEN	APPROVAL RECOMMENDED BY
DRAWING DATE 8/92	DETAILS BY R. YEE	CHECKED E. THORKILDSEN	DESIGN SUPERVISOR
	SUBMITTED BY M. HA		

DS OSD 2147A (METRIC) (REV. 2/25/97)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 8

CU 06249
EA 336601

BRIDGE NO.	42-213
KILOMETER POST	29.0/32.5

JENSEN AVENUE UC (WIDEN)

STRUCTURE APPROACH TYPE N(14D) DETAILS NO. 2

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 1-31-01 | 3-15-01 | 5-14-01 | 5-31-01

SHEET 20 OF 22

USERNAME => cfassett

213_2022_r1_san14d2.dgn

XS22161.DGN

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NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
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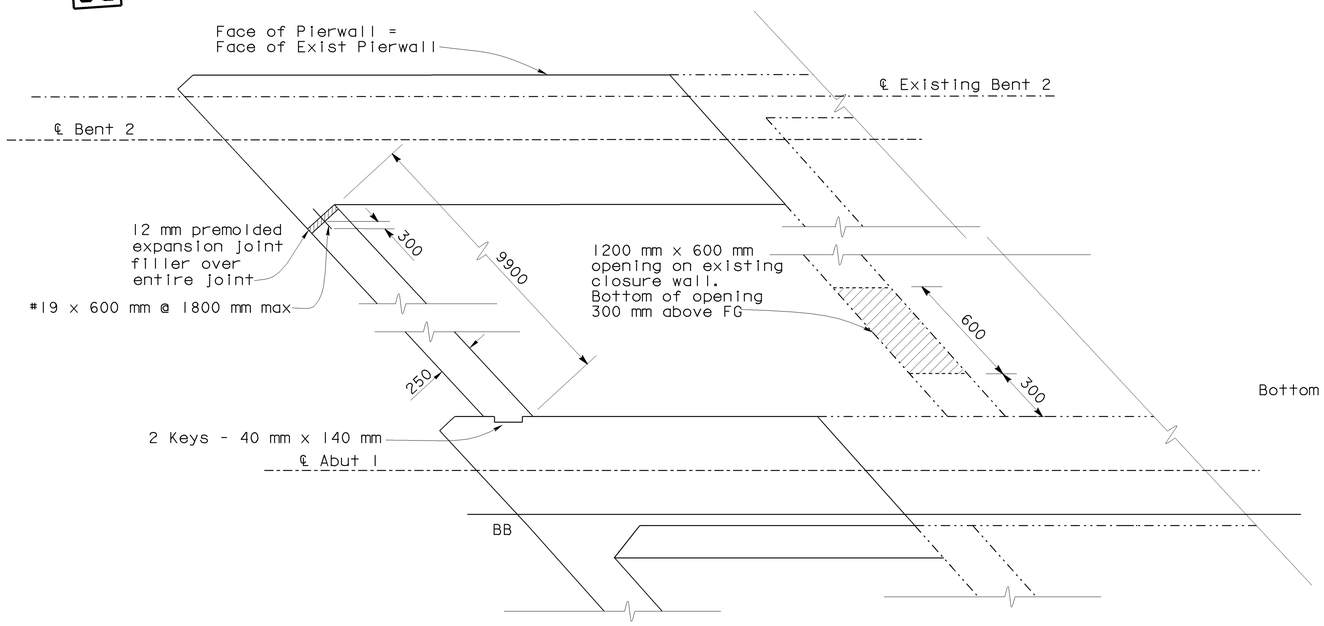
Jyou Lyang 5-31-01
REGISTERED CIVIL ENGINEER

8-6-01
PLANS APPROVAL DATE

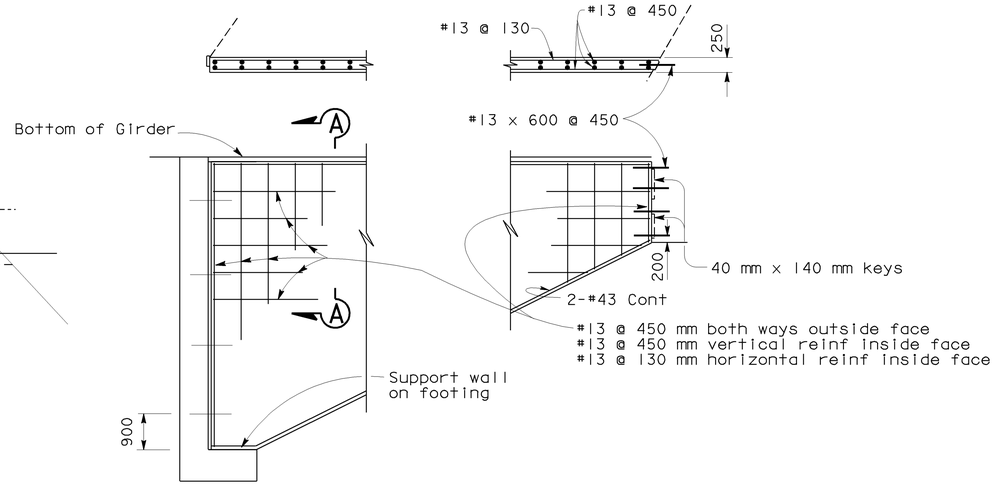
REGISTERED PROFESSIONAL ENGINEER
JYOU-RU LYANG
No. C50300
Exp. 6-30-05
CIVIL
STATE OF CALIFORNIA

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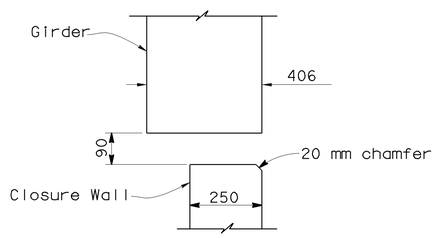
PLAN
1:20



ELEVATION
No Scale

NOTE:
Closure wall between Abutment 1 and Bent 2 shown,
Closure wall between Abutment 5 and Bent 4 similar.

LEGEND:
Indicates existing closure wall removal



SECTION A-A
No Scale

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

	BY	CHECKED
DESIGN	Jyou-Ru Lyang	David Romero
DETAILS	Roberta Lim	David Romero
QUANTITIES	Jyou-Ru Lyang	David Romero

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 8

CU 06249
EA 336601

BRIDGE NO. 42-213
KILOMETER POST 29.0/32.5

JENSEN AVENUE UC (WIDEN)
CLOSURE WALL DETAILS

STRUCTURES DESIGN DETAIL SHEET (METRIC) (REV. 4/20/00)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 3-1-01 | 3-12-01 | 4-26-01 | 5-14-01 | 5-31-01

SHEET 7 OF 22

FILE => 213_0722_r1_cwd.dgn

USERNAME => cfassett DATE PLOTTED => 12-DEC-2002 TIME PLOTTED => 15:05

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AS BUILT CORRECTIONS

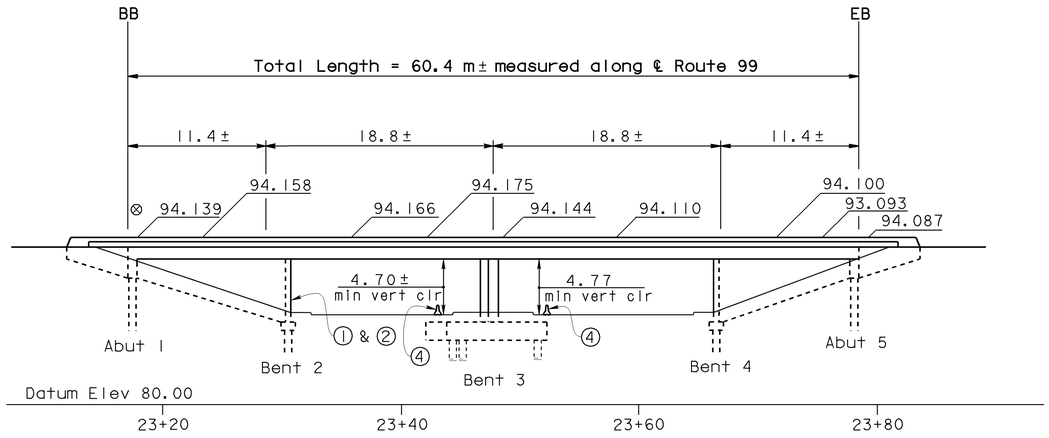
CONTRACT NO: 06-336604

TRANSFER DATE: 11/19/02
FIELD CORRECTION DATE: 10/1/02

CORRECTIONS TRANSFERED BY: C. Fossett
FIELD CORRECTIONS BY: A. Rossmon

NOTES:

1. Paint Br No. "42-213"
2. Paint "Jensen Ave UC"
3. Remove Existing Type 2 Barrier and overhang
4. Temporary Railing (Type K), see "Road Plans"
5. Match Existing cross-slope & Grade
6. Structure Approach Slab Type N(14D)
7. Limits of Widening
8. Concrete Barrier Type 25
9. Longitudinal Construction Joint in approach slab
10. MBGR, see "Road Plans"
11. Existing Concrete Barrier 60A
12. NPS3 Water Supply Line
13. One 4IC, Electrical Conduit, see "Road Plans"
14. No. 9A Pull Box, see "Road Plans"
15. Refinish Bridge Deck



MIRRORED ELEVATION

1:250

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

⊗ Final Elevations

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	29.0/32.5	88	109

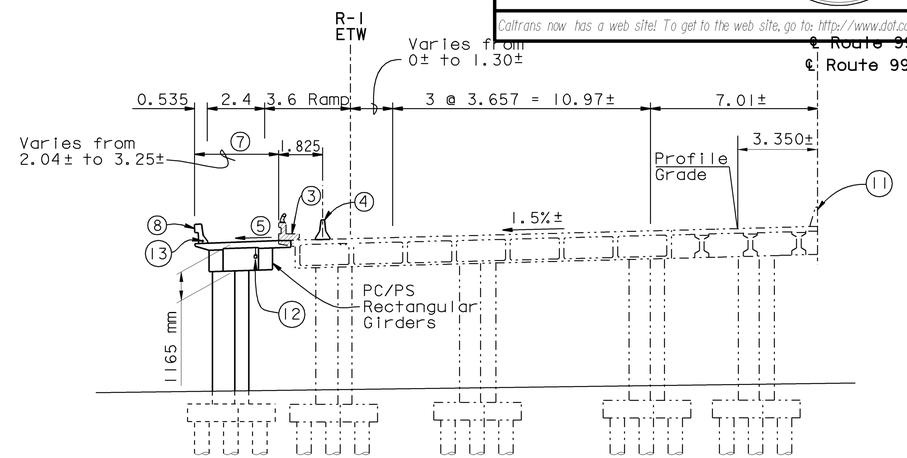
Jyou-Ru Lyang 7-24-01
REGISTERED CIVIL ENGINEER

8-6-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Jyou-Ru Lyang — No. C50300 — Exp. 6-30-05 — CIVIL — STATE OF CALIFORNIA

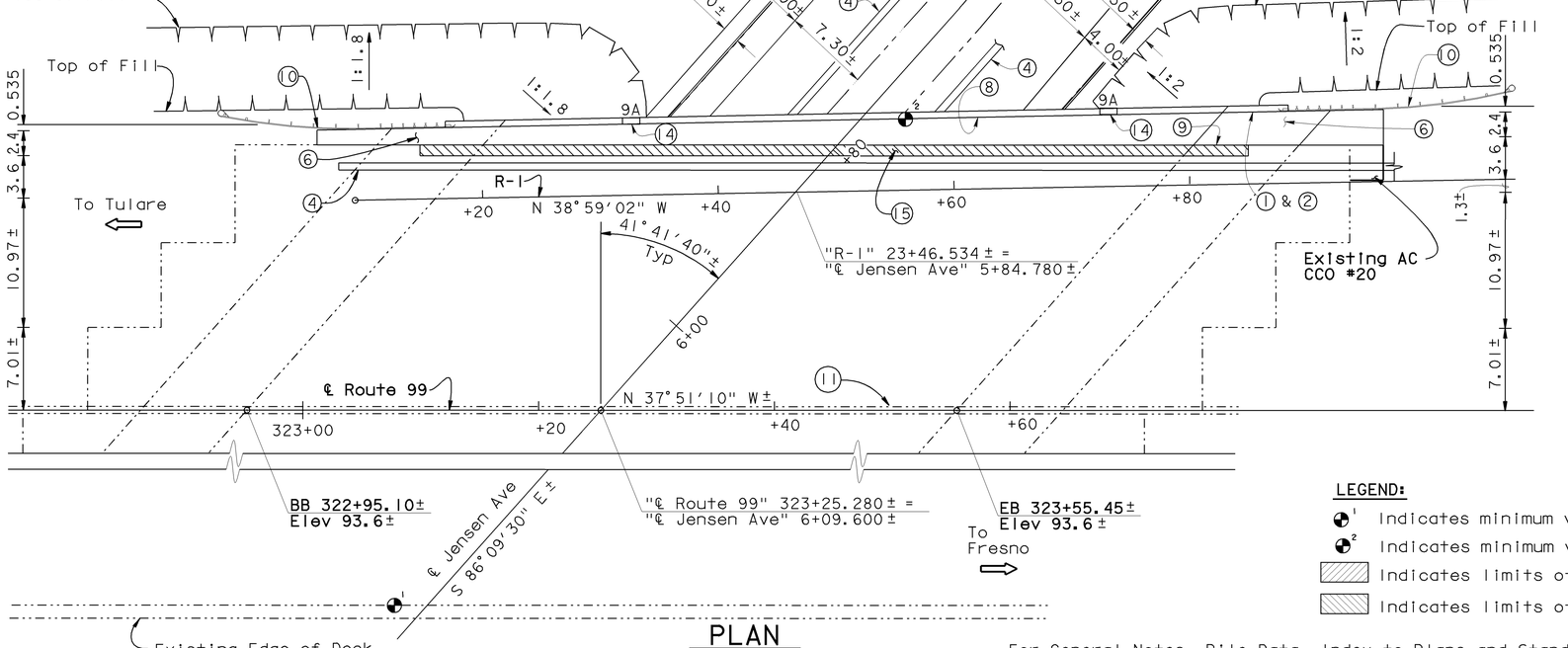
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TYPICAL SECTION

1:125



PLAN

1:250

QUANTITIES	LUMP SUM	
BRIDGE REMOVAL (PORTION)		
STRUCTURE EXCAVATION (BRIDGE)	115	m^3
STRUCTURE BACKFILL (BRIDGE)	62	m^3
NPS 3 SUPPLY LINE (BRIDGE)	80 ~~90~~	m
600 mm CAST-IN-DRILLED-HOLE CONCRETE PILING	223	m
STRUCTURAL CONCRETE, BRIDGE FOOTING	40	m^3
STRUCTURAL CONCRETE, BRIDGE	120 ~~160~~	m^3
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N)	20	m^3
DRILL AND BOND DOWEL	54	m
FURNISH PRECAST PRESTRESSED CONCRETE GIRDER (10 m - 15 m)	4	EA
FURNISH PRECAST PRESTRESSED CONCRETE GIRDER (15 m - 20 m)	4	EA
ERECT PRECAST PRESTRESSED CONCRETE GIRDER	8	EA
CONCRETE CLOSURE WALL	68	m^2
REFINISH BRIDGE DECK	37 ~~19~~	m^2
BAR REINFORCING STEEL (BRIDGE)	35,900	kg
CONCRETE BARRIER (TYPE 25)	66	m

LEGEND:

- ① Indicates minimum vertical clearance at existing
- ② Indicates minimum vertical clearance at widening
- Indicates limits of bridge removal
- Indicates limits of bridge deck refinish

For General Notes, Pile Data, Index to Plans and Standard Plans List, see "INDEX TO PLANS" sheet

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

BRIAN MORI
DESIGN ENGINEER

	BY	CHECKED
DESIGN	Jyou-Ru Lyang	David Romero
DETAILS	D.Forbes/R.Lim	David Romero
QUANTITIES	Jyou-Ru Lyang	David Romero

LOAD FACTOR DESIGN — LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD

	BY	CHECKED
LAYOUT	Jyou-Ru Lyang	David Romero
SPECIFICATIONS	Kathy Iwasaki	PLANS AND SPECS COMPARED Kathy Iwasaki

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 8

CU 06249
EA 336601

BRIDGE NO. 42-213
KILOMETER POST 29.0/32.5

JENSEN AVENUE UC (WIDEN)
GENERAL PLAN

STRUCTURES DESIGN GENERAL PLAN SHEET (METRIC) (REV.3/1/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 4-4-00 | 3-2-01 | 4-16-01 | 4-23-01 | 5-14-01 | 7-24-01 | 1-18-01 | 3-14-01

SHEET 1 OF 22

FILE => 213_0122_r2_gp.dgn

USERNAME => cfossett DATE PLOTTED => 12-DEC-2002 TIME PLOTTED => 15:49

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NO AS BUILT CORRECTIONS

CORRECTIONS TRANSFERRED BY: C. Fossett
FIELD CORRECTIONS BY: A. Bossman

TRANSFER DATE: 11/8/02
FIELD CORRECTION DATE: 10/9/02

CONTRACT NO: 06-336604

CHECKED: J. Gaute 11-97

Approved for use as shown [signature] Reg. Civil Engr. Dist. 6 Fresno

U-006-2(6)
F-006-2(5)

FED. ROAD DIV NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
7	CAL.			267	424

REGISTERED GEOLOGIST — Reid Buell — No 1481 — Exp 4-30-03 — CERTIFIED ENGINEERING GEOLOGIST — STATE OF CALIFORNIA

DIST	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	Fre	4	B	12	17

BRIDGE ENGINEER — CIVIL ENGINEER—LICENSE 8946

DATE APPROVED AUGUST 28, 1961

DIVISION OF ENGINEERING SERVICES - OFFICE OF GEOTECHNICAL SERVICES

As-Built Log of Test Borings sheet is considered an informational document only. As such, the State of California registration seal with signature, license number and registration certificate expiration date confirm that this is a true and accurate copy of the original document. It does not attest to the accuracy or validity of the information contained in the original document. This drawing is available and presented only for the convenience of any bidder, contractor or other interested party

DIST	COUNTY	ROUTE	KILOMETER POST - TOTAL PROJECT	Sheet No.	Total Sheets
06	Fre	99	29.0/32.5	109	109

CERTIFIED ENGINEERING GEOLOGIST

JENSEN AVENUE UC (WIDEN)

LOG OF TEST BORINGS

NOTE: A COPY OF THIS LOG OF TEST BORINGS IS AVAILABLE AT OFFICE OF STRUCTURE MAINTENANCE AND INVESTIGATIONS, SACRAMENTO, CALIFORNIA

CU: 06 EA: 336601

BRIDGE No. 42-0213

TO ACCOMPANY PLANS DATED 8-6-01

Revisions made to this Log of Test Borings from the original 1961 Log of Test Borings are as follows

1 Converted station values on "℄ Jensen" and "℄ Survey" from English to metric are.

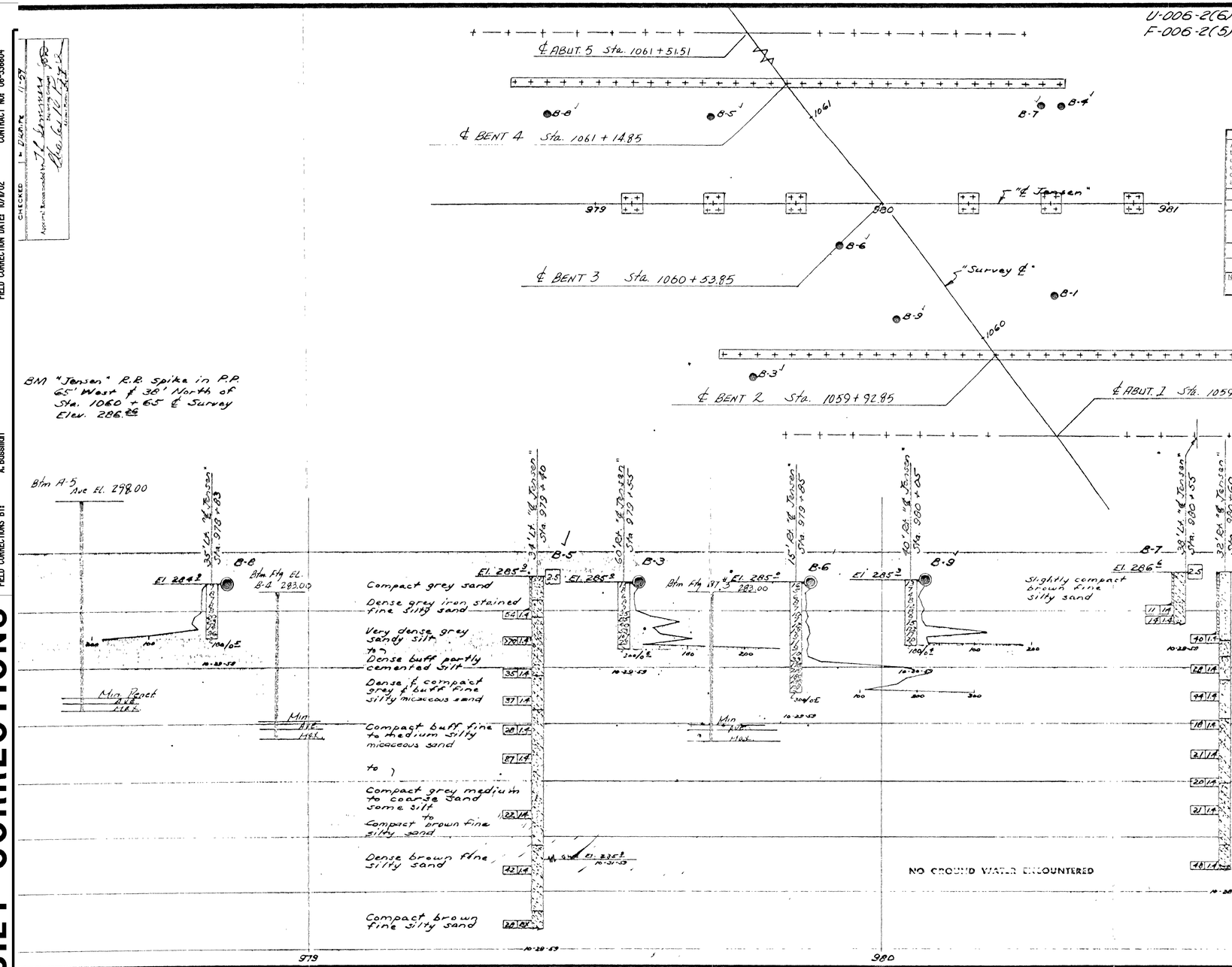
1961 ℄ Jensen Station	Metric Station
979	298+39 92
980	298+70 40
981	299+00 88

1961 ℄ Survey Station	Metric Station
1060	323+08 80
1061	323+39 28

2 Converted boring locations from English to metric

Boring	Station	Offset from "℄ Jensen"
B-1	298+88 688	9 754 m Right
B-2	299+08 500	18 288 m Right
B-3	298+56 684	18 288 m Right
B-4	298+89 297	11 582 m Left
B-5	298+52 112	10 363 m Left
B-6	298+65 828	4 572 m Right
B-7	298+87 164	11 582 m Left
B-8	298+34 738	10 668 m Left
B-9	298+71 924	12 192 m Right

AS BUILT
CORRECTIONS BY [illegible]
CONTRACT NO. [illegible]
DATE APR 8 19[illegible]



PLAN
Scale: 1" = 20'

PROFILE
Scale: 1" = 10'

CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS

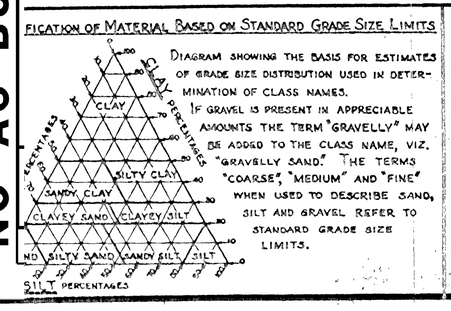


DIAGRAM SHOWING THE BASIS FOR ESTIMATES OF GRADE SIZE DISTRIBUTION USED IN DETERMINATION OF CLASS NAMES.

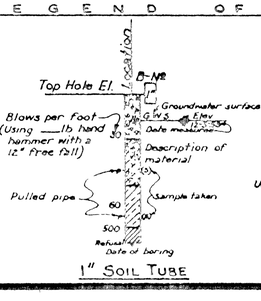
IF GRAVEL IS PRESENT IN APPRECIABLE AMOUNTS THE TERM "GRAVELLY" MAY BE ADDED TO THE CLASS NAME, VIZ. "GRAVELLY SAND." THE TERMS "COARSE", "MEDIUM" AND "FINE" WHEN USED TO DESCRIBE SAND, SILT AND GRAVEL REFER TO STANDARD GRADE SIZE LIMITS.

LEGEND OF EARTH MATERIALS

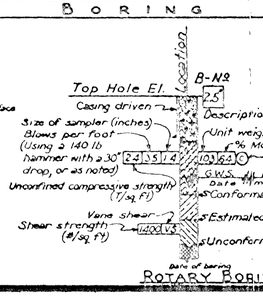
- GRAVEL
- SAND
- SILT
- CLAY
- SANDY CLAY OR CLAYEY SAND
- SANDY SILT OR SILTY SAND
- SILTY CLAY OR CLAYEY SILT
- PEAT AND/OR ORGANIC MATTER
- FILL MATERIAL
- IGNEOUS ROCK
- SEDIMENTARY ROCK
- METAMORPHIC ROCK

LEGEND OF BORING OPERATIONS

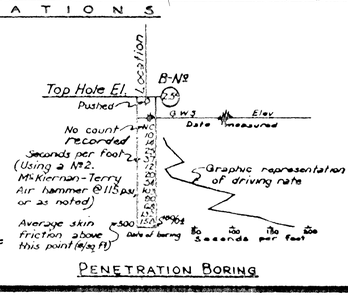
- PLAN OF ANY BORING
- PENETROMETER
- 2½" CONE PENETROMETER
- SAMPLER BORING (DRY)
- ROTARY BORING (WET)
- AUGER BORING (DRY)
- JET BORING
- CORE BORING
- TEST PIT



1" SOIL TUBE



ROTARY BORING



PENETRATION BORING

NOTES

Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

JENSEN AVE UNDERCROSSING

LOG OF TEST BORINGS

SCALE As Noted	BRIDGE 42-213	FILE E-42	DRAWING C-6740-12

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br420213#22of22.tif

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Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	29.0/32.5	103	109

REGISTERED CIVIL ENGINEER — 7-24-01

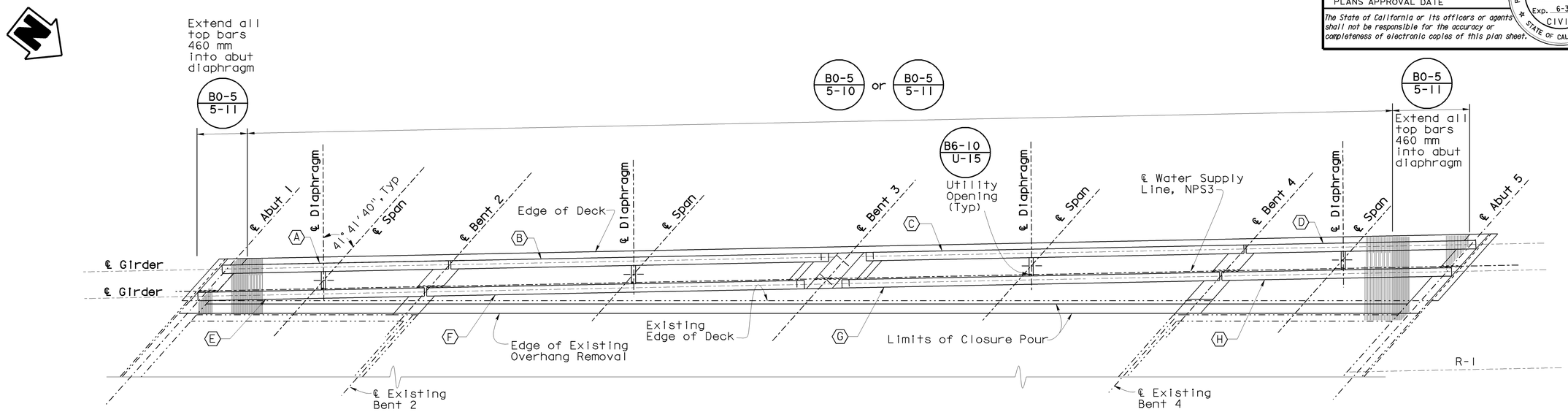
8-6-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JYOU-RU LYANG — No. C50300 — Exp. 6-30-05 — CIVIL — STATE OF CALIFORNIA

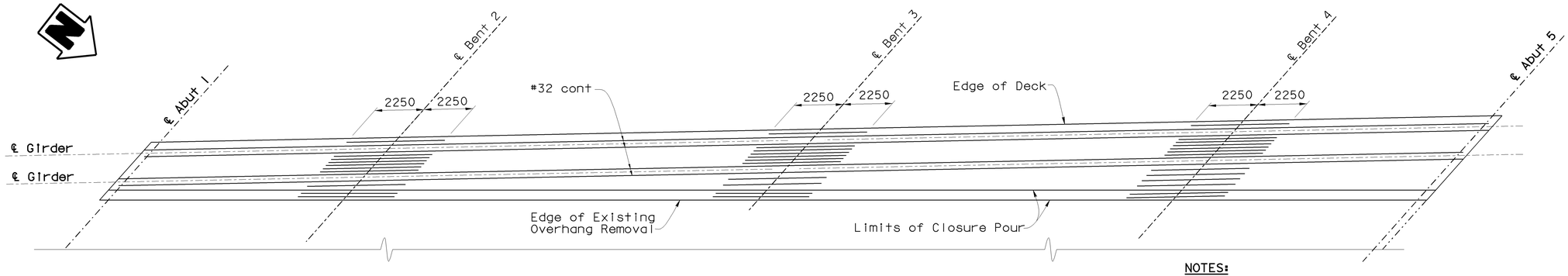
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CONTRACT NO: 06-336604
TRANSFER DATE: 11/8/02
FIELD CORRECTION DATE: 10/9/02
CORRECTIONS TRANSFERED BY: C. Fossett
FIELD CORRECTIONS BY: A. Bossman

NO AS BUILT CORRECTIONS



PLAN
1:100



TOP REINFORCEMENT
1:100

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

NOTES:
1. All reinforcement #32 unless otherwise noted.
2. For intermediate diaphragm details, see "PRESTRESSED GIRDER DETAILS NO. 2" sheet.

LEGEND:
Denotes Precast P/S Girder

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DESIGN	BY Jyou-Ru Lyang	CHECKED David Romero	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY Roberta Lim	CHECKED David Romero	DIVISION OF STRUCTURES STRUCTURE DESIGN 8
QUANTITIES	BY Jyou-Ru Lyang	CHECKED David Romero	

BRIDGE NO. 42-213
KILOMETER POST 29.0/32.5

JENSEN AVENUE UC (WIDEN)
GIRDER LAYOUT & REINFORCEMENT

STRUCTURES DESIGN DETAIL SHEET (METRIC) (REV. 4/20/00)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06249
EA 336601

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 2-15-01 | 2-28-01 | 3-5-01 | 3-13-01 | 5-14-01 | 5-15-01 | 7-24-01

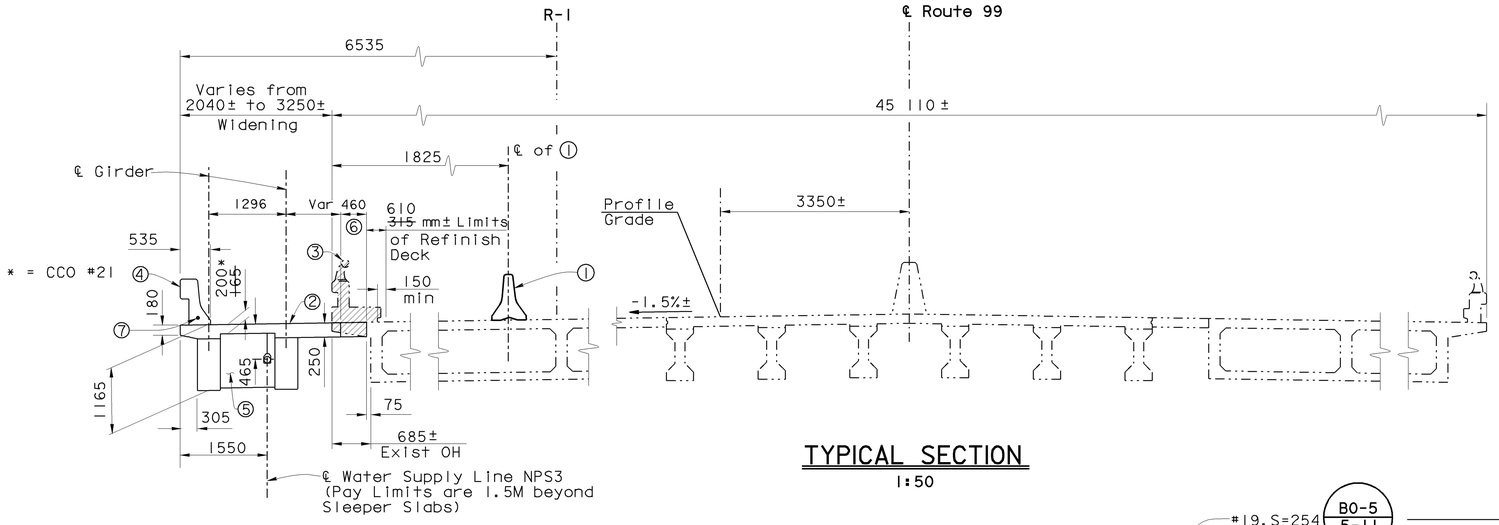
SHEET 16 OF 22

FILE => 213_1622_r2_gir.dgn

USERNAME => cfossett DATE PLOTTED => 12-DEC-2002 TIME PLOTTED => 15:09

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CONTRACT NO: 06-336604
TRANSFER DATE: 11/19/02
FIELD CORRECTION DATE: 10/9/02
CORRECTIONS TRANSFERED BY: C. Fossett
FIELD CORRECTIONS BY: A. Bassman
AS BUILT CORRECTIONS



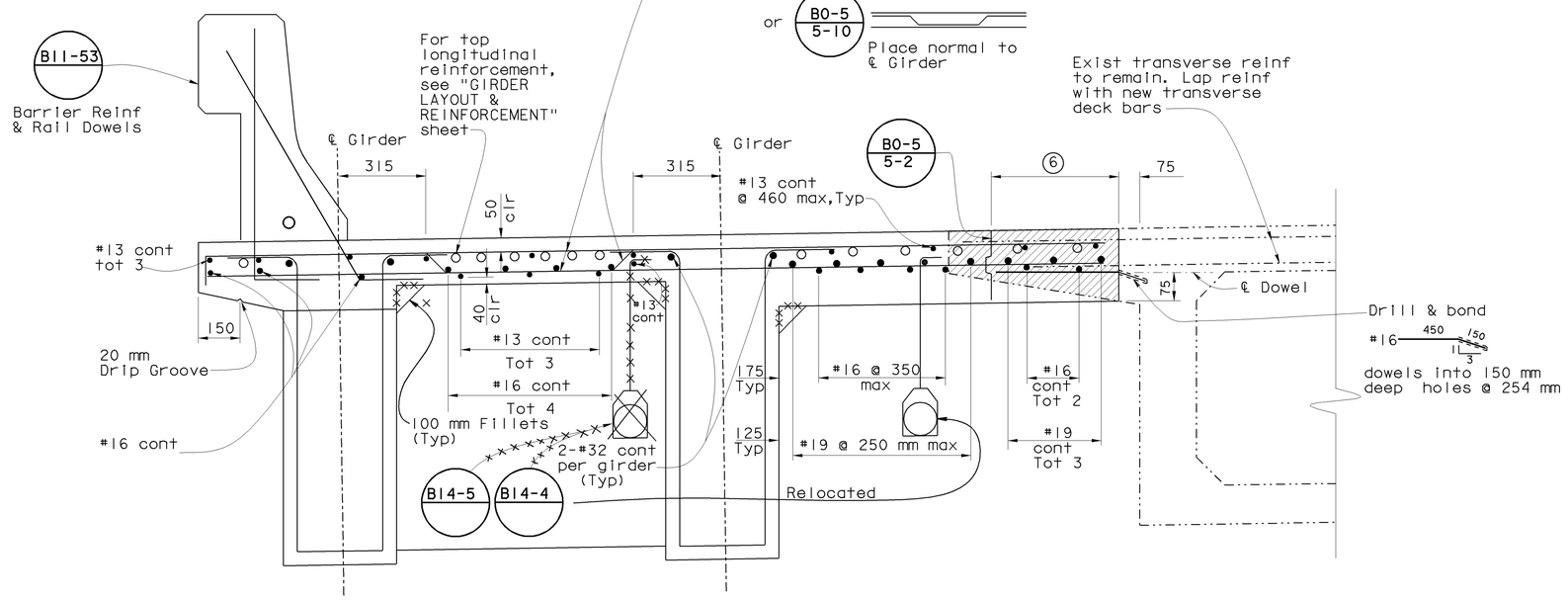
TYPICAL SECTION
1:50

NOTES:

① Temporary Railing Type K, see "Road Plans"
② Match Existing Cross-Slope & Grade
③ Remove existing Type 2 Barrier & Overhang, and refinish Bridge Deck
④ Concrete Barrier Type 25
⑤ Intermediate Diaphragm
⑥ Limits of Closure Pour
⑦ One 4IC, Electrical Conduit, see "Road Plans"

LEGEND:

Limits of Bridge Removal



NOTE: Closure Pour concrete shall not be placed until 15 days after adjacent deck pours are completed

PART TYPICAL SECTION
1:10

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

Caltrans Metri

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	29.0/32.5	102	109

Jyouru Lyang 7-24-01
REGISTERED CIVIL ENGINEER

8-6-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JYOU-RU LYANG
No. C50300
Exp. 6-30-05
CIVIL
STATE OF CALIFORNIA

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DESIGN	BY Jyou-Ru Lyang	CHECKED David Romero	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY Roberta Lim	CHECKED David Romero	DIVISION OF STRUCTURES STRUCTURE DESIGN 8
QUANTITIES	BY Jyou-Ru Lyang	CHECKED David Romero	BRIDGE NO. 42-213 / KILOMETER POST 29.0/32.5

JENSEN AVENUE UC (WIDEN)
TYPICAL SECTION

STRUCTURES DESIGN DETAIL SHEET (METRIC) (REV. 4/20/00)
ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100
CU 06249
EA 336601
FILE => 213_1522_r2_ts.dgn
DISREGARD PRINTS BEARING EARLIER REVISION DATES
REVISION DATES (PRELIMINARY STAGE ONLY): 10-11-00 | 12-14-00 | 2-1-01 | 2-22-01 | 3-15-01 | 3-16-01 | 5-14-01 | 6-21-01 | 7-24-01
SHEET 15 OF 22

USERNAME => cfossett DATE PLOTTED => 12-DEC-2002 TIME PLOTTED => 15:08

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NO AS BUILT CORRECTIONS

CORRECTIONS TRANSFERED BY: C. Fossett
FIELD CORRECTIONS BY: A. Bossmon

TRANSFER DATE: 11/19/02
FIELD CORRECTION DATE: 10/1/02

CONTRACT No: 06-336604

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	29.0/32.5	100	109

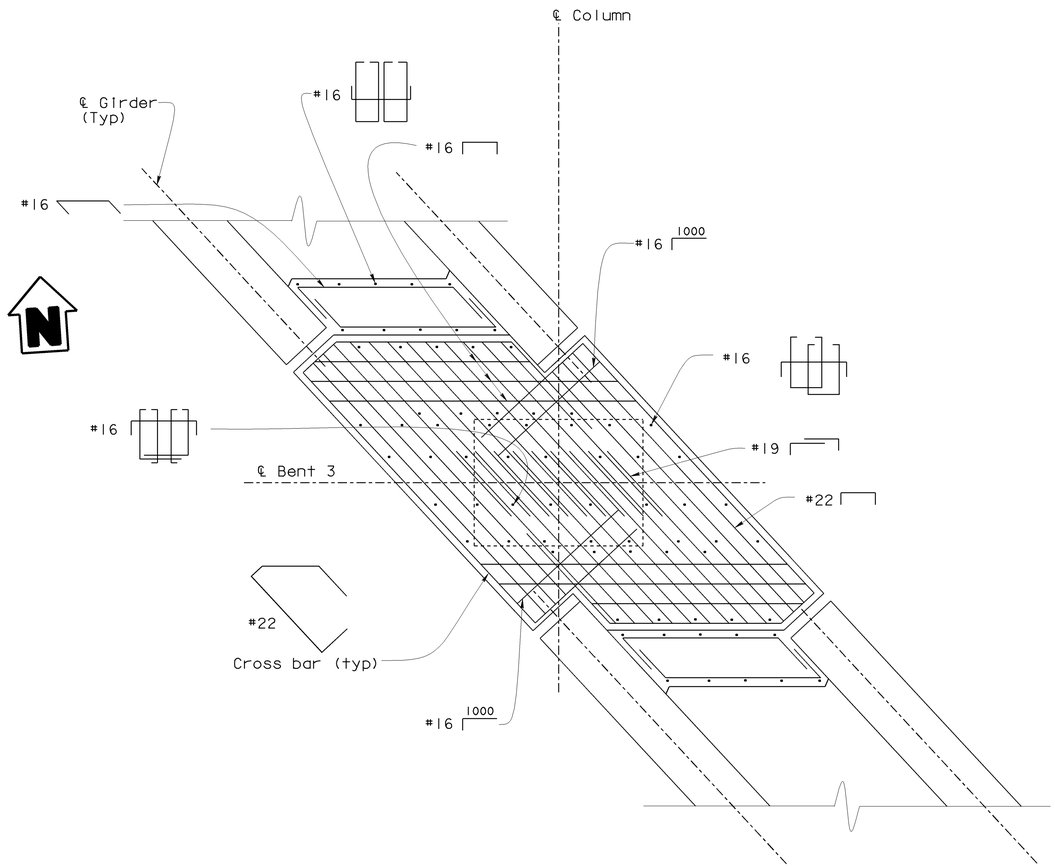
Jyouru Lyang 7-24-01
REGISTERED CIVIL ENGINEER

8-6-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JYOU-RU LYANG
No. C50300
Exp. 6-30-05
CIVIL
STATE OF CALIFORNIA

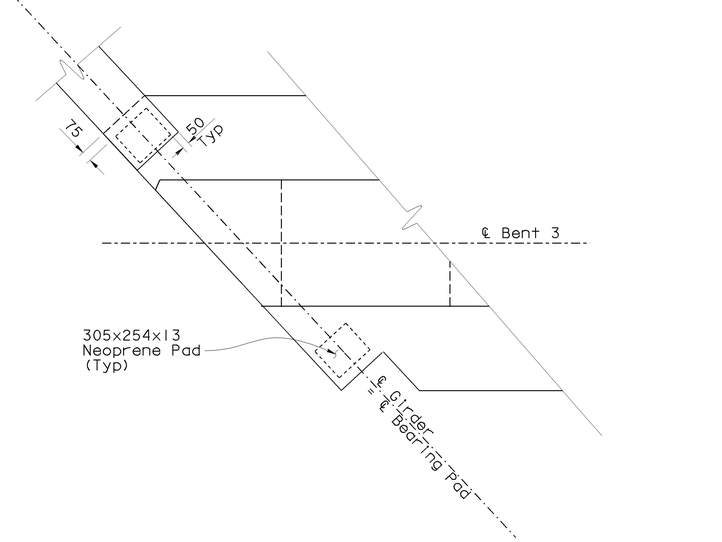
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SECTION E-E
1:20

NOTE: For location of SECTION E-E, see "BENT 3 LAYOUT" sheet



BEARING PAD DETAILS
1:20

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DESIGN	BY Jyou-Ru Lyang	CHECKED David Romero	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY Roberta Lim	CHECKED David Romero	DIVISION OF STRUCTURES STRUCTURE DESIGN 8
QUANTITIES	BY Jyou-Ru Lyang	CHECKED David Romero	BRIDGE NO. 42-213 / KILOMETER POST 29.0/32.5

JENSEN AVENUE UC (WIDEN)
BENT 3 DETAILS NO. 2

STRUCTURES DESIGN DETAIL SHEET (METRIC) (REV. 4/20/00)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06249
EA 336601

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 1-24-01 | 2-23-01 | 3-23-01 | 5-4-01 | 5-25-01 | 7-24-01

SHEET 13 OF 22

FILE => 213_1322_r2_b3d2.dgn

USERNAME => cfossett DATE PLOTTED => 12-DEC-2002 TIME PLOTTED => 15:07

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AS BUILT CORRECTIONS

CONTRACT NO: 06-336604
TRANSFER DATE: 11/9/02
FIELD CORRECTION DATE: 10/8/02
CORRECTIONS TRANSFERED BY: C. Fossett
FIELD CORRECTIONS BY: A. Bassman

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	29.0/32.5	95	109

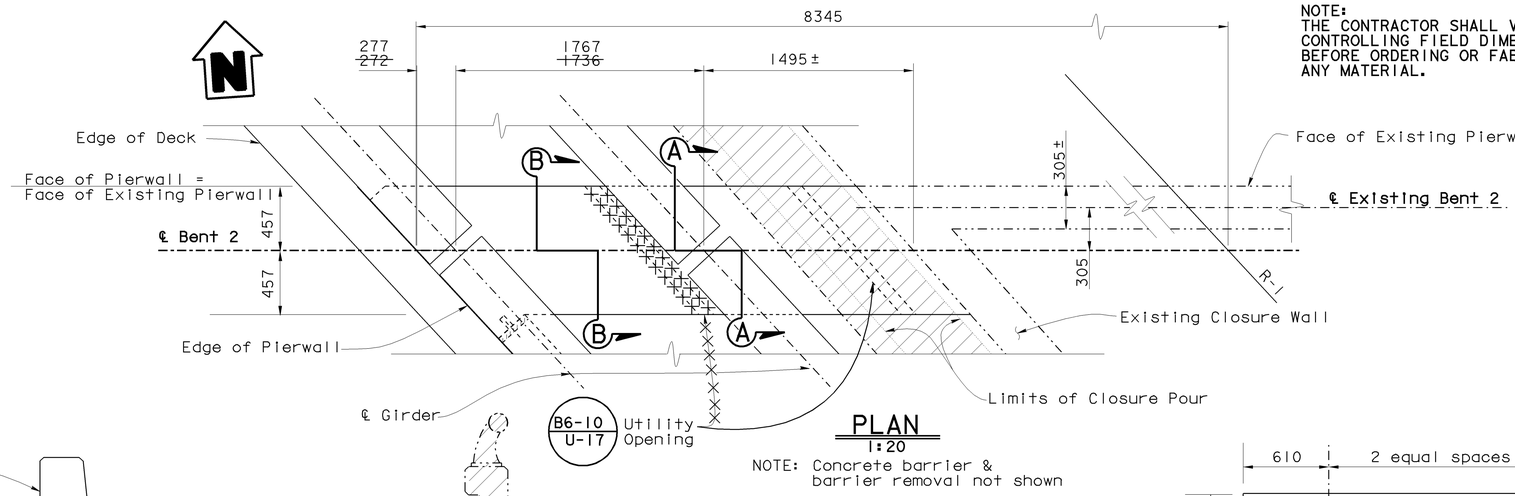
Jyou Lyang 7-24-01
REGISTERED CIVIL ENGINEER

8-6-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JYOU-RU LYANG
No. C50300
Exp. 6-30-05
CIVIL
STATE OF CALIFORNIA

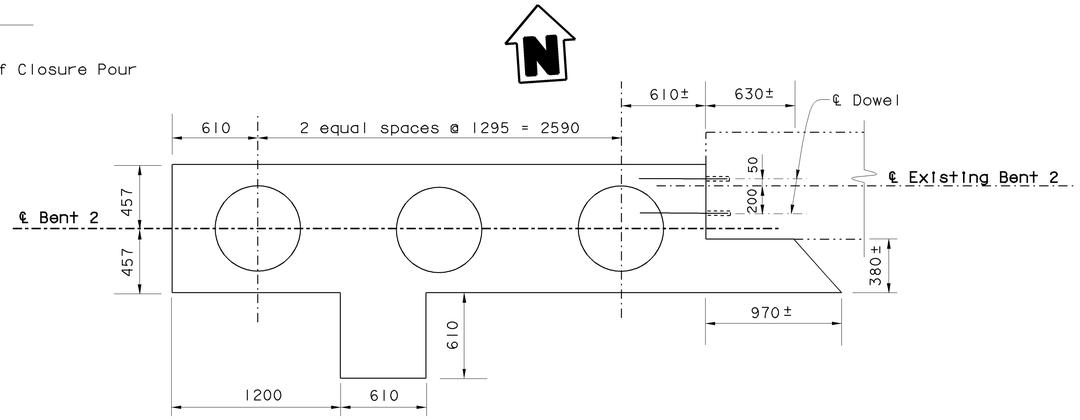
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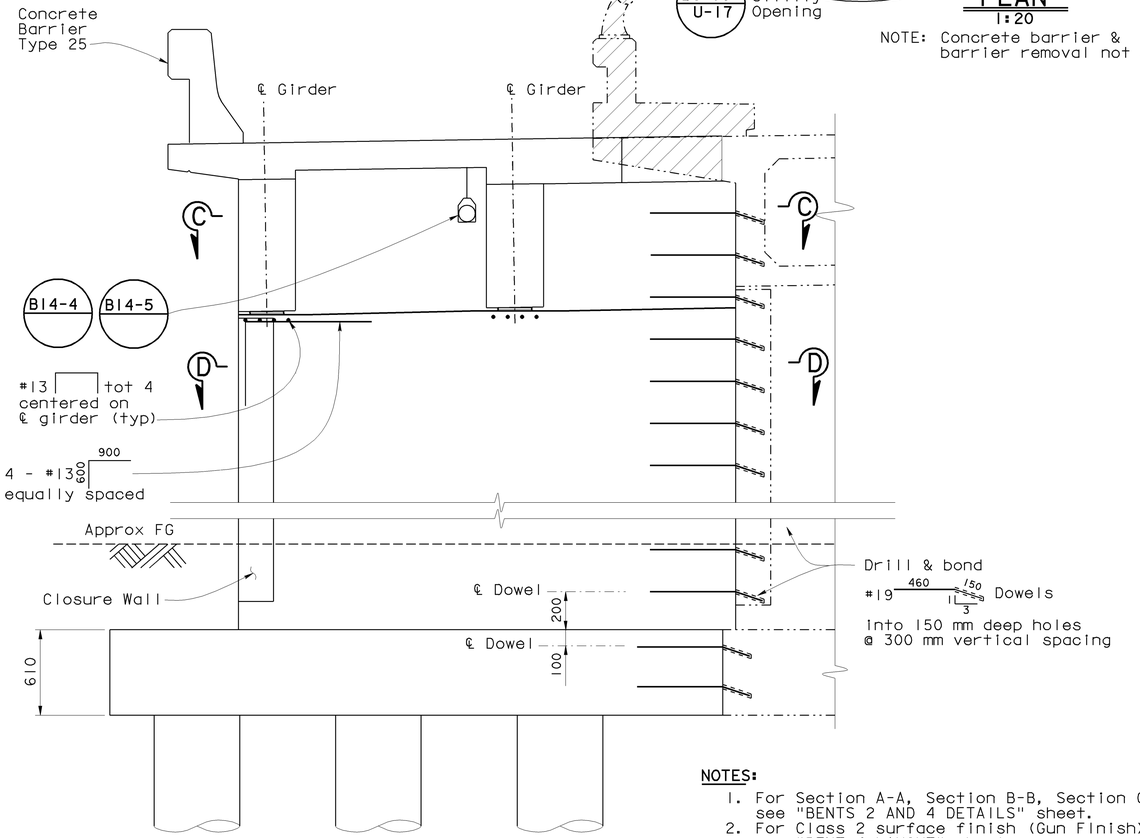


PLAN
1:20

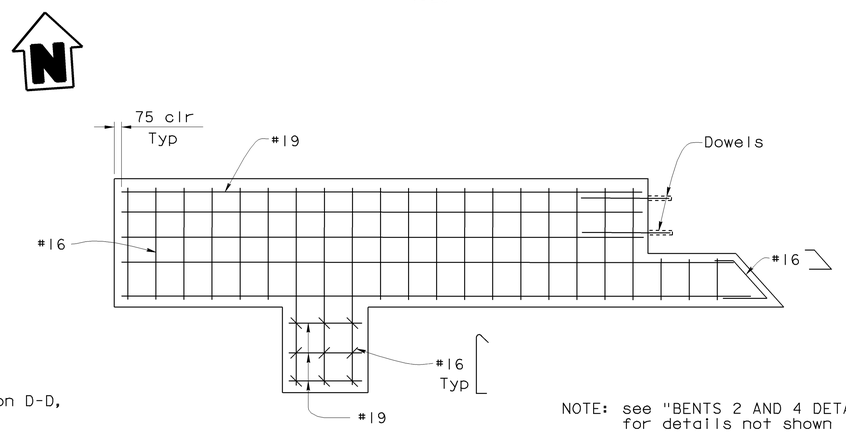
NOTE: Concrete barrier & barrier removal not shown



FOOTING PLAN
1:20



ELEVATION
1:20



NOTE: see "BENTS 2 AND 4 DETAILS" sheet for details not shown

NOTES:
1. For Section A-A, Section B-B, Section C-C & Section D-D, see "BENTS 2 AND 4 DETAILS" sheet.
2. For Class 2 surface finish (Gun Finish) details, see "BENT 4 LAYOUT" sheet.

LEGEND:
Indicates limits of bridge removal

FOOTING REINFORCEMENT
1:20

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DESIGN	BY Jyou-Ru Lyang	CHECKED David Romero
DETAILS	BY Roberta Lim	CHECKED David Romero
QUANTITIES	BY Jyou-Ru Lyang	CHECKED David Romero

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
DIVISION OF STRUCTURES
STRUCTURE DESIGN 8

BRIDGE NO. 42-213
KILOMETER POST 29.0/32.5

JENSEN AVENUE UC (WIDEN)
BENT 2 LAYOUT

STRUCTURES DESIGN DETAIL SHEET (METRIC) (REV. 4/20/00)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06249
EA 336601

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)
2-14-01 2-27-01 3-6-01 3-13-01 3-27-01 4-3-01 5-1-01 5-7-01 7-24-01

SHEET 8 OF 22

FILE => 213_0822_r2_b210.dgn

USERNAME => cfossett DATE PLOTTED => 12-DEC-2002 TIME PLOTTED => 15:06

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AS BUILT CORRECTIONS
CONTRACT NO: 06-336804
TRANSFER DATE: 11/19/02
FIELD CORRECTION DATE: 12/11/02
CORRECTIONS TRANSFERED BY: C. Fossett
FIELD CORRECTIONS BY: A. Bossmon

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	29.0/32.5	96	109

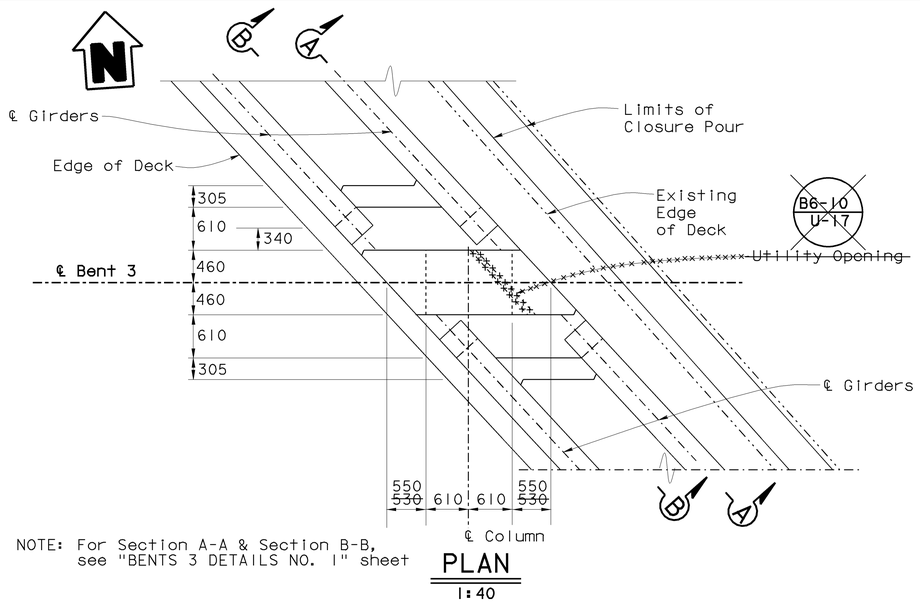
Caltrans Metric

Jyoun Lyang 7-24-01
REGISTERED CIVIL ENGINEER

8-6-01
PLANS APPROVAL DATE

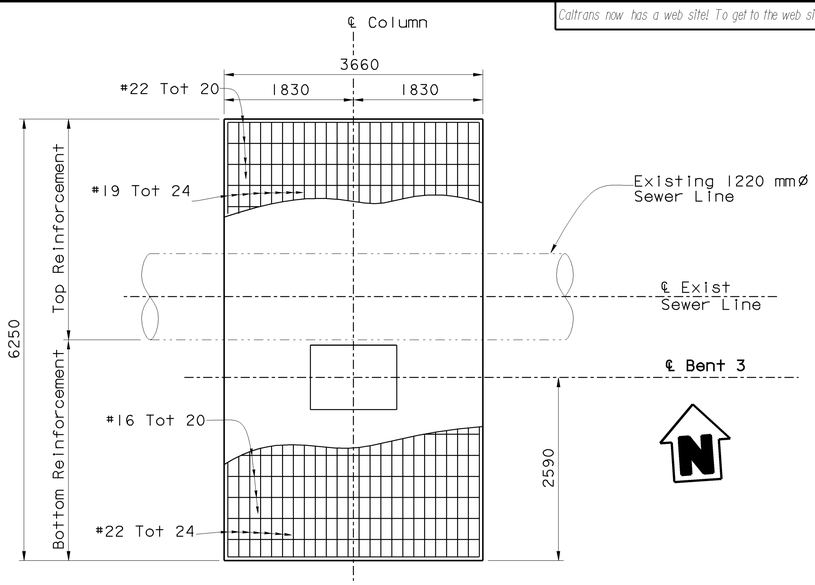
REGISTERED PROFESSIONAL ENGINEER
JYOU-RU LYANG
No. C50300
Exp. 6-30-05
CIVIL
STATE OF CALIFORNIA

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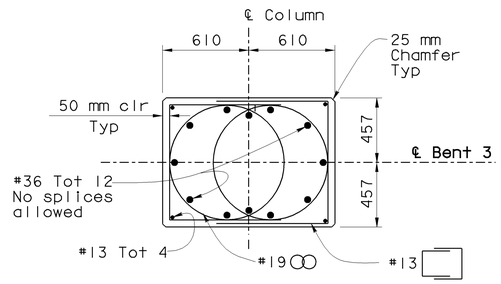


NOTE: For Section A-A & Section B-B, see "BENTS 3 DETAILS NO. 1" sheet

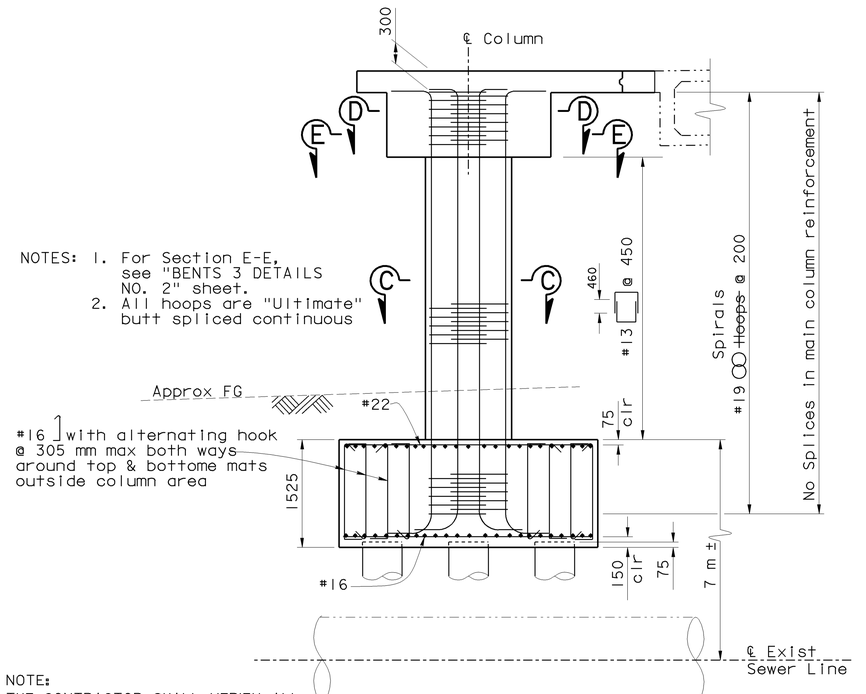
PLAN
1:40



FOOTING REINFORCEMENT
1:40

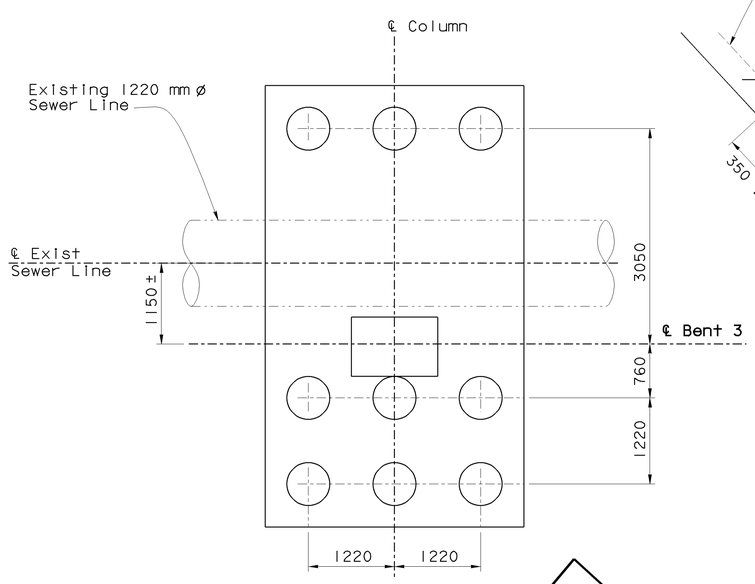


SECTION C-C
1:20

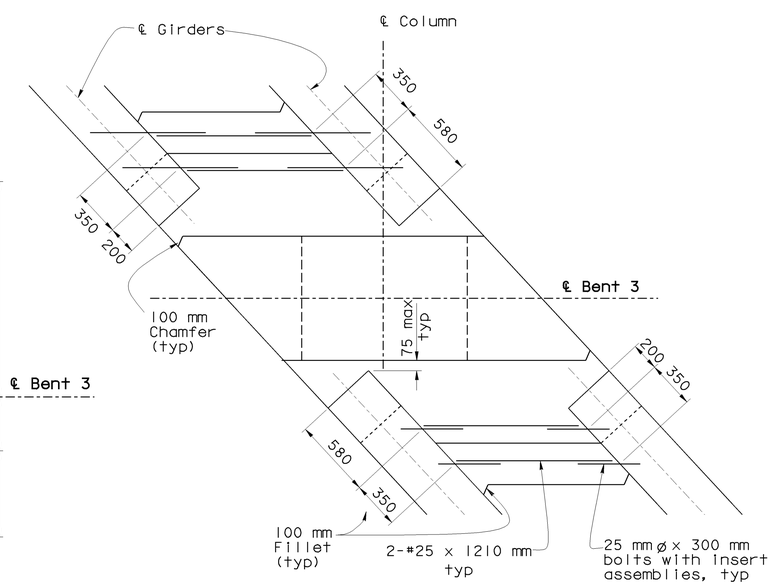


NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

ELEVATION
1:40



PILE LAYOUT
1:40



SECTION D-D
1:20

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DESIGN	BY Jyou-Ru Lyang	CHECKED David Romero	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY Roberta Lim	CHECKED David Romero	DIVISION OF STRUCTURES STRUCTURE DESIGN 8
QUANTITIES	BY Jyou-Ru Lyang	CHECKED David Romero	BRIDGE NO. 42-213 / KILOMETER POST 29.0/32.5

JENSEN AVENUE UC (WIDEN)
BENT 3 LAYOUT

STRUCTURES DESIGN DETAIL SHEET (METRIC) (REV. 4/20/00)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06249
EA 336601

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 2-28-01 | 3-26-01 | 4-13-01 | 4-30-01 | 5-21-01 | 5-31-01 | 7-24-01

SHEET 9 OF 22

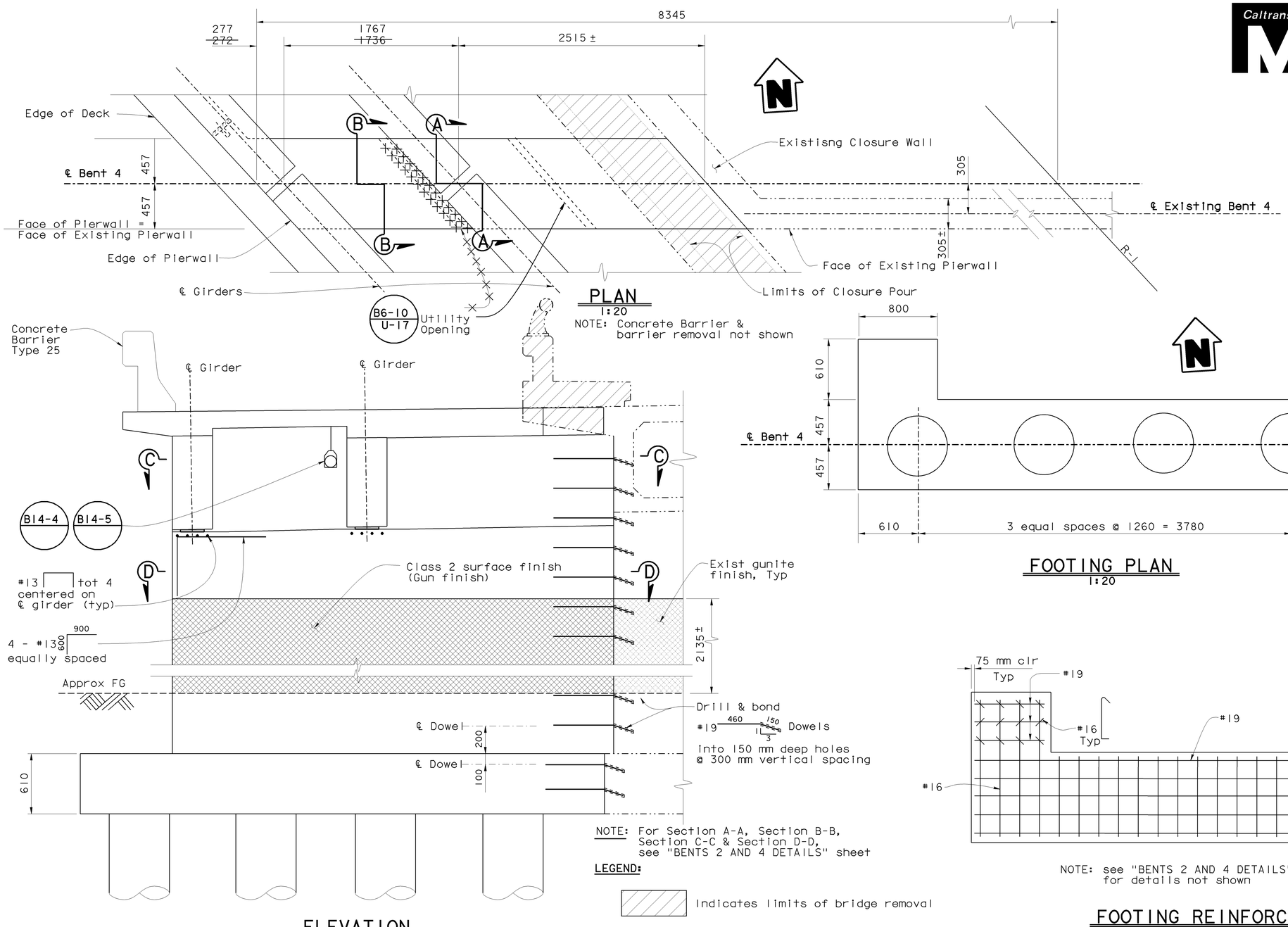
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USERNAME => cfossett DATE PLOTTED => 12-DEC-2002 TIME PLOTTED => 15:06

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AS BUILT CORRECTIONS

CONTRACT No: 06-336604
TRANSFER DATE: 11/9/02
FIELD CORRECTION DATE: 10/10/02
CORRECTIONS TRANSFERED BY: C. Fossett
FIELD CORRECTIONS BY: A. Bossman



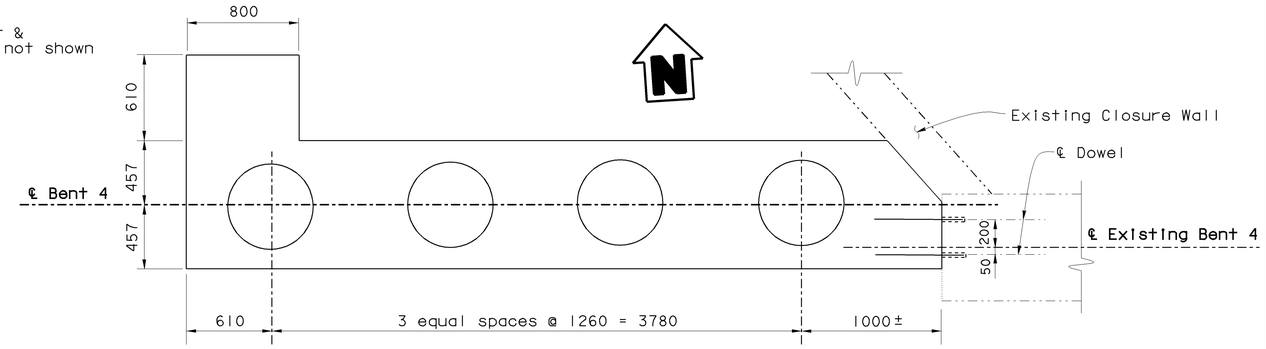
PLAN
1:20
NOTE: Concrete Barrier & barrier removal not shown

NOTE: For Section A-A, Section B-B, Section C-C & Section D-D, see "BENTS 2 AND 4 DETAILS" sheet

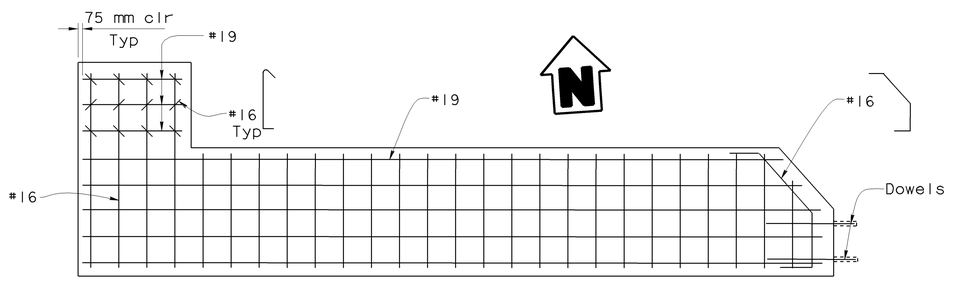
LEGEND:

Indicates limits of bridge removal

ELEVATION
1:20



FOOTING PLAN
1:20



NOTE: see "BENTS 2 AND 4 DETAILS" sheet for details not shown

FOOTING REINFORCEMENT
1:20

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	29.0/32.5	97	109

Jyou Lyang 7-24-01
REGISTERED CIVIL ENGINEER

8-6-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JYOU-RU LYANG
No. C50300
Exp. 6-30-05
CIVIL
STATE OF CALIFORNIA

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NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	BY Jyou-Ru Lyang	CHECKED David Romero	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY Roberta Lim	CHECKED David Romero	DIVISION OF STRUCTURES STRUCTURE DESIGN 8
QUANTITIES	BY Jyou-Ru Lyang	CHECKED David Romero	BRIDGE NO. 42-213 / KILOMETER POST 29.0/32.5

JENSEN AVENUE UC (WIDEN)
BENT 4 LAYOUT

STRUCTURES DESIGN DETAIL SHEET (METRIC) (REV. 4/20/00)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06249
EA 336601

FILE => 213_1022_r2_b41o.dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 2-14-01 | 2-23-01 | 3-13-01 | 4-13-01 | 5-23-01 | 6-14-01 | 6-28-01 | 7-24-01

SHEET 10 OF 22

USERNAME => cfossett DATE PLOTTED => 12-DEC-2002 TIME PLOTTED => 15:06

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AS BUILT CORRECTIONS

CONTRACT No: 06-336604

TRANSFER DATE: 11/9/02
FIELD CORRECTION DATE: 10/1/02

CORRECTIONS TRANSFERED BY: C. Fassett
FIELD CORRECTIONS BY: A. Bassman

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	29.0/32.5	98	109

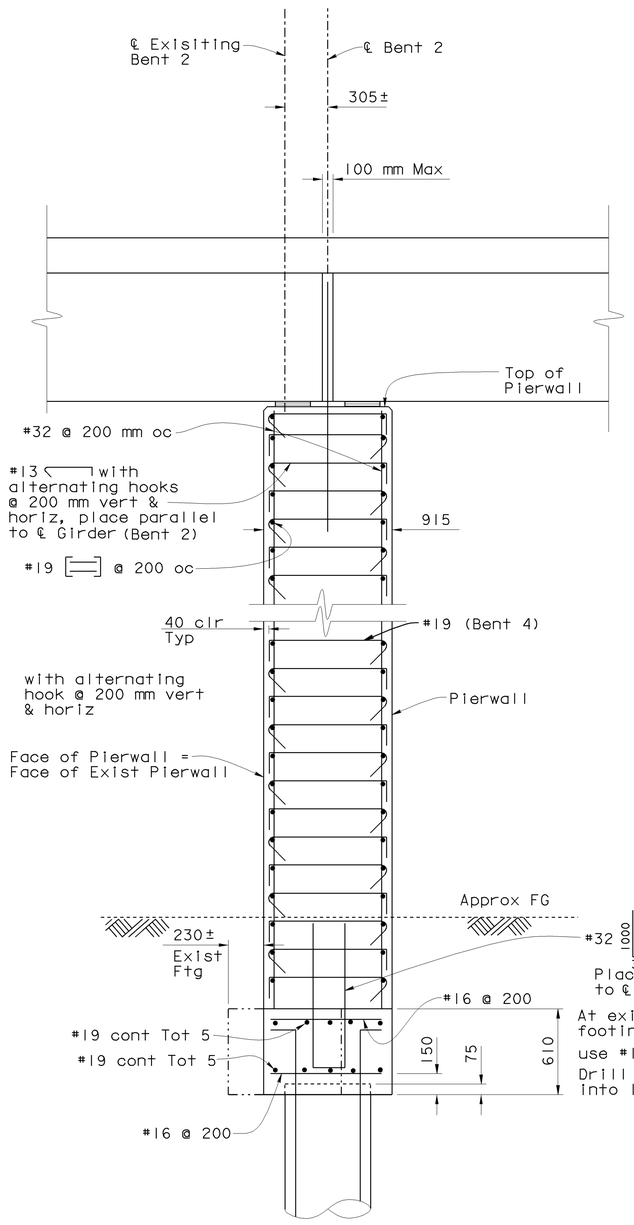
Jyou Yang 7-24-01
REGISTERED CIVIL ENGINEER

8-6-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JYOU-RU LYANG
No. C50300
Exp. 6-30-05
CIVIL
STATE OF CALIFORNIA

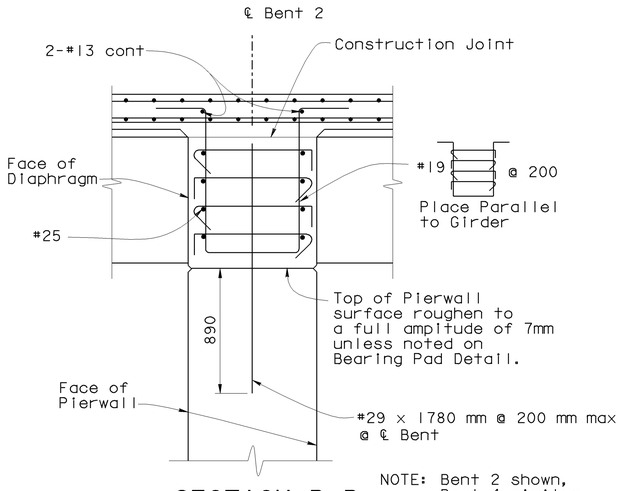
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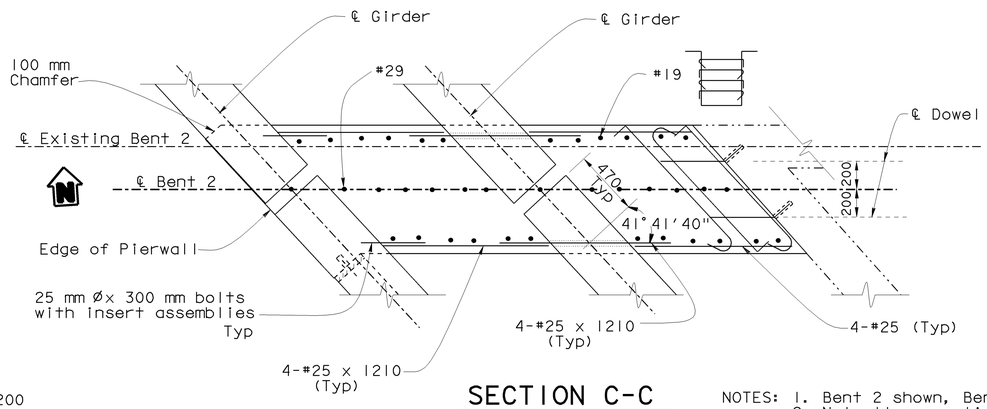
NOTE: Bent 2 shown, Bent 4 similar

SECTION A-A
1:20



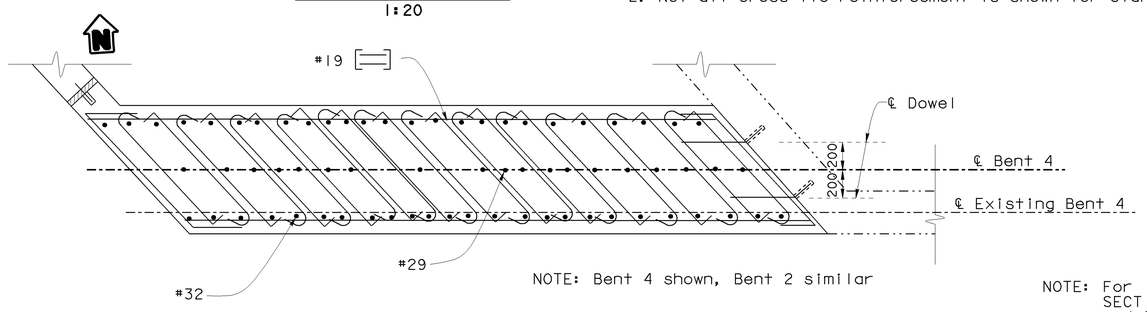
NOTE: Bent 2 shown, Bent 4 similar

SECTION B-B
1:20



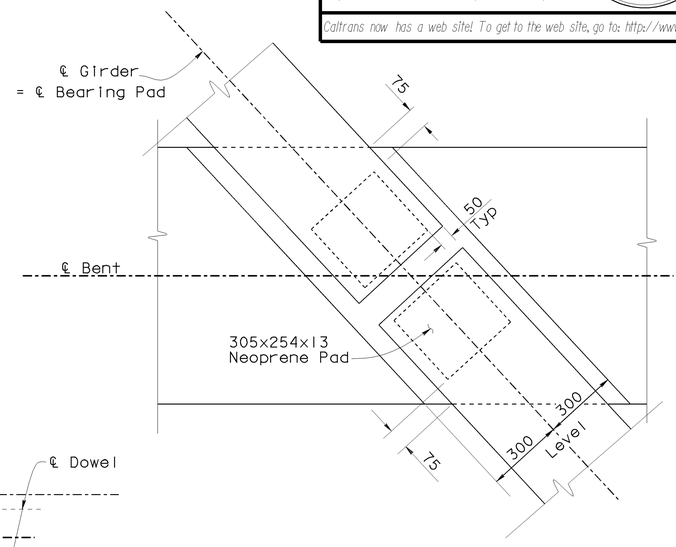
SECTION C-C
1:20

NOTES: 1. Bent 2 shown, Bent 4 similar
2. Not all cross tie reinforcement is shown for clarity



NOTE: Bent 4 shown, Bent 2 similar

SECTION D-D
1:20



BEARING PAD DETAIL
No Scale

NOTE: For location of SECTION A-A, SECTION B-B, SECTION C-C and SECTION D-D, see "BENT 2 LAYOUT" and "BENT 4 LAYOUT" sheets.

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

	BY	CHECKED
DESIGN	Jyou-Ru Lyang	David Romero
DETAILS	Roberta Lim	David Romero
QUANTITIES	Jyou-Ru Lyang	David Romero

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 8

BRIDGE NO. 42-213
KILOMETER POST 29.0/32.5

JENSEN AVENUE UC (WIDEN)
BENTS 2 AND 4 DETAILS

STRUCTURES DESIGN DETAIL SHEET (METRIC) (REV. 4/20/00)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06249
EA 336601

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 2-1-01 | 2-7-01 | 5-1-01 | 5-7-01 | 5-14-01 | 7-24-01

SHEET 11 OF 22

FILE => 213_1122_r2_b24d.dgn

USERNAME => cfossett DATE PLOTTED => 12-DEC-2002 TIME PLOTTED => 15:07

ClibPDF - www.fastio.com

NO AS BUILT CORRECTIONS
CORRECTIONS TRANSFERED BY: C. Fossett
FIELD CORRECTIONS BY: A. Bassman
TRANSFER DATE: 11/19/02
FIELD CORRECTION DATE: 10/1/02
CONTRACT NO: 06-336604

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	29.0/32.5	99	109

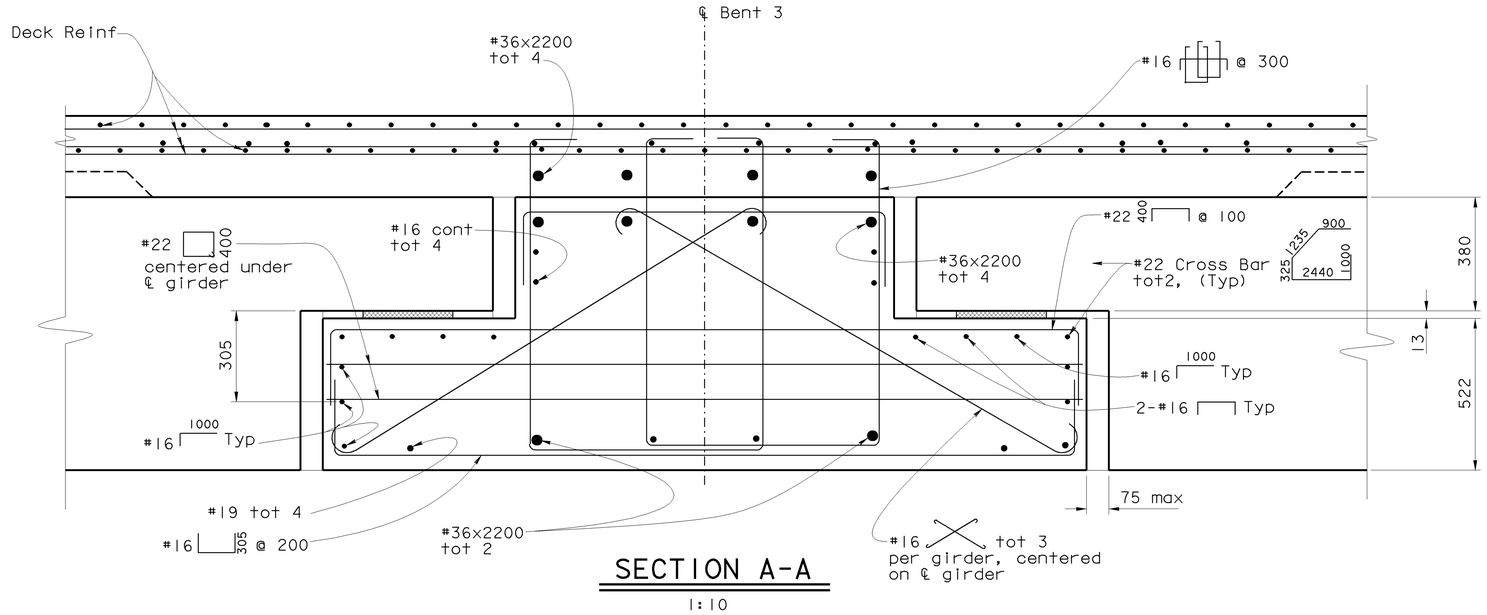
REGISTERED CIVIL ENGINEER — 5-31-01

8-6-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JYOU-RU LYANG No. C50300 Exp. 6-30-05 CIVIL — STATE OF CALIFORNIA

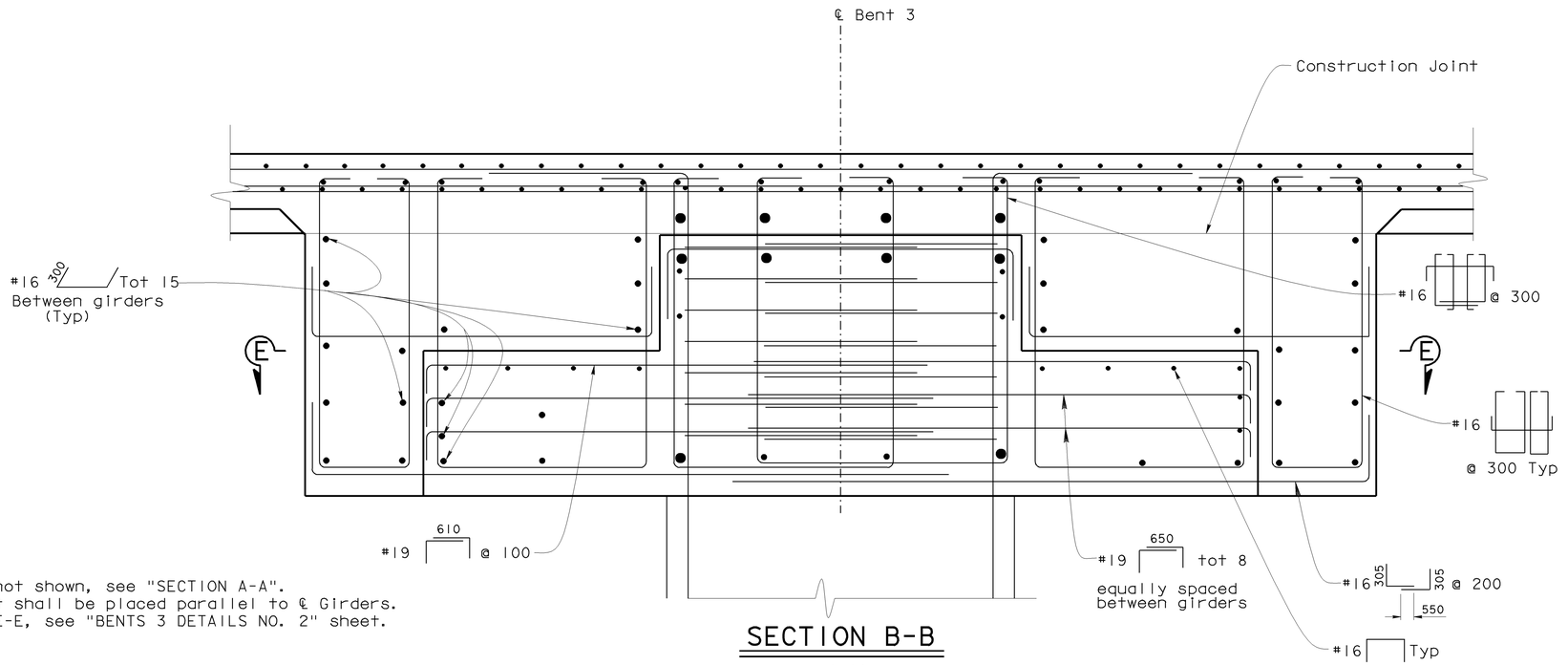
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SECTION A-A

1:10



SECTION B-B

1:10

NOTES:

1. For details not shown, see "SECTION A-A".
2. Reinforcement shall be placed parallel to ℄ Girders.
3. For Section E-E, see "BENTS 3 DETAILS NO. 2" sheet.

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DESIGN	BY Jyou-Ru Lyang	CHECKED David Romero	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY Roberta Lim	CHECKED David Romero	DIVISION OF STRUCTURES STRUCTURE DESIGN 8
QUANTITIES	BY Jyou-Ru Lyang	CHECKED David Romero	

BRIDGE NO. 42-213
KILOMETER POST 29.0/32.5

JENSEN AVENUE UC (WIDEN)
BENT 3 DETAILS NO. 1

STRUCTURES DESIGN DETAIL SHEET (METRIC) (REV. 4/20/00)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06249
EA 336601

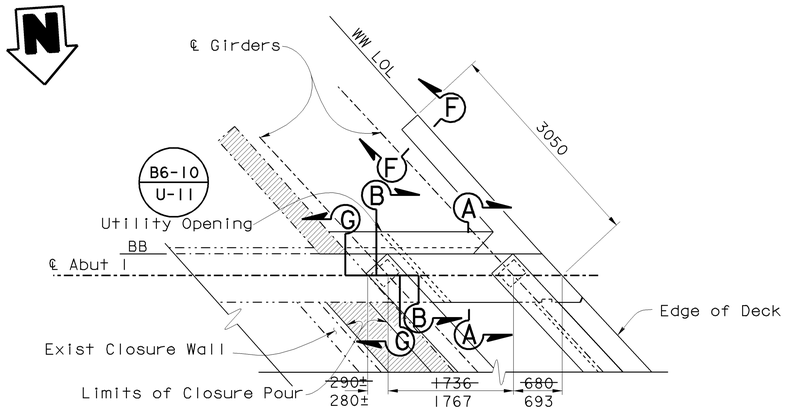
DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 1-17-01 | 2-16-01 | 2-23-01 | 3-9-01 | 3-16-01 | 3-30-01 | 4-13-01 | 5-11-01 | 5-31-01

SHEET 12 OF 22

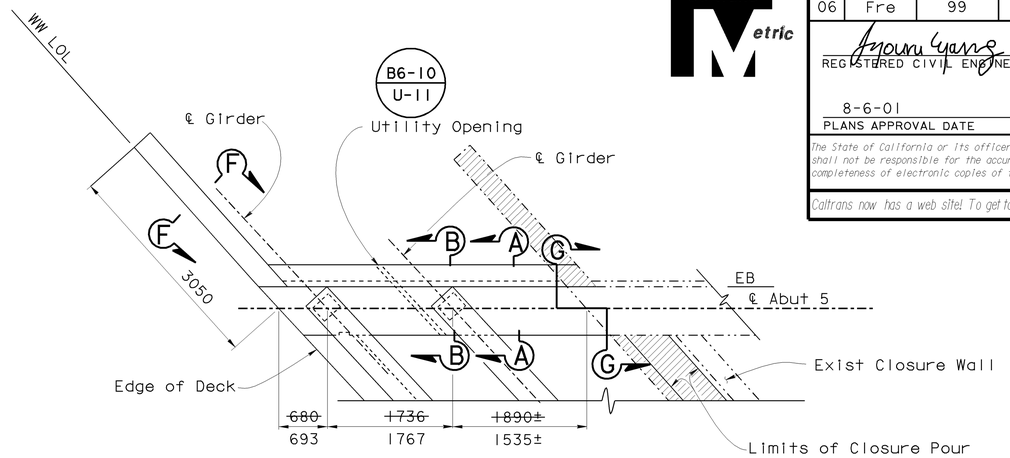
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ClibPDF - www.fastio.com

CONTRACT No: 06-336804
TRANSFER DATE: 1/19/02
FIELD CORRECTION DATE: 10/1/02
CORRECTIONS TRANSFERED BY: C. Fossett
FIELD CORRECTIONS BY: A. Bossmon
AS BUILT CORRECTIONS

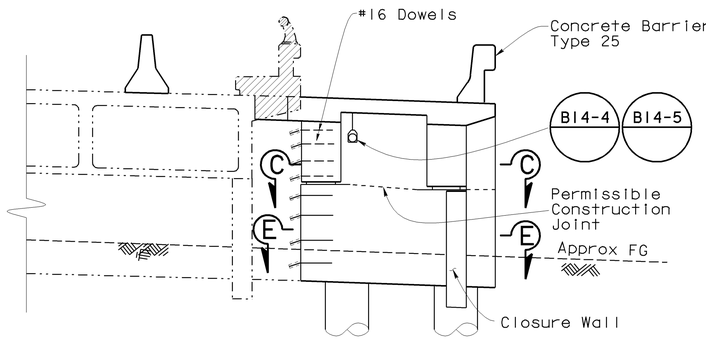


PLAN - ABUTMENT 1
1:40

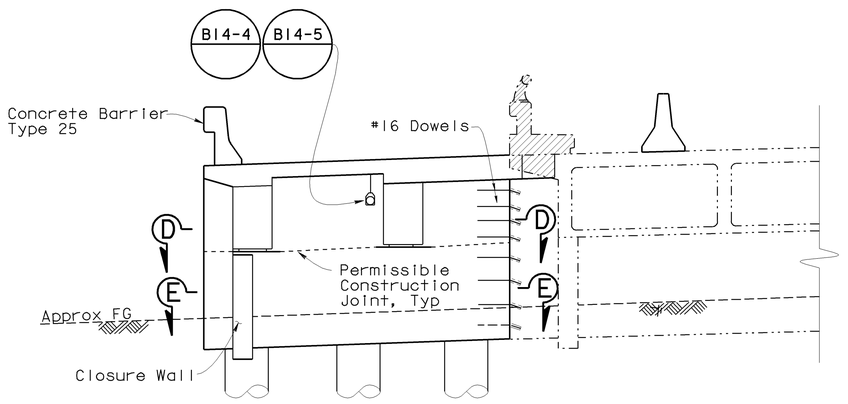
NOTES:
1. Remove existing concrete barrier and top 1000 mm of existing wingwall.
2. Concrete barrier & barrier removal not shown.



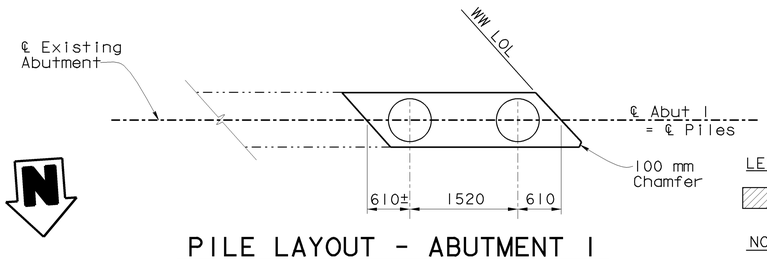
PLAN - ABUTMENT 5
1:40



ELEVATION - ABUTMENT 1
1:40



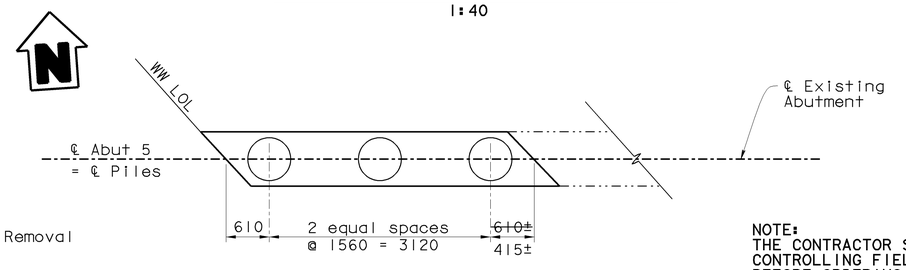
ELEVATION - ABUTMENT 5
1:40



PILE LAYOUT - ABUTMENT 1
1:40

LEGEND:
Indicates limits of Bridge Removal

NOTE: For Section A-A, Section B-B, SECTION C-C, SECTION D-D and SECTION E-E see "ABUTMENT DETAILS NO.1" sheet.
For Section F-F and Section G-G see "ABUTMENT DETAILS NO.2" sheet.



PILE LAYOUT - ABUTMENT 5
1:40

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	29.0/32.5	91	109

Jyou-Ru Lyang 7-24-01
REGISTERED CIVIL ENGINEER

8-6-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JYOU-RU LYANG
No. C50300
Exp. 6-30-05
CIVIL
STATE OF CALIFORNIA

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DESIGN	BY Jyou-Ru Lyang	CHECKED David Romero	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY Roberta Lim	CHECKED David Romero	DIVISION OF STRUCTURES STRUCTURE DESIGN 8
QUANTITIES	BY Jyou-Ru Lyang	CHECKED David Romero	BRIDGE NO. 42-213 KILOMETER POST 29.0/32.5

JENSEN AVENUE UC (WIDEN)
ABUTMENT LAYOUT

STRUCTURES DESIGN DETAIL SHEET (METRIC) (REV. 4/20/00)
ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100
CU 06249
EA 336601
DISREGARD PRINTS BEARING EARLIER REVISION DATES
REVISION DATES (PRELIMINARY STAGE ONLY): 2-23-01 2-26-01 3-2-01 3-13-01 3-14-01 4-2-01 5-14-01 6-2-01 7-24-01
SHEET 4 OF 22

FILE => 213_0422_r2_alo.dgn
USERNAME => cfossett DATE PLOTTED => 12-DEC-2002 TIME PLOTTED => 15:04

ClibPDF - www.fastio.com

TRANSFER DATE: 11/19/02
FIELD CORRECTION DATE: 12/11/02
CONTRACT NO: 06-336604
CORRECTIONS TRANSFERED BY: C. Fossett
FIELD CORRECTIONS BY: A. Bossenon
NO AS BUILT CORRECTIONS

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	29.0/32.5	92	109

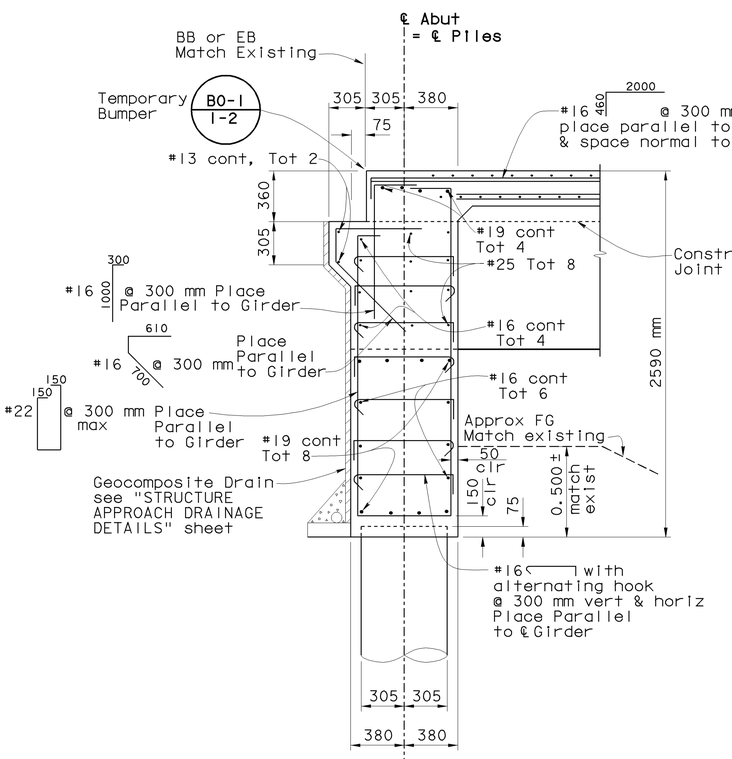
Jyouru Lyang 7-24-01
REGISTERED CIVIL ENGINEER

8-6-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JYOU-RU LYANG
No. C50300
Exp. 6-30-05
CIVIL
STATE OF CALIFORNIA

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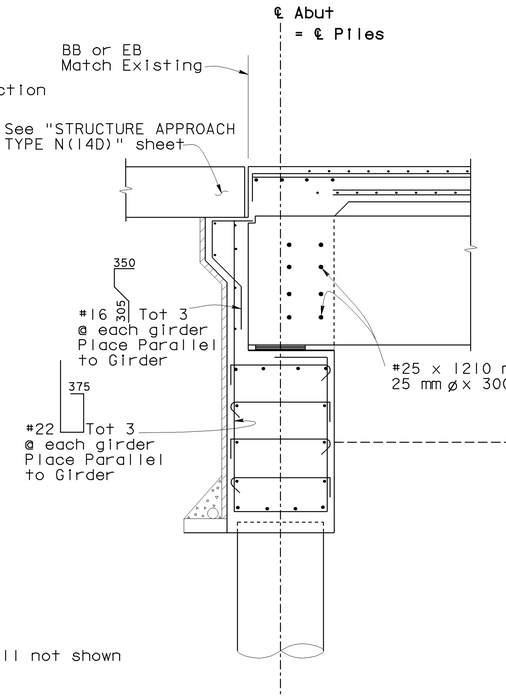


NOTE: Closure Wall & Wingwall not shown

SECTION A-A
1:20

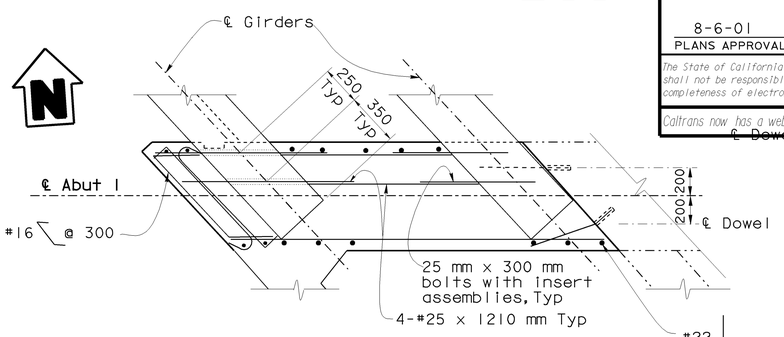
NOTE: For location of SECTION A-A, SECTION B-B, SECTION C-C, SECTION D-D and SECTION E-E, see "ABUTMENT LAYOUT" sheet

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



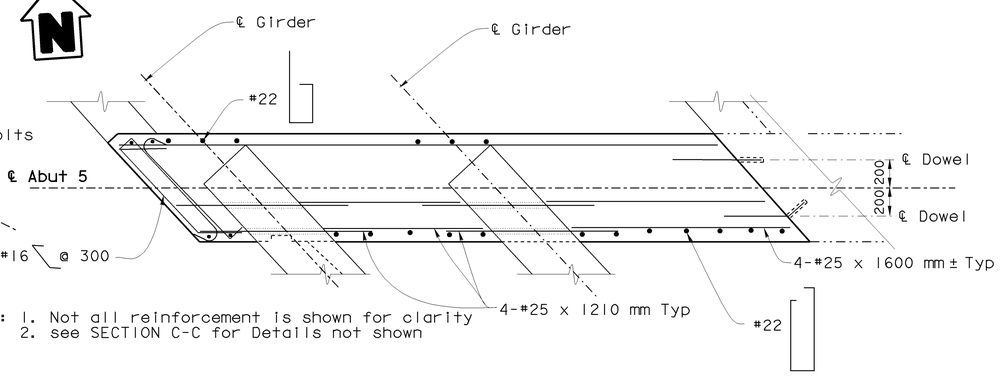
NOTES: 1. For Details not shown, see SECTION A-A
2. Closure Wall & Wingwall not shown

SECTION B-B
1:20



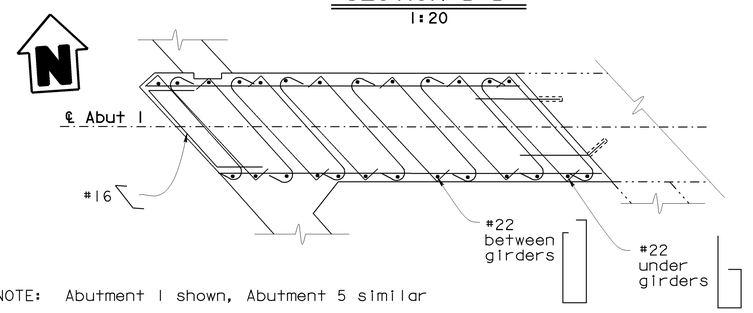
NOTE: Not all reinforcement is shown for clarity

SECTION C-C
1:20



NOTES: 1. Not all reinforcement is shown for clarity
2. see SECTION C-C for Details not shown

SECTION D-D
1:20



NOTE: Abutment 1 shown, Abutment 5 similar

SECTION E-E
1:20

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

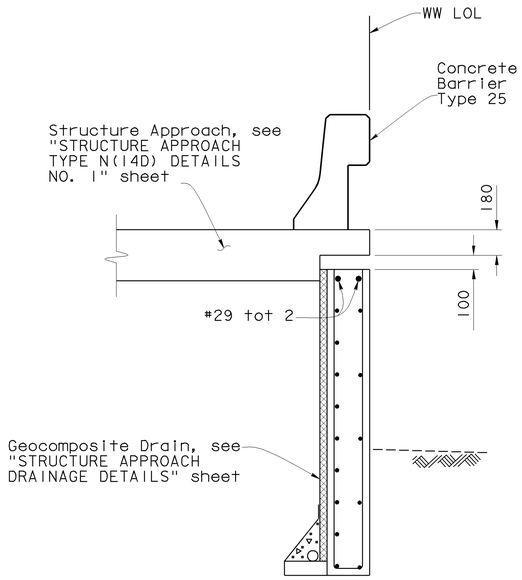
DESIGN	BY Jyou-Ru Lyang	CHECKED David Romero	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 8	BRIDGE NO. 42-213
DETAILS	BY Roberta Lim	CHECKED David Romero			KILOMETER POST 29.0/32.5
QUANTITIES	BY Jyou-Ru Lyang	CHECKED David Romero			

JENSEN AVENUE UC (WIDEN)
ABUTMENT DETAILS NO. 1

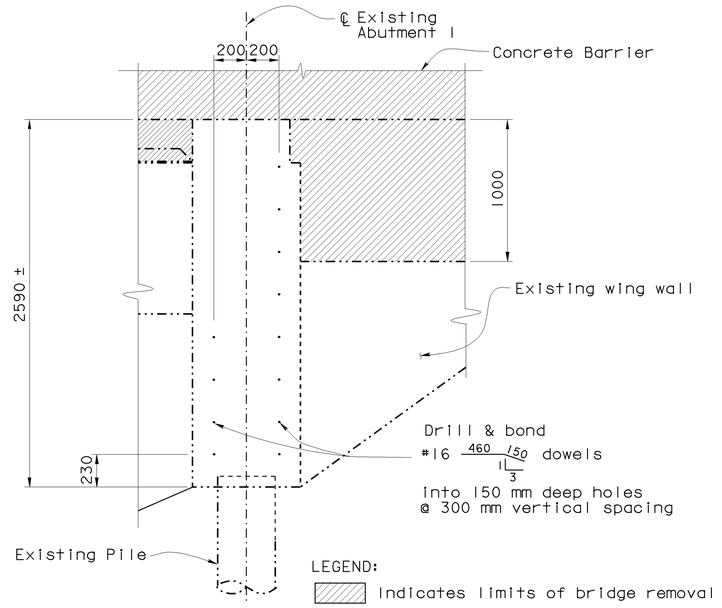
STRUCTURES DESIGN DETAIL SHEET (METRIC) (REV. 4/20/00)
ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100
CU 06249
EA 336601
FILE => 213_0522_r2_ad1.dgn
DISREGARD PRINTS BEARING EARLIER REVISION DATES
REVISION DATES (PRELIMINARY STAGE ONLY): 2-28-01 | 3-5-01 | 3-9-01 | 3-15-01 | 3-19-01 | 7-24-01
SHEET 5 OF 22

USERNAME => cfossett DATE PLOTTED => 12-DEC-2002 TIME PLOTTED => 15:05

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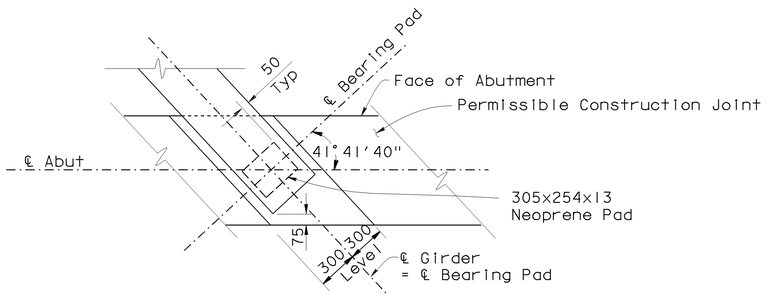


SECTION F-F
1:20



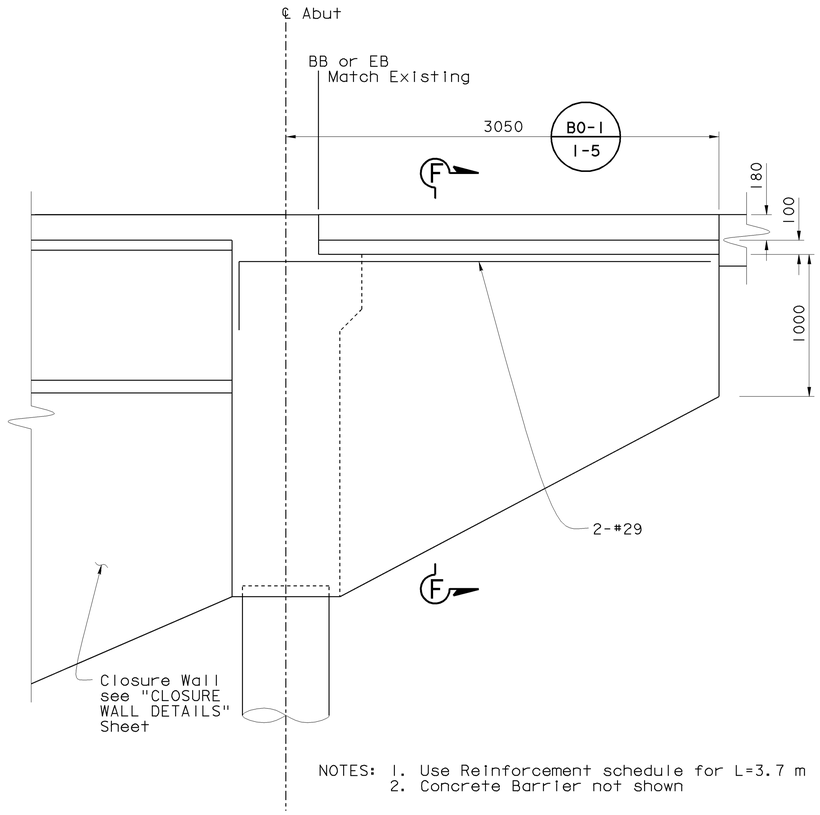
SECTION G-G
1:20

NOTE: For location of SECTION F-F and SECTION G-G, see "ABUTMENT LAYOUT" sheet



BEARING PAD DETAIL
1:20

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



NOTES: 1. Use Reinforcement schedule for L=3.7 m
2. Concrete Barrier not shown

WINGWALL ELEVATION
1:20

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	29.0/32.5	93	109

Jyou-Ru Lyang 7-24-01
REGISTERED CIVIL ENGINEER

8-6-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JYOU-RU LYANG
No. C50300
Exp. 6-30-05
CIVIL
STATE OF CALIFORNIA

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CONTRACT No. 06-336604
TRANSFER DATE: 11/8/02
FIELD CORRECTION DATE: 10/1/02
CORRECTIONS TRANSFERED BY: C. Fossett
FIELD CORRECTIONS BY: A. Bossman

NO AS BUILT CORRECTIONS

DESIGN	BY Jyou-Ru Lyang	CHECKED David Romero	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 8	BRIDGE NO. 42-213
DETAILS	BY Roberta Lim	CHECKED David Romero			KILOMETER POST 29.0/32.5
QUANTITIES	BY Jyou-Ru Lyang	CHECKED David Romero			

JENSEN AVENUE UC (WIDEN)
ABUTMENT DETAILS NO. 2

STRUCTURES DESIGN DETAIL SHEET (METRIC) (REV. 4/20/00)
ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100
CU 06249
EA 336601
DISREGARD PRINTS BEARING EARLIER REVISION DATES →
REVISION DATES (PRELIMINARY STAGE ONLY): 6-25-01 | 7-10-01 | 7-11-01 | 7-17-01 | 7-18-01 | 7-24-01
SHEET 6 OF 22
FILE => 213_0622_r2_ad2.dgn
USERNAME => cfassett DATE PLOTTED => 12-DEC-2002 TIME PLOTTED => 15:05

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AS BUILT CORRECTIONS

CONTRACT NO: 06-336604

TRANSFER DATE: 11/9/02
FIELD CORRECTION DATE: 10/11/02

CORRECTIONS TRANSFERED BY: C. Fossett
FIELD CORRECTIONS BY: A. Bossman

NO	R	Δ	T	L
①	1000.002	2°51′48"	24.994	49.977

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL
06	Fre	99	29.0/32.5	90	109

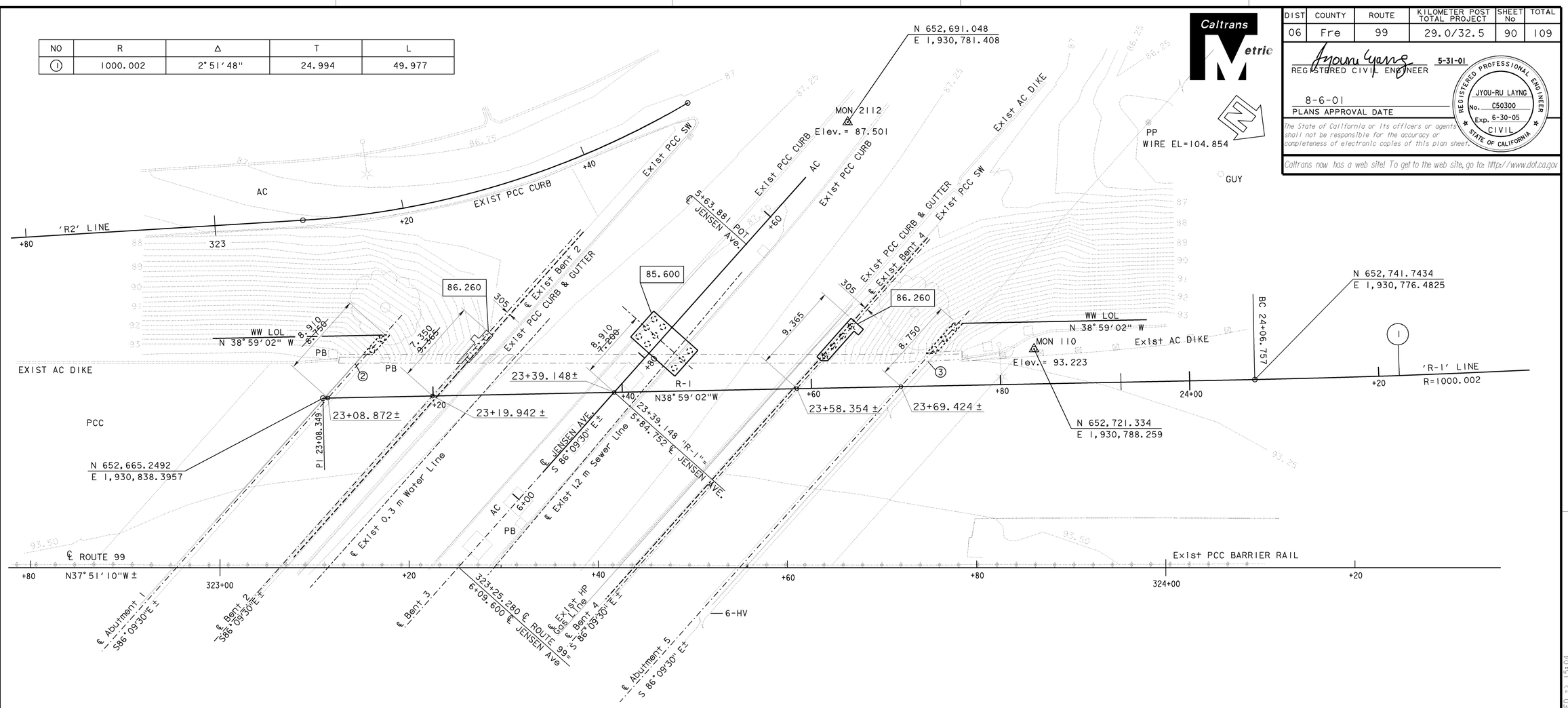
Jyou-Ru Layng 5-31-01
REGISTERED CIVIL ENGINEER

8-6-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JYOU-RU LAYNG
No. C50300
Exp. 6-30-05
CIVIL
STATE OF CALIFORNIA

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SURVEY CONTROL

MON 2112
Fnd PK-NAIL W/BATHY CAP
47.120 Lt ℄ Rte 99,
Sta 323+66.339
Northing=652691.048
Easting=1930781.408
Elev = 87.501

MON 110
Fnd PK-NAIL & CT CAP
23.126 Lt ℄ Rte 99 ,
Sta 323+86.048
Northing= 652721.334
Easting= 1930788.259
Elev = 93.223

Bridge Location
② - 21.568 Lt ℄ Rte 99, Sta 323+14.280, Elev = 93.329±
③ - 21.755 Lt ℄ Rte 99, Sta 323+74.842, Elev = 93.271±

PCC Deck shots taken at toe of curb

LEGEND:

Indicates bottom of footing elevation

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

PRELIMINARY INVESTIGATION SECTION

SCALE 1:200	VERT. DATUM NAVD88	PHOTOGRAMMETRY AS OF:			
	HORZ. DATUM NAD83(1991.35)	SURVEYED	BY A. LASELL 3-15-0	DRAFTED	BY A. LASELL
ALIGNMENT TIES DIST. TRAVERSE SHEET		FIELD CHECKED	BY	CHECKED	BY J. RING 06/00

DESIGN	BY Jyou-Ru Lyang	CHECKED David Romero
DETAILS	BY Roberta Lim	CHECKED David Romero
QUANTITIES	BY Jyou-Ru Lyang	CHECKED David Romero

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 8

CU 06249
EA 336601

BRIDGE NO. 42-0213
KILOMETER POST 29.0/32.5

JENSEN AVENUE UC (WIDEN)
FOUNDATION PLAN

STRUCTURES FOUNDATION PLAN SHEET (METRIC) (REV. 3/1/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 06/00 | 12-01 | 2-1-01 | 3-1-01 | 4-1-01 | 5-1-01

SHEET 3 OF 22

FILE => 213_0322_r2_fp.dgn

USERNAME => cfossett DATE PLOTTED => 12-DEC-2002 TIME PLOTTED => 15:04

ClibPDF - www.fastio.com

AS BUILT CORRECTIONS

CORRECTIONS TRANSFERED BY: C. Fossett
FIELD CORRECTIONS BY: A. Bassmon

TRANSFER DATE: 11/9/02
FIELD CORRECTION DATE: 10/1/02

CONTRACT NO: 06-336604

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	ffree	9999	29.0/32.5	108	109

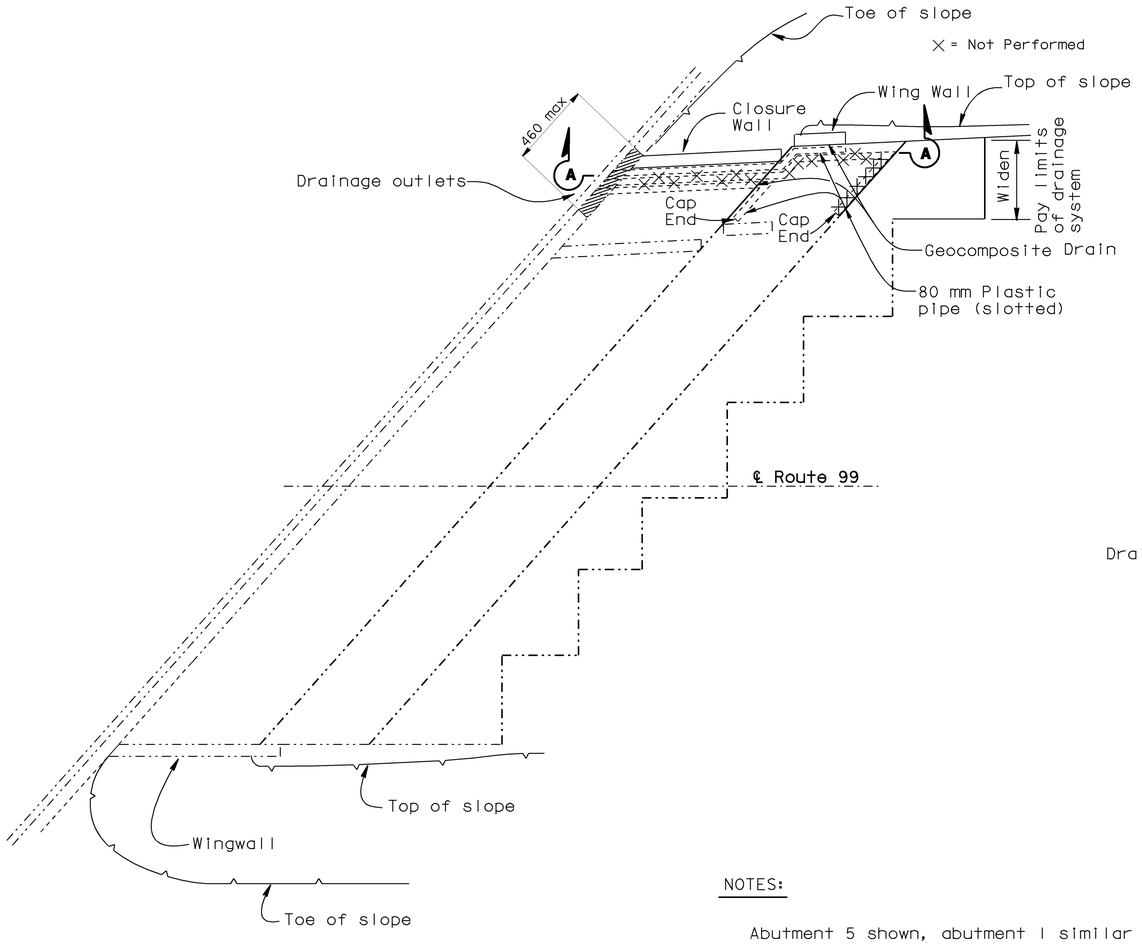
REGISTERED CIVIL ENGINEER 5-31-01

8-13-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JYOU-RU LYANG
No. C50300
Exp. 6-30-05
CIVIL
STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

Caltrans now has a web site! To get to the web site, go to: http://www.dot.ca.gov

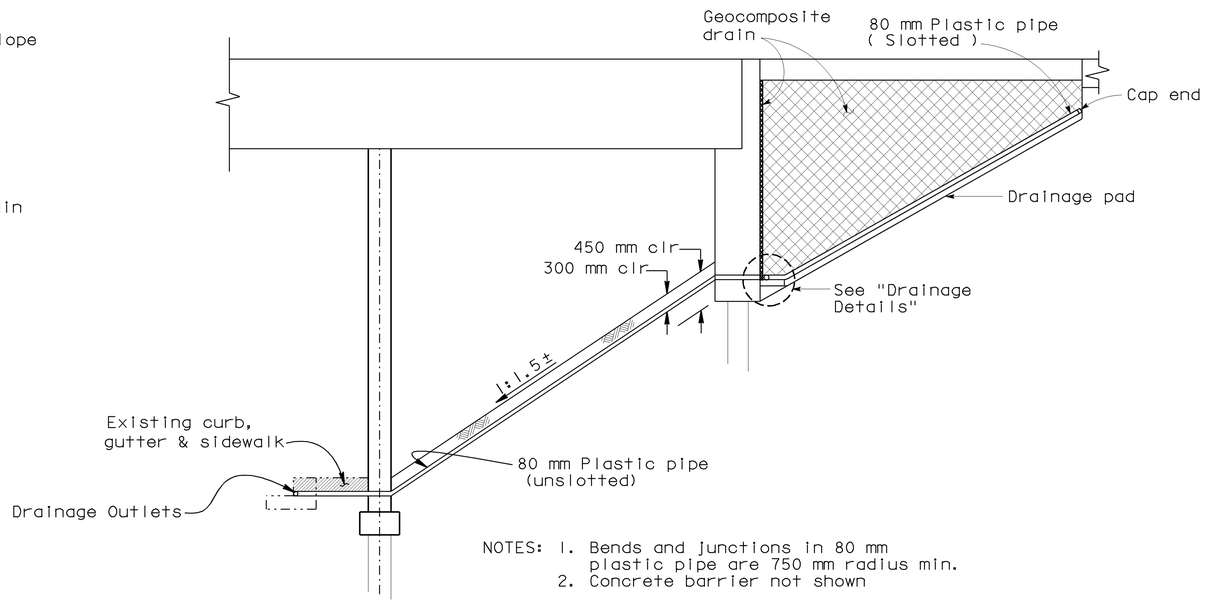


PLAN
No Scale

NOTES:

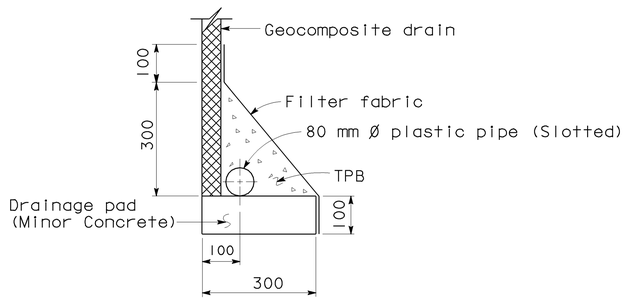
Abutment 5 shown, abutment 1 similar

Indicates remove and replace existing curb, gutter and sidewalk. See "Road Plans".



NOTES: 1. Bends and junctions in 80 mm plastic pipe are 750 mm radius min.
2. Concrete barrier not shown

SECTION A-A
No Scale



DRAINAGE DETAILS
No Scale

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DESIGN	BY Jyou-Ru Lyang	CHECKED David Romero	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 8	BRIDGE NO. 42-213
DETAILS	BY Roberta Lim	CHECKED David Romero			KILOMETER POST 29.0/32.5
QUANTITIES	BY Jyou-Ru Lyang	CHECKED David Romero			

JENSEN AVENUE UC (WIDEN)
STRUCTURE APPROACH DRAINAGE DETAILS

STRUCTURES DESIGN DETAIL SHEET (METRIC) (REV. 4/20/00)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06249
EA 336601

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 2-6-01 | 3-15-01 | 4-19-01 | 6-4-01 | 5-31-01

SHEET 21 OF 22

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ClibPDF - www.fastio.com

CONTRACT NO: 06-351204
TRANSFER DATE: 08-16-2002
FIELD CORRECTION DATE: 05-26-1999
CORRECTIONS TRANSFERED BY: Juan Sanchez
FIELD CORRECTIONS BY: Kevin Low
AS BUILT CORRECTIONS
typ_sect.dgn

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	29.5/32.6	82	88

REGISTERED ENGINEER - CIVIL
1-8-98

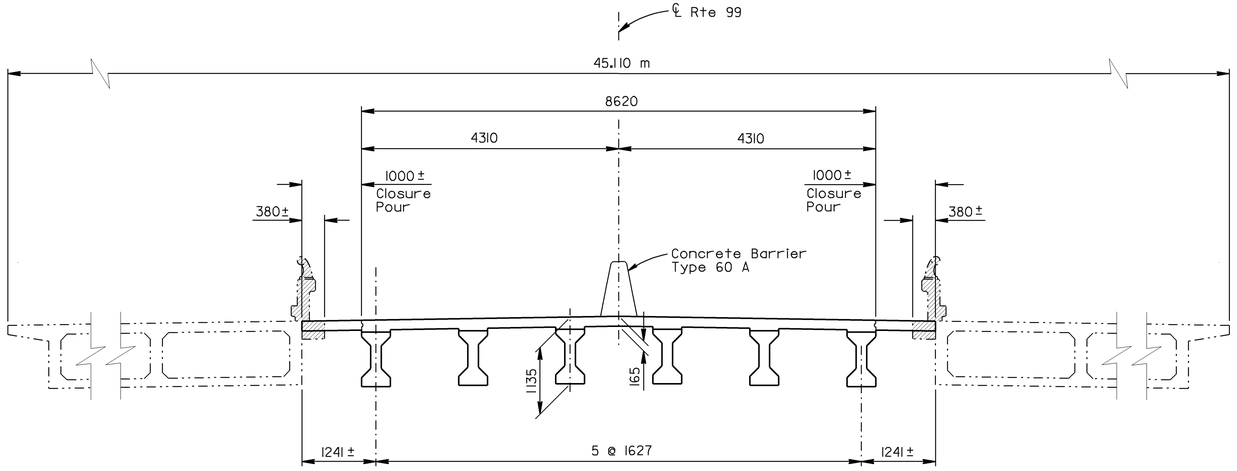
3-16-98
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JOHN SATTER
No. 42892
Exp. 3-31-00
CIVIL
STATE OF CALIFORNIA

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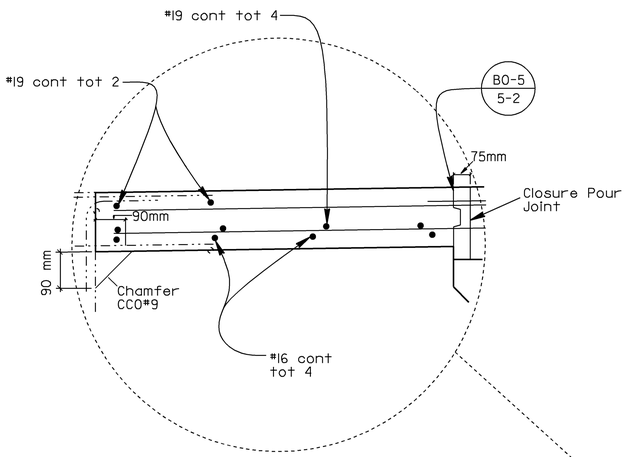
LEGEND

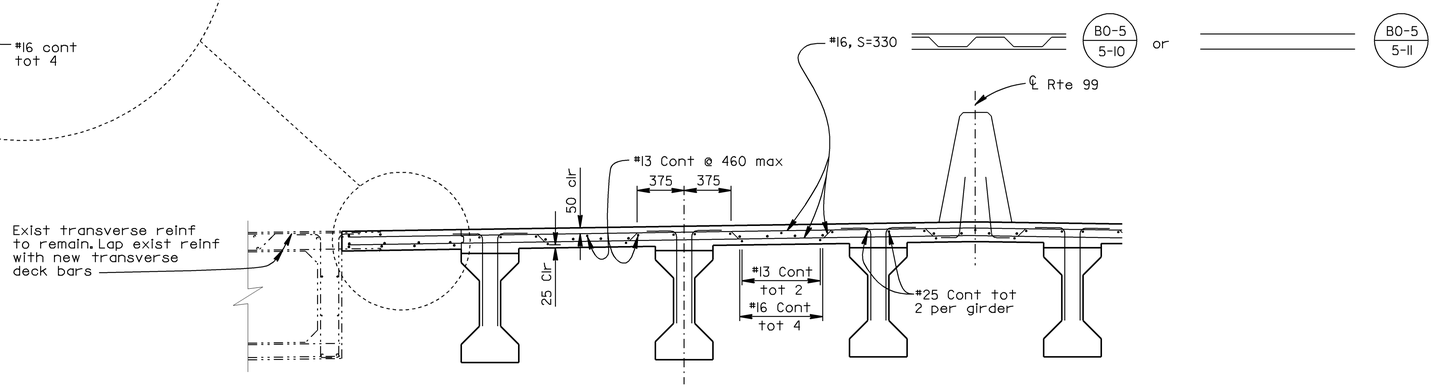
- Indicates Existing Structure
- Indicates New Construction
- Indicates Concrete Removal



TYPICAL SECTION

1:50



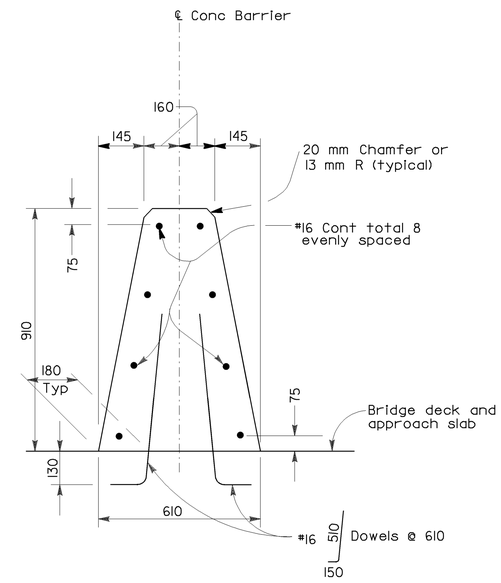


NOTE: Symmetrical about ℄ Route 99

PART TYPICAL SECTION

B0-5

1:25



CONCRETE BARRIER TYPE 60A

No Scale

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DESIGN	BY John Satter	CHECKED Overcomer Hor	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY Bob Silva/Norm Kelley	CHECKED Overcomer Hor	
QUANTITIES	BY John Satter	CHECKED Overcomer Hor	

DIVISION OF STRUCTURES
STRUCTURE DESIGN 8

BRIDGE NO. 42-213
KILOMETER POST 29.4/32.2

JENSEN AVENUE SEPARATION (WIDEN)
TYPICAL SECTION

DS OSD 2139M (CADD 2/8/96)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06220
EA 351201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 12-2-96 | 1-1-97 | 1-7-98 | | 3-2-98 | 4-08-98 | 4-24-98 | 4-28-98 | 5-08-98 | 6-26-98

SHEET 10 OF 16

USERNAME => cfassett
a1016ts.dgn

DATE PLOTTED => 15-JAN-2003
TIME PLOTTED => 15:23

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U-006-2(6)
F-006-2(5)

FED. ROAD DIST. No.	STATE	PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
7	CAL.			267	424

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	Fre			12	3

BRIDGE ENGINEER — CIVIL ENGINEER — No. 9985
DATE APPROVED August 28, 1963

DIST.	COUNTY	ROUTE	POST MILES - TOTAL PROJECT	Sheet No.	Total Sheets
06	Fre	99	29.5/32.6	88	88

STRUCTURAL FOUNDATIONS BRANCH - ENGINEERING SERVICE CENTER

REGISTERED ENGINEER - CIVIL

JENSEN AVENUE SEPARATION (WIDEN)

LOG OF TEST BORINGS

NOTE: THIS LOG OF TEST BORINGS IS AVAILABLE ON MICROFILM AT OFFICE OF STRUCTURES DESIGN SACRAMENTO, CALIFORNIA

CU: 06220
EA: 351201

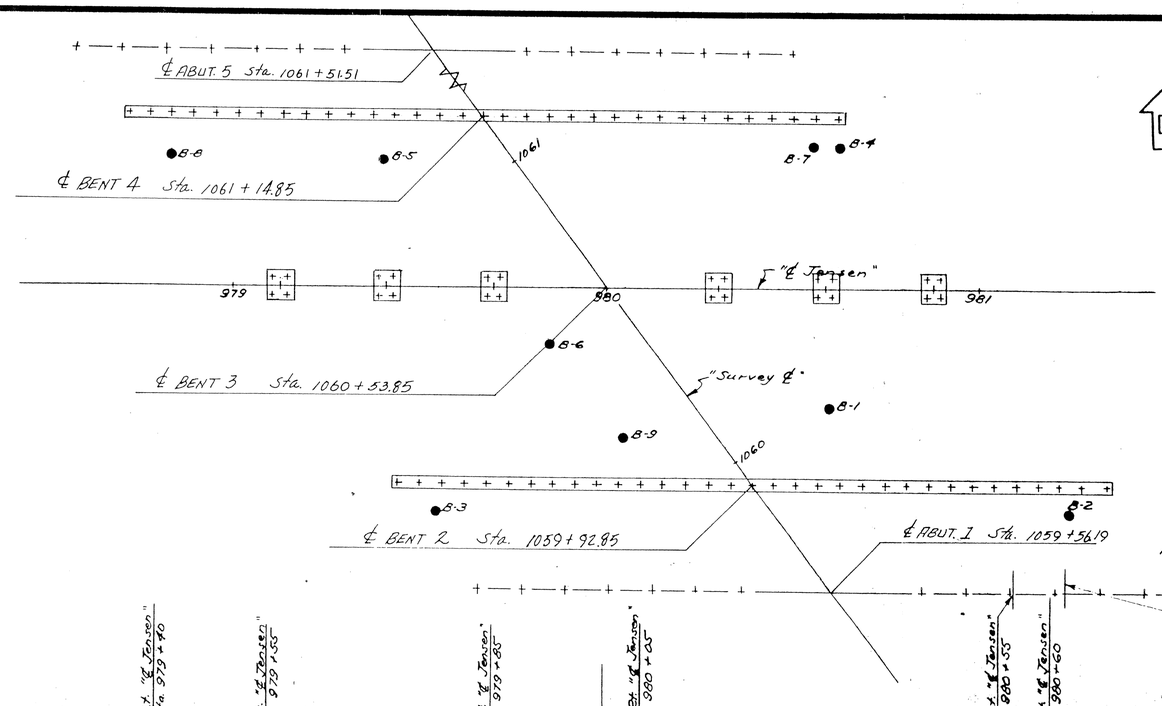
BRIDGE No. 42-0213

REGISTERED PROFESSIONAL ENGINEER — J. L. Ta — No. C53684 — Exp. 6-30-99 — CIVIL — STATE OF CALIFORNIA

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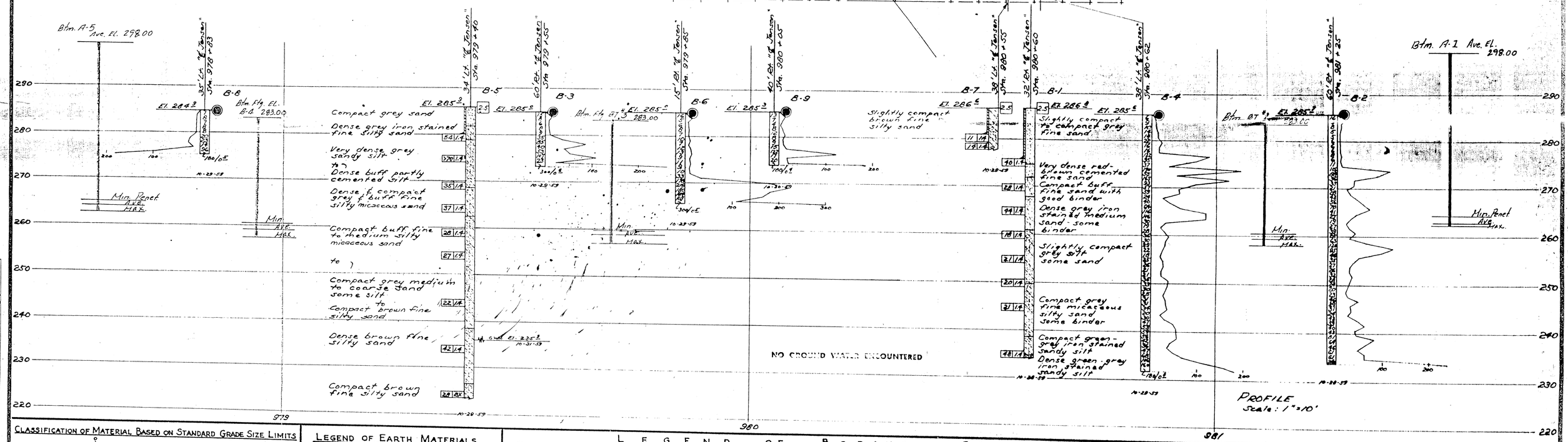
AS BUILT
CORRECTIONS BY J. H. Bird
CONTRACT NO. 06-071206
DATE APR 8 1963

BRIDGE DEPARTMENT
CHECKED — Approval Recommended by — Bridge Engineer — Date 11-58



PLAN
Scale: 1" = 20'

BM "Jensen" R.R. Spike in P.P. 65' West & 38' North of Sta. 1060 + 65 ℄ Survey
Elev. 286.26



PROFILE
Scale: 1" = 10'

CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS

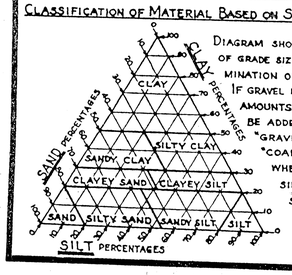


DIAGRAM SHOWING THE BASIS FOR ESTIMATES OF GRADE SIZE DISTRIBUTION USED IN DETERMINATION OF CLASS NAMES.

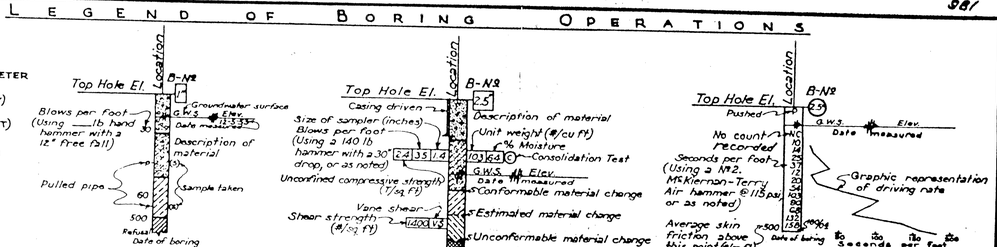
IF GRAVEL IS PRESENT IN APPRECIABLE AMOUNTS THE TERM "GRAVELLY" MAY BE ADDED TO THE CLASS NAME, VIZ. "GRAVELLY SAND." THE TERMS "COARSE", "MEDIUM" AND "FINE" WHEN USED TO DESCRIBE SAND, SILT AND GRAVEL REFER TO STANDARD GRADE SIZE LIMITS.

LEGEND OF EARTH MATERIALS

- Gravel
- Sand
- Silt
- Clay
- Sandy Clay or Clayey Sand
- Sandy Silt or Silty Sand
- Silty Clay or Clayey Silt
- Peat and/or Organic Matter
- Fill Material
- Igneous Rock
- Sedimentary Rock
- Metamorphic Rock

LEGEND OF BORING OPERATIONS

- Plan of any boring
- Penetrometer
- 2½" Cone Penetrometer
- Sampler boring (dry)
- Rotary boring (wet)
- Auger boring (dry)
- Jet boring
- Core boring
- Test pit



NOTES

Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

JENSEN AVE. UNDERCROSSING

LOG OF TEST BORINGS

SCALE	BRIDGE	FILE	DRAWING
As Noted	42-213	E-42	C-6740-12

AR-6740-3

ClibPDF - www.fastio.com

AS BUILT CORRECTIONS

CONTRACT NO: 06-359204
TRANSFER DATE: 08-16-2002
FIELD CORRECTION DATE: 05-26-1999
CORRECTIONS TRANSFERED BY: Juan Sanchez
FIELD CORRECTIONS BY: Kelvin Low

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	29.5/32.6	75	88

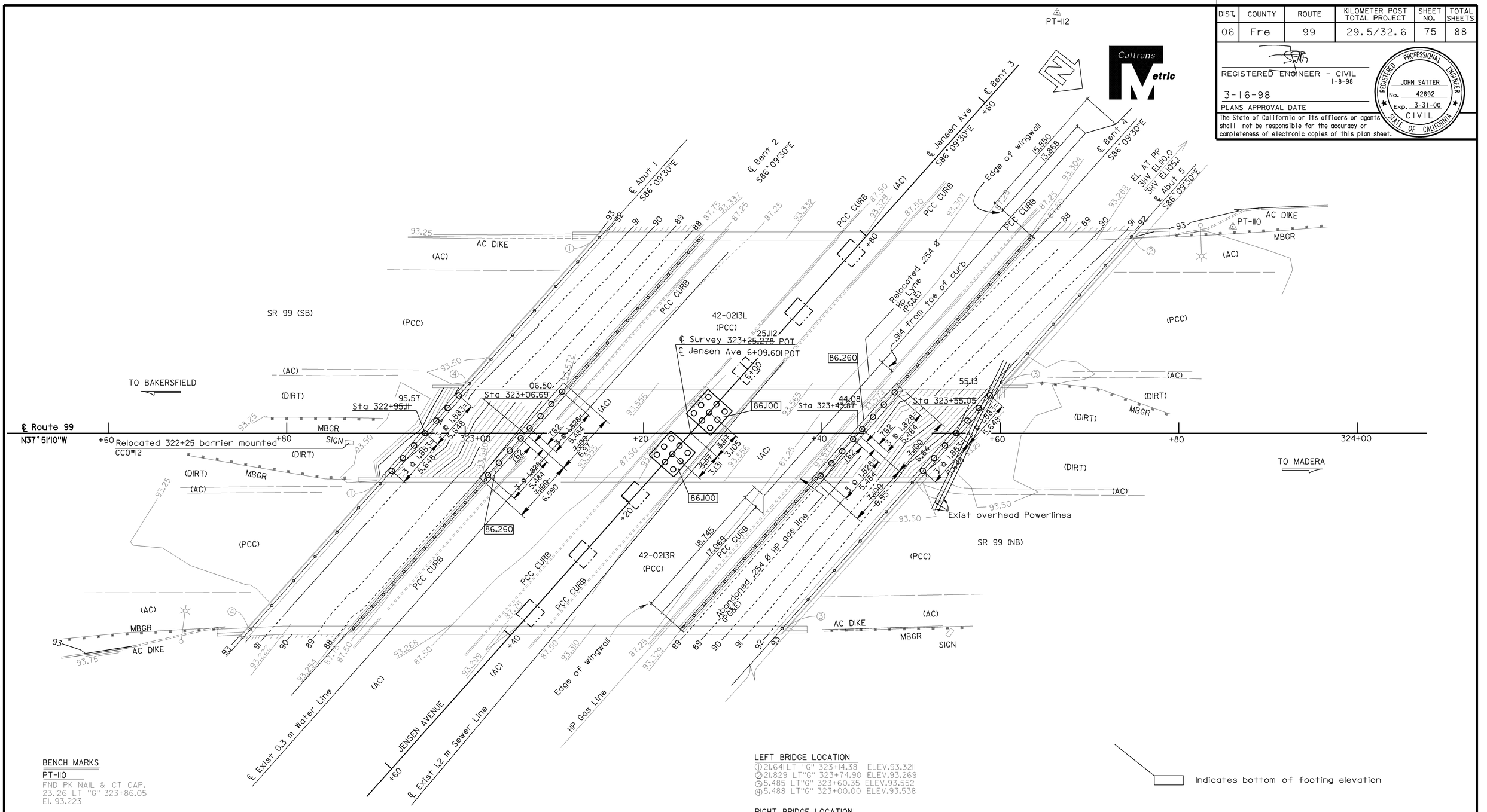
REGISTERED ENGINEER - CIVIL
1-8-98

3-16-98
PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
JOHN SATTER
No. 42892
Exp. 3-31-00
CIVIL
STATE OF CALIFORNIA

Caltrans Metric



BENCH MARKS

PT-110
FND PK NAIL & CT CAP.
23.126 LT "G" 323+86.05
El. 93.223

PT-112
FND PK NAIL & CT CAP.
47.148 LT "G" 323+66.34
El. 87.508

NOTE : PCC DECK SHOTS TAKEN AT TOE OF CURB

LEFT BRIDGE LOCATION
① 21.641 LT "G" 323+14.38 ELEV.93.321
② 21.829 LT "G" 323+74.90 ELEV.93.269
③ 5.485 LT "G" 323+60.35 ELEV.93.552
④ 5.488 LT "G" 323+00.00 ELEV.93.538

RIGHT BRIDGE LOCATION
① 5.485 RT "G" 322+90.23 ELEV.93.501
② 5.488 RT "G" 323+50.58 ELEV.93.558
③ 21.641 RT "G" 323+36.20 ELEV.93.342
④ 21.829 RT "G" 322+75.68 ELEV.93.200

Indicates bottom of footing elevation

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

PR-420213-1

PRELIMINARY INVESTIGATION SECTION

SCALE 1 : 200	DATUM NGVD 29	PHOTOGRAMMETRY AS OF:		DRAWN	BY MAZ 2/97	DESIGN	BY John Satter
ALIGNMENT TIES DISTRICT		SURVEYED	BY PCJ 12/96	TRACED	BY MAZ 2/97	DETAILS	BY Norm Kelley
		FIELD CHECKED	BY	CHECKED	BY PCJ 2/97	QUANTITIES	BY John Satter

CHECKED Overcomer Hor (DESIGN)
CHECKED Overcomer Hor (DETAILS)
CHECKED Overcomer Hor (QUANTITIES)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 8

CU 06220
EA 351201

BRIDGE NO. 42-213
KM POST 29.4/32.2

JENSEN AVENUE SEPARATION (WIDEN)
FOUNDATION PLAN

DS OSD 2145 (4/89)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

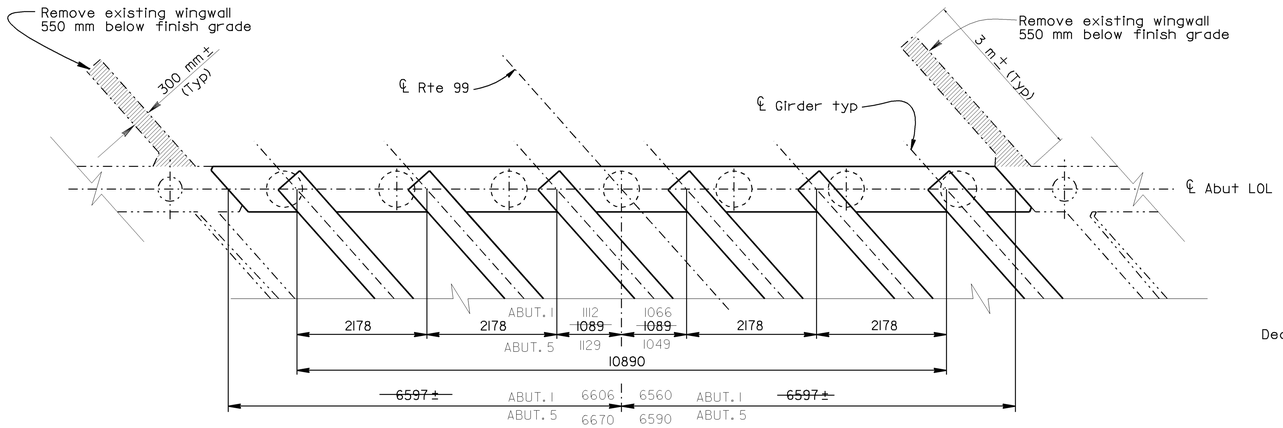
DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 3-7-97 | 3-28-97 | 4-30-97 | 4-18-97 | 4-24-97 | 4-28-97 | 4-30-97 | 5-13-97 | 10-17-97

SHEET 3 OF 16

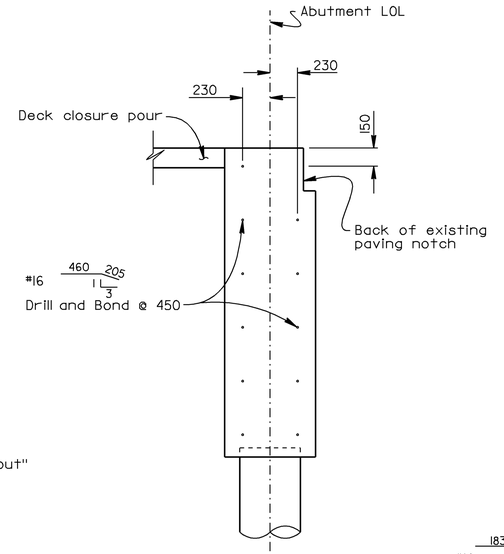
ClibPDF - www.fastio.com

AS BUILT CORRECTIONS
CONTRACT NO: 06-35204
TRANSFER DATE: 08-16-2002
FIELD CORRECTION DATE: 05-26-1999
CORRECTIONS TRANSFERED BY: Juan Sanchez
FIELD CORRECTIONS BY: Kelvin Low
abut_det1.dgn



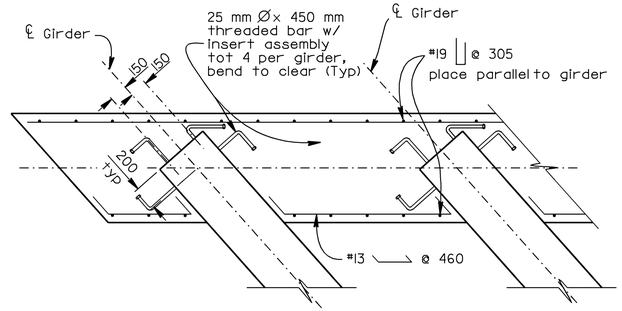
PLAN ABUTMENT 1

1:50



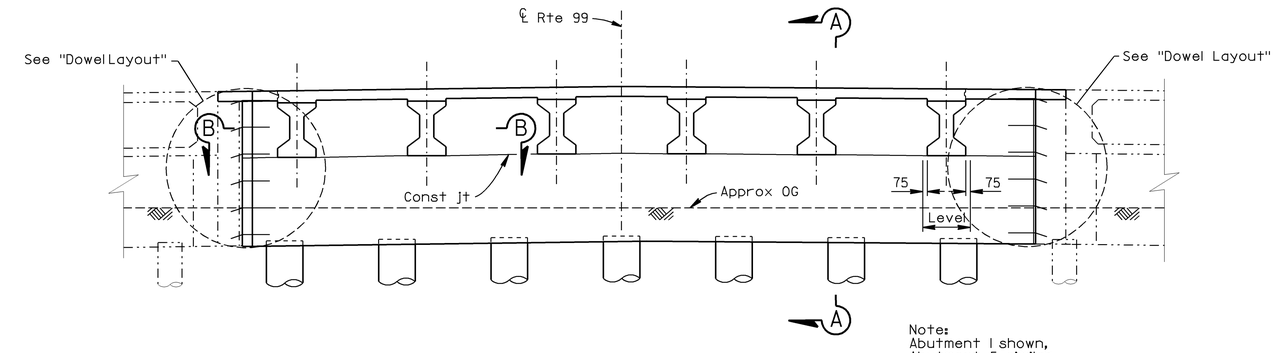
DOWEL LAYOUT

No Scale



SECTION B-B

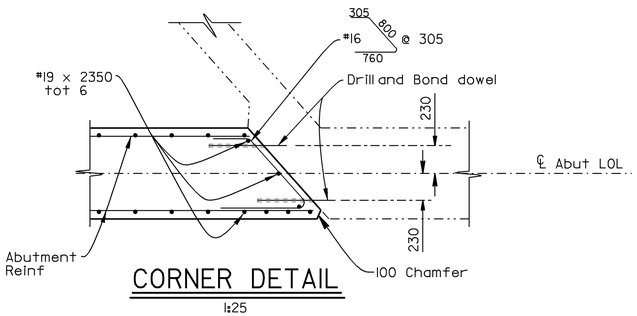
1:25



Note:
Abutment 1 shown,
Abutment 5 similar

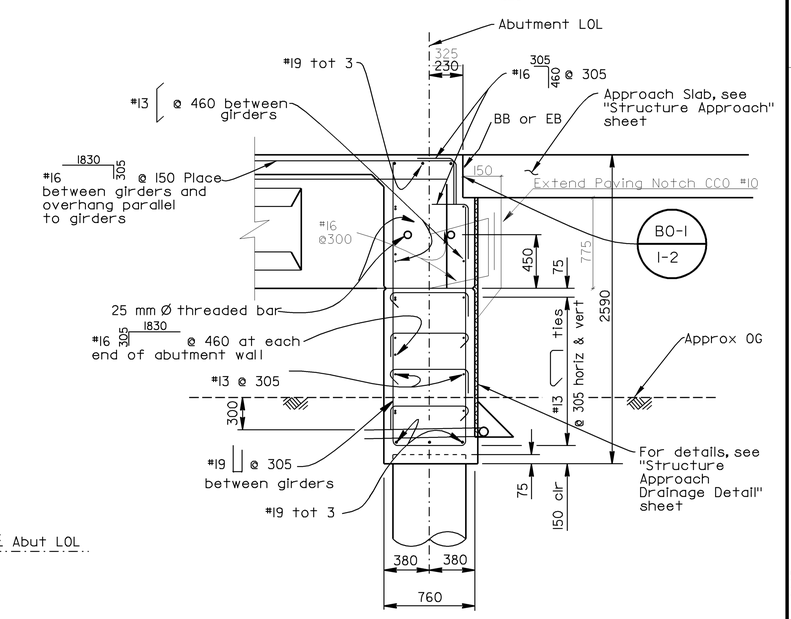
ELEVATION ABUTMENT 1

1:50



CORNER DETAIL

1:25



SECTION A-A

1:25

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

Note:
Portions of girders embeded in end diaphragm to be cleaned by abrassive blasting.

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

Caltrans Metric

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	29.5/32.6	76	88

REGISTERED ENGINEER - CIVIL
1-8-98

3-16-98
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JOHN SATTER
No. 42892
Exp. 3-31-00
CIVIL
STATE OF CALIFORNIA

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LEGEND

Indicates Existing Structure
Indicates New Construction
Indicates Concrete Removal

DESIGN	BY John Satter	CHECKED Overcomer Hor	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY Bob Silva	CHECKED Overcomer Hor	DIVISION OF STRUCTURES STRUCTURE DESIGN 8
QUANTITIES	BY John Satter	CHECKED Overcomer Hor	

BRIDGE NO. 42-213
KILOMETER POST 29.4/32.2

JENSEN AVENUE SEPARATION (WIDEN)
ABUTMENT DETAILS

DS OSD 2139M (CADD 2/8/96)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06220
EA 351201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 12-4-96, 4-18-96, 4-24-96, 4-28-97, 5-13-97, 5-20-97, 7-1-97, 3-7-97, 4-10-97

SHEET 4 OF 16

USERNAME => cfassett
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DATE PLOTTED => 15-JAN-2003
TIME PLOTTED => 15:21

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DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	29.5/32.6	73	88

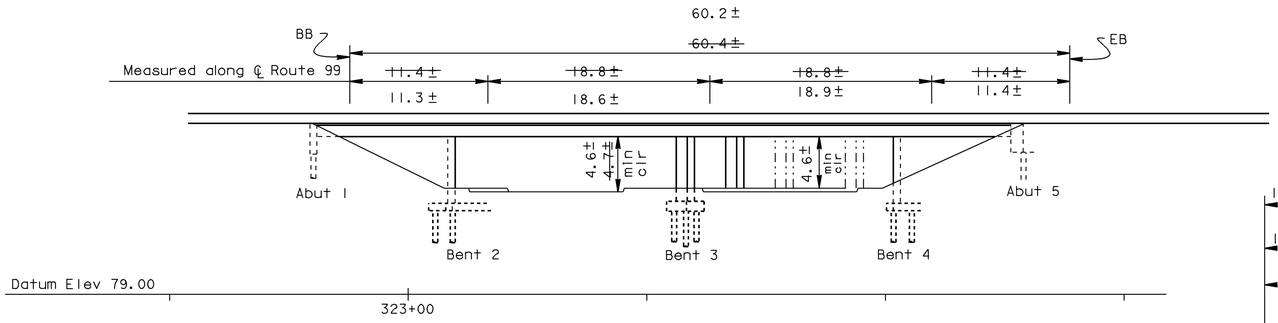
REGISTERED ENGINEER - CIVIL — 1-8-98

3-16-98
PLANS APPROVAL DATE

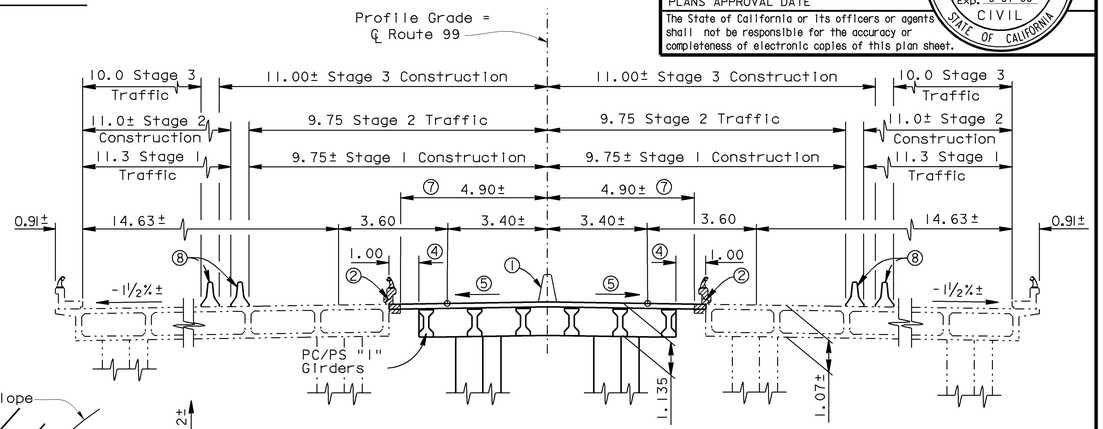
REGISTERED PROFESSIONAL ENGINEER — JOHN SATTER — No. 42892 — Exp. 3-31-00 — CIVIL — STATE OF CALIFORNIA

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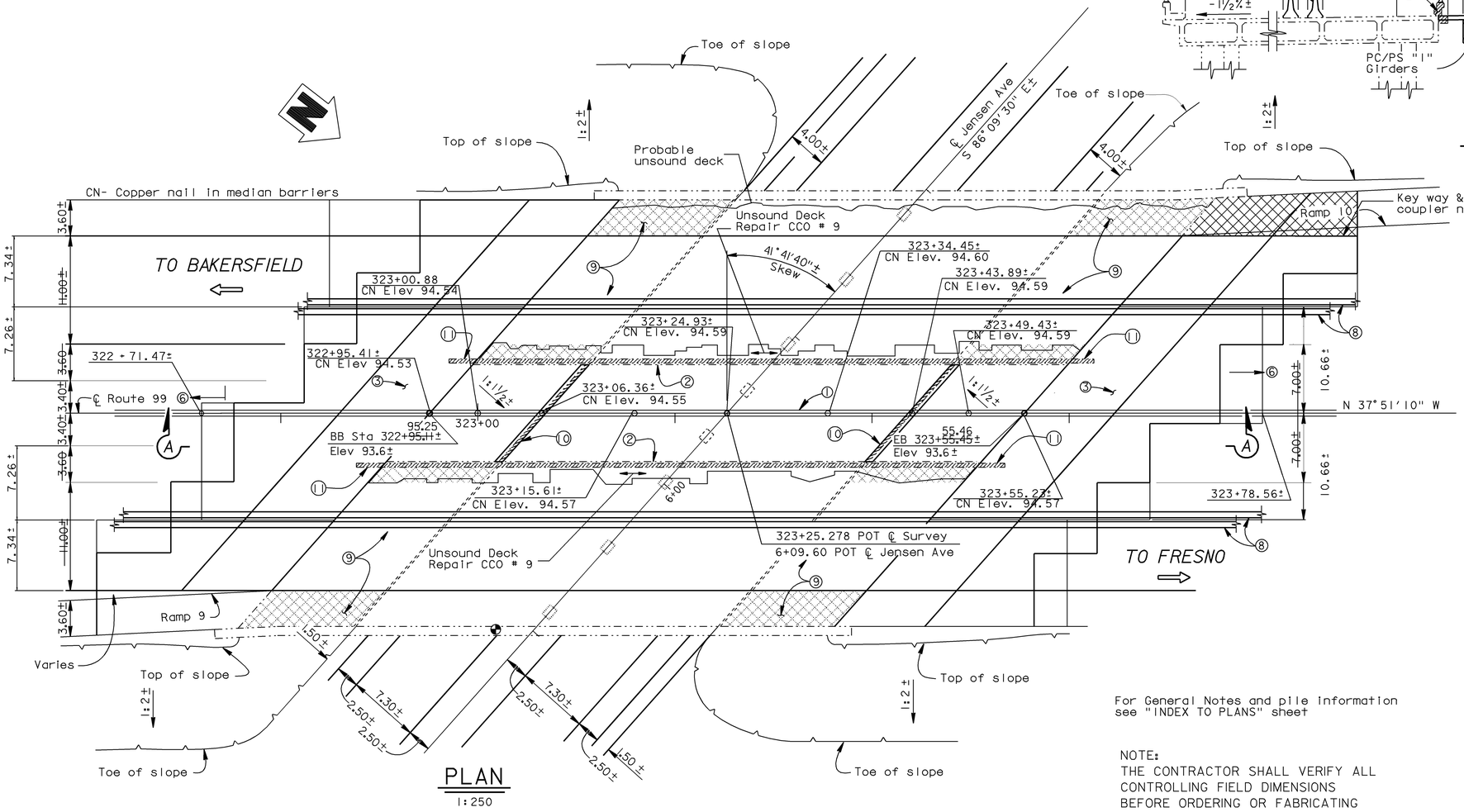
AS BUILT CORRECTIONS
CONTRACT NO: 06-351204
TRANSFER DATE: 08-16-2002
FIELD CORRECTION DATE: 05-26-1999
CORRECTIONS TRANSFERED BY: Juan Sanchez
FIELD CORRECTIONS BY: Kelvin Low



ELEVATION A-A
1:250



TYPICAL SECTION
1 : 100
(Symmetrical about centerline)



PLAN
1:250

Notes:
1. Concrete Barrier Type 60A
2. Remove Barrier and Overhang
3. Structure Approach Type N(14D)
4. Closure Pour
5. Match Existing Grade
6. For continuation of Type 60 Concrete Barrier, see "Road Plans"
7. Limits of widening
8. Temporary Railing (Type K), for staging see "Road Plans"
9. Existing Contrast Treatment
10. Remove Existing Pier Wall
11. Remove Existing Wingwall

- - - - Denotes Existing Structure
Removal Limits of Existing Concrete Barrier Type 2 & Type 1, Deck Overhang Pier Wall and Wingwall
Denotes point of minimum vertical clearance
Placement of Structure Aproach Type N (14D) Deterred to future (CCO #16) Exist. AC Remained

For General Notes and pile information see "INDEX TO PLANS" sheet

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

QUANTITIES

BRIDGE REMOVAL (PORTION)	LUMP	SUM
STRUCTURE EXCAVATION (BRIDGE)	145	m3
STRUCTURE BACKFILL (BRIDGE)	84	m3
610 mm CAST-IN-DRILLED-HOLE CONCRETE PILING	341	m
STRUCTURAL CONCRETE, BRIDGE FOOTING	45	m3
STRUCTURAL CONCRETE, BRIDGE	384	m3
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N)	558.85 ~~575~~ CCO #16	m3
DRILL AND BOND DOWEL	60	m
FURNISH PRECAST PRESTRESSED CONCRETE GIRDER (10 m - 15 m)	12	EA
FURNISH PRECAST PRESTRESSED CONCRETE GIRDER (15 m - 20 m)	12	EA
ERECT PRECAST PRESTRESSED CONCRETE GIRDER	24	EA
BAR REINFORCING STEEL (BRIDGE)	73,001	kg
CONCRETE BARRIER (TYPE 60A)	100	m

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

DESIGN	BY John Satter	CHECKED Overcomer Hor	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 8
DETAILS	BY Bob Silva	CHECKED Overcomer Hor	LAYOUT	BY Bob Silva	CHECKED John Satter		
QUANTITIES	BY John Satter	CHECKED Overcomer Hor	SPECIFICATIONS	BY Dan Ambuhl	PLANS AND SPECS COMPARED Dan Ambuhl		

Brian Mori
DESIGN ENGINEER

DS OSD 2138M (CADD 2/22/96)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06220
EA 351201

BRIDGE NO. 42-213
KILOMETER POST 29.4/32.2

JENSEN AVENUE SEPARATION (WIDEN)
GENERAL PLAN

DISREGARD PRINTS BEARING EARLIER REVISION DATES →
REVISION DATES (PRELIMINARY STAGE ONLY): 10-7-96 | 1-26-97 | 2-28-97 | 4-11-97 | 4-28-97 | 5-23-97 | 6-26-97 | 10-17-97 | 1-6-98 | 1-8-98

SHEET 1 OF 16

DATE PLOTTED => 15-JAN-2003
TIME PLOTTED => 15:20

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RELEASED 8-13-92
CONTRACT No. 06-338204
TRANSFER DATE: 08-16-2002
FIELD CORRECTION DATE: 05-26-1999
CORRECTIONS TRANSFERED BY: Juan Sanchez
FIELD CORRECTIONS BY: Kelvin Low

AS BUILT CORRECTIONS

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	29.5/32.6	84	88

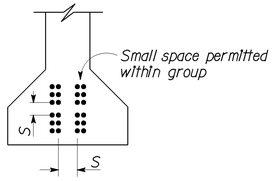
REGISTERED ENGINEER - CIVIL
1-8-98

REGISTERED PROFESSIONAL ENGINEER
JOHN SATTER
No. 42892
Exp. 3-31-00
CIVIL
STATE OF CALIFORNIA

3-16-98
PLANS APPROVAL DATE

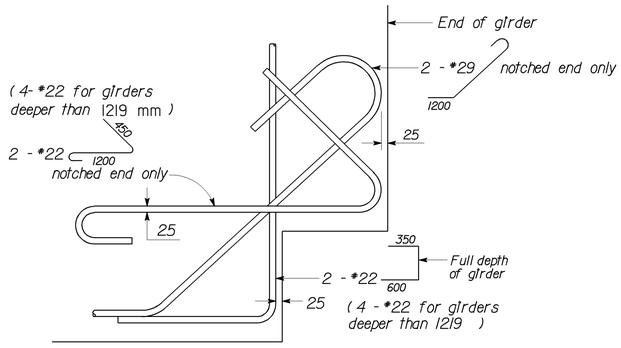
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CLEARANCES FOR PRETENSIONED STRANDS

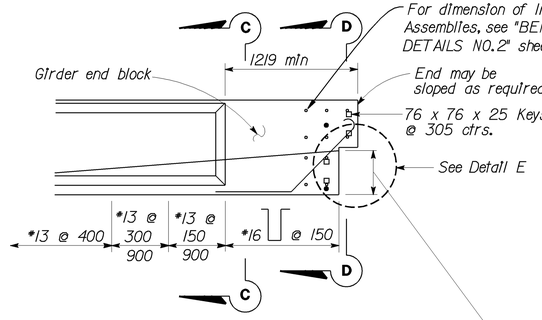


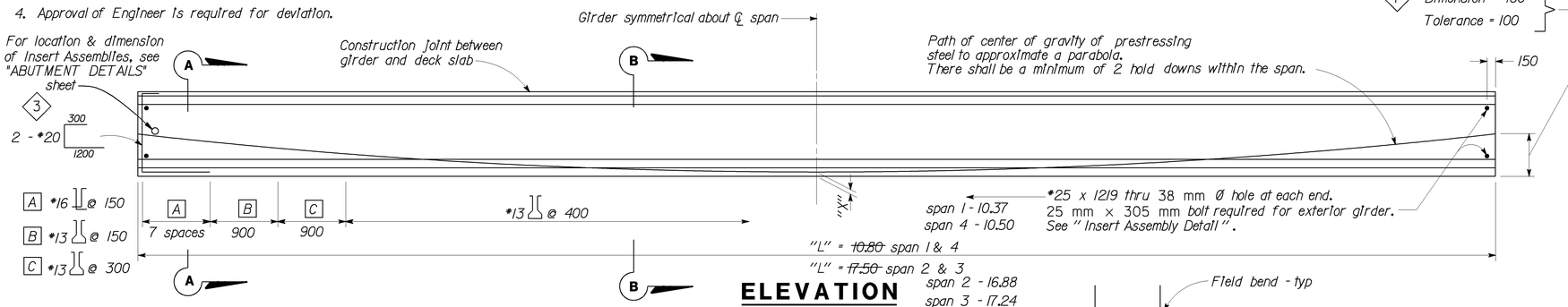
1. Strands may be bundled in groups consisting of 3 vertically 2 horizontally, and separated at the ends.
2. The min distance "S" between groups or individual strands is 38 mm for 9.5 mm strands, 44 mm for 11 mm strands and 610 mm for 13 mm strands.
3. "S" is measured between centers of adjacent strands.
4. Approval of Engineer is required for deviation.

DETAIL E



NOTCHED END





ELEVATION

Note :

Details shown are for Pretensioned Girders. The Contractor may submit details for Post-tensioning which shall be subject to the approval of the Engineer.

PRESTRESSING NOTES

WORKING FORCE : The force required at center of span after all losses.

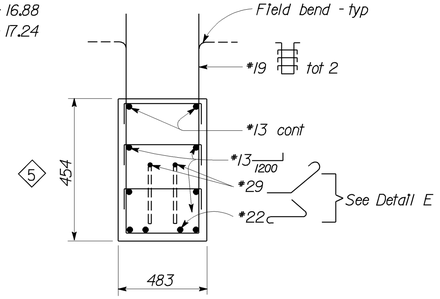
CONCRETE STRENGTH : f'c 1 is at time of initial stressing f'c is at 28 days, MPa.

DEFLECTION COMPONENTS : Informational - to be used in setting screed line elevations.

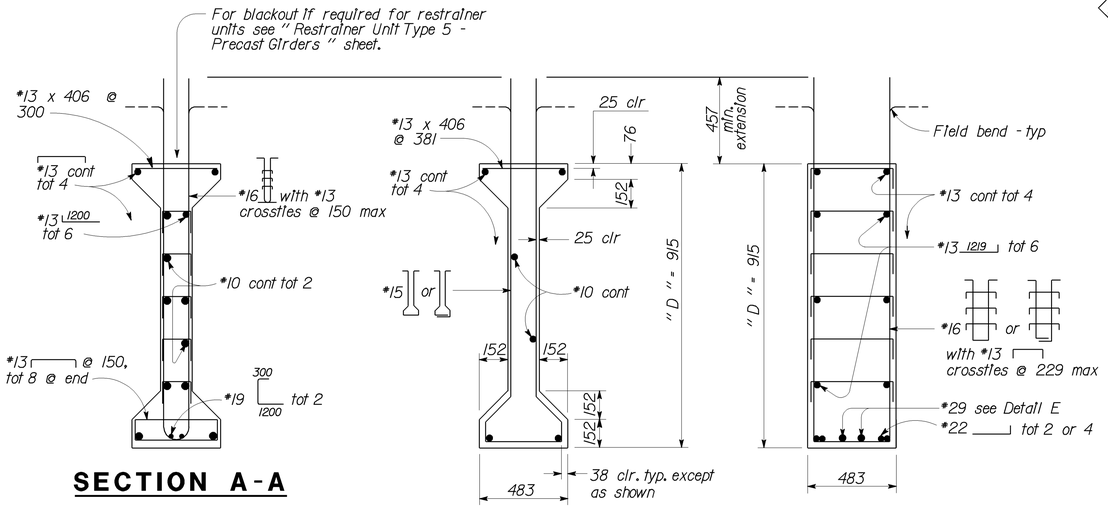
Screed line elevations for deck concrete will be determined by the Engineer.

Contractor may interpolate "P" and "X" values between limits shown, as approved by the Engineer.

Girder location or designation and length	P = Working force in (kN) "X"		Concrete Strength f'c 1	Concrete Strength f'c	Deflection Components (mm) 1 Deck DL	Deflection Components (mm) 2 Rail DL
All Girders Span 1&4	102	580	28 mpa	28 mpa	2.5	0.0
	152	640				
All Girders Span 2&3	102	1700	28 mpa	28 mpa	16.2	0.0
	152	1880				



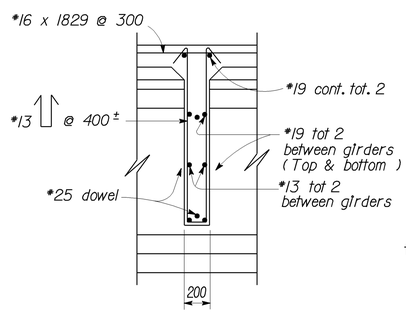
SECTION D-D



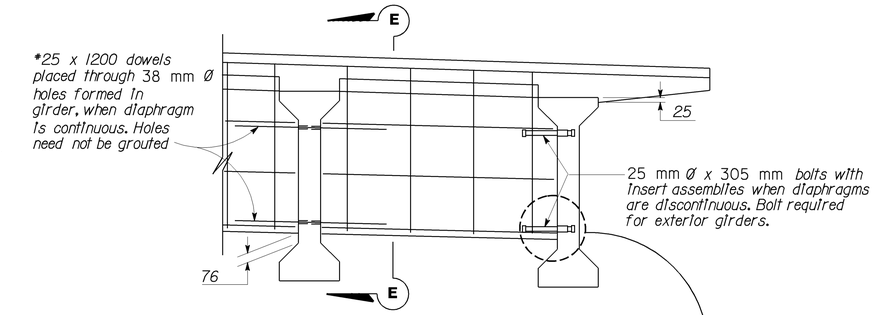
SECTION A-A

SECTION B-B

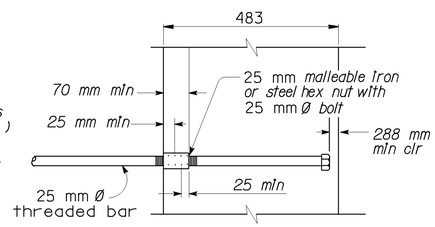
SECTION C-C



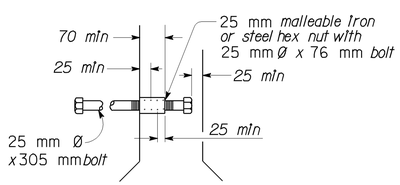
SECTION E-E



INTERMEDIATE DIAPHRAGM



2 **BENT CAP INSERT ASSEMBLY DETAIL**
NO SCALE



INSERT ASSEMBLY
NO SCALE

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

SPECIAL DETAILS

STANDARD DRAWING				
FILE NO. XS 12-36	DESIGN	BY ROBERT K. DOWELL	CHECKED A.W. DEETER	APPROVAL RECOMMENDED BY
DESIGN DATE REVISED	DETAILS	BY R. YEE	CHECKED A.W. DEETER	DESIGN SUPERVISOR
	SUBMITTED BY ALVIN W. DEETER			

1 Revised Dimension
2 Added Detail
3 Revised Detail
4 Revised Detail
5 Added Dimension

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 8

BRIDGE NO. 42-213
KILOMETER POST 29.4/32.2

JENSEN AVENUE SEPARATION (WIDEN)
PRESTRESSED I GIRDER

DS OSD 2147A (CADD 8/95)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS
0 10 20 30 40 50 60 70 80 90 100

CU 06220
EA 351201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)								SHEET	OF
2-06-97	2-24-97	3-5-97	3-10-97	4-18-97	4-24-97	4-28-97		12	16

XS1236.DGN V1=1

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CONTRACT NO: 06-35204
TRANSFER DATE: 08-16-2002
FIELD CORRECTION DATE: 05-26-1999
CORRECTIONS TRANSFERED BY: Juan Sanchez
FIELD CORRECTIONS BY: Kelvin Low

AS BUILT CORRECTIONS

NO. be1.dgn

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	29.5/32.6	81	88

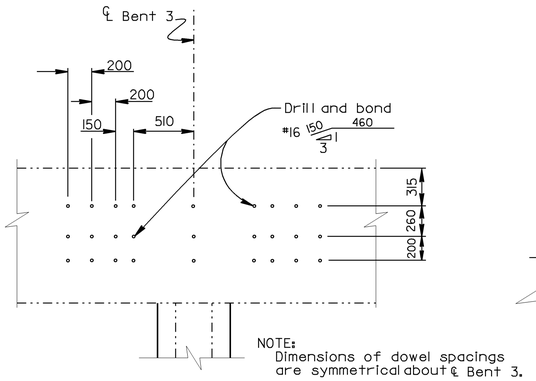
REGISTERED ENGINEER - CIVIL 1-8-98

3-16-98
PLANS APPROVAL DATE

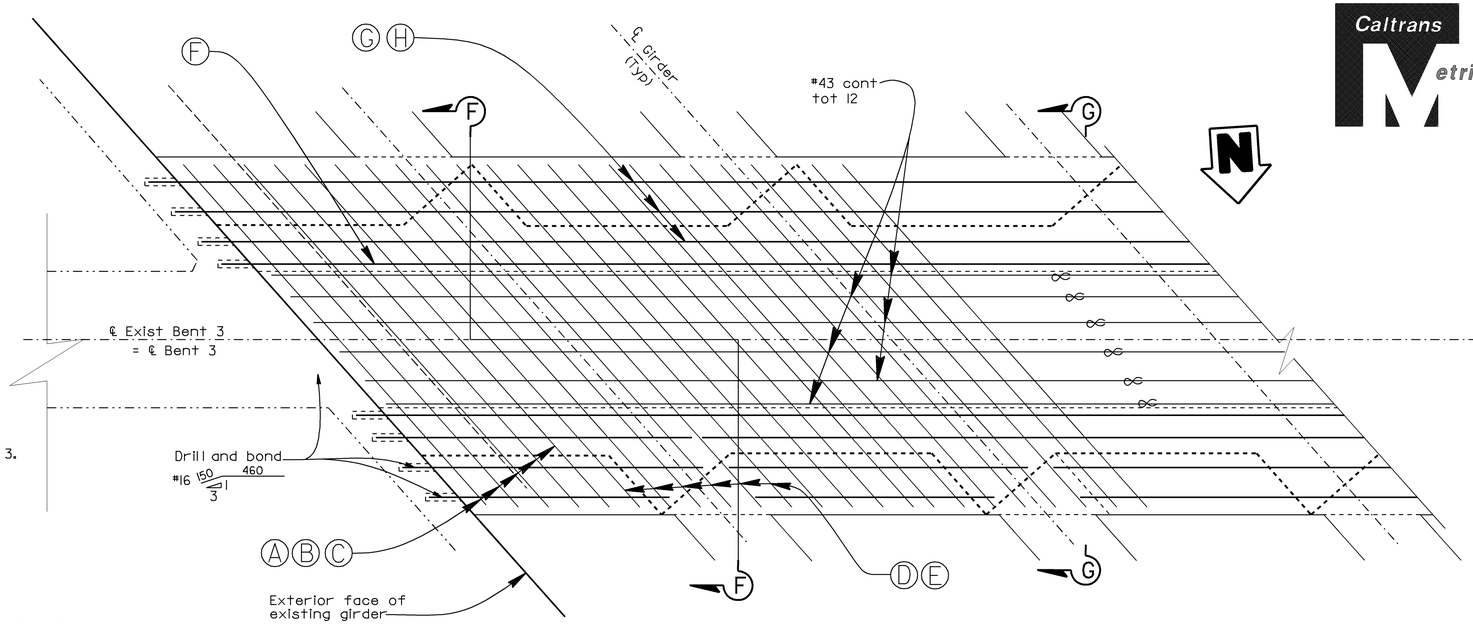
REGISTERED PROFESSIONAL ENGINEER — JOHN SATTER — No. 42892 — Exp. 3-31-00 — CIVIL — STATE OF CALIFORNIA

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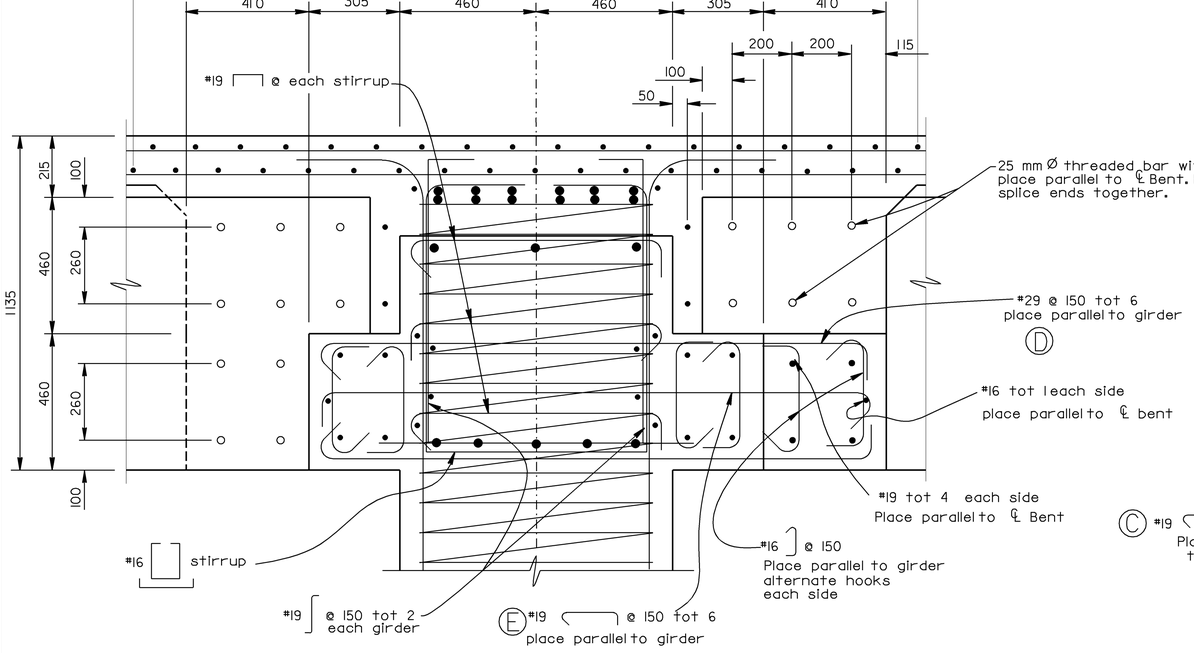
Caltrans Metric



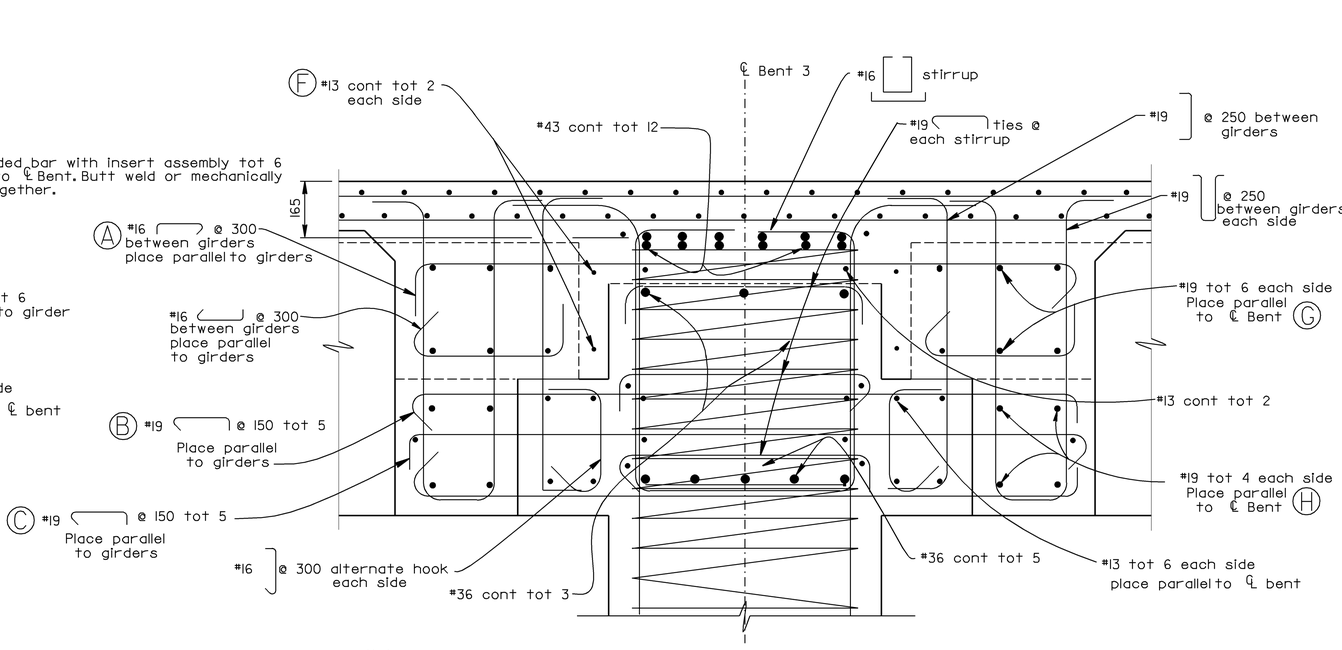
DOWEL LAYOUT
1:25



PART PLAN
1:20



SECTION F-F
1:10



Note:
For details not shown see "Section D-D".

SECTION G-G
1:10

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

LEGEND

- Indicates Existing Structure
- Indicates New Construction
- Indicates bundled bars

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	BY John Satter	CHECKED Overcomer Hor
DETAILS	BY Bob Silva	CHECKED Overcomer Hor
QUANTITIES	BY John Satter	CHECKED Overcomer Hor

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 8

BRIDGE NO. 42-213
KILOMETER POST 29.4/32.2

JENSEN AVENUE SEPARATION (WIDEN)
BENT 3 DETAILS NO. 2

DS OSD 2139M (CADD 2/8/96)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06220
EA 351201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 2-24-97 | 1-1-98 | 1-1-98 | 1-9-98 | | 4-16-97 | 4-23-97 | 4-24-97 | 4-28-97 | 5-15-97

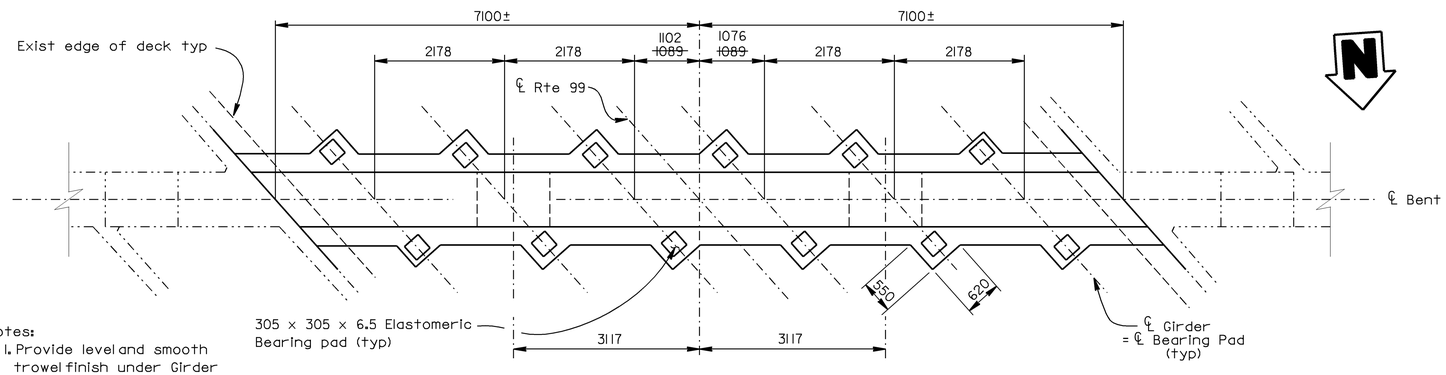
SHEET 9 OF 16

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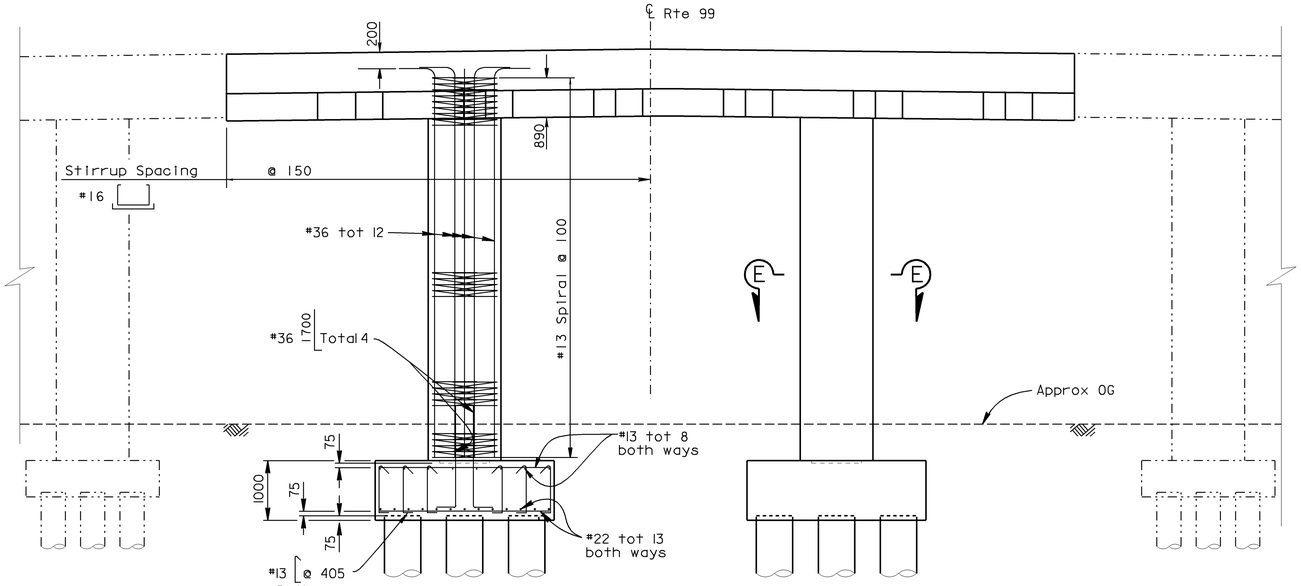
AS BUILT CORRECTIONS
CONTRACT NO. 06-351204
TRANSFER DATE: 08-16-2002
FIELD CORRECTION DATE: 05-26-1999
CORRECTIONS TRANSFERED BY: Juan Sanchez
FIELD CORRECTIONS BY: Kelvin Low



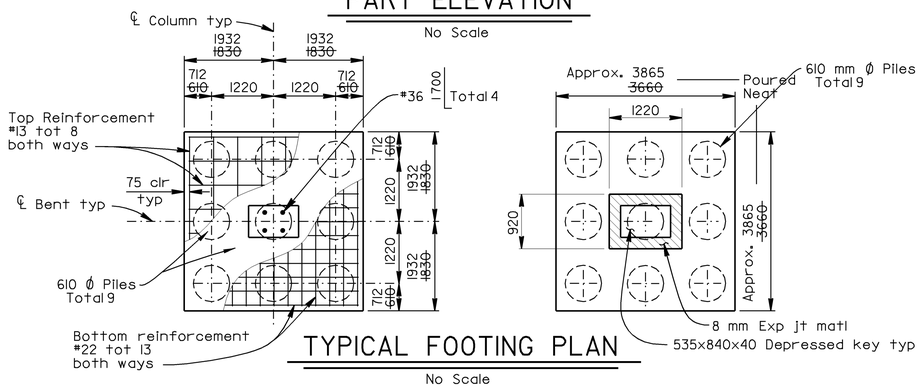
Notes:
1. Provide level and smooth trowel finish under Girder (typ)
2. For dowel layout, see "BENT 3 DETAILS NO. 2" sheet

PART PLAN
1:50

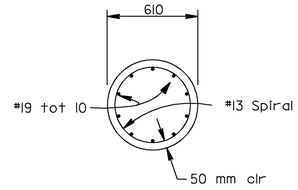
Note: Reinforcement symmetrical about ℄ Rte 99



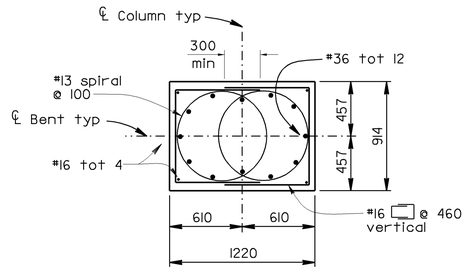
PART ELEVATION
No Scale



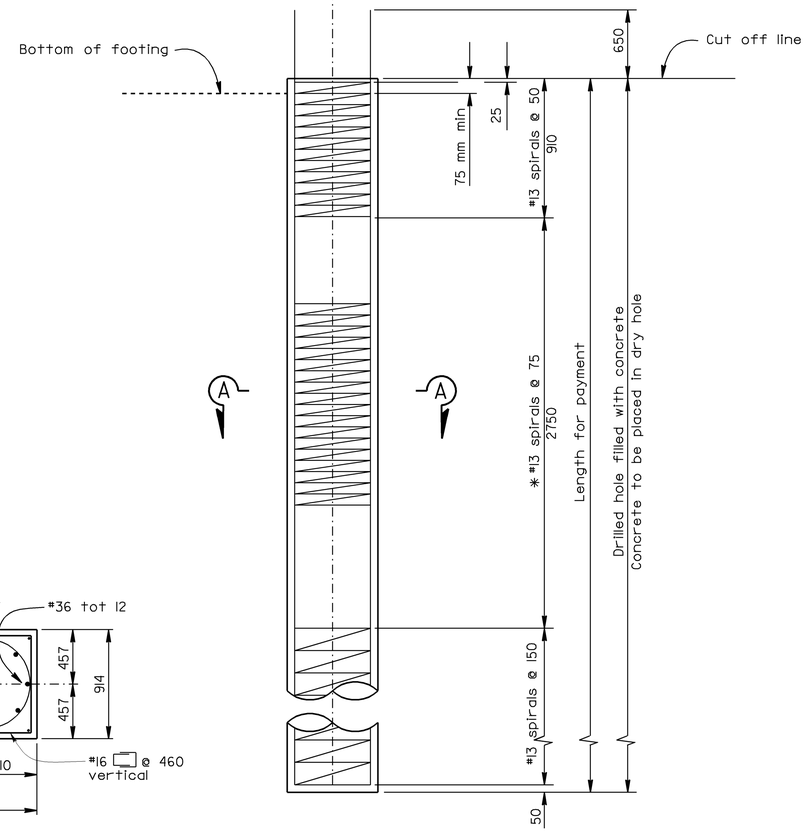
TYPICAL FOOTING PLAN
No Scale



SECTION A-A
1:20



SECTION E-E
1:25



CIDH CONCRETE PILE
1:20

NOTES: * @ 50 at option of contractor

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

LEGEND
- Indicates Existing Structure
- Indicates New Construction

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	29.5/32.6	80	88

REGISTERED ENGINEER - CIVIL
1-8-98
3-16-98
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JOHN SATTER
No. 42892
Exp. 3-31-00
CIVIL
STATE OF CALIFORNIA

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ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DESIGN	BY John Satter	CHECKED Overcomer Hor	
DETAILS	BY Bob Silva/Norm Kelley	CHECKED Overcomer Hor	
QUANTITIES	BY John Satter	CHECKED Overcomer Hor	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
DIVISION OF STRUCTURES
STRUCTURE DESIGN 8

CU 06220
EA 351201

BRIDGE NO. 42-213
KILOMETER POST 29.4/32.2

JENSEN AVENUE SEPARATION (WIDEN)
BENT 3 DETAILS NO. 1

DISREGARD PRINTS BEARING EARLIER REVISION DATES →
REVISION DATES (PRELIMINARY STAGE ONLY): 10-09-96, 2-27-97, 3-14-97, 3-19-97, 4-16-97, 4-23-97, 5-05-97, 5-20-97, 1-7-98

SHEET 8 OF 16

DS OSD 2139M (CADD 2/8/96)
ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100
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DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	29.5/32.6	79	88

REGISTERED ENGINEER - CIVIL
1-8-98

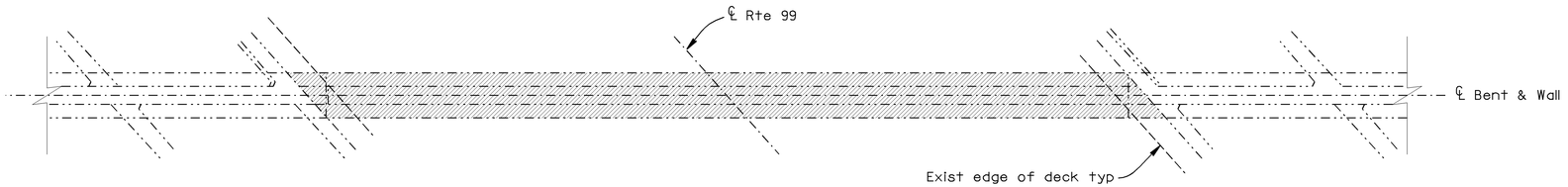
3-16-98
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JOHN SATTER
No. 42892
Exp. 3-31-00
CIVIL
STATE OF CALIFORNIA

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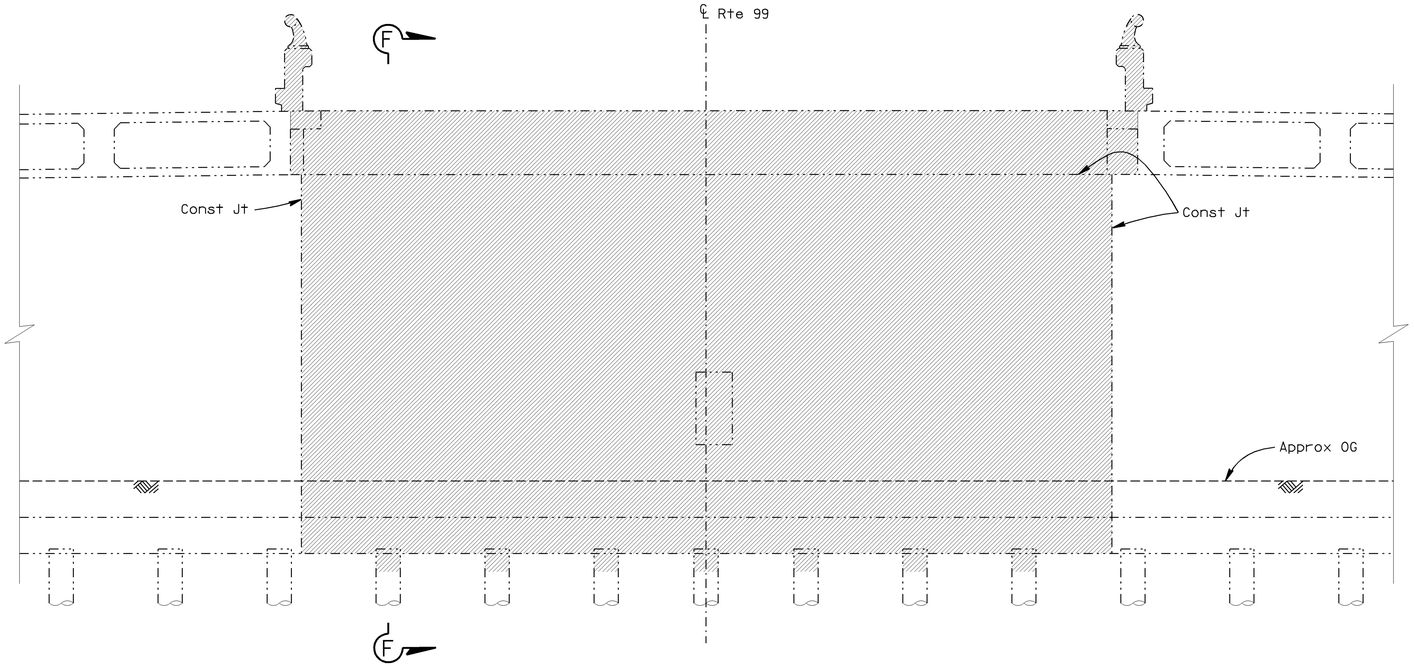
LEGEND

- Indicates Existing Structure
- Indicates New Construction
- Indicates Concrete Removal
- Indicates Structure Excavation



PART PLAN (CONCRETE REMOVAL)

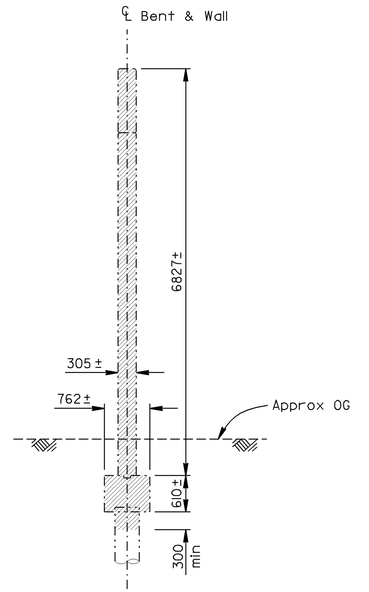
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NOTE:
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Bent 4 similar.

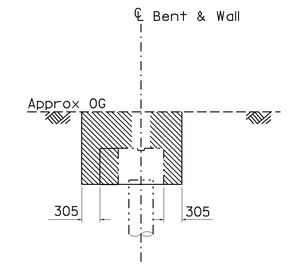
PART ELEVATION (CONCRETE REMOVAL)

1:50



SECTION F-F

1:50



EXCAVATION LIMITS

1:50

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DESIGN	BY John Satter	CHECKED Overcomer Hor	
DETAILS	BY Bob Silva	CHECKED Overcomer Hor	
QUANTITIES	BY John Satter	CHECKED Overcomer Hor	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 8

BRIDGE NO. 42-213
KILOMETER POST 29.4/32.2

JENSEN AVENUE SEPARATION (WIDEN)

BENT 2 DETAILS NO. 3

DS OSD 2139M (CADD 2/8/96)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06220
EA 351201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)
12-12-96 | 12-19-96 | 12-24-96 | 2-06-97 | 4-28-97 | 5-14-97 | 1-8-98

SHEET 7 OF 16

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TIME PLOTTED => 15:22

CONTRACT NO: 06-351204
TRANSFER DATE: 08-16-2002
FIELD CORRECTION DATE: 05-26-1999
CORRECTIONS TRANSFERED BY: Juan Sanchez
FIELD CORRECTIONS BY: Kelvin Low

NO AS BUILT CORRECTIONS

be_03.dgn

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CONTRACT NO. 06-351204
TRANSFER DATE: 08-16-2002
FIELD CORRECTION DATE: 05-26-1999
CORRECTIONS TRANSFERED BY: Juan Sanchez
FIELD CORRECTIONS BY: Kelvin Low

AS BUILT CORRECTIONS

NO. 2. dgn

Caltrans Metric

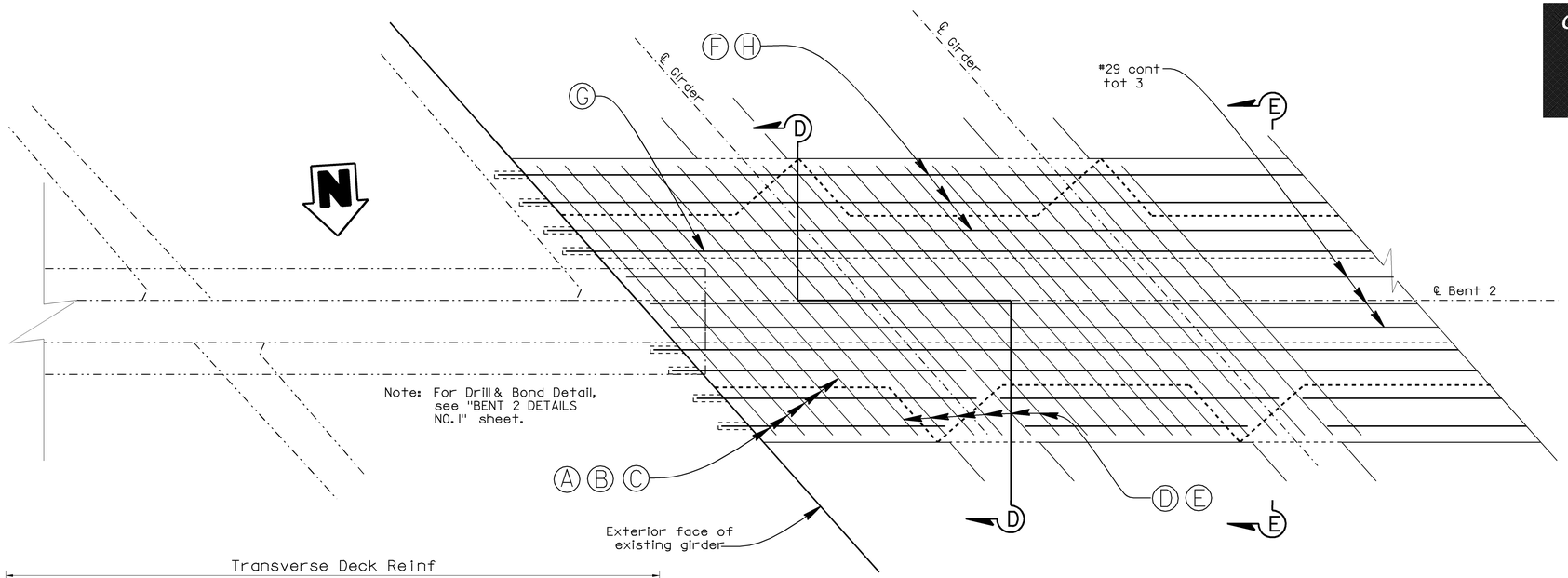
DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	29.5/32.6	78	88

REGISTERED ENGINEER - CIVIL
1-8-98

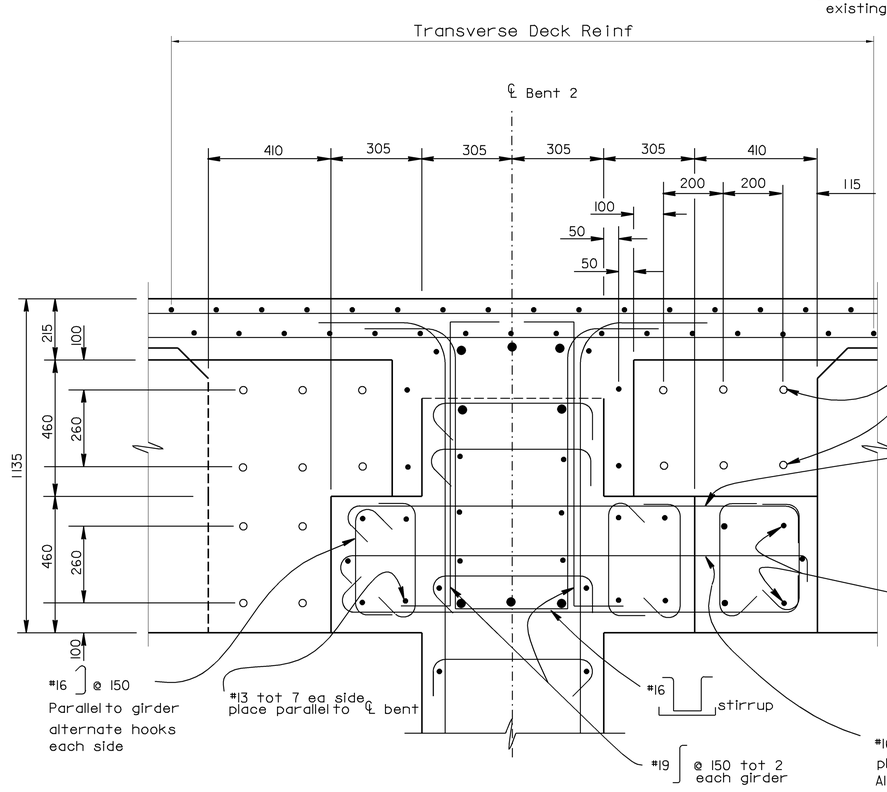
3-16-98
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JOHN SATTER
No. 42892
Exp. 3-31-00
CIVIL
STATE OF CALIFORNIA

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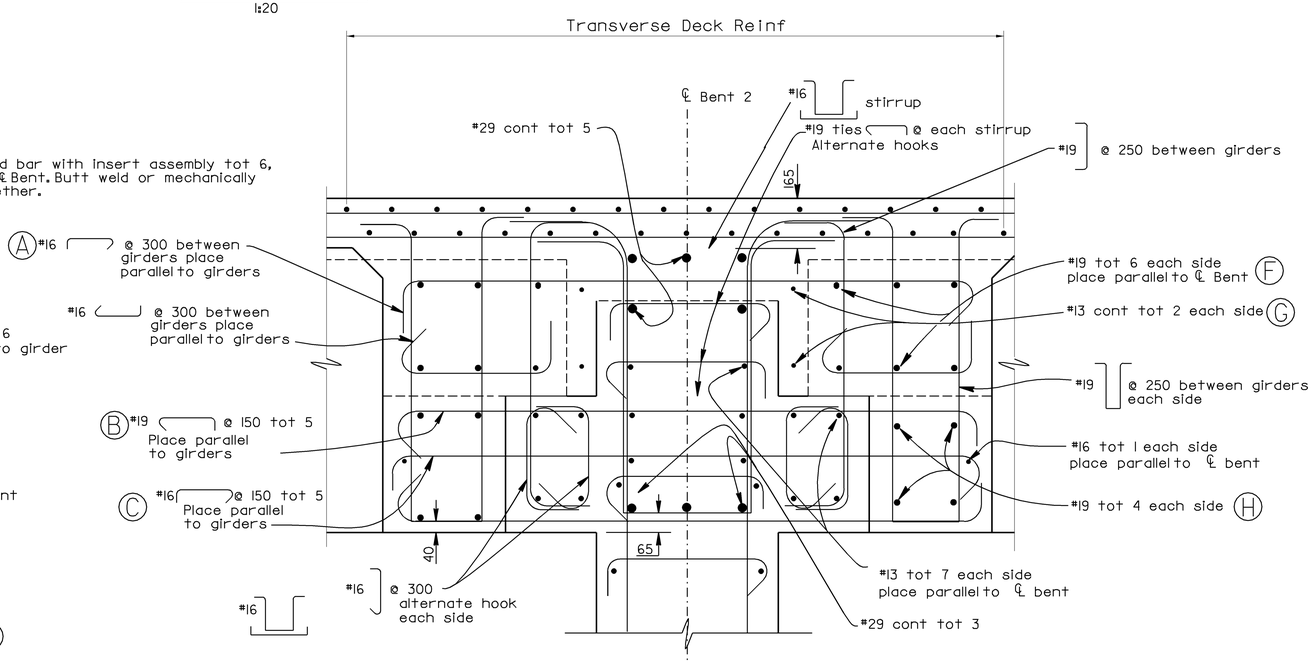


PART PLAN
1:20



SECTION D-D
1:10

Note:
Bent 2 Shown, Bent 4 similar



Note:
For details not shown see "Section D-D".

SECTION E-E
1:10

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DESIGN	BY John Satter	CHECKED Overcomer Hor	
DETAILS	BY Bob Silva	CHECKED Overcomer Hor	
QUANTITIES	BY John Satter	CHECKED Overcomer Hor	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 8

CU 06220
EA 351201

BRIDGE NO. 42-213
KILOMETER POST 29.4/32.2

JENSEN AVENUE SEPARATION (WIDEN)
BENT 2 DETAILS NO. 2

DS OSD 2139M (CADD 2/8/96)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 1-30-97 | 1-8-98 | | 3-4-97 | 3-7-97 | 3-18-97 | 4-17-96 | 4-28-97 | 4-30-97 | 5-14-97

SHEET 6 OF 16

DATE PLOTTED =>
TIME PLOTTED =>

USERNAME => cfassett
q0616b2d2.dgn

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AS BUILT CORRECTIONS
CORRECTIONS TRANSFERED BY: Juan Sanchez
FIELD CORRECTIONS BY: Kelvin Low
TRANSFER DATE: 08-16-2002
FIELD CORRECTION DATE: 05-26-1999
CONTRACT NO: 06-35204
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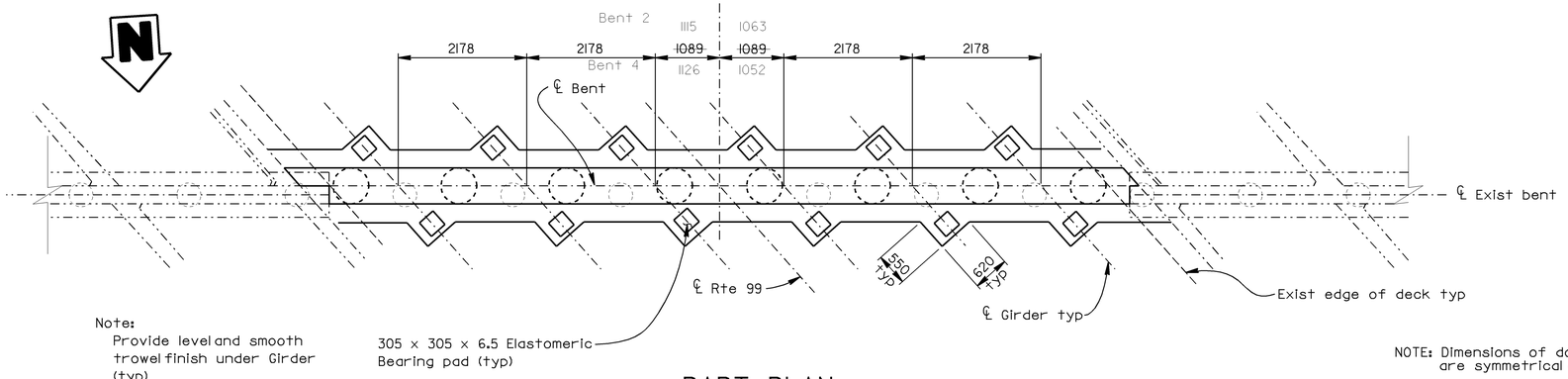
DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	29.5/32.6	77	88

REGISTERED ENGINEER - CIVIL 1-8-98

3-16-98
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JOHN SATTER — No. 42892 — Exp. 3-31-00 — CIVIL — STATE OF CALIFORNIA

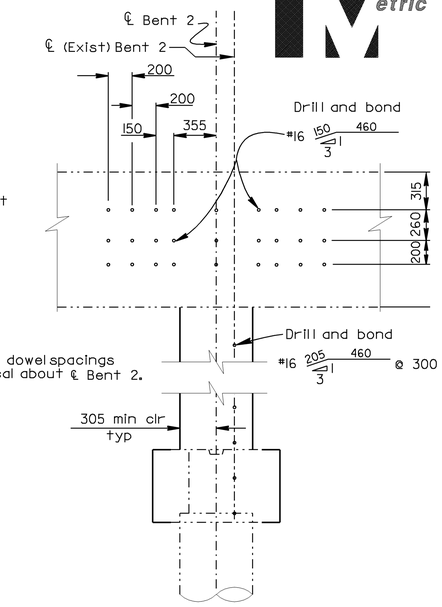
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PART PLAN

1:50

Bent 2 shown, Bent 4 similar (except as indicated)

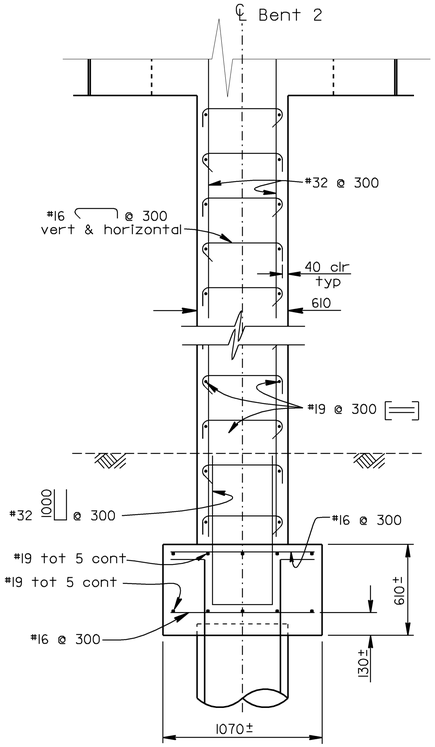


NOTE: Dimensions of dowel spacings are symmetrical about ℄ Bent 2.

DOWEL LAYOUT

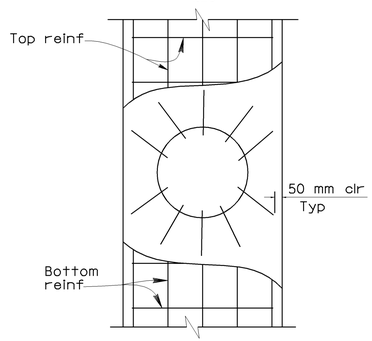
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Bent 2 shown, Bent 4 similar



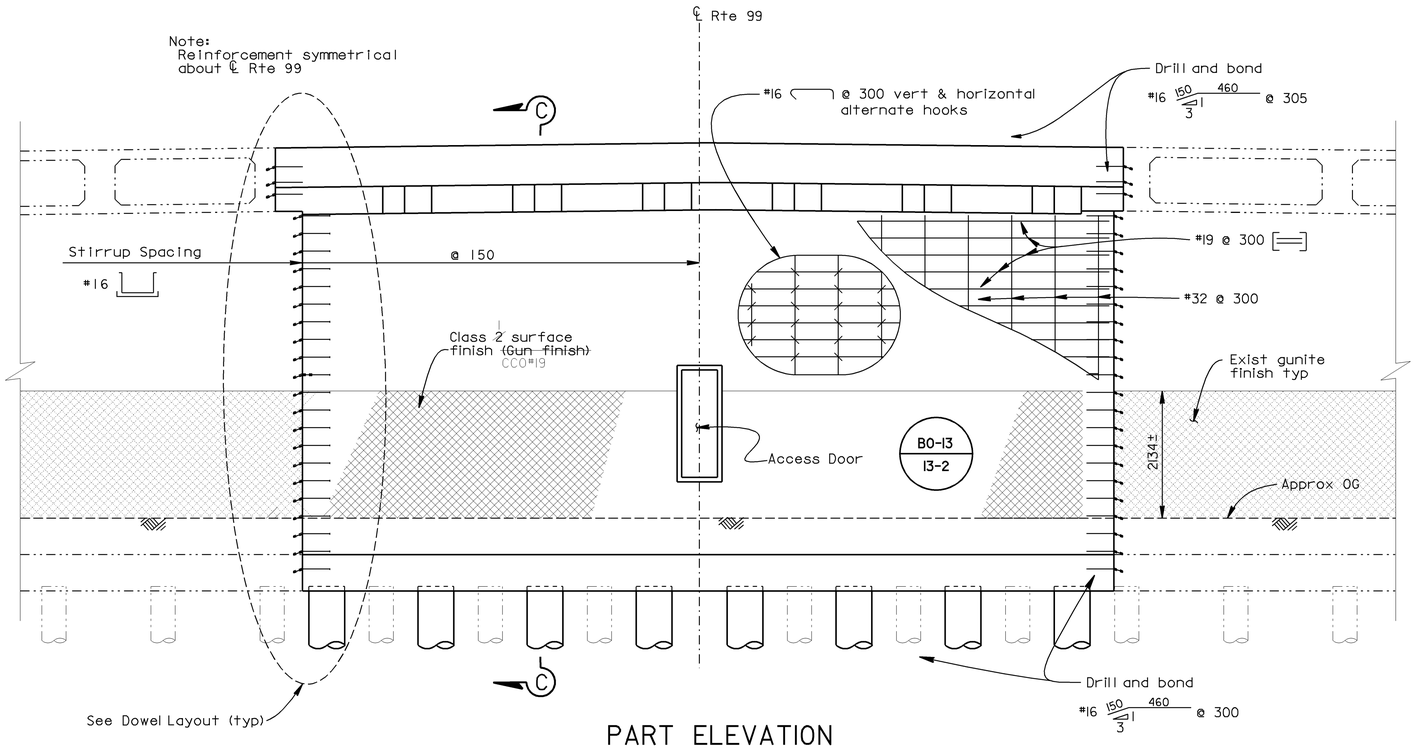
SECTION C-C

1:20



PART FOOTING PLAN

1:20



PART ELEVATION

1:50

Bent 2 shown, Bent 4 similar

LEGEND

- Indicates Existing Structure
- Indicates New Construction
- Indicates Concrete Removal

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DESIGN	BY John Satter	CHECKED Overcomer Hor	
DETAILS	BY Bob Silva	CHECKED Overcomer Hor	
QUANTITIES	BY John Satter	CHECKED Overcomer Hor	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 8

BRIDGE NO. 42-213
KILOMETER POST 29.4/32.2

JENSEN AVENUE SEPARATION (WIDEN)
BENT 2 DETAILS NO. 1

DS OSD 2139M (CADD 2/8/96)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06220
EA 351201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 12-12-96 | 4-08-97 | 4-24-97 | 4-28-97 | 4-30-97 | 5-14-97 | 5-20-97 | 1-7-98 | 1-8-98 | 1-9-98

SHEET 5 OF 16

DATE PLOTTED => 15-JAN-2003
TIME PLOTTED => 15:22

USERNAME => cfassett
a0516b2dl.dgn

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AS BUILT CORRECTIONS

CONTRACT No: 06-351204
TRANSFER DATE: 08-16-2002
FIELD CORRECTION DATE: 05-26-1999
CORRECTIONS TRANSFERED BY: Juan Sanchez
FIELD CORRECTIONS BY: KelVin Low

CALTRANS Metric

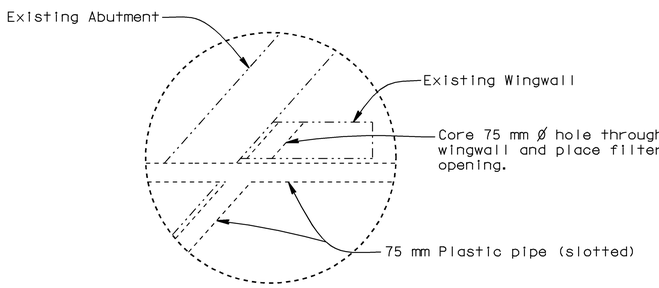
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06	Fre	99	29.5/32.6	87	88

REGISTERED ENGINEER - CIVIL
1-8-98

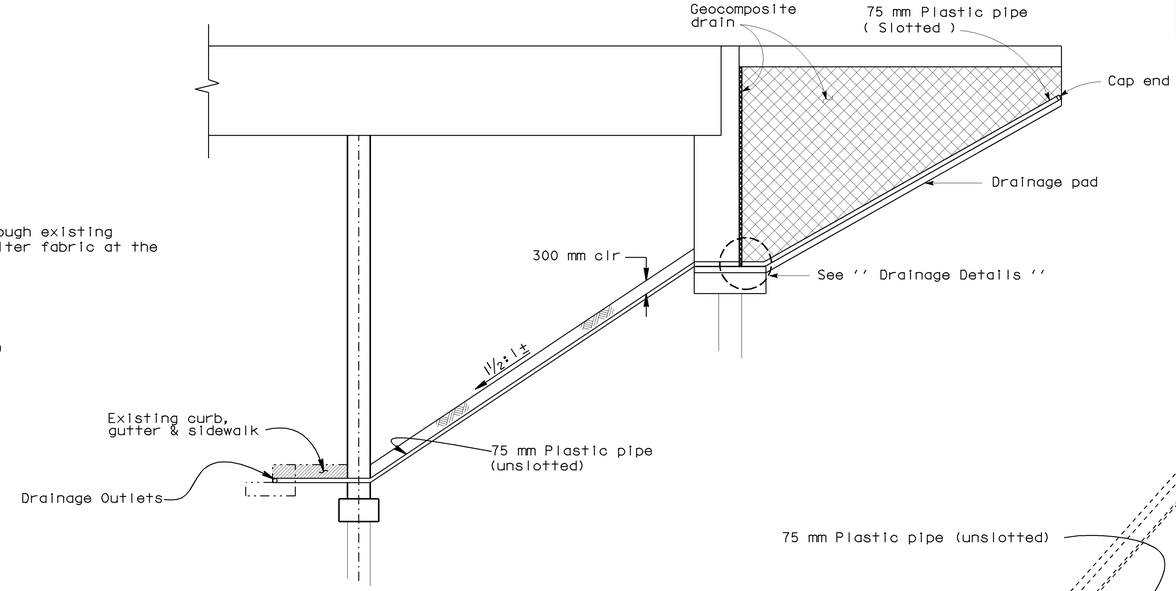
3-16-98
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JOHN SATTER
No. 42892
Exp. 3-31-00
CIVIL
STATE OF CALIFORNIA

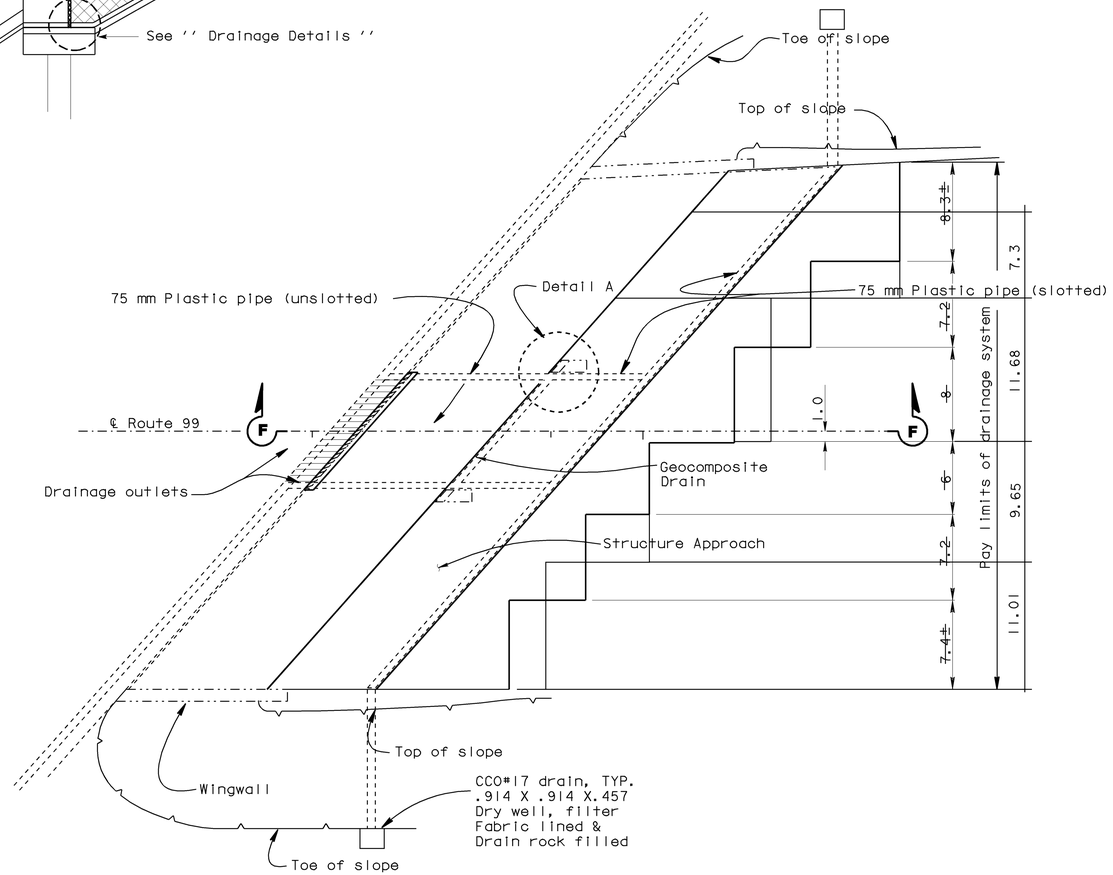
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DETAIL A
No Scale



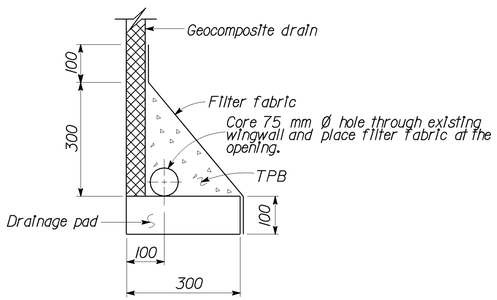
SECTION F-F
No Scale



NOTE:
Indicates remove and replace existing curb, gutter and sidewalk.

TYPICAL PLAN
No Scale

NOTE: Bends and junctions in 75 mm plastic pipe are 750 mm radius min.



DRAINAGE DETAILS
No Scale

NO SCALE
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

DATE PLOTTED => 15-JAN-2003
TIME PLOTTED => 15:25

DESIGN	BY John Satter	CHECKED Overcomer Hor	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 8	BRIDGE NO. 42-0213
DETAILS	BY Norm Kelley	CHECKED Overcomer Hor			POST MILE 29.4/32.2
QUANTITIES	BY John Satter	CHECKED Overcomer Hor			

JENSEN AVENUE SEPARATION (WIDEN)
STRUCTURE APPROACH DRAINAGE DETAILS

DS OSD 2139M (CADD 2/8/96)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06220
EA 351201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 2-20-97 | 1-8-98 | | 3-5-97 | 4-24-97 | 4-29-97 | 4-30-97 | 5-26-97 | 6-26-97 | 10-27-97

SHEET 15 OF 16

USERNAME => cfassett
al516sadd.dgn

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RELEASED II-2-92
CONTRACT NO: 06-35204
TRANSFER DATE: 08-16-2002
FIELD CORRECTION DATE: 05-26-1999
CORRECTIONS TRANSFERED BY: Juan Sanchez
FIELD CORRECTIONS BY: Kelvin Low

AS BUILT CORRECTIONS

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	29.5/32.6	86	88

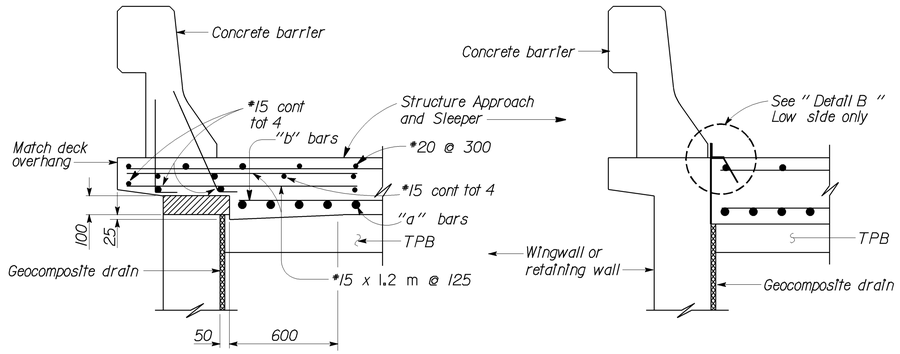
Caltrans Metric

REGISTERED ENGINEER - CIVIL
1-8-98

REGISTERED PROFESSIONAL ENGINEER
JOHN SATTER
No. 42892
Exp. 3-31-00
CIVIL
STATE OF CALIFORNIA

3-16-98
PLANS APPROVAL DATE

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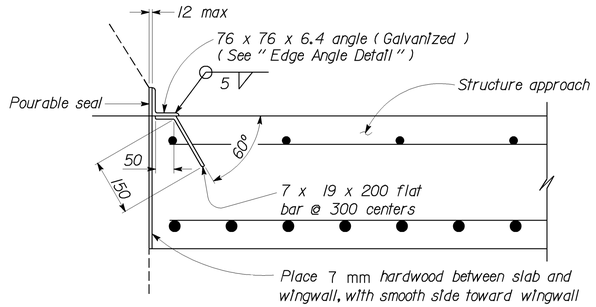


TYPE E-1

TYPE E-2

SECTION C-C

(Type E-1 to be used, unless otherwise shown on plans.)

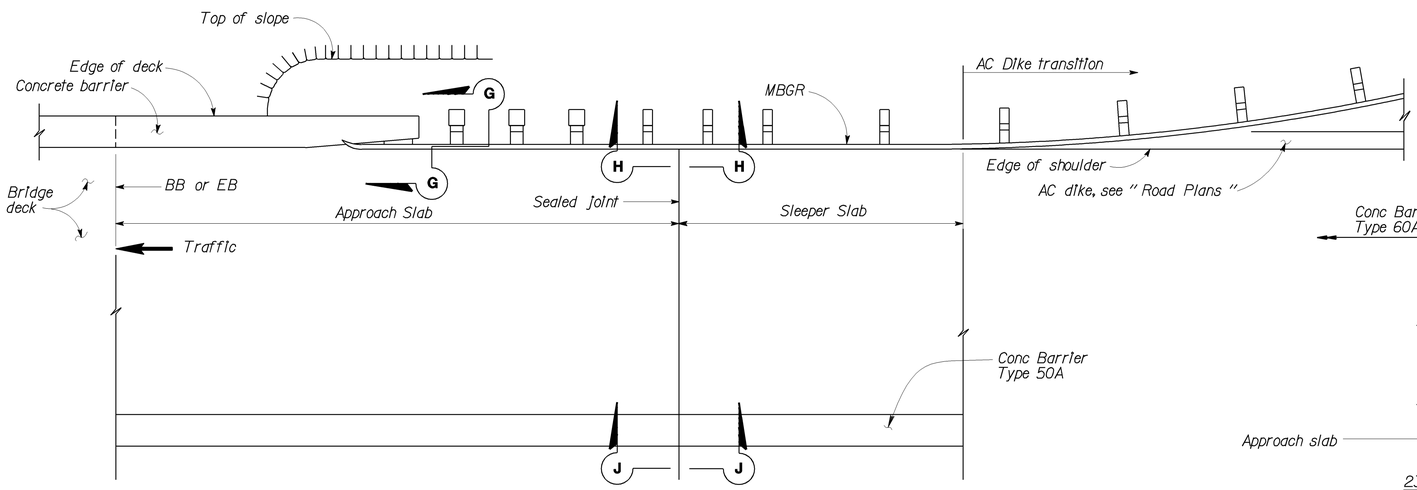


DETAIL B

NOTES:

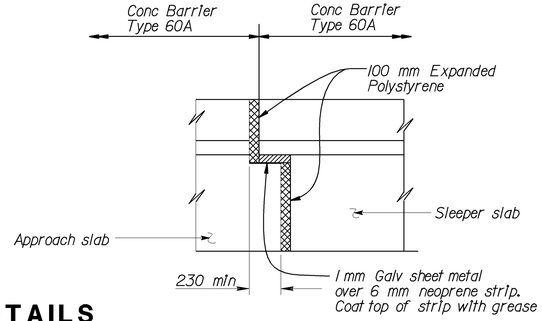
1. AC Dike and MBGR, if required, are shown for typical application only. For details of this project, see " Road Plans."
2. Optional DF (Douglas Fir) block spacers attached as shown, may be used adjacent to Approach Slabs. Use 90 x 190 x 350 DF block spacer for 250 x 250 DF posts and 90 x 143 x 350 DF block spacer for 143 x 190 DF posts.
3. AC Dike, when required, shall be placed as shown. When AC Dike is not required, end angle at beginning of barrier transition, end of wingwall or end of Approach Slab, as applicable.

▨ Remove all polystyrene.

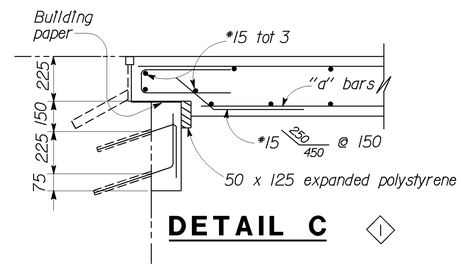


PLAN (SEE NOTE 1) ③

Joint in barrier Parallel to skew ∴ no sliding joint @ approach/sleeper Sliding joint @ Sleeper ends (60A/60)



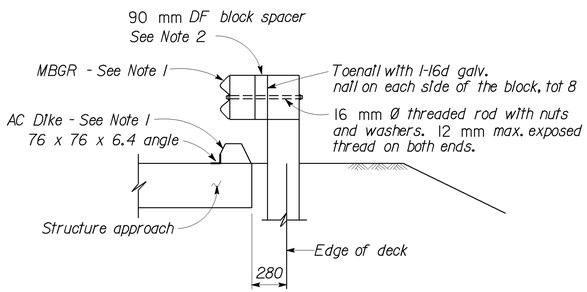
SECTION J-J ②



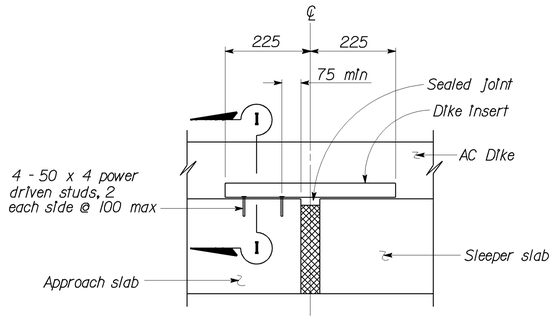
DETAIL C ①

NOTE: For details not shown, see " Section A-A."

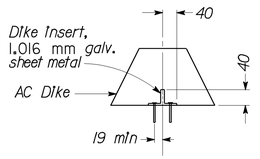
GUARDRAIL AND DIKE DETAILS



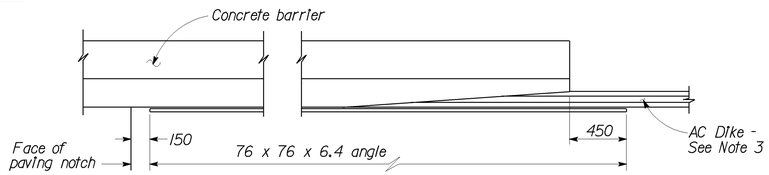
SECTION G-G



SECTION H-H



SECTION I-I



EDGE ANGLE DETAIL

NO SCALE

SPECIAL DETAILS

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

STANDARD DRAWING					
FILE NO. XS 22-16.1	DESIGN	BY M. TRAFFALIS	CHECKED E. THORKILDSEN	APPROVAL RECOMMENDED BY	
DESIGN DATE Revised	DETAILS	BY R. YEE	CHECKED E. THORKILDSEN		
	SUBMITTED BY M. HA			DESIGN SUPERVISOR	

① Added Detail
② Added Detail
③ Revised Detail

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
DIVISION OF STRUCTURES
STRUCTURE DESIGN 8

BRIDGE NO.	JENSEN AVENUE SEPARATION (WIDEN)
42-213	
POST MILE 29.4/32.2	STRUCTURE APPROCH TYPE N(14D) DETAILS NO.2

DS OSD 2147A (CADD 8/95)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS
0 10 20 30 40 50 60 70 80 90 100

CU 06220
EA 351201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)						SHEET	OF
2-26-97	4-25-97	5-16-97	5-23-97	6-26-97		14	16

XS22161.DGN VI=I

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AS BUILT CORRECTIONS
CORRECTIONS TRANSFERED BY: Juan Sanchez
FIELD CORRECTIONS BY: Kelvin Low
TRANSFER DATE: 08-16-2002
FIELD CORRECTION DATE: 05-26-1999
CONTRACT NO. 06-351204
abut_det1.dgn

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	29.5/32.6	74	88

REGISTERED ENGINEER - CIVIL 1-8-98

3-16-98
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JOHN SATTER — No. 42892 — Exp. 3-31-00 — CIVIL — STATE OF CALIFORNIA

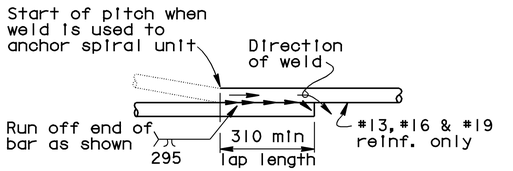
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INDEX TO PLANS

SHEET NO.	TITLE
1	GENERAL PLAN
2	INDEX TO PLANS
3	FOUNDATION PLAN
4	ABUTMENT DETAILS
5	BENT 2 DETAILS NO.1
6	BENT 2 DETAILS NO.2
7	BENT 2 DETAILS NO.3
8	BENT 3 DETAILS NO.1
9	BENT 3 DETAILS NO.2
10	TYPICAL SECTION
11	GIRDER LAYOUT & REINFORCEMENT
12	PRESTRESS I GIRDER
13	STRUCTURE APPROACH TYPE N(14D) DETAILS NO.1
14	STRUCTURE APPROACH TYPE N(14D) DETAILS NO.2
15	STRUCTURE APPROACH DRAINAGE DETAIL
16	LOG OF TEST BORINGS

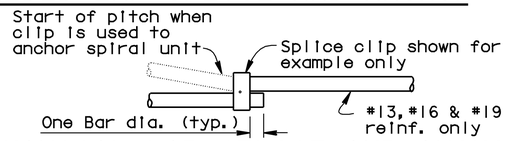
STANDARD PLANS DATED JULY 1995

A62-C	EXCAVATION & BACKFILL BRIDGE
B0-1	BRIDGE DETAILS
B0-3	BRIDGE DETAILS
B0-5	BRIDGE DETAILS
B0-13	BRIDGE DETAILS
B2-3	400 mm CAST-IN-DRILLED-HOLE CONCRETE PILE
B2-5	PILE DETAILS
B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING =50 mm)
T3	TEMPORARY RAILING (TYPE K)

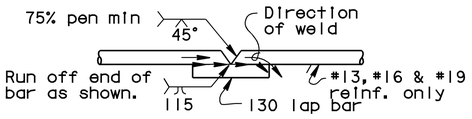


Note: Flare weld to be made in direction shown.

WELDED LAP SPLICE AND ANCHOR

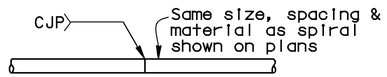


MECHANICAL LAP SPLICE AND ANCHOR



1. Butt weld to be made first.
2. Butt weld to be made in flat or horizontal position.
3. Lap bar to be centered on splice.
4. Flare weld to be made in direction shown.
5. Lap bar equal size to spiral bar.

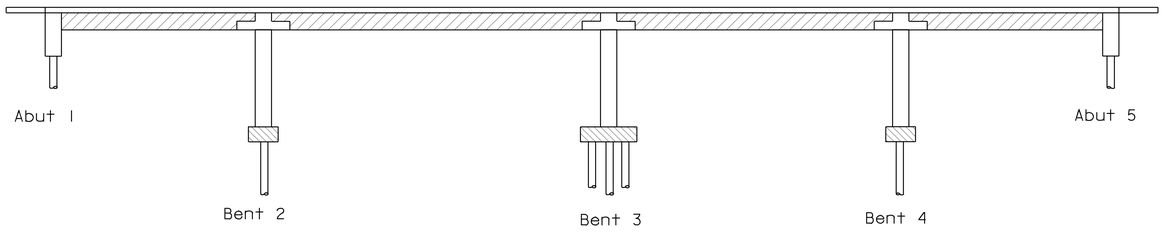
VEE GROOVE WELDED SPLICE



Individual hoops, made continuous with 100% penetration welds, may be substituted for spirals.

BUTT WELDED CONTINUOUS HOOP

BAR SPIRAL SPLICE & SPIRAL ANCHOR AND HOOP DETAIL



Structural Concrete, Bridge (28 MPa @ 28 days)

PC/PS Girder

Structural Concrete, Bridge Footing (28 MPa @ 28 days)

CONCRETE STRENGTH AND TYPE LIMITS

No Scale

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

GENERAL NOTES
LOAD FACTOR DESIGN

DESIGN: BRIDGE DESIGN SPECIFICATIONS (1992 15TH Edition AASHTO with Interims and Revisions by CALTRANS)

DEAD LOAD: Includes 1680 Pa for future wearing surface.

LIVE LOADING: HS20-44 and alternative and permit design load.

SEISMIC LOADING: Peak Rock Acceleration = 0.1g
Depth of Alluvium = > 47.7m

REINFORCED CONCRETE: f_y = 420 MPa
f'_c = 28 MPa
n = 9
Transverse Deck Slabs (Working Stress Design)
f_s = 140 MPa
f_c = 9 MPa
n = 10

PRESTRESSED CONCRETE: See "Prestressing Notes"

STRUCTURAL STEEL: f_y = 250 MPa

PILE DATA - CIDH CONCRETE PILES

Location	Diameter (mm)	Design Loading (Service Load)	Nominal Resistance Compression	Cut-Off Elevation	Specified Tip Elevation	Actual Tip Elevation
Abut 1	610	400 KN	800 KN	91.135 m	82.00 m	81.58 m
Bent 2	610	400 KN	800 KN	86.335 m	80.00 m	79.87 m
Bent 3	610	400 KN	800 KN	86.170 m	80.00 m	79.79 m
Bent 4	610	400 KN	800 KN	86.335 m	80.00 m	79.87 m
Abut 5	610	400 KN	800 KN	91.135 m	82.00 m	81.57 m

NOTE: For details, see "BENT 3 DETAILS NO.1" sheet.

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DESIGN	BY John Satter	CHECKED Overcomer Hor	
DETAILS	BY David Forbes	CHECKED Overcomer Hor	
QUANTITIES	BY John Satter	CHECKED Overcomer Hor	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
DIVISION OF STRUCTURES
STRUCTURE DESIGN 8

BRIDGE NO. 42-213
KILOMETER POST 29.4/32.2

JENSEN AVENUE SEPARATION (WIDEN)
INDEX TO PLANS

DS OSD 2139M (CADD 2/8/96)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06220
EA 351201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 1-28-97 | 7-1-97 | | 3-4-97 | 3-6-97 | 4-23-97 | 4-24-97 | 4-28-97 | 5-20-97 | 6-26-97

SHEET 2 OF 16

DATE PLOTTED => 15-JAN-2003
TIME PLOTTED => 15:21
USERNAME => cfassett
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DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	29.5/32.6	83	88

REGISTERED ENGINEER - CIVIL
1-8-98

3-16-98
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JOHN SATTER
No. 42892
Exp. 3-31-00
CIVIL
STATE OF CALIFORNIA

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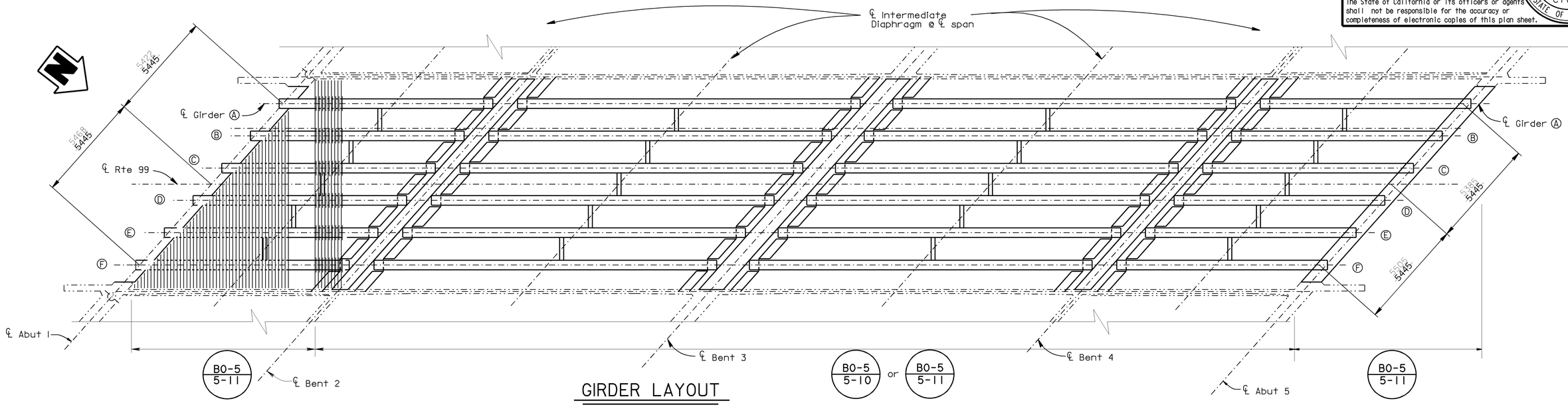
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TRANSFER DATE: 08-16-2002
FIELD CORRECTION DATE: 05-26-1999
CORRECTIONS TRANSFERED BY: Juan Sanchez
FIELD CORRECTIONS BY: Kelvin Low

AS BUILT CORRECTIONS

LEGEND

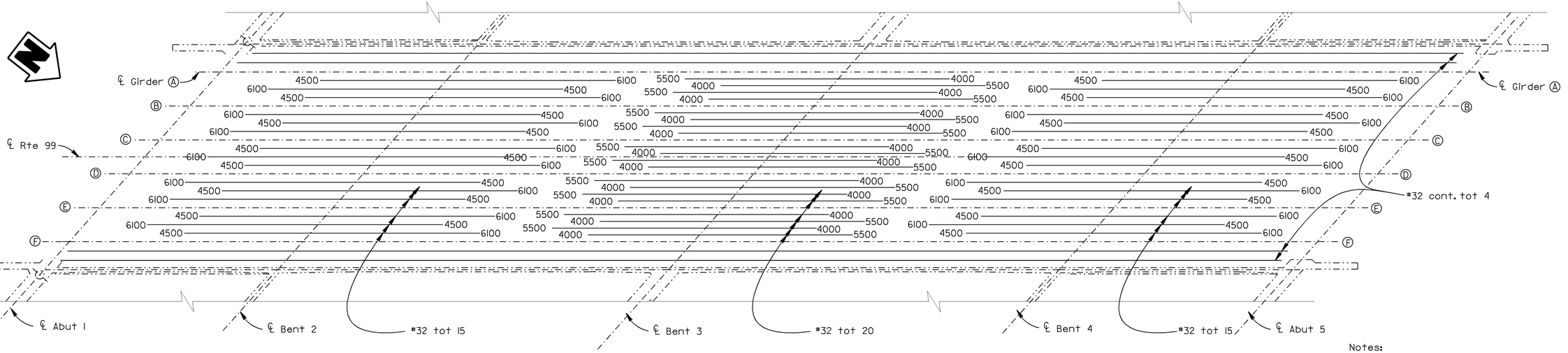
Indicates Existing Structure

Indicates New Construction



GIRDER LAYOUT

1:100



GIRDER REINFORCEMENT

1:100

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

Notes:
1. Numbers at ends of bars indicates distance from ℄ Bent in mm
2. All bars #32, stagger as shown

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DESIGN	BY John Satter	CHECKED Overcomer Hor	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 8	BRIDGE NO. 42-213
DETAILS	BY Bob Silva / Norm Kelley	CHECKED Overcomer Hor			KILOMETER POST 29.4/32.2
QUANTITIES	BY John Satter	CHECKED Overcomer Hor			

JENSEN AVENUE SEPARATION (WIDEN)

GIRDER LAYOUT & REINFORCEMENT

DS OSD 2139M (CADD 2/8/96)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06220
EA 351201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 12-3-96 | 12-20-96 | 3-5-97 | 3-7-97 | 3-14-97 | 3-18-97 | 5-16-97 | 5-20-97

SHEET 11 OF 16

DATE PLOTTED => 15-JAN-2003
TIME PLOTTED => 15:24

g:\dgdir_layout\...

USERNAME => cfassett
al116glo.dgn

ClibPDF - www.fastio.com

RELEASED 12-3-92
CONTRACT No. 06-356204
TRANSFER DATE: 08-16-2002
FIELD CORRECTION DATE: 05-26-1999
CORRECTIONS TRANSFERED BY: Juan Sanchez
FIELD CORRECTIONS BY: Kelvin Low

AS BUILT CORRECTIONS

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06	Fre	99	29.5/32.6	85	88

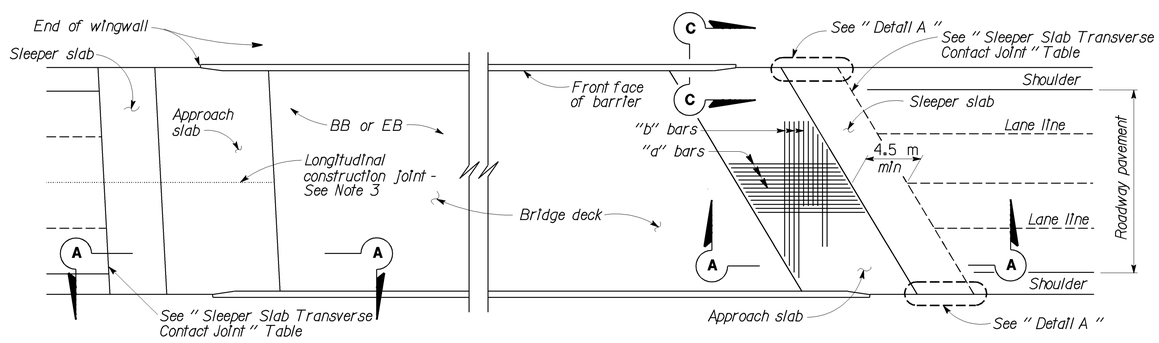
REGISTERED ENGINEER - CIVIL
1-8-98

REGISTERED PROFESSIONAL ENGINEER
JOHN SATTER
No. 42892
Exp. 3-31-00
CIVIL
STATE OF CALIFORNIA

3-16-98
PLANS APPROVAL DATE

Caltrans Metric

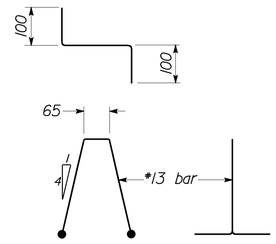
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



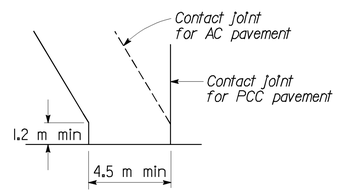
SKEW < 20°

PLAN

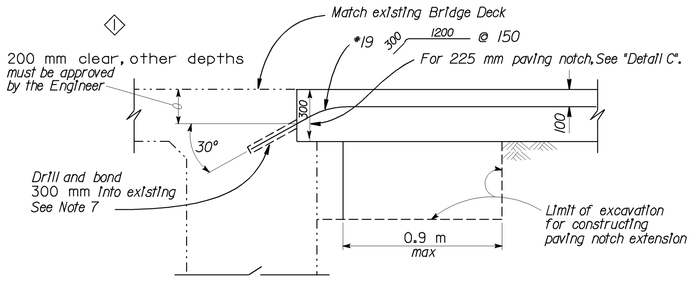
SKEW ≥ 20°



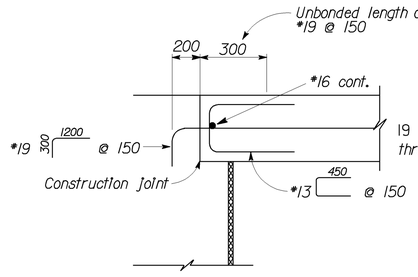
BAR CHAIR DETAIL



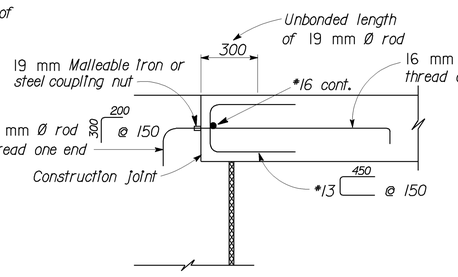
DETAIL A



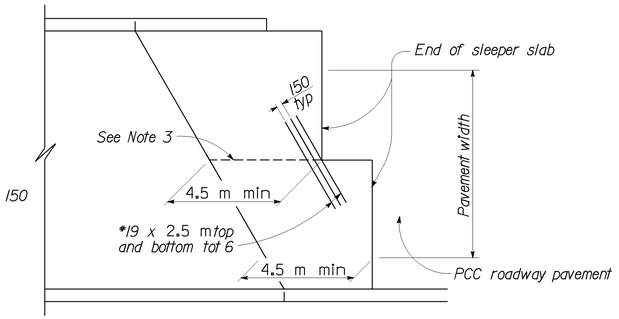
ALTERNATIVE 1



ALTERNATIVE 2

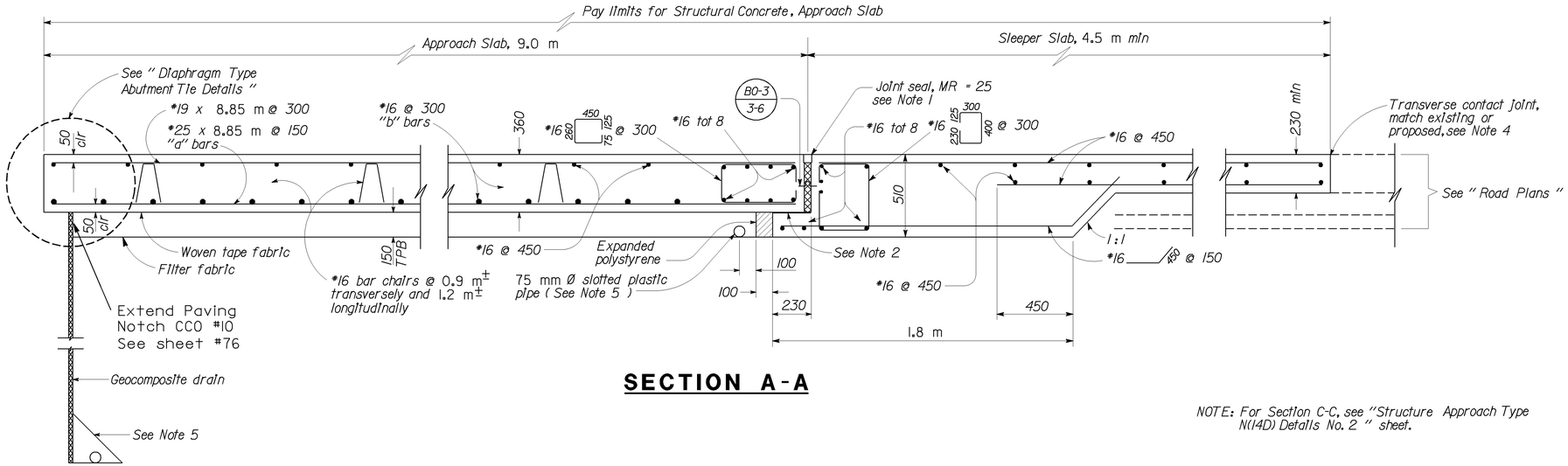


ALTERNATIVE 3



STRUCTURE APPROACH - END STAGGER DETAIL

DIAPHRAGM TYPE ABUTMENT TIE DETAILS (SEE NOTE 1)



SECTION A-A

NOTE: For Section C-C, see "Structure Approach Type N(14D) Details No. 2 " sheet.

APPROACH SLAB TRANSVERSE CONTACT JOINT		
APPROACH SKEW	WITH AC ROADWAY PAVEMENT	WITH PCC ROADWAY PAVEMENT
< 20°	Parallel to face of paving notch	Parallel to face of paving notch
20°- 45°	Parallel to face of P N use (Detail A)	Stagger lines 7.2 m to 10.8 m apart
> 45°	Parallel to face of P N use (Detail A)	Stagger at each lane line

NOTES:

1. For details not noted or shown, see STP, B6-21 sheet
2. Sliding joint 7 x 225 neoprene strip, coat top with silicone grease and cover with 225 x 1.613 galvanized sheet metal.
3. Longitudinal construction joints, when permitted by the Engineer, shall be located on lane lines.
4. For transverse contact joint with new PCC paving, refer to Standard Plan A35-A.
5. For drainage details, see " Structure Approach Drainage Details " sheet.
6. At the contractor's option, slab transverse reinforcement may be placed parallel to paving notch. Spacing of transverse reinforcement is measured along ℄ roadway.
7. Space to avoid existing main reinforcement.

NO SCALE
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

SPECIAL DETAILS

STANDARD DRAWING

FILE NO. XS 22-16.0	DESIGN	BY M.TRAFFALIS	CHECKED E.THORKILDSEN
DESIGN DATE Revised	DETAILS	BY R. YEE	CHECKED E.THORKILDSEN
	SUBMITTED BY M.HA		

APPROVAL RECOMMENDED BY
DESIGN SUPERVISOR

1 Added Details
2 Added Note
3 Revised Note

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 8

BRIDGE NO.	42-213
KILOMETER POST	29.4/32.2

JENSEN AVENUE SEPARATION (WIDEN)
STRUCTURE APPROACH TYPE N (14D) DETAILS NO.1

DS OSD 2147A (CADD 8/95)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS
0 10 20 30 40 50 60 70 80 90 100

CU 06220
EA 351201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)
3-2-97 | 3-3-97 | 4-18-97 | 4-24-97

SHEET 13 OF 16

XS22160.DGN V1=1

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VI | Fre | 99 | U-006-2(6) F-006-2(5)

FED. ROAD DIV. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.		256	488

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	99			

99

J. E. McMahon
ASSISTANT STATE HIGHWAY ENGINEER — CIVIL ENGINEER LICENSE 5370
DATE APPROVED August 28, 1964

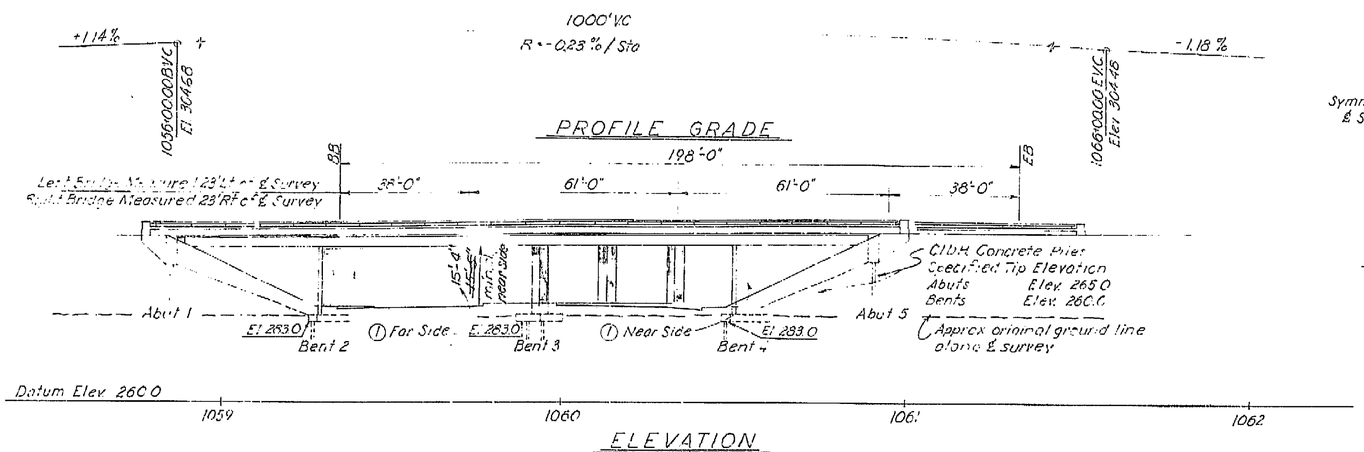
P.M. 18.5

APPROXIMATE QUANTITIES

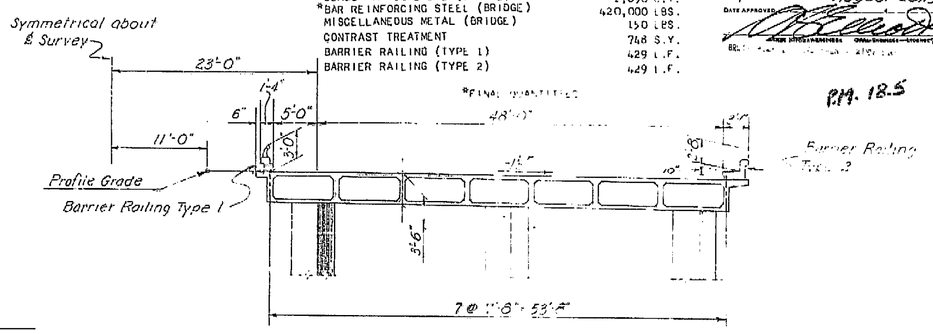
*STRUCTURE EXCAVATION (BRIDGE)	610 C.Y.
*STRUCTURE BACKFILL (BRIDGE)	370 C.Y.
16" C.I.D.H. CONCRETE PILING	3,175 L.F.
*CLASS "A" CONCRETE (BRIDGE)	1,890 C.Y.
*BAR REINFORCING STEEL (BRIDGE)	420,000 LBS.
MISCELLANEOUS METAL (BRIDGE)	150 LBS.
CONTRAST TREATMENT	748 S.Y.
BARRIER RAILING (TYPE 1)	429 L.F.
BARRIER RAILING (TYPE 2)	429 L.F.

*FINAL QUANTITIES

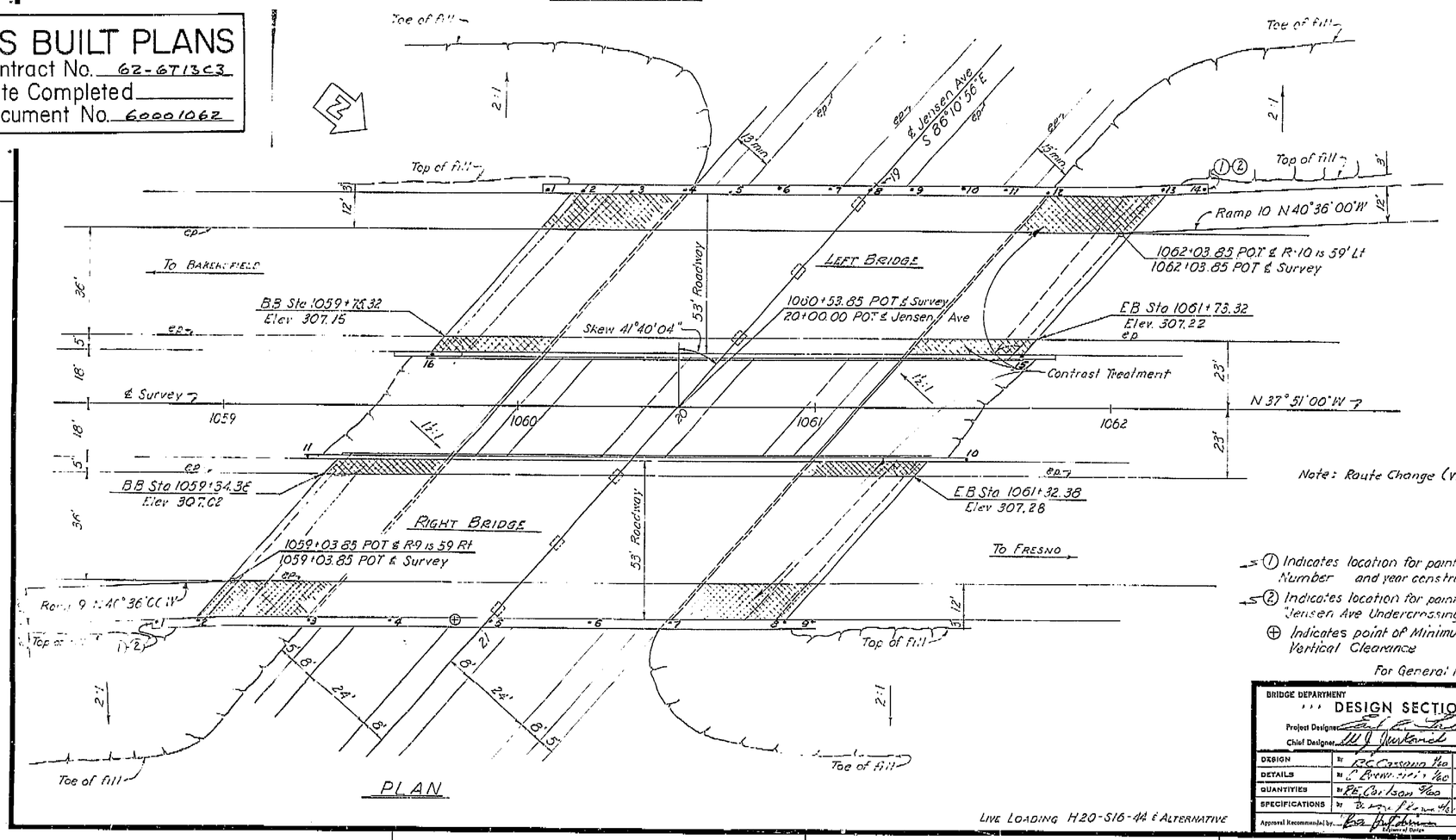
PROFILE GRADE



ELEVATION



TYPICAL SECTION
½" = 1'-0"



Note: Route Change (VI-Fre-99)

① Indicates location for painting Bridge Number and year constructed

② Indicates location for painting "Jensen Ave Undercrossing"

⊕ Indicates point of Minimum Vertical Clearance

For General Notes see "Foundation Plan"

LIVE LOADING H20-S16-44 & ALTERNATIVE

INDEX TO PLANS

Sheet No.	Title
1	General Plan
2	Grid of Deck Elevations
3	Foundation Plan
4	Abutment Details
5	Bent 2 & 4 Details
6	Bent 3 Details
7	Typical Section & Girder Layout
8	Girder Reinforcement
9	Standard Details No 1
10	Barrier Railing Sheet 1
11	Barrier Railing Sheet 2
12	Log of Test Boring
13	Lighting Plan

Final Elevations - Copper Nails

Left Bridge	Right Bridge
1. 307.338	1. 306.826
2. 307.358	2. 306.910
3. 307.376	3. 307.110
4. 307.364	4. 307.204
5. 307.402	5. 307.273
6. 307.395	6. 307.356
7. 307.385	7. 307.372
8. 307.374	8. 307.401
9. 307.345	9. 307.400
10. 307.327	10. 310.308
11. 307.294	11. 310.127
12. 307.263	
13. 307.189	
14. 307.166	
15. 309.058	
16. 308.976	

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4-8-63, AS SUBMITTED BY RESIDENT ENGINEER J.W. Beck
TRACINGS CORRECTED BY: DJL DATE: 11-21-63

Contract # 62-6T13C3-F1

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer Earl E. Erickson
Chief Designer W. J. Gutenkauf

DESIGN	By R.C. Cassens 1/60	Checked Ray McTyg 3/60	
DETAILS	By C. Brenneman 1/60	Checked Ray McTyg 3/60	
QUANTITIES	By E.E. Carlson 2/60	Checked J. A. Williamson 5/60	
SPECIFICATIONS	By [illegible]	Checked Plans and Estimates Engineer	

Approval Recommended by: [illegible] Civil State License No. 8438

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

JENSEN AVE UNDERCROSSING

LOCATED ABOUT 0.7 MILE SOUTHEAST OF THE SOUTH CITY LIMITS OF FRESNO

GENERAL PLAN

Except As Noted SCALE 1"=20' | BRIDGE 42-213 ¾ | FILE | DRAWING C-6140-1

Disregard prints bearing earlier numbers →

PREL. DRAWING No. P- 6740 X E

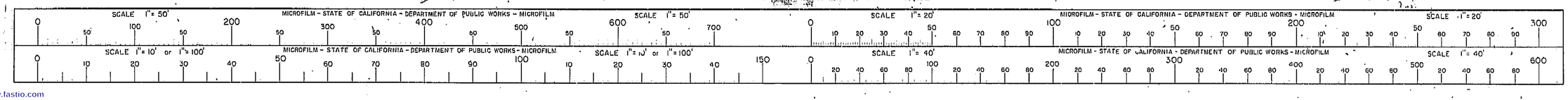
488

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

256

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-12-72 SIGNATURE [illegible] TITLE [illegible]



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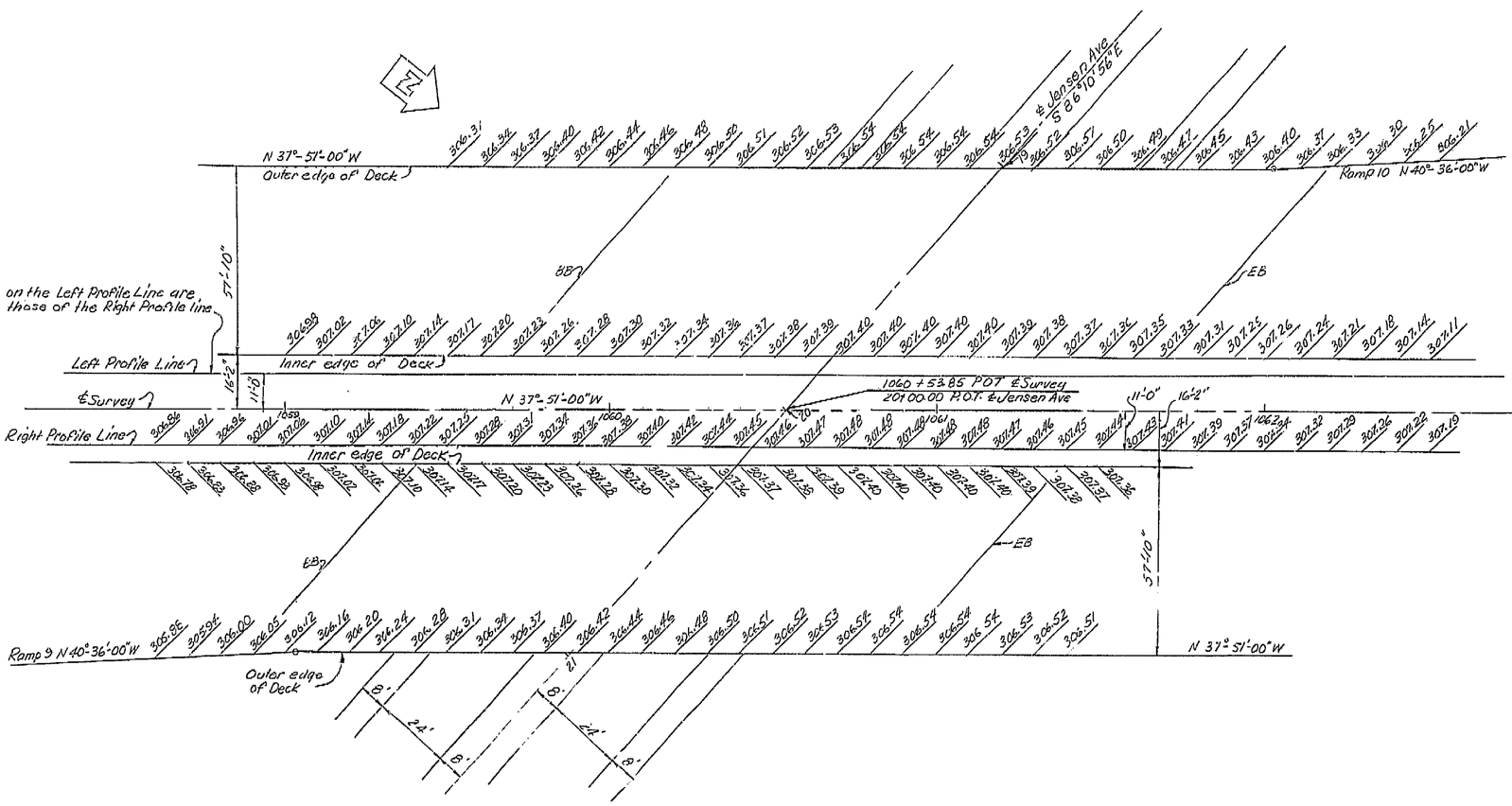
VI | Fre | 99 | U-006·2(6) F-006·2(5)

FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
7	CALIF.		257	424

DIST	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	99	B	2	

BRIDGE ENGINEER — CIVIL ENGINEER—LICENSE 5585

DATE APPROVED August 28, 1961



Note:

Elevations are at 10' Stations along ℄ Survey

These elevations do not include camber

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

BRIDGE DEPARTMENT			
DESIGN SECTION 2			
Project Designer			
Chief Designer W.D. Gentzkow			
DESIGN	By Ray Ah Tye 8/60	Checked J.E. Smith 8/60	
DETAILS	By Ray Ah Tye 8/60	Checked J.E. Smith 8/60	
QUANTITIES	By R.E. Carlson 8/60	Checked T.P. Parker 8/60	
SPECIFICATIONS	By	Plans and Reports Completed	
Approval Recommended by	Engineer of Design	Chief Engr. Licensee No. 8430	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

JENSEN AVE UNDERCROSSING

GRID OF DECK ELEVATIONS

SCALE 1"=20' | BRIDGE 42-213 R/L | FILE | DRAWING C-6740-2

Disregard prints bearing earlier numbers → PREL. DRAWING No. P-6740 | 12 | 489

THIS SET OF PLANS HAS BEEN CORRECTED TO [illegible] AS SHOWN BY RED [illegible]

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-12-72 SIGNATURE [signature] TITLE [illegible]

257

SCALE 1"= 50' MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM SCALE 1"= 50'
SCALE 1"= 10' or 1"= 100' MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM SCALE 1"= 10' or 1"= 100'
SCALE 1"= 20' MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM SCALE 1"= 20'
SCALE 1"= 40' MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM SCALE 1"= 40'

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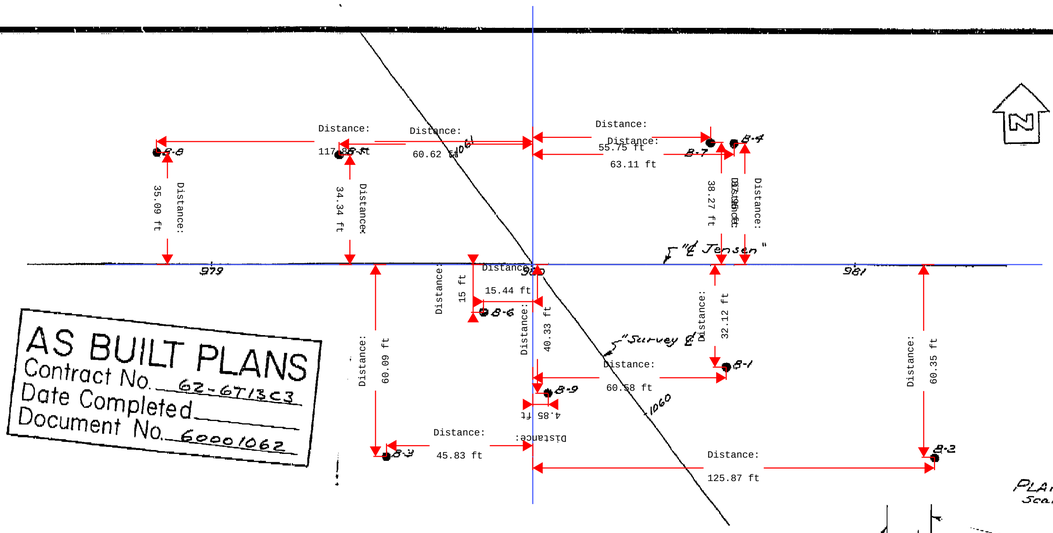
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7	CAL.			267	424

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre.	99	8	124	

BRIDGE ENGINEER — CIVIL ENGINEER, LICENSE 5383

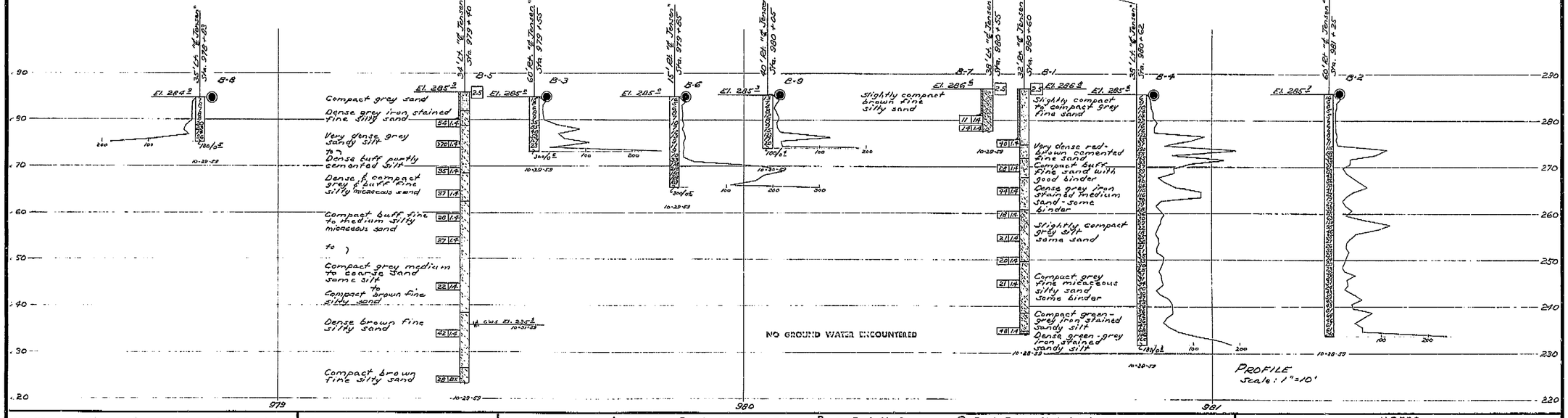
DATE APPROVED August 28, 1961

AS BUILT PLANS
Contract No. 62-671303
Date Completed
Document No. 60001062



BM "Jensen" R.R. spike in P.P. 65' West ℄ 38' North of Sta. 1060 + 65 ℄ Survey Elev. 286.65

PLAN
Scale : 1" = 20'



PROFILE
Scale : 1" = 10'

CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS

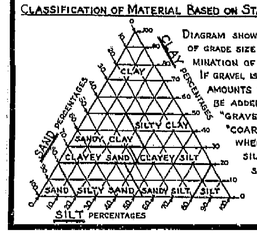


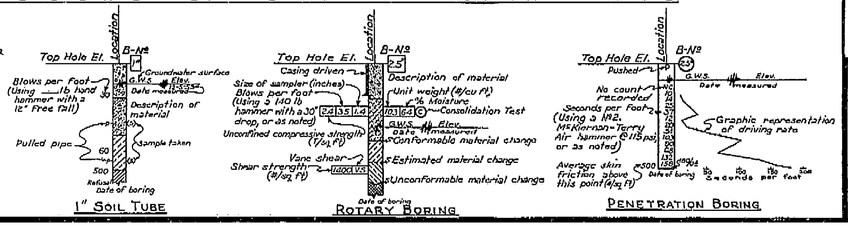
DIAGRAM SHOWING THE BASIS FOR ESTIMATES OF GRADE SIZE DISTRIBUTION USED IN DETERMINATION OF CLASS NAMES. IF GRAVEL IS PRESENT IN APPRECIABLE AMOUNTS THE TERM "GRAVELLY" MAY BE ADDED TO THE CLASS NAME, VIZ. "GRAVELLY SAND." THE TERMS "COARSE," "MEDIUM" AND "FINE" WHEN USED TO DESCRIBE SAND, SILT AND GRAVEL REFER TO STANDARD GRADE SIZE LIMITS.

LEGEND OF EARTH MATERIALS

- GRAVEL
- SAND
- SILT
- CLAY
- SANDY CLAY OR CLAYEY SAND
- SANDY SILT OR SILTY SAND
- SILTY CLAY OR CLAYEY SILT
- PEAT AND/OR ORGANIC MATTER
- FILL MATERIAL
- IGNEOUS ROCK
- SEDIMENTARY ROCK
- METAMORPHIC ROCK

LEGEND OF BORING OPERATIONS

- PLAN OF ANY BORING
- PENETROMETER
- 2½" CONE PENETROMETER
- SAMPLER BORING (DRY)
- ROTARY BORING (WET)
- AUGER BORING (DRY)
- JET BORING
- CORE BORING
- TEST PIT



NOTES

Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

JENSEN AVE UNDERCROSSING

LOG OF TEST BORINGS

SCALE	BRIDGE	FILE	DRAWING
As Noted	42-213	E-42	0-6740-12

PR-6740-3

FIELD STUDY	V. Ettinger	10-58
DRAWN	V. M. Heaney	11-20-59
CHECKED	W. DeWitt	11-59

Approved for Recommendation: T. Lawrence Yee, Bridge Engineer
Date Approved: [illegible]

BRIDGE DEPARTMENT

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE ____ SIGNATURE ____ TITLE ____

SCALE 1" = 50' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1" = 50'
SCALE 1" = 10' or 1" = 100' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1" = 10' or 1" = 100'
SCALE 1" = 20' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1" = 20'
SCALE 1" = 40' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1" = 40'

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VI	Fre	99

U-006·2(6)
F-006·2(5)

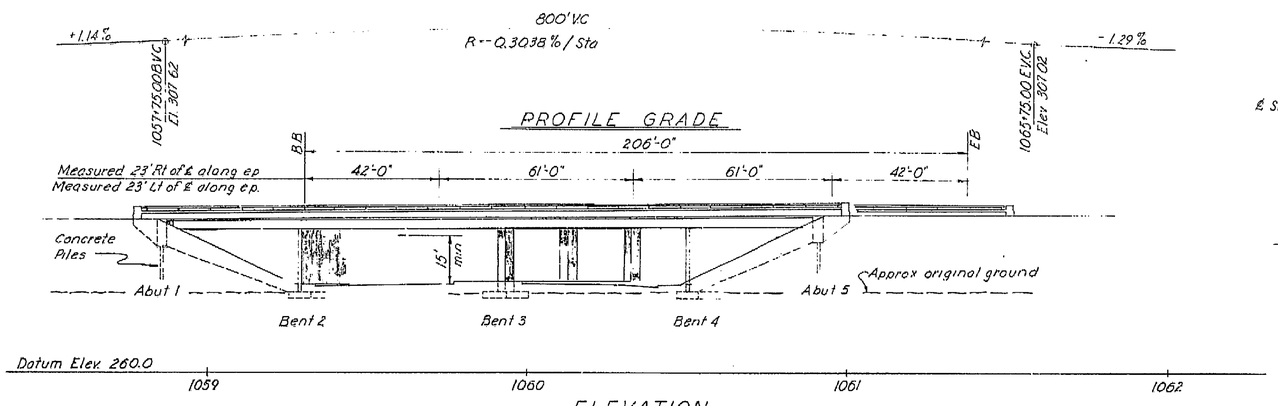
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7	CALIF.		258	424

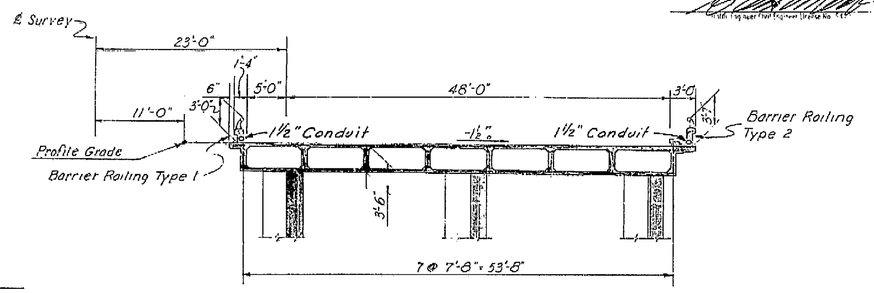
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	99	B	213	213

DISTRICT ENGINEER

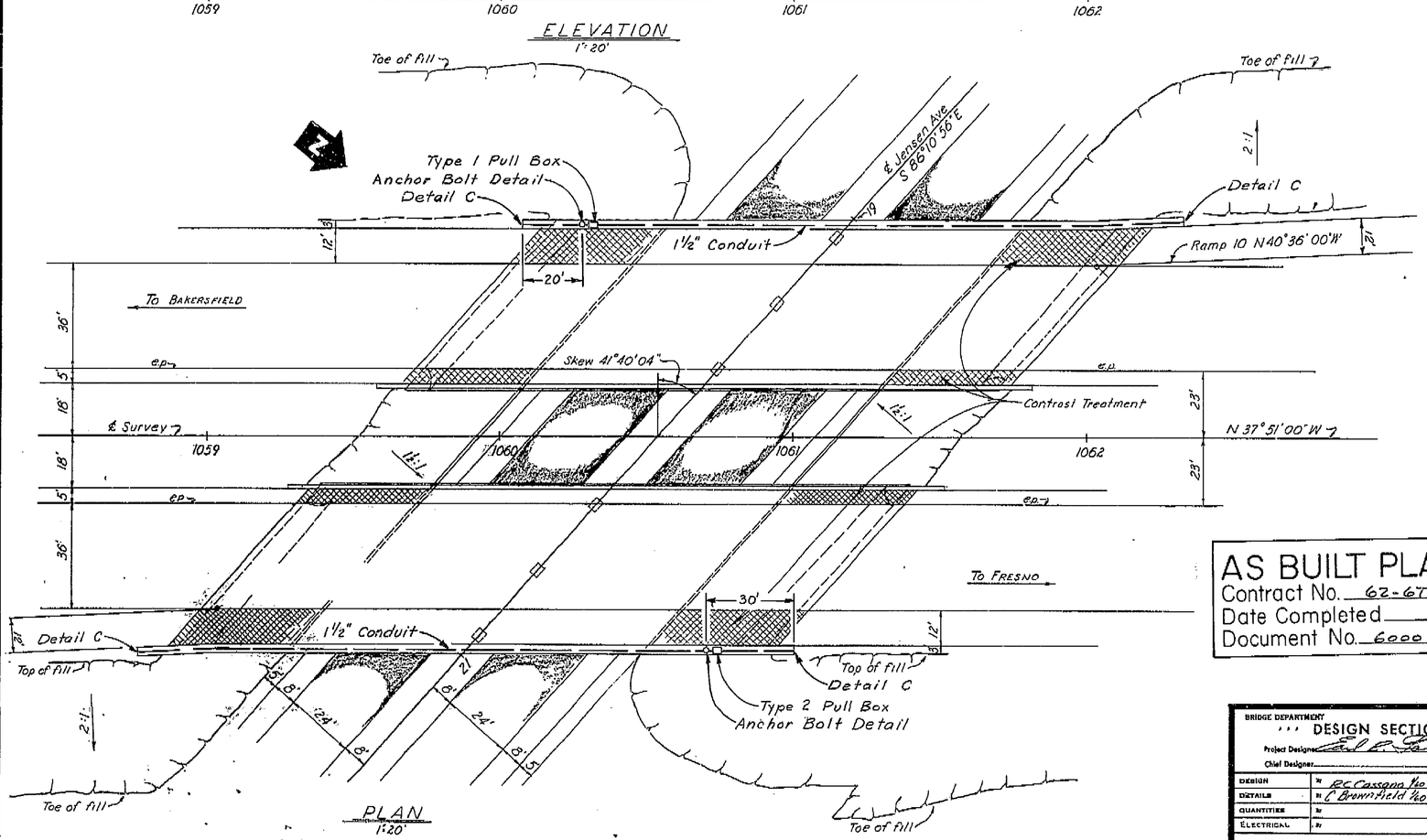
DATE APPROVED August 28, 1964

Affixing seal from Engineer's Estimate No. 44





TYPICAL SECTION
¼" = 1'-0"



Note: This plan accurate for highway lighting only.

THIS HAS BEEN CORRECTED TO THE "AS BUILT" PRINTS DATED AS SUBMITTED BY RESIDENT

PRINTS CORRECTED BY: DATE:

AS BUILT PLANS
Contract No. 62-671303
Date Completed
Document No. 60001062

For additional notes see Sheet No. ES-7-4

PREPARED BY	DATE	DESIGN Engineer	DATE	APPROVED RECOMMENDED BY	DATE
C.E. Strickland	4/61	E.D. Taylor	4/61		

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer: Ed Taylor
Chief Designer:

DESIGN	By R.C. Cassano '64	Checked	
DETAILS	By C. Brennfleck '64	Checked	
QUANTITIES	By	Checked	
ELECTRICAL	By	Plans and Specs. CHECKED	

Approval Recommended by: Engineer of Design — Chief Bridge Engineer

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

JENSEN AVE UNDERCROSSING

Located About 0.7 Mile Southeast of the South City Limits of Fresno

LIGHTING PLAN

Except As Noted SCALE 1" = 20'	BRIDGE 42-213 R	FILE	DRAWING

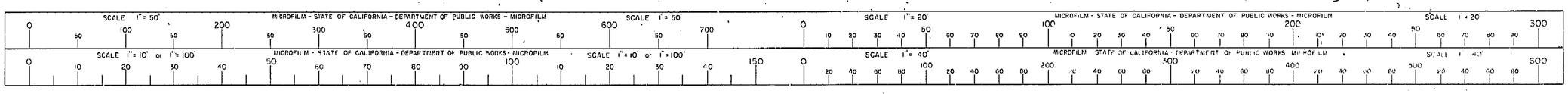
Disregard prints bearing earlier numbers

PREL. DRAWING NO. P- 6740 | 2

508

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____



ClibPDF - www.fastio.com

Revision: 9-22-60
Made #8 bar cont. on Detail J-1.
E.T.K.

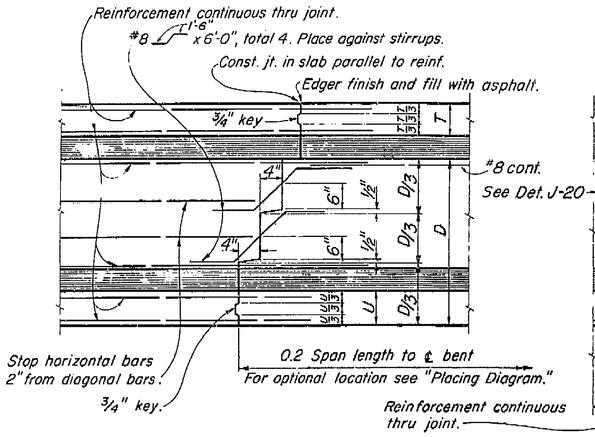
VI	Fr	99

U-006-2(6)
F-006-2(5)

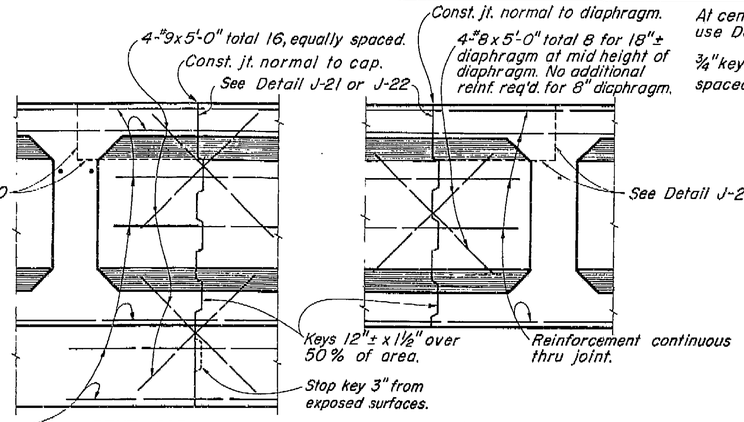
FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			264	432

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
V	Fre	41	B	3	

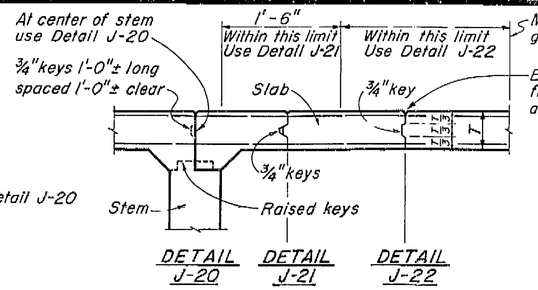
DATE APPROVED August 28, 1961

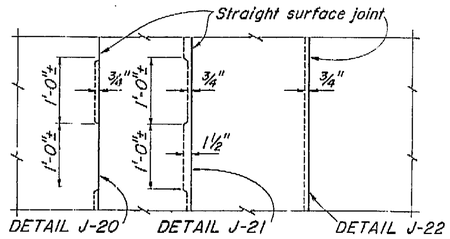


TRANSVERSE GIRDER CONSTRUCTION JOINTS
DETAIL J-3

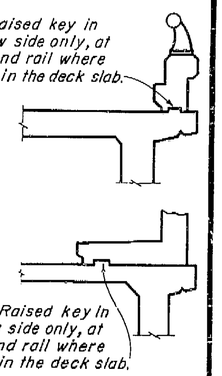


BENT CAP LONGITUDINAL CONSTRUCTION JOINTS DIAPHRAGMS
DETAIL J-4



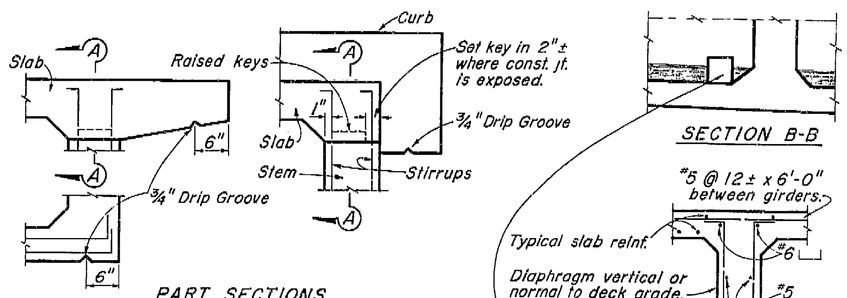


DECK SLAB
LONGITUDINAL CONSTRUCTION JOINTS
Note: Longitudinal construction joints in slab, if required, are to be located at edge of traffic lanes except as approved by the Engineer.

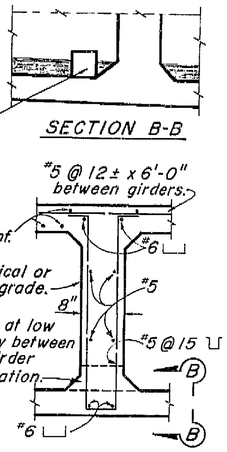


CURB AND SIDEWALK EXPANSION JOINT
DETAIL C-1

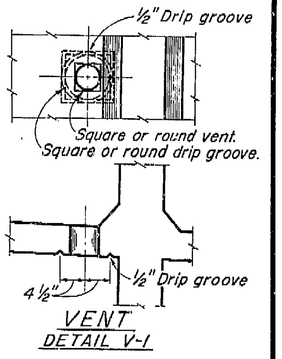
AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 6000106Z



PART SECTIONS
EXTERIOR GIRDER WITH SLAB CANTILEVER
EXTERIOR GIRDER WITH CURB

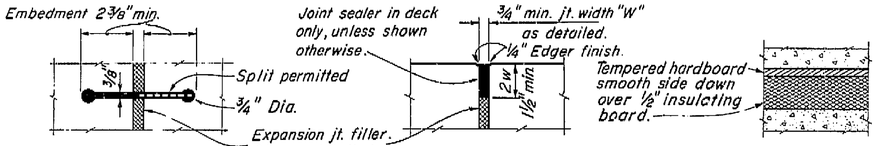


INTERMEDIATE DIAPHRAGM SECTION
DETAIL D-1



VENT
DETAIL V-1

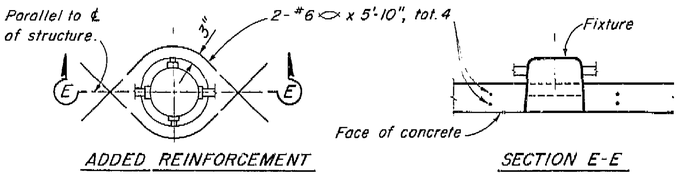
Note:
5" ϕ Vent in lower slab.
Min. of two vents per span in each bay between girders. One vent to be located at low point of span and other vent to be located at opposite end of span @ 1'-6" from face of Abutment or Bent. See "Girder Layout."



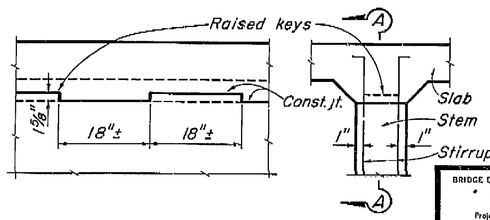
RUBBER WATERSTOP
DETAIL W-1

SEALED EXPANSION JOINT
DETAIL L-1

DETAIL M-1



ADDED REINFORCEMENT
SECTION E-E
RECESSED SOFFIT LIGHT
DETAIL F-1



SECTION A-A
PART SECTION INTERIOR GIRDER
KEY-GIRDER STEM TO SLAB
DETAIL J-5

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED ____, AS SUBMITTED BY RESIDENT ENGINEER.
TRACINGS CORRECTED BY: ____ DATE: ____

STANDARD DRAWING
Approved [illegible] 1961
Chief Bridge Engineer
DESIGN
DETAILS
QUANTITIES
SPECIFICATIONS
3729

BRIDGE DEPARTMENT — DESIGN SECTION 2			
Project Designer			
Chief Designer			
DESIGN	By [illegible]	Checked	Ralph Tye 12/60
DETAILS	By C.B.	Checked	Ralph Tye 12/60
QUANTITIES	By R.E.C.	Checked	Drew
SPECIFICATIONS	By	Plans and Specs. Completed	
Approved Recommended for Plans		Engineer in Responsible Charge	

9/60

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

JENSEN AVE UNDERCROSSING

STANDARD DETAILS NO. 1 (BOX GIRDER)

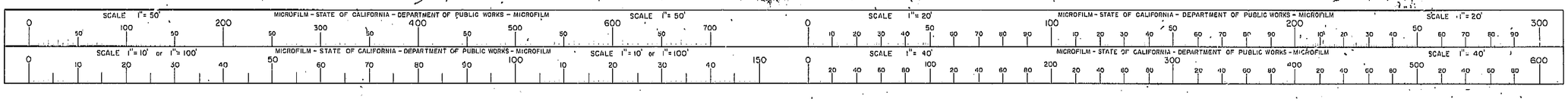
SCALE None | BRIDGE 42-213 P/A | XS-16-22 FILE | DRAWING C-6740-9 1

PREL. DRAWING No P-6740 | 13

4/62

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-12-62 SIGNATURE [illegible] TITLE [illegible]



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-Added 1/4"r on Section A-A & D-D, Added 2¾" long dim. Rail Connection detail. 6-60 RTK

VI Fre 99

U-006-2(6)
F-006-2(5)

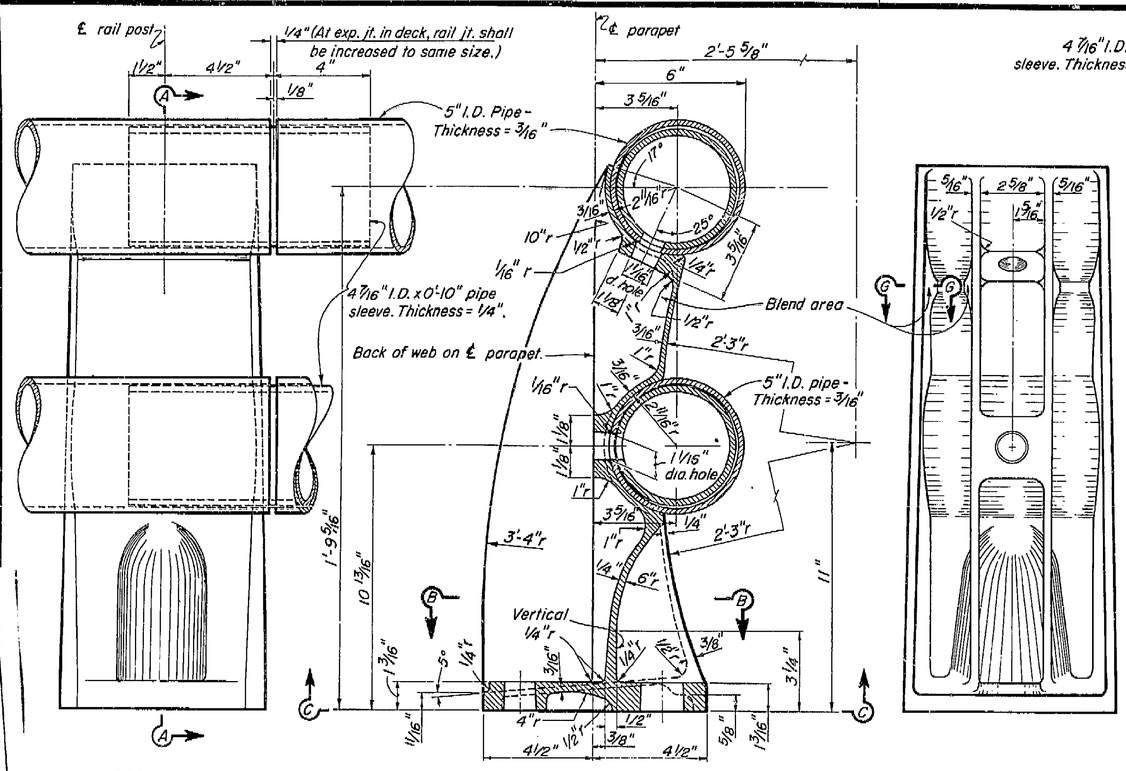
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7	CALIF.		266	324

DIST	COUNTY	ROUTE	SECTION	SHEET NO	TOTAL SHEETS
VI	Fre	41	B	99	

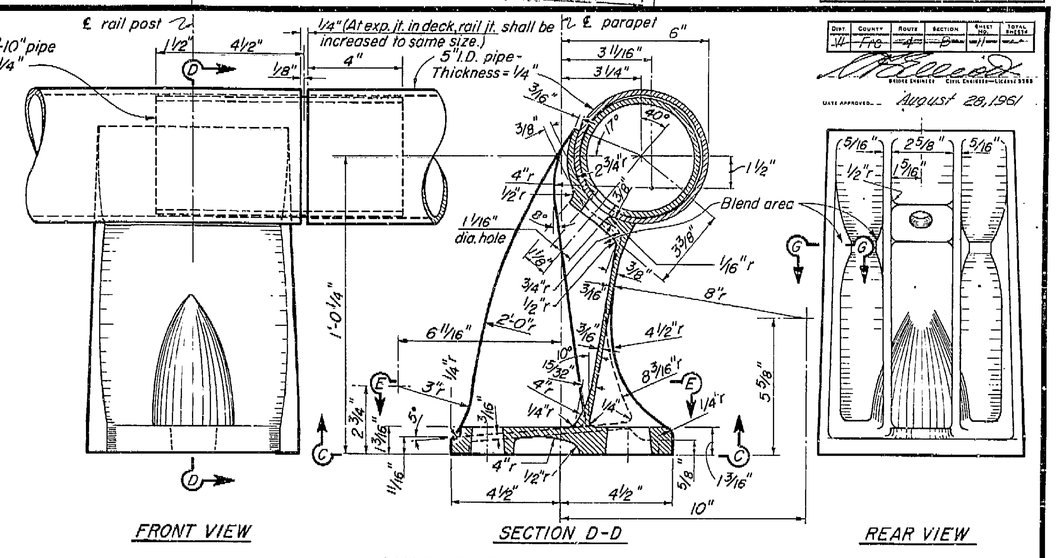
BRIDGE ENGINEER — CIVIL ENGINEER—LICENSE 20388

DATE APPROVED: August 28, 1961

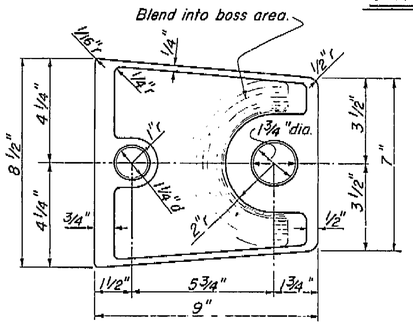
AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 6666/062

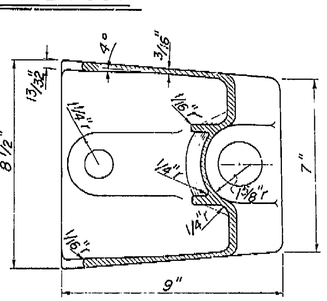


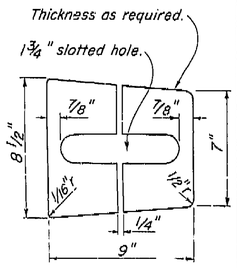
DOUBLE RAIL POST

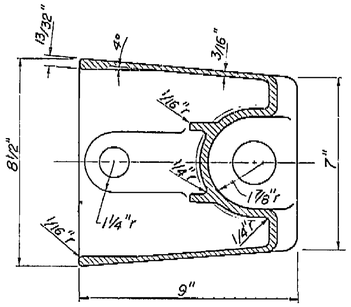


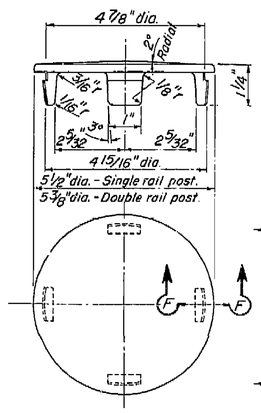
SINGLE RAIL POST

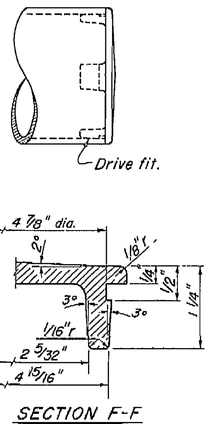


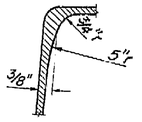


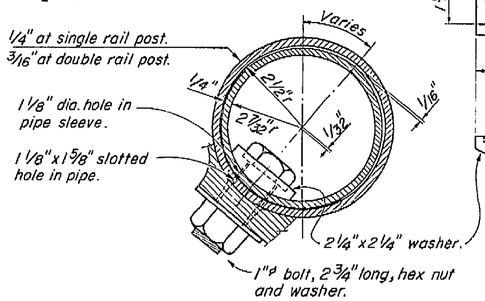












Notes:

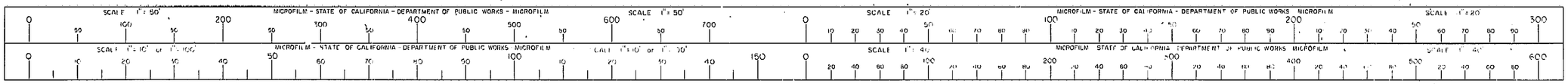
1. At the option of the contractor, material for the railing shall be one of the following:
   a. Aluminum pipe rail and cast aluminum post.
   b. Steel pipe rail and cast steel post. Rail and posts to be galvanized. Steel pipe rail shall be 3/16" thick with 5" I.D.. Rail post dimensions shall be revised as necessary to fit the steel pipe.
2. Shims are to be of asbestos sheet packing.
3. For railing on a horizontal curve the pipe rail shall be bent to the curve or the spacing of posts adjusted so that the middle ordinate between posts will not exceed 1".

URIDGE DEPARTMENT	STATE OF CALIFORNIA
DESIGN SECTION 2	DEPARTMENT OF PUBLIC WORKS
Section Supervisor M Jamtgaard	DIVISION OF HIGHWAYS
DESIGN By RSC	11/60
Checked Roy McTye 13/60	JENSEN AVE UNDERCROSSING
DETAILS By CB	BARRIER RAILING SHEET 2
Checked Roy McTye 12/60	Except as noted SCALE 3/8" = 1" BRIDGE 42-213 R/L XS-9-71 FILE DRAWING C-6740-11
QUANTITIES By RSC	
Checked OLP 61	

Disregard prints bearing earlier numbers → PREL. DRAWING No. P-6740 | 15 | 498

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____



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YI	Fre	99

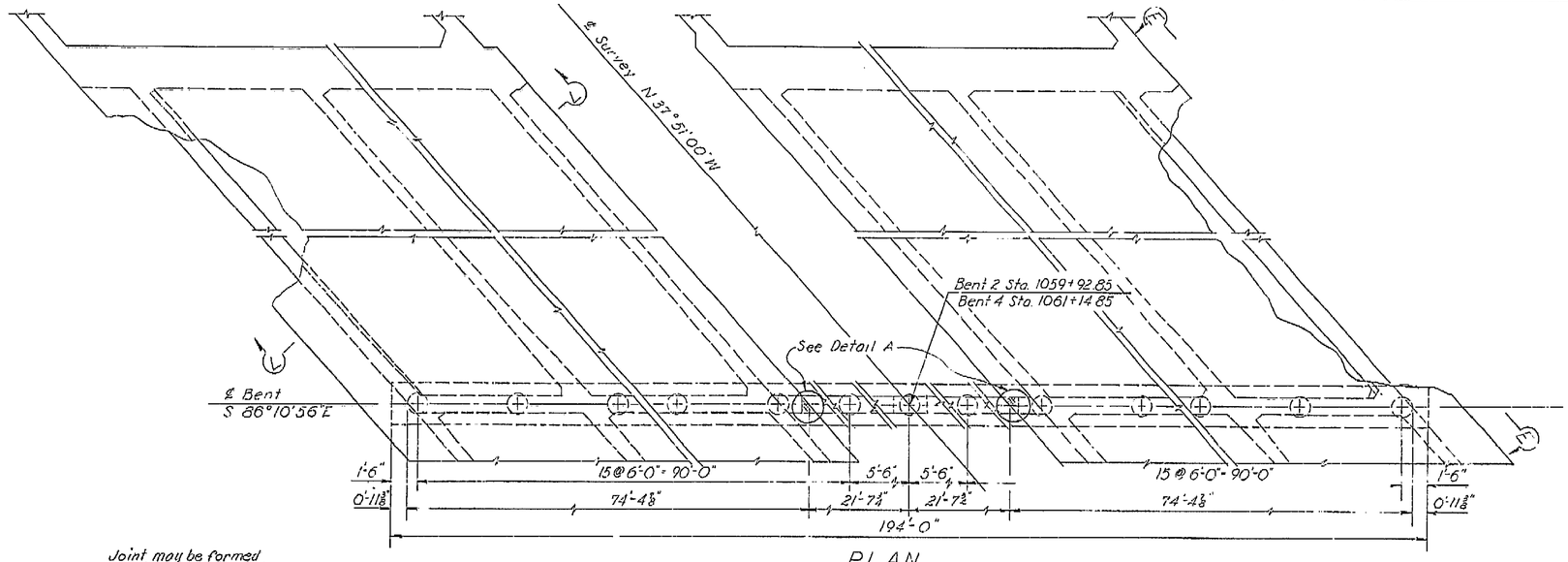
U-006-2(5)
F-006-2(5)

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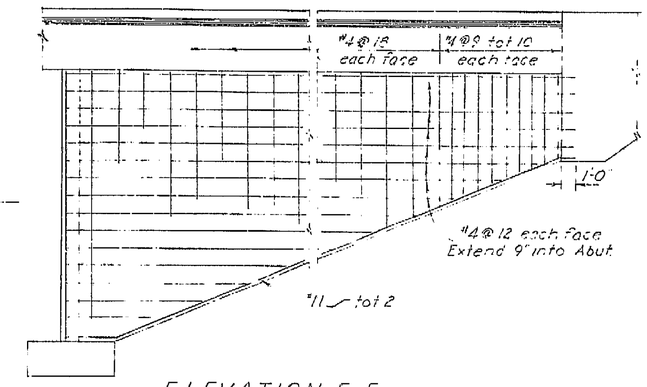
DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	Fre				

STATE ENGINEER — CIVIL ENGINEER—LICENSE 5285

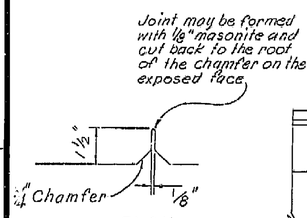
DATE APPROVED August 28, 1961



PLAN
¼" = 1'-0"

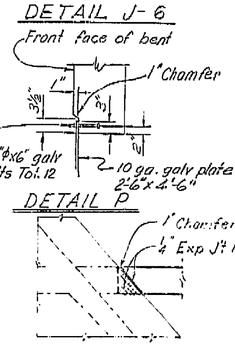


ELEVATION E-E
¼" = 1'-0"



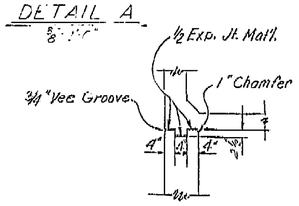
PLAN

DETAIL J-6

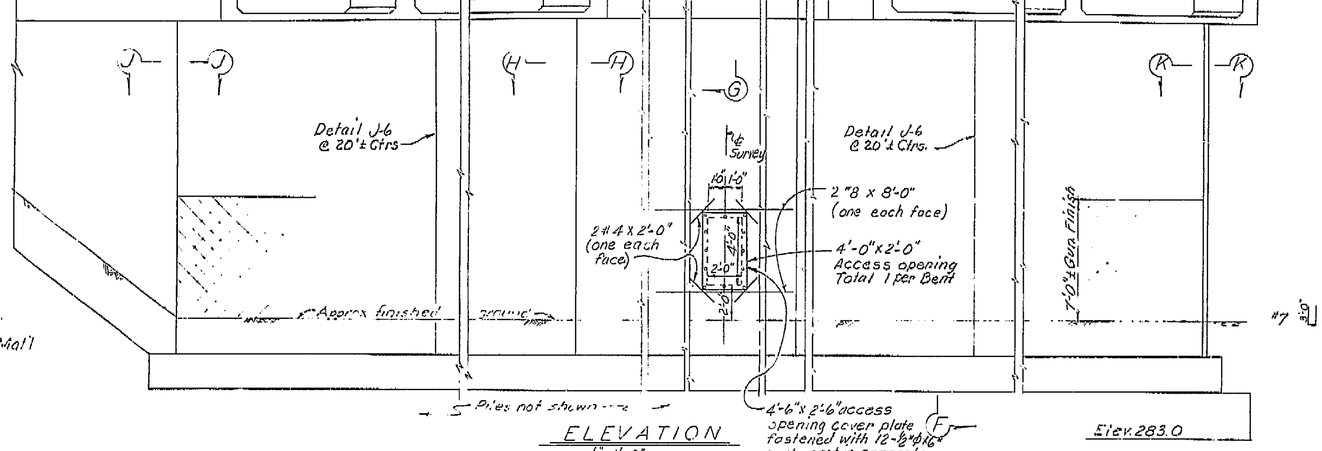


DETAIL P

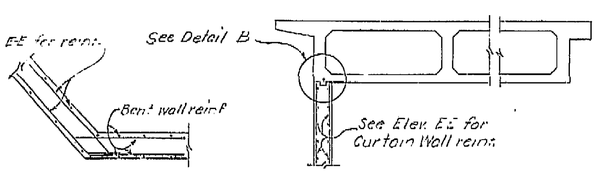
DETAIL A



DETAIL B
Scale: ½" = 1'-0"

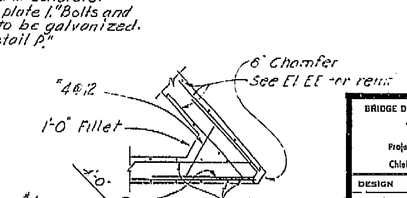


ELEVATION
¼" = 1'-0"

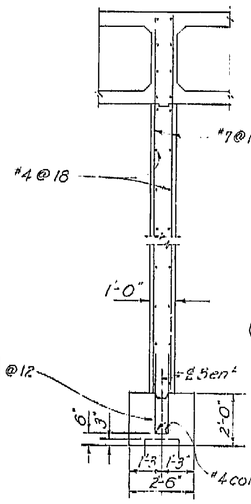


SECTION J-J
⅜" = 1'-0"

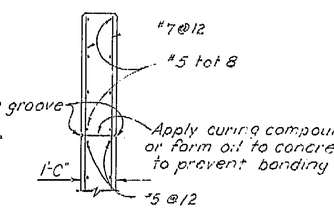
SECTION L-L
¼" = 1'-0"



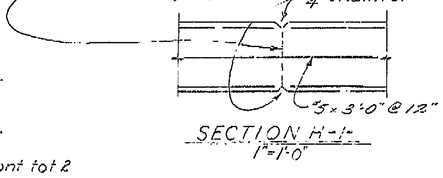
SECTION K-K
⅜" = 1'-0"



SECTION F-F
⅜" = 1'-0"



SECTION G-G
½"=1'-0"



SECTION H-H
1"=1'-0"

AS BUILT PLANS
Contract No. 62-671363
Date Completed
Document No. 6000062

260

BRIDGE DEPARTMENT			
DESIGN SECTION 2			
Project Designer			
Chief Designer			
DESIGN	By R.C. Cassano 1/61	Checked	Ray Al Tye 3/60
DETAILS	By C Brimfield 3/60	Checked	Ray Al Tye 3/60
QUANTITIES	By P.E. Carlson 3/60	Checked	G. Peterson 5/60
SPECIFICATIONS	By	Plans and Specs. Checked	
Approval Recommended by	Assistant Engineer of Design	Civil Engr. License No. 5439	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

JENSEN AVE UNDERCROSSING

BENTS 2 & 4 DETAILS

SCALE	As Noted	BRIDGE	42 213½	FILE		DRAWING	C-6740-5

Disregard prints bearing earlier numbers →

PREL. DRAWING No. P-6740 5/16

49

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-12-72 SIGNATURE [illegible] TITLE [illegible]

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"= 50' SCALE 1"= 50' SCALE 1"= 20' SCALE 1"= 20'
SCALE 1"= 10' or 1"= 100' SCALE 1"= 10' or 1"= 100' SCALE 1"= 40' SCALE 1"= 40'

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VI	Fre	99

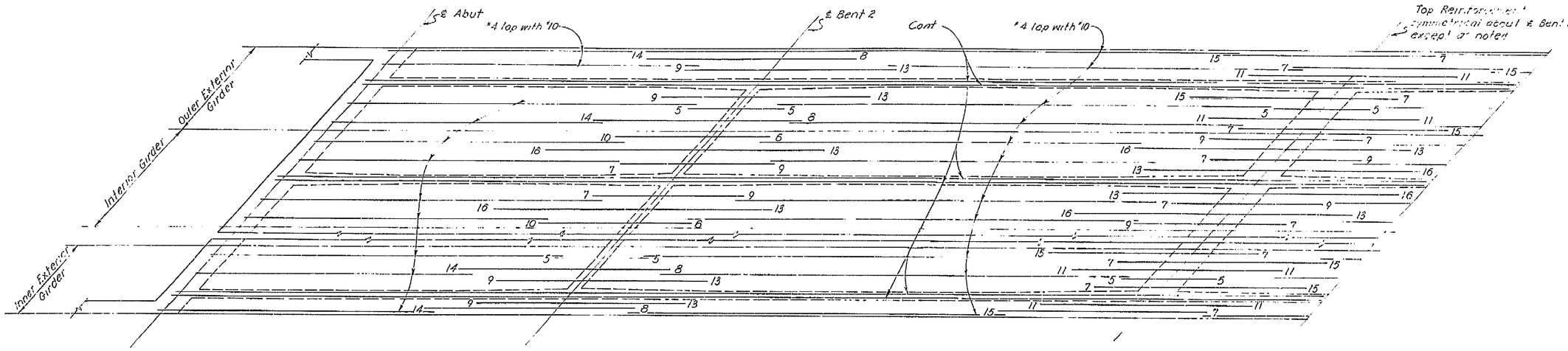
U-006-2(6)
F-006-2(5)

FED. ROAD DIV. No.	STATE	F. A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.		263	424

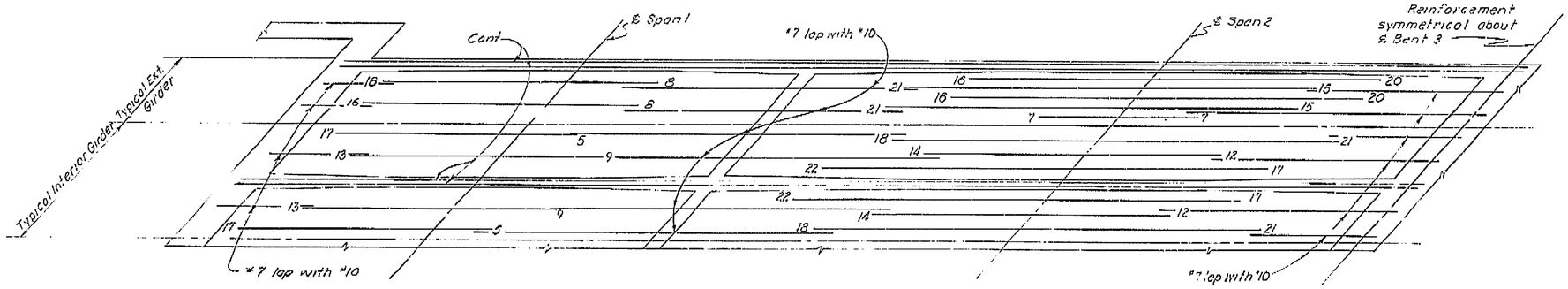
DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	Fre	41		8	

BRIDGE ENGINEER — CIVIL ENGINEER—LICENSE 8585

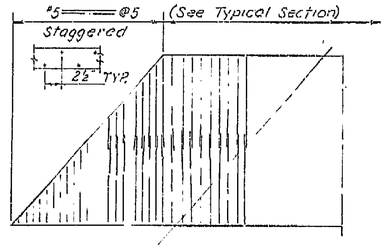
DATE APPROVED August 28, 1961



TOP REINFORCEMENT



BOTTOM REINFORCEMENT



TYPICAL TRANSVERSE REINFORCEMENT
TOP SLAB AT ABUTMENT

NOTE: All bars are #10 except as noted
Numbers at ends of bars indicate distance in feet from ℄ Bent for Top Reinforcement and from ℄ Span for Bottom Reinforcement
No splicing of #10 permitted near ℄ Bent for Top Reinforcement and near ℄ Span for Bottom Reinforcement

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

263

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer Eric K. Fitch
Chief Designer W. D. Jurkovich

DESIGN	By V. S. Cassens 9/60	Checked Ray McTyre 3/60	
DETAILS	By C. Beverly 9/60	Checked Ray McTyre 3/60	
QUANTITIES	By R. E. Wilson 9/60	Checked D. Williams 9/60	
SPECIFICATIONS	By	Plans and Spec. Compared	

Approval Recommended by R. F. Hutchinson, Engineer of Design — Civil Engr. License No. 5439

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

JENSEN AVE UNDERCROSSING

GIRDER REINFORCEMENT

SCALE None | BRIDGE 42 21 3½ | FILE | DRAWING C-6740-8 1

Disregard prints bearing earlier numbers → PREL. DRAWING No. P- 6740 | 8 | 498

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-12-72 SIGNATURE [illegible] TITLE [illegible]



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VI	Fre	99

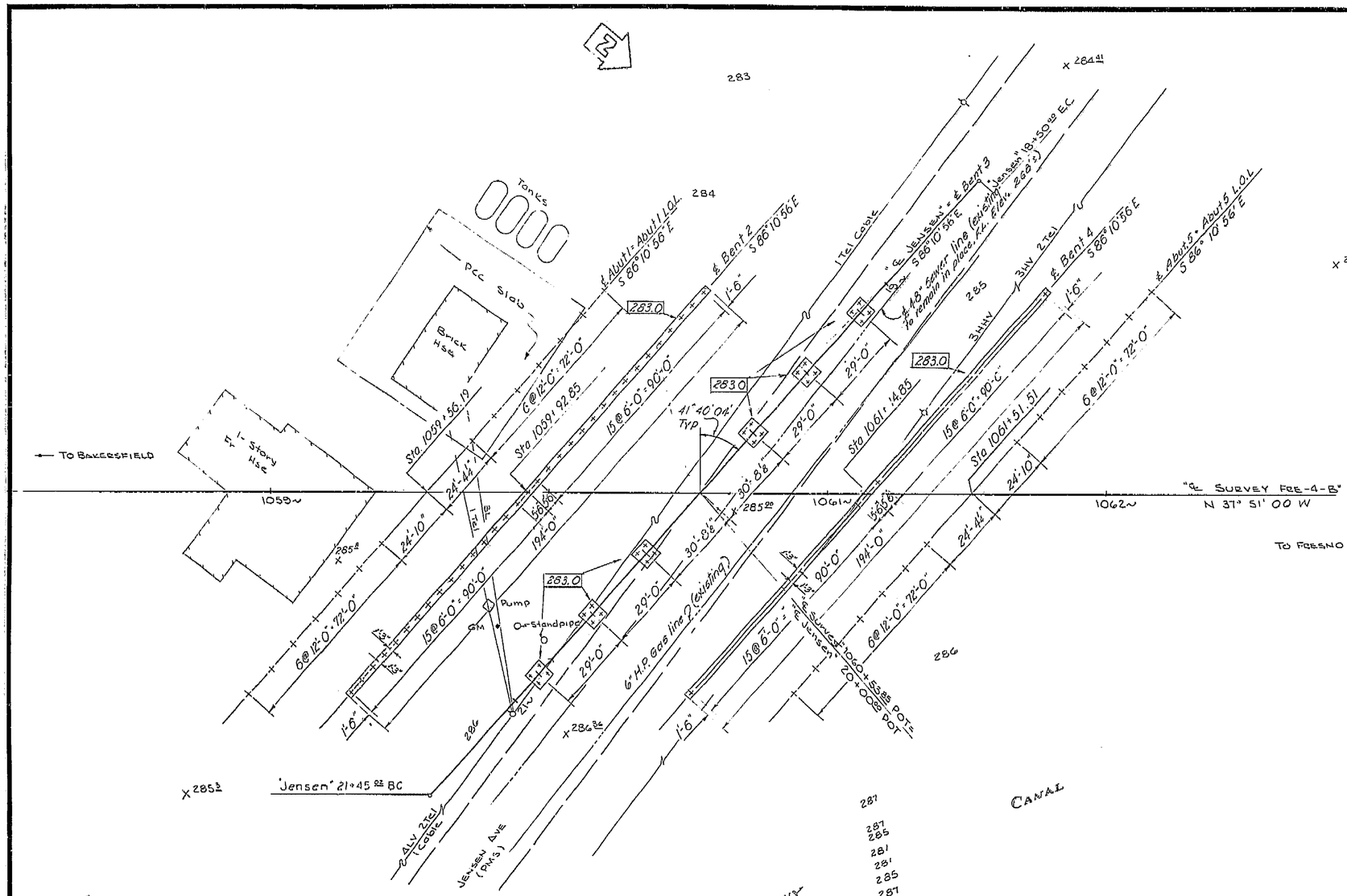
U-006-2(6)
F-006-2(5)

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			258	424

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	99	B	3	

BRIDGE ENGINEER — CIVIL ENGINEER—LICENSE 8383

DATE APPROVED August 28, 1961



BM "JENSEN"
Fd-Railroad spike in PP
30'Lt ∧ 1061 + 30 (Mkd Jensen)
EL 286.22

TBM "A"
Let- RR spike in TP 24'Rt
"℄ Jensen" 18+35±
EL 284.94

GENERAL NOTES

Specifications:

Design: A.A.S.H.O. dated 1957 with revisions and as supplemented by Bridge Planning and Design Manual.

Construction: Standard Specifications, Division of Highways, dated January 1960 and the Special Provisions.

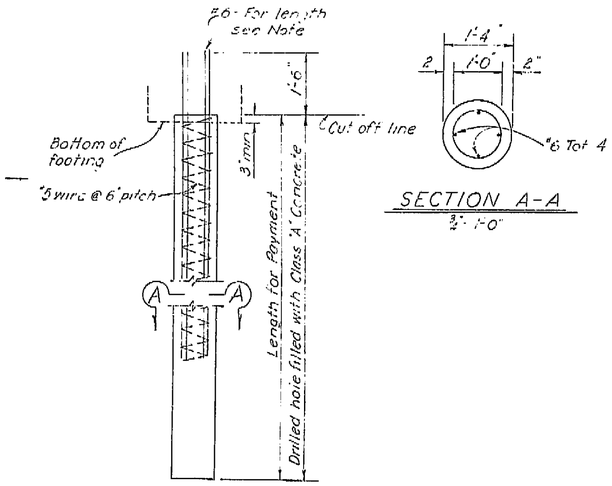
X 285.1 Live Loading: H20-S16-44 and alternative.

Unit Stresses:

Reinforced Concrete:

f_s = 20,000 p.s.i.
n = 10
f_c = 1,200 p.s.i.

Pile Loading: 45 tons Type: Concrete



SECTION A-A
3/4" = 1'-0"

CAST IN DRILLED HOLE CONCRETE PILE

Concrete to be placed in dry hole

Note: The length of #6 bars shall extend a minimum of 12'-0" below the lowest of the following:
1 Bottom of footing
2 Top of final ground surface.
3 Top of original ground surface when piles are drilled through fills.

THESE PLANS HAS BEEN CORRECTED TO REFLECT THE "AS BUILT" CONDITION AS SHOWN ON THE FIELD RECORDS.

LEVEL DATUM: USS&GS
FOR ALIGNMENT TIES SEE PR 6740-5
CONTOURS AS OF ... 11-59
SITE PLAN TO SUPPLEMENT DISTRICT DATA.
SURVEY BY JGG DATE 11-59
DRAWN BY WDB DATE 12-59
TRACED BY JS DATE 12-9-59

AS BUILT PLANS
Contract No. 62-6T1353
Date Completed
Document No. 6000 1062

Note: 0000 Indicates bottom of footing elevations
+ Indicates vertical pile
For pile layout at Bent 3 see Bent 3 Details.

BRIDGE DEPARTMENT
DESIGN SECTION
Project Designer: Engf. Ei. [illegible]
Chief Designer: MO Jensen

DESIGN	By RC [illegible]	Checked	Ray Alt Typ 3/60
DETAILS	By C[illegible]	Checked	Ray Alt Typ 3/60
QUANTITIES	By RE Clarkson 3/60	Checked	TJ Kathleen 5/60
SPECIFICATIONS	By	Plans and Specs. Compared	

Approval Recommended by [illegible] Civil and Structural State License No. 8537

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

JENSEN AVENUE UNDERCROSSING

FOUNDATION PLAN

SCALE 1" = 20' | BRIDGE 42-213 3/L | FILE E-42 | DRAWING C-6740-3 1

PREL. DRAWING NO. P. 6740

PR 6740-4 490

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-12-72 SIGNATURE [illegible] TITLE [illegible]

SCALE 1"= 50' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"= 50'
SCALE 1"= 20' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"= 20'
SCALE 1"= 10' or 1"= 100' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"= 10' or 1"= 100'
SCALE 1"= 40' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"= 40'

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VI	Fre	99

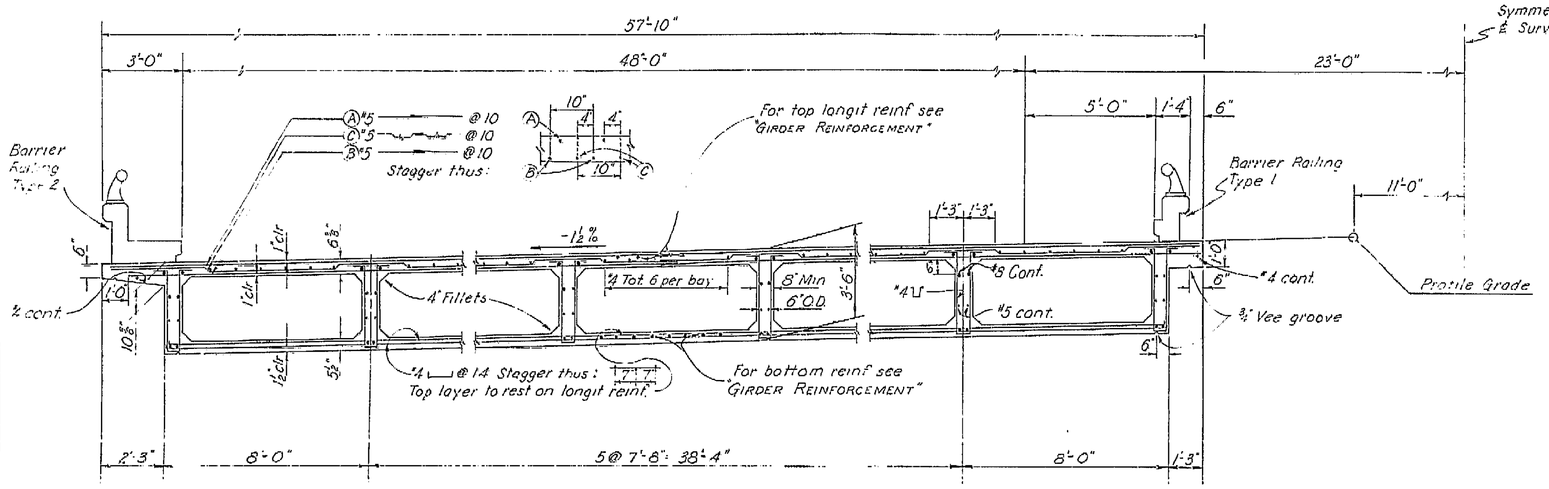
U-006-2(6)
F-006-2(5)

FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.		262	424

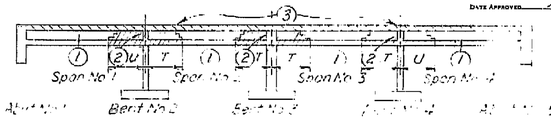
DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
04	Fre.	99		7	

Bridge Engineer — Civil Engineer—License 9363

DATE APPROVED: August 29 1961



TYPICAL SECTION
⅜" = 1'-0"



BOX GIRDER SUPERSTRUCTURE PLACING DIAGRAM

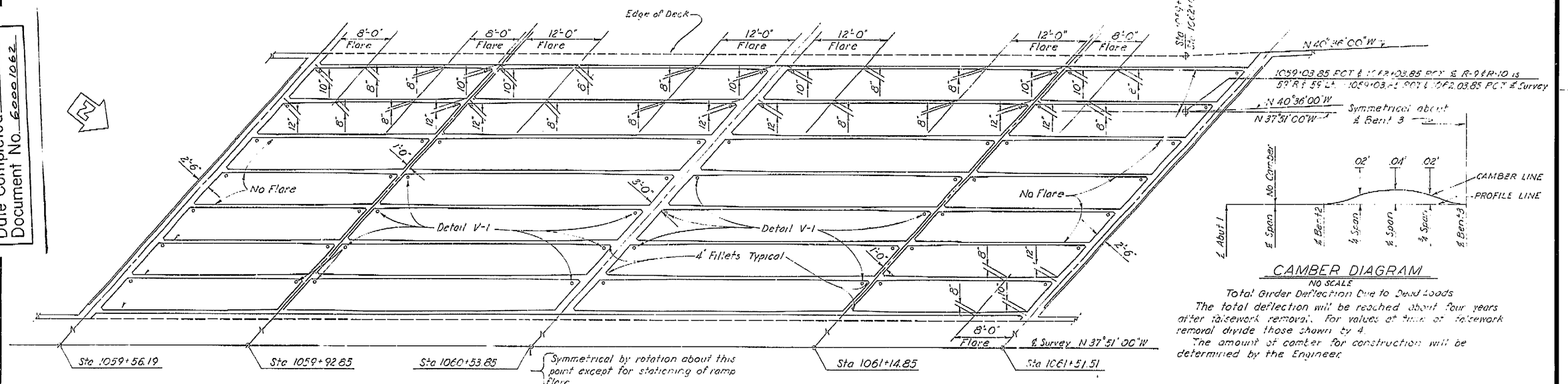
Numbers (1) and (2) indicate sequence of placing bottom slab and girder stem concrete. (2) may be placed simultaneously with (1) when approved by the Engineer, and provided that the (1) sections are placed in adjoining spans.

Top slab concrete (3) shall be placed separately from (1) and (2). (3) may be placed continuously or in parts as approved by the Engineer, however the only joints permitted shall be located within 2'-0" of the girder points between (1) and (2).

T = ⅕ span length

U = ¼ span length

For any deviation from the above the contractor shall submit a diagram to the Engineer



CAMBER DIAGRAM

NO SCALE

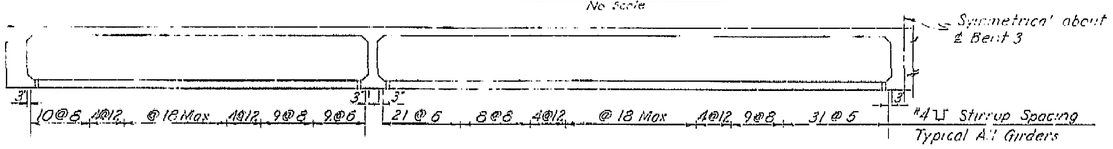
Total Girder Deflection Due to Dead Loads

The total deflection will be reached about four years after falsework removal. For values at time of falsework removal divide those shown by 4.

The amount of camber for construction will be determined by the Engineer.

GIRDER LAYOUT

No Scale



LONGITUDINAL SECTION

No Scale

AS BUILT PLANS
Contract No. 62-671363
Date Completed
Document No. 6000106262

262

BRIDGE DEPARTMENT			
DESIGN SECTION 2			
Project Designer: Eugene C. Guillemin			
Chief Designer: W. J. Quintrall			
DESIGN	By E.C. Guillemin 1/60	Checked	Ray Ah Tye 3/60
DETAILS	By A.F. Gianferri 1/60	Checked	Ray Ah Tye 3/60
QUANTITIES	By R.E. Carlson 4/60	Checked	D.R. Howe 5/60
SPECIFICATIONS	By	Plans and Specs. Compared	
Approval Recommended by: Bridge Engineer		Civil Engr. License No. 8439	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

JENSEN AVE UNDERCROSSING

TYPICAL SECTION & GIRDER LAYOUT

SCALE As Shown	BRIDGE 42-213 R ½	FILE	DRAWING C-6740-7

Disregard prints bearing earlier numbers → PREL. DRAWING No. P- 6740 | 7 | 490

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DATE 1-10 72 SIGNATURE [illegible] TITLE [illegible]

SCALE 1"= 50' MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM SCALE 1"= 50'
SCALE 1"= 10' or 1"= 100' MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM SCALE 1"= 10' or 1"= 100'
SCALE 1"= 20' MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM SCALE 1"= 20'
SCALE 1"= 40' MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM SCALE 1"= 40'

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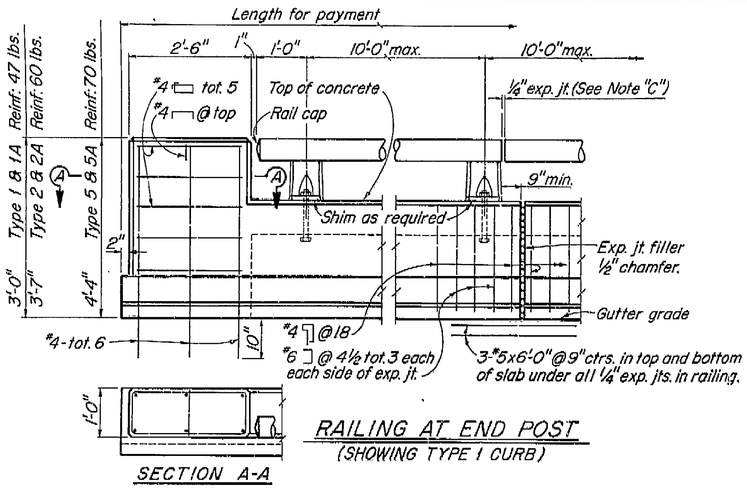
VI | Fre | 99

U-006-2(6)
F-006-2(5)

FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	No.
7	CALIF.		265

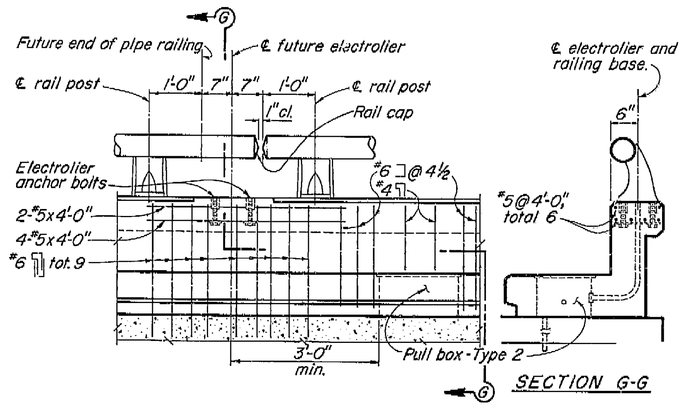
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	4	B	10	

August 28, 1961



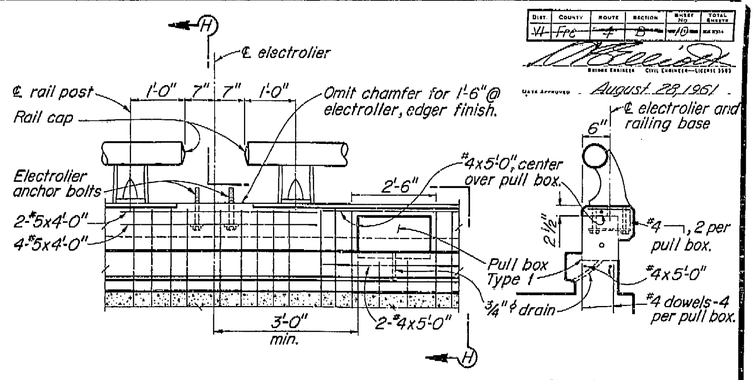
SECTION A-A

RAILING AT END POST
(SHOWING TYPE 1 CURB)



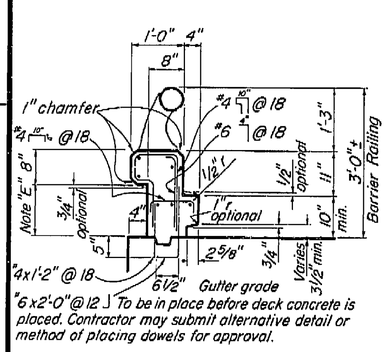
SECTION G-G

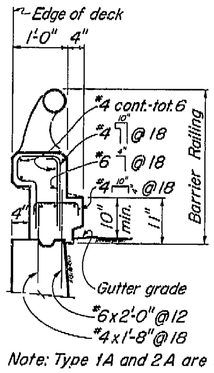
RAILING CLOSURE AT ELECTROLIER
(SHOWING TYPE 2 CURB)

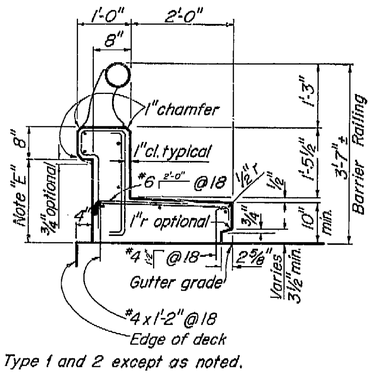


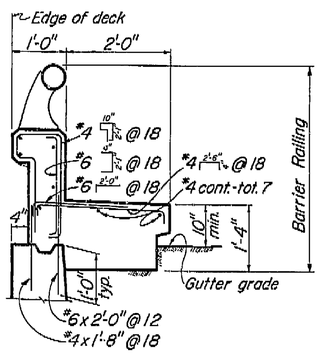
SECTION H-H

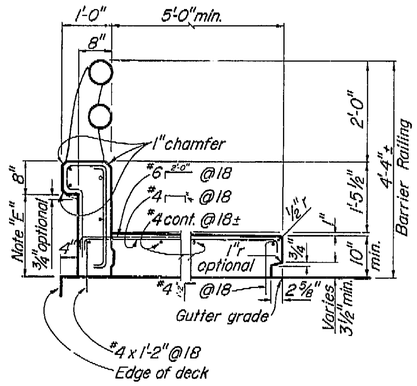
RAILING AT ELECTROLIER
(SHOWING TYPE 1 CURB)

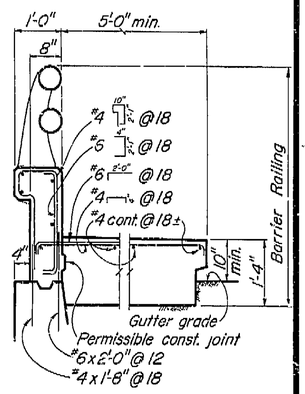












Note: Type 1A and 2A are similar to Type 1 and 2 except as noted.

TYPE 1
Conc. 1.61 cu. ft. /lin. ft.
Reinf. 11.8 lbs. /lin. ft.

TYPE 1A
Conc. 1.61 cu. ft. /lin. ft.
Reinf. 12.0 lbs. /lin. ft.

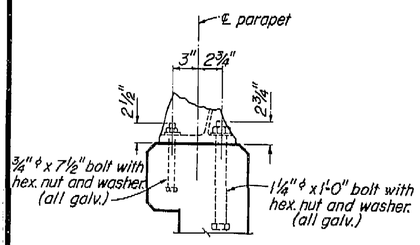
TYPE 2
Conc. 3.43 cu. ft. /lin. ft.
Reinf. 14.7 lbs. /lin. ft.

TYPE 2A
Conc. 4.30 cu. ft. /lin. ft.
Reinf. 17.3 lbs. /lin. ft.

TYPE 5
Conc. 6.10 cu. ft. /lin. ft. — For 5'-0" width
Reinf. 17.2 lbs. /lin. ft.
Conc. 0.84 cu. ft. /lin. ft. — Per additional ft. (width)
Reinf. 2.1 lbs. /lin. ft.

TYPE 5A
Conc. 8.35 cu. ft. /lin. ft.
Reinf. 19.7 lbs. /lin. ft.
Conc. 1.34 cu. ft. /lin. ft.
Reinf. 2.1 lbs. /lin. ft.

TYPICAL CURB AND RAIL SECTIONS



RAIL POST ANCHOR BOLT DETAIL
Scale: 1 1/2" = 1'-0"

Note:
A. Railing shall conform to horizontal and vertical alignment.
B. Posts shall be normal to railing.
C. Curb and wall exp. jts. to be located at all deck joints, at ℄ piers or bents and at uniform spacing (40' max.) between those specified. Joint size to be 1/4" min. and increased to match deck joints.
D. Construct 3" deep x 12" wide overflow scupper 2" above deck at low points in grade.
E. Dimension will vary with cross-slope of deck.
F. Walls are to be backfilled before railing is placed.
G. Clearance to reinforcing steel in curb and railing to be 1".

AS BUILT PLANS
Contract No. 62-671363
Date Completed
Document No. 60001062

BRIDGE DEPARTMENT		
DESIGN SECTION 2		
Section Supervisor W.J. Jentsch		
DESIGN	By REC	
	Checked Ray M. Tye	12/60
DETAILS	By CR	
	Checked Ray M. Tye	12/60
QUANTITIES	By REC	
	Punched OBM	

10/60
STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

JENSEN AVE UNDERCROSSING

BARRIER RAILING SHEET 1

Except as noted SCALE 3/4"=1'-0" | BRIDGE 42-213 R/L | XS-9-63 FILE | DRAWING C-6740-10

Disregard prints bearing earlier numbers → PREL. DRAWING No. P-6740 | 14 | 497

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DATE_____ SIGNATURE_____ TITLE_____

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

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VI | Fre | 99

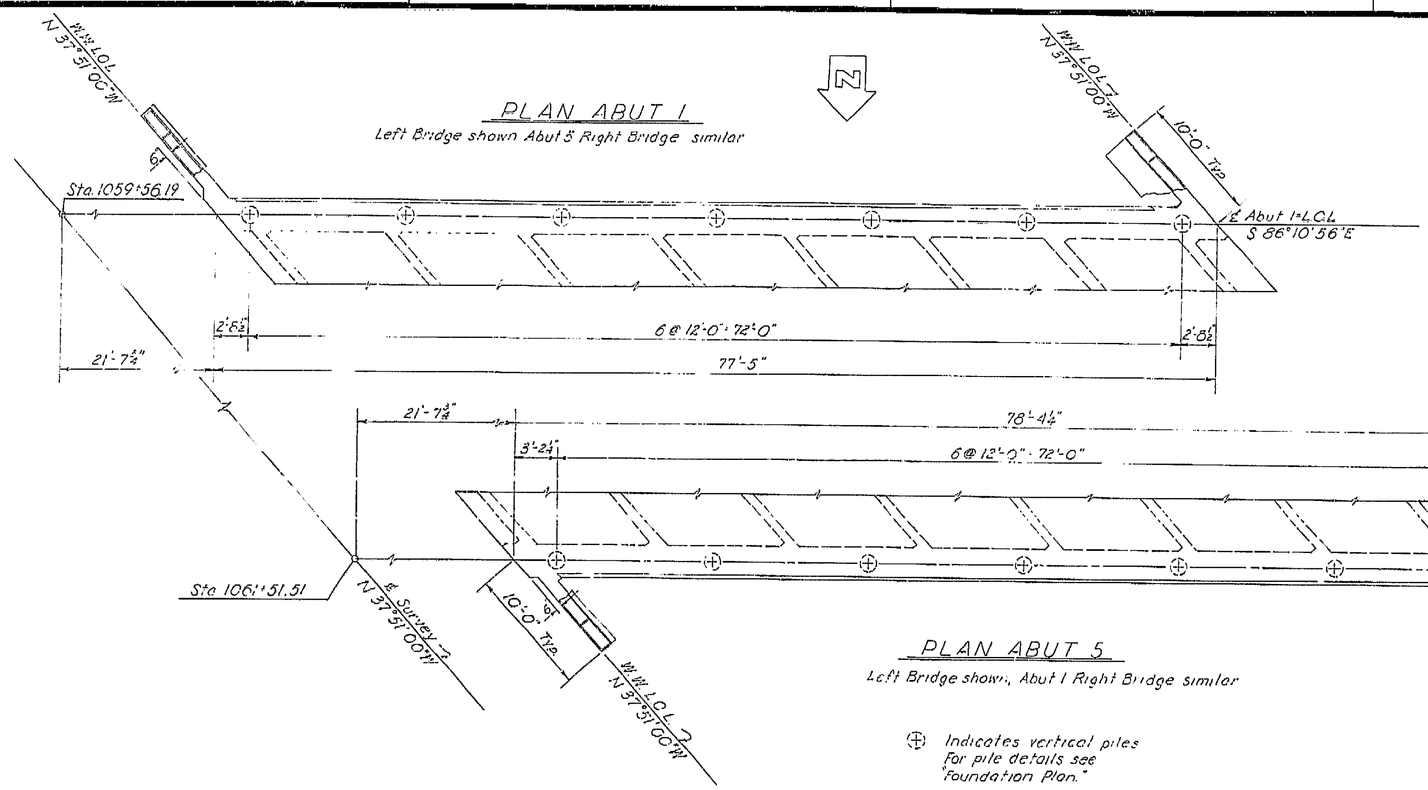
U-006-2(6)
F-006-2(5)

FED. ROAD DIV. NO.	STATE	F. A. PROJECT No	SHEET NO.	TOTAL SHEETS
7	CALIF.		259	424

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre				

BRIDGE ENGINEER — CIVIL ENGINEER—LICENSE 5503

DATE APPROVED August 29 1961



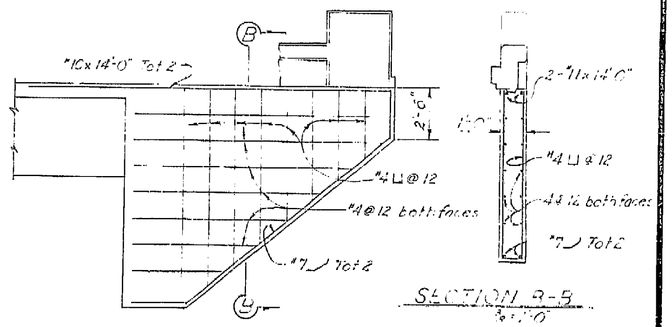
PLAN ABUT 1

Left Bridge shown Abut 5 Right Bridge similar

PLAN ABUT 5

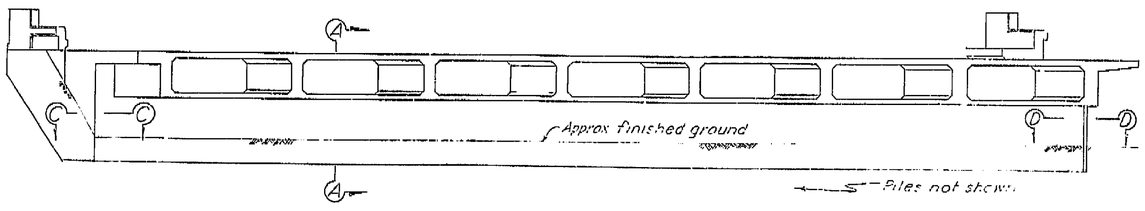
Left Bridge shown, Abut 1 Right Bridge similar

⊕ Indicates vertical piles for pile details see "Foundation Plan."

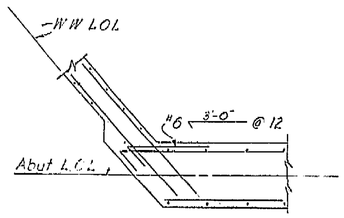


SECTION B-B

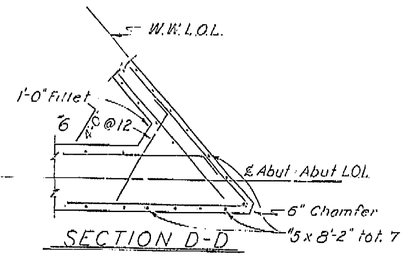
TYPICAL WINGWALL ELEVATION



TYPICAL ELEVATION

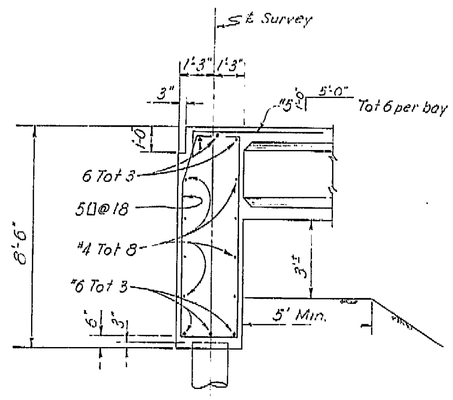


SECTION C-C



SECTION D-D

CORNER DETAILS



SECTION A-A

AS BUILT PLANS
Contract No. 62-671363
Date Completed
Document No. 6000 1062

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer
Chief Designer M.W.O.

DESIGN	By K.C. Carlson 9/60	Checked Ray McTyc 3/60	
DETAILS	By C. Brandriet 3/60	Checked Ray McTyc 3/60	
QUANTITIES	By P.E. Carlson 9/60	Checked L.F. Nelson 9/60	
SPECIFICATIONS	By	Plans and Spcns. Completed	

Approval Recommended by ... Engineer of Design
Civil Engr. License No. 5503

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

JENSEN AVE UNDERCROSSING

ABUTMENT DETAILS

Except As Noted SCALE 3/16" = 1'-0" | BRIDGE 42-213 R | FILE | DRAWING C-6740-4 1

Disregard prints bearing earlier numbers → PREL. DRAWING No. P-6740 4

491

259

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-12-22 SIGNATURE ... TITLE ...

SCALE 1"= 50' MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM SCALE 1"= 50'
SCALE 1"= 20' MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM SCALE 1"= 20'
SCALE 1"= 10' or 1"= 100' MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM SCALE 1"= 10' or 1"= 100'
SCALE 1"= 40' MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM SCALE 1"= 40'

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VI | Fre | 99

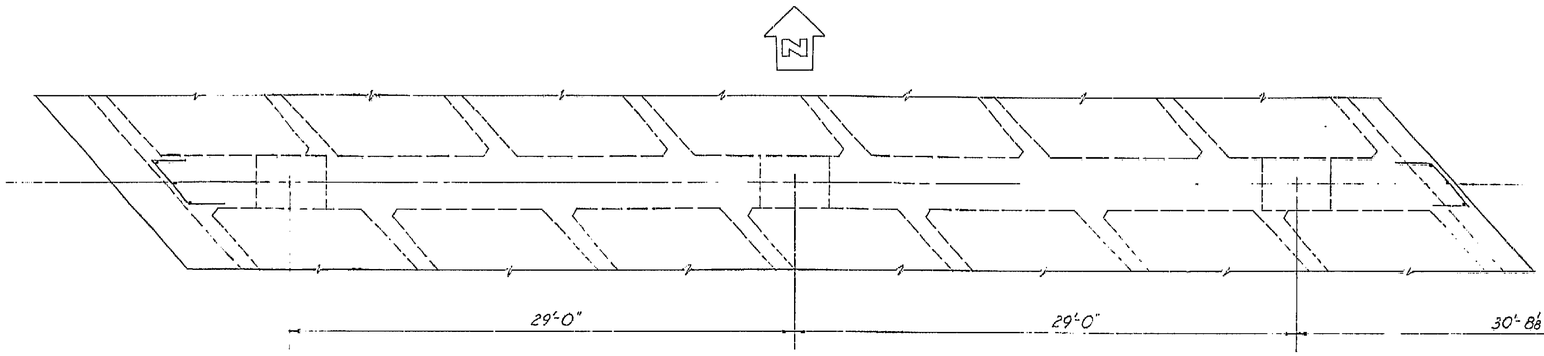
U-005-2(6)
F-005-2(5)

FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.		261	329

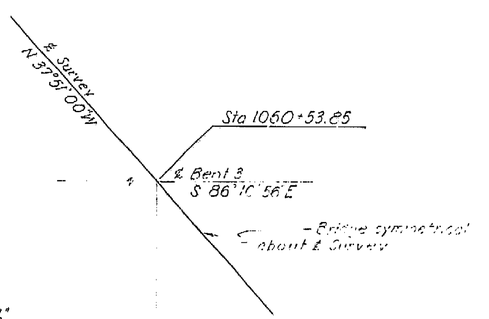
DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
7	Fre				

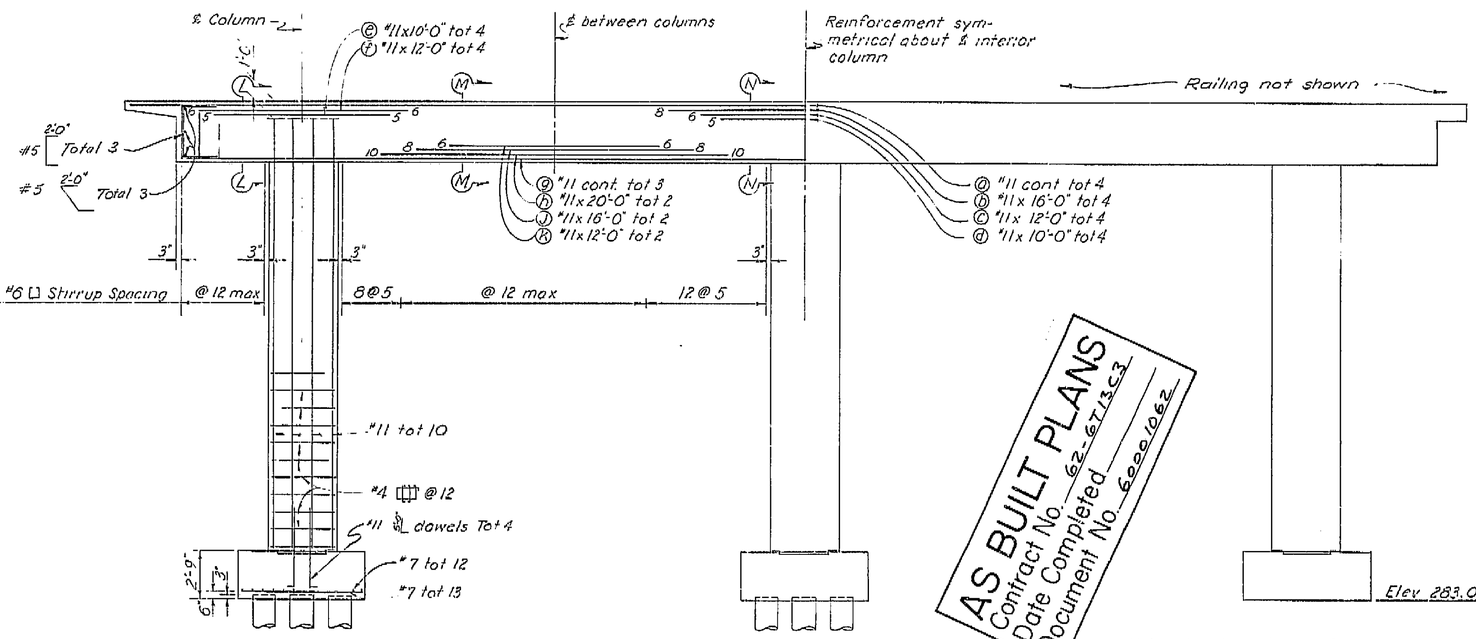
BRIDGE ENGINEER — CIVIL ENGINEER—LICENSE 5065

DATE APPROVED August 28, 1961

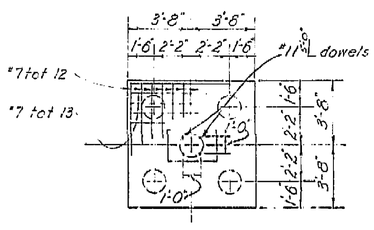


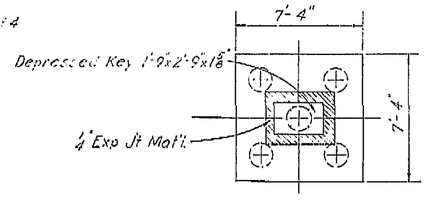
PLAN
4'=1'-0"





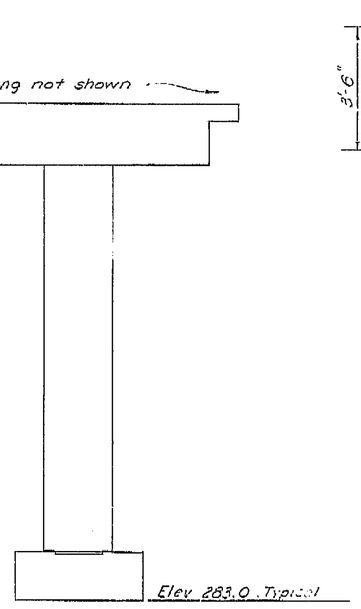
ELEVATION
4'=1'-0"



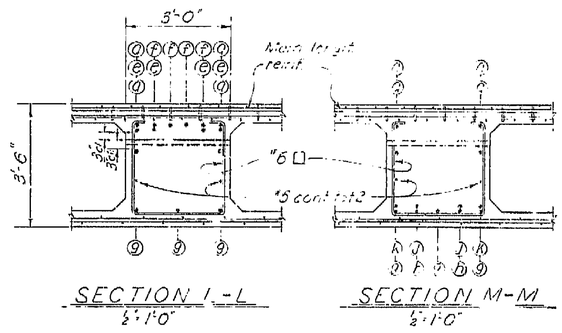


FOOTING PLAN
4'=1'-0"

AS BUILT PLANS
Contract No. 62-67303
Date Completed
Document No. 6200062

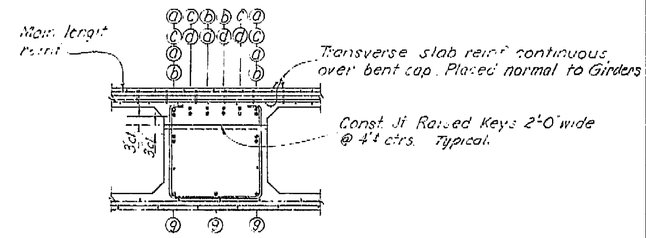


Note: Numbers at ends of bars indicate distance in feet from ℄ Column for Top Reinforcement or from ℄ between Columns for Bottom Reinforcement.
No splicing of Top Reinf permitted near ℄ Cols and no splicing of Bottom Reinf permitted near ℄ between Cols.

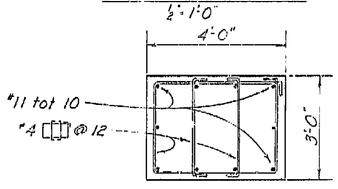


SECTION I-L
½"=1'-0"

SECTION M-M
½"=1'-0"



SECTION N-N
½"=1'-0"



SECTION P-P
½"=1'-0"

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer Earl E. Anderson
Chief Designer W. G. Jentsch

DESIGN	By R.C. Cassino 1/60	Checked Ray M. Tice 3/60	
DETAILS	By C. Brownfield 2/60	Checked Ray M. Tice 3/60	
QUANTITIES	By R.E. Carlson 2/60	Checked L. R. Wilson 3/60	
SPECIFICATIONS	By	Plans and Specs. Compared	

Approval Recommended by R. J. Hutchinson, Engineer of Design — Civil Engr. License No. 5439

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

JENSEN AVE UNDERCROSSING

BENT 3 DETAILS

SCALE As Noted | BRIDGE 42 213 ¾ | FILE | DRAWING C-6740-6 1

Disregard prints bearing earlier numbers → PREL. DRAWING No. P. 6740 | 6 | 6/14 | 493

261

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-13-72 SIGNATURE [illegible] TITLE [illegible]

SCALE 1"= 50' MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM SCALE 1"= 50'
SCALE 1"= 10' or 1"= 100' MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM SCALE 1"= 10' or 1"= 100'
SCALE 1"= 20' MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM SCALE 1"= 20'
SCALE 1"= 40' MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM SCALE 1"= 40'

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California Department of Transportation
Division of Maintenance

Structure Maintenance and Investigations

BRIDGE

INSPECTION

RECORDS

INFORMATION

SYSTEM

The requested documents have been generated by BIRIS.

These documents are the property of the California Department of Transportation and should be handled in accordance with Deputy Directive 55 and the State Administrative Manual.

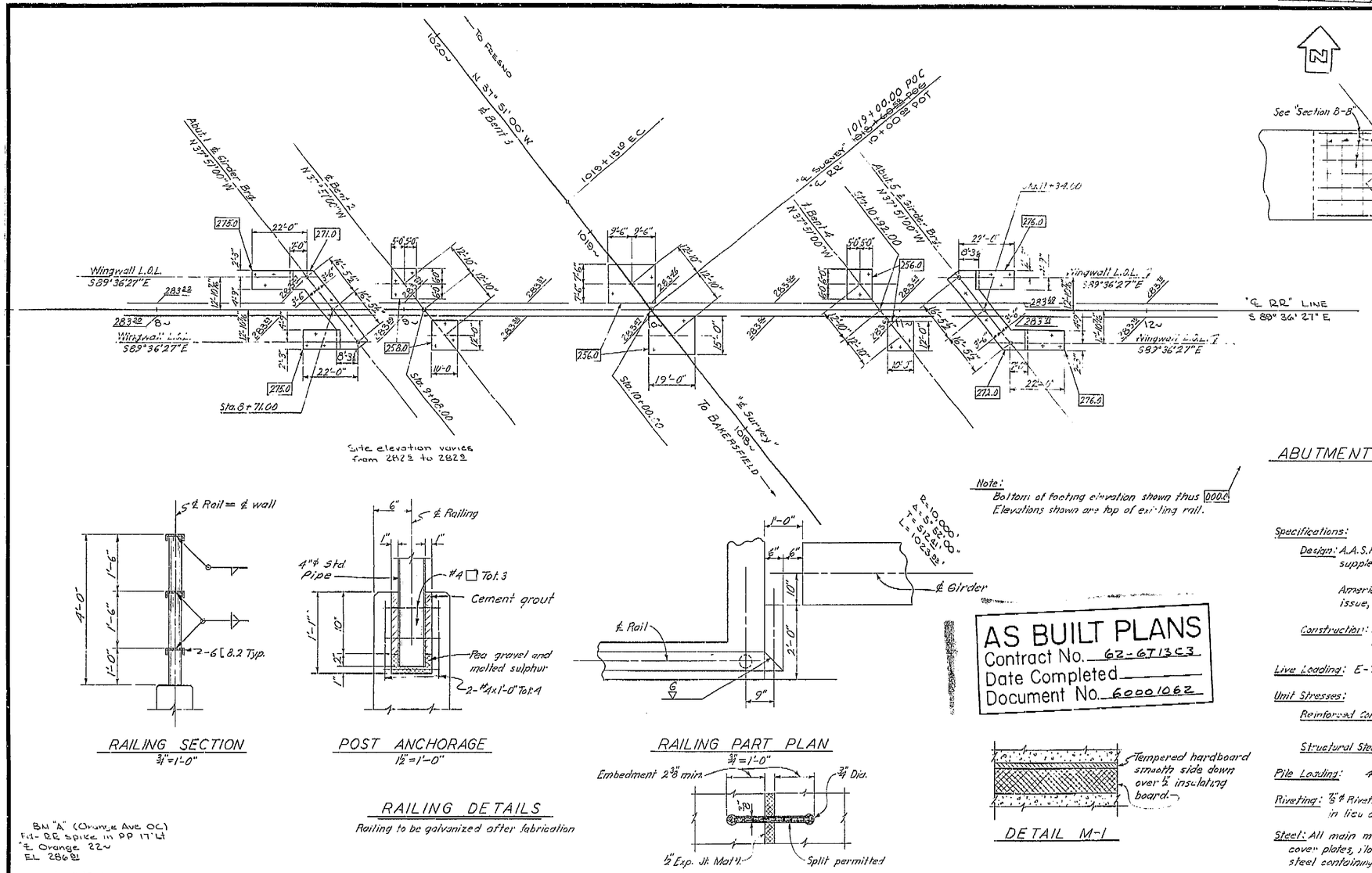
Records for “Confidential” bridges may only be released outside the Department of Transportation upon execution of a confidentiality agreement.

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
7	CALIF.			247	424

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	Fre	99		2	

U-006-2(5)
F-006-2(5)

DATE APPROVED August 28, 1961



ABUTMENT FOOTING REINFORCEMENT
1/4" = 1'-0"

Note:
Bottom of footing elevation shown thus 000.0
Elevations shown are top of existing rail.

RAILING SECTION
3/4" = 1'-0"

POST ANCHORAGE
1½" = 1'-0"

RAILING PART PLAN
3/4" = 1'-0"

RAILING DETAILS
Railing to be galvanized after fabrication

RUBBER WATERSTOP DETAIL W-1

Note: For details of "Alternative Waterstop" see "Standard Details No. 1" sheet "Route 4 On Ramp OC."

DETAIL M-1

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

GENERAL NOTES

Specifications:

Design: A.A.S.H.O. dated 1957 with revisions and as supplemented by Bridge Planning and Design Manual.

American Railway Engineering Association, current issue, for railroad.

Construction: Standard Specifications, Division of Highways, dated January 1960 and the Special Provisions.

Live Loading: E-72

Unit Stresses:

Reinforced Concrete: $F_s = 20{,}000$ P.S.I., N=10
$F_c = 1{,}200$ P.S.I.

Structural Steel: $F_s = 18{,}000$ P.S.I.

Pile Loading: 45 Tons Type: Concrete Class II

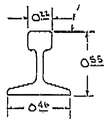
Riveting: ⅞" ϕ Rivets, ⅞" ϕ High strength bolts may be used in lieu of field rivets.

Steel: All main material, including web plates, flange angles, cover plates, floor beams and rivets shall be upper bearing steel containing not less than 0.2% copper.

BM "A" (Orange Ave OC)
Fd- RR spike in PP 17' Lt
℄ Orange 22 N
EL 286.81

BM # 25.2
Fd- "D" on E end of N hdwl of culv under Santa Fe track @ Orange Ave
Set EL 285.39

LEVEL DATUM: U.S.C.&G.S.
FOR ALIGNMENT TIES SEE DR 6739-6
CONTOURS AS OF 10-59
SITE PLAN TO SUPPLEMENT DISTRICT DATA.
SURVEY BY U.S. DATE 10-59
DRAWN BY U.S. DATE 10-59
TRACED BY U.S. DATE 10-16-59



1120 REOH Colorado 1935 II

BRIDGE DEPARTMENT
DESIGN SECTION
Project Designer: Earl E. Tucker
Chief Designer: W. J. Gutknecht

DESIGN	By R.G. Cassano 9/60	Checked	W.H.H. '60
DETAILS	By H.N. Dahl 5/60	Checked	W.H.H. '60
QUANTITIES	By W.A. Smith 9/60	Checked	M. Camacho '60
SPECIFICATIONS	By	Plans and Specs. Compared	

Approval Recommended by: R. E. Hill, Engineer of Design — Chief and Assistant Engr. Signed No. 5419

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

WEST CALWA SPUR UNDERPASS

FOUNDATION PLAN

SCALE 1" = 20' | BRIDGE 42-212 | FILE 55-12 | DRAWING C-6739-2

PREL. DRAWING NO. P-6739 | X | 12/29/36 | 36/6/13 | DR 6739-3

247

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-12-62 SIGNATURE _____ TITLE _____

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"= 50'
SCALE 1"= 20'
ClibPDF - www.fastio.com

V1	Fre	99

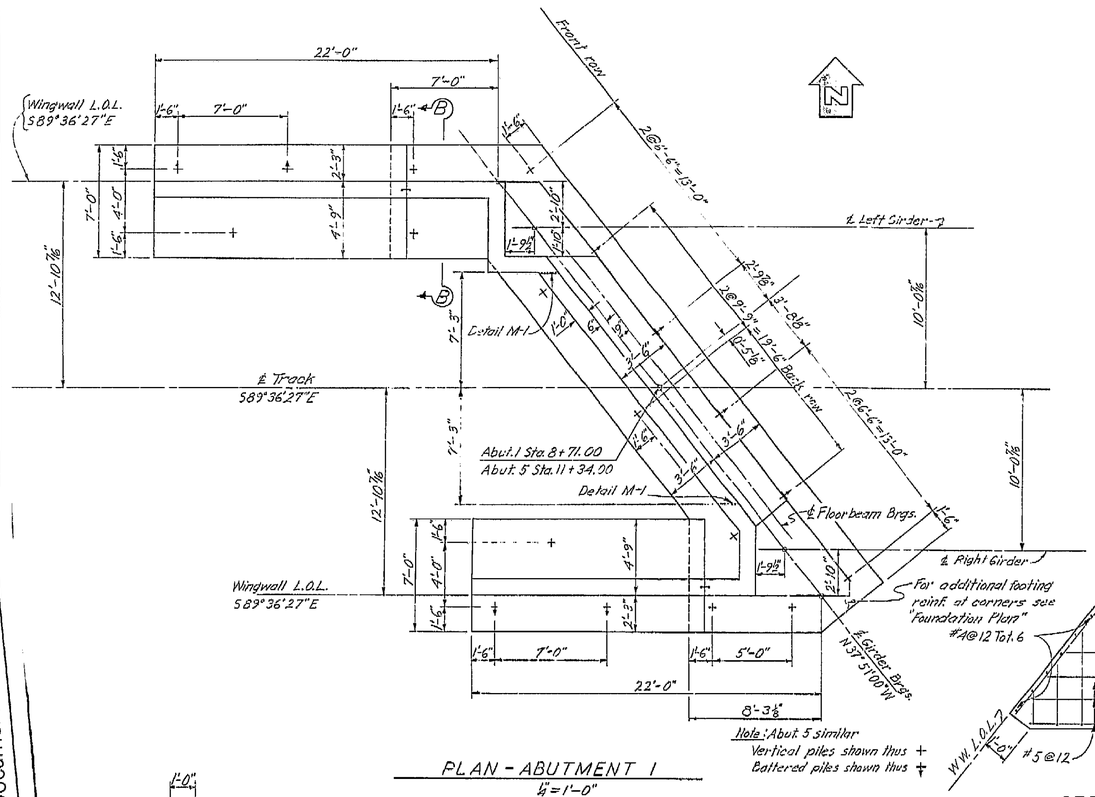
U-006-2(6)
F-006-2(5)

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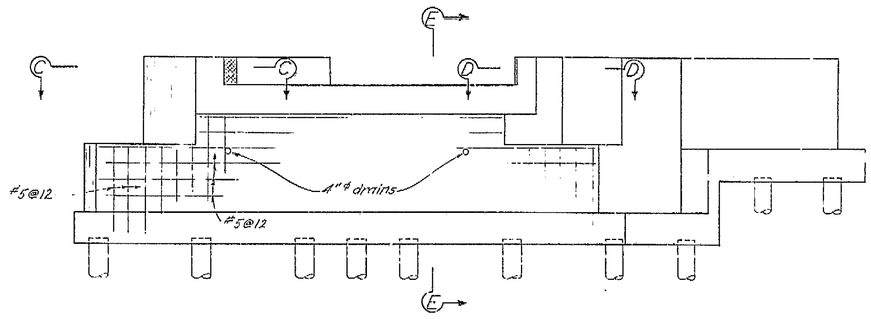
DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
11	Fre.	Various	Alignment	Various	Various

BRIDGE ENGINEER — CIVIL ENGINEER—LICENSE 5265

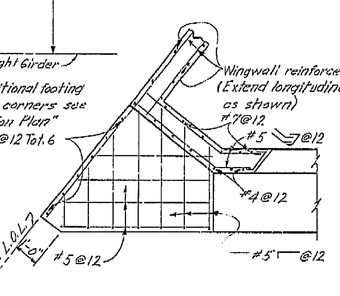
DATE APPROVED August 28, 1951



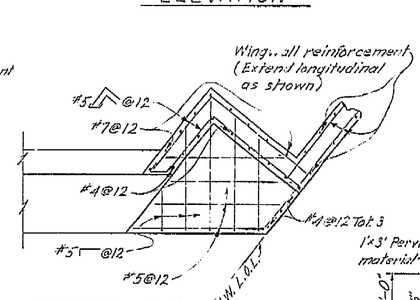
PLAN - ABUTMENT 1
¼"=1'-0"



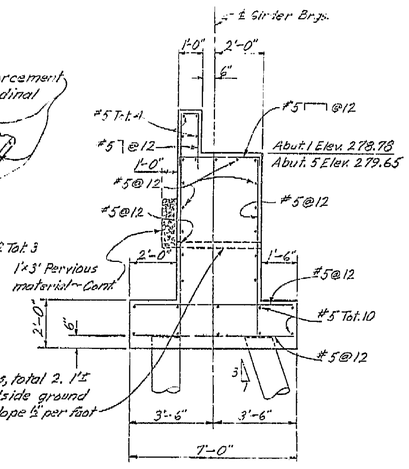
ELEVATION



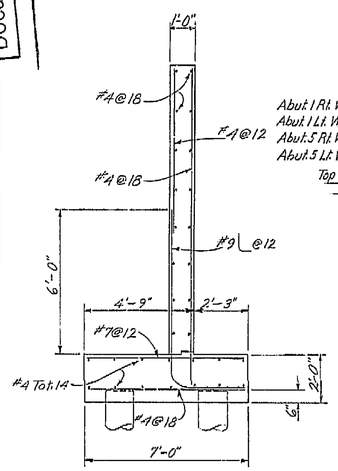
SECTION C-C
⅜"=1'-0"



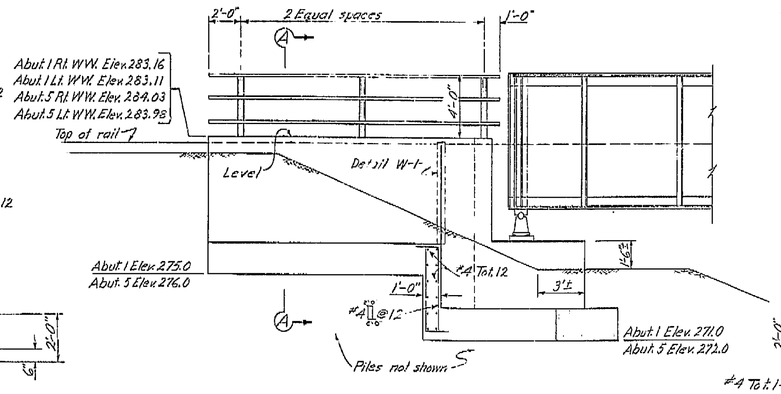
SECTION D-D
⅜"=1'-0"



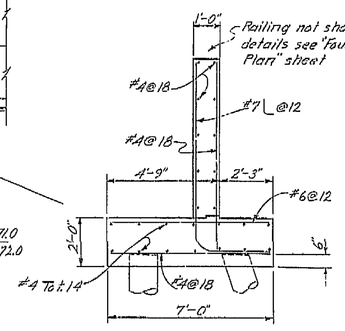
SECTION E-E
⅜"=1'-0"



SECTION B-B
⅜"=1'-0"



TYPICAL WINGWALL ELEVATION
¼"=1'-0"



SECTION A-A
⅜"=1'-0"

℄ BEARING PIN ELEVATION		
ABUT.	LEFT GIRDER	RIGHT GIRDER
1	273.49	278.54
5	273.36	279.41

Notes: For Railing Details, Rubber Waterstop Detail W-1, and Detail M-1 see "Foundation Plan" sheet.

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer
Chief Designer

DESIGN	By R. C. Cassano 5/60	Checked	W. H. H. 7/60
DETAILS	By H. N. Dahl 5/60	Checked	W. H. H. 7/60
QUANTITIES	By D. C. M. 7/60	Checked	M. Camacho 7/60
SPECIFICATIONS	By	Plans and Specs. Compared	

Approval Recommended by
Chief Engr., Division of Design — Chief Engr., Division of Bridges — Registered Civil Engineer No. 8438

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

WEST CALWA SPUR UNDERPASS

ABUTMENT DETAILS

SCALE As Noted | BRIDGE 42-212 | FILE | DRAWING C-6739-3

Disregard prints bearing earlier numbers

PREL. DRAWING No. P-6739 | 17 | 18 | 20 | 27 | 36 | 39

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 6000106Z

248

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-11-72 SIGNATURE [illegible] TITLE [illegible]

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SCALE 1"= 20' 0 100 200 300
ClibPDF - www.fastio.com

V1	Fre	99

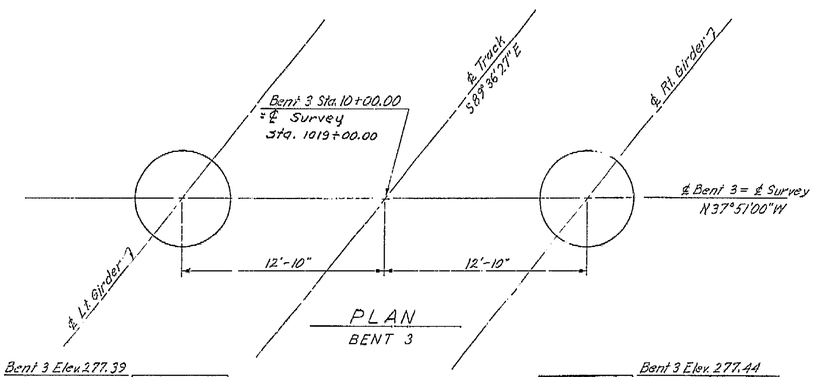
U-006-2(6)
F-006-2(5)

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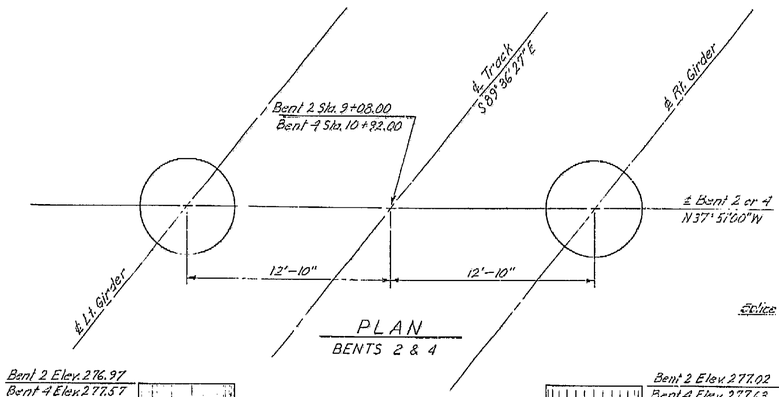
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fres	99			

BRUCE BRENNER Civil Engineer—License 5398

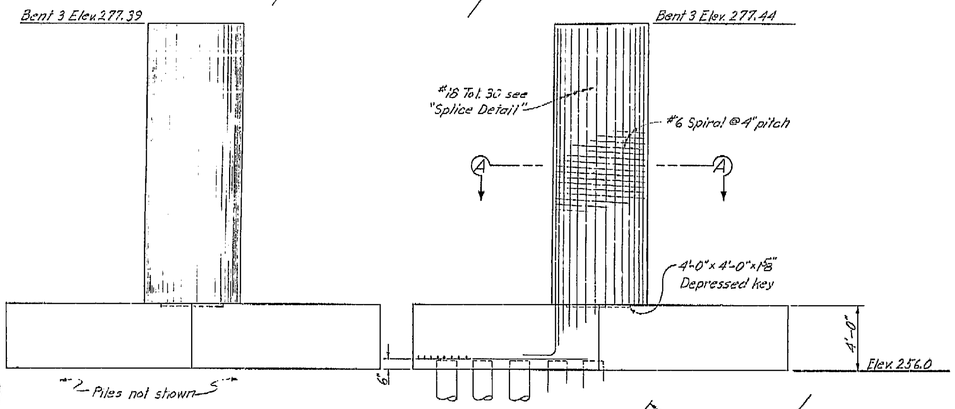
DATE APPROVED August 28, 1961



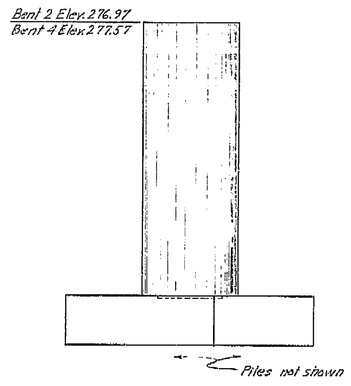
PLAN
BENT 3

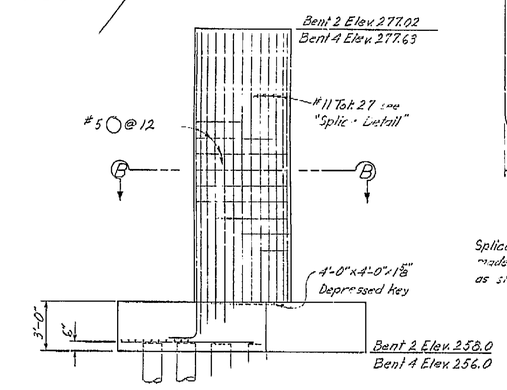


PLAN
BENTS 2 & 4

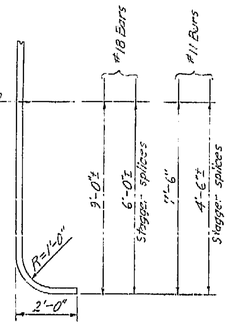


ELEVATION



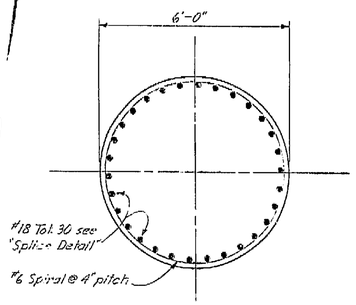


ELEVATION

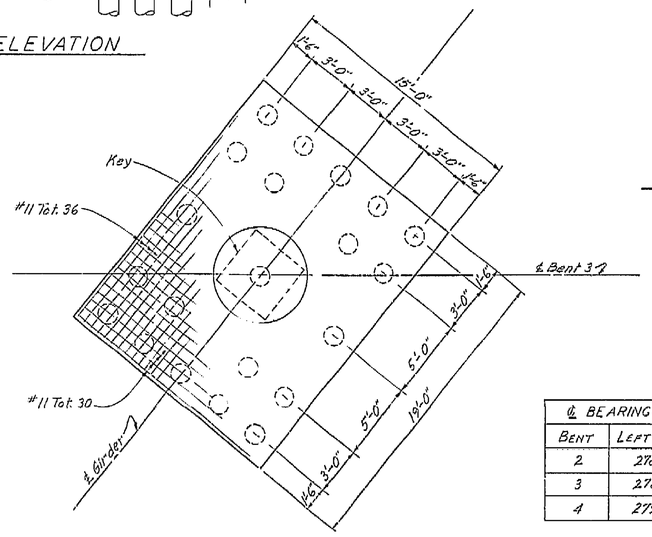


SPLICE DETAIL
No Scale

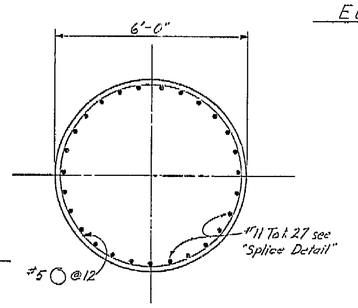
Splice of #18 and #11 bars shall be made by welding bars prepared as shown.



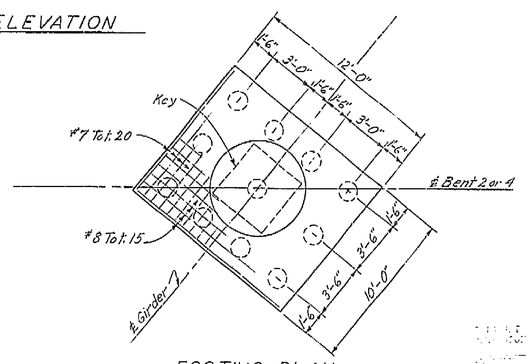
SECTION A-A
½"=1'-0"



FOOTING PLAN



SECTION B-B
½"=1'-0"



FOOTING PLAN

℄ BEARING PIN ELEVATION		
BENT	LEFT GIRDER	RIGHT GIRDER
2	278.61	278.67
3	278.91	278.97
4	279.21	279.27

AS BUILT PLANS
Contract No. 62-671353
Date Completed
Document No. 6000062

249

BRIDGE DEPARTMENT
··· DESIGN SECTION ···
2

Project Designer: Earl E. Gilman
Chief Designer: Leo Hinton

DESIGN	By K.C. Corsaw '60	Checked	W. H. H. '60
DETAILS	By H.N. Dahl 7/60	Checked	W. H. H. '60
QUANTITIES	By [illegible] '60	Checked	M. Camacho '60
SPECIFICATIONS	By	Plans and Forms Checked	

Approval Recommended by: [signature] Engineer of Design (Civil Engr. License No. 5439)

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

WEST CALWA SPUR UNDERPASS

BENT DETAILS

SCALE	BRIDGE	FILE	DRAWING
1"=1'-0" Except As Noted	42-212		C-6739-4

Disregard prints bearing earlier numbers →

PREL. DRAWING No. P- 6739 | 8 | 14 | 58

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-12-72 SIGNATURE [signature] TITLE [illegible]

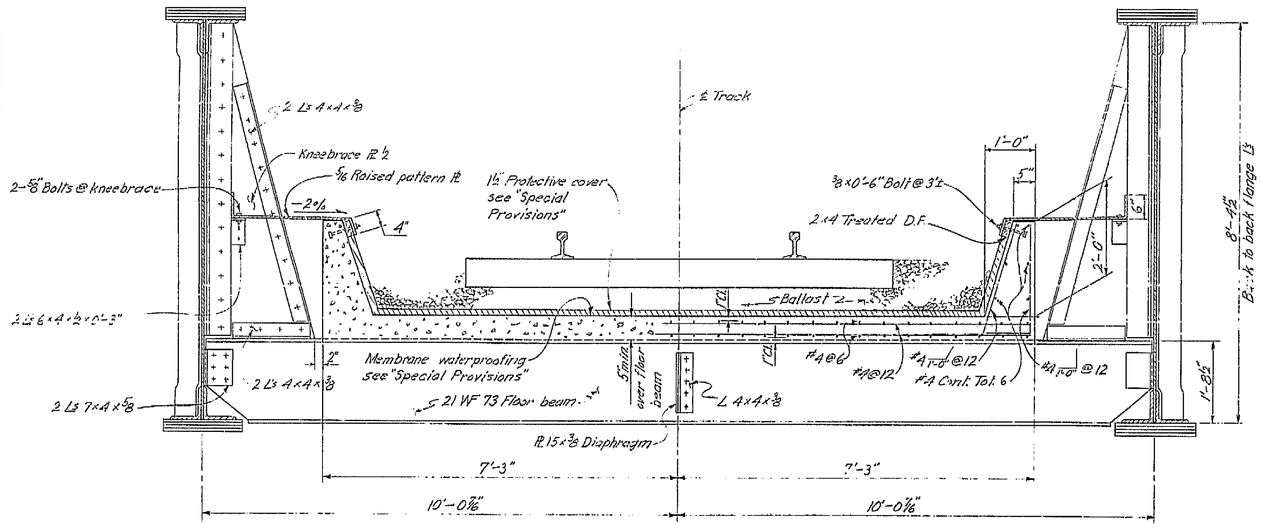
MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM
SCALE 1"= 50' 0 100 200 300 400 500 600 700
SCALE 1"= 20' 0 50 100 200 300
ClibPDF - www.fastio.com

Fed. Road Dist. No.	State	F. A. Project No.	Sheet No.	Total Sheets
7	Calif.		250	428

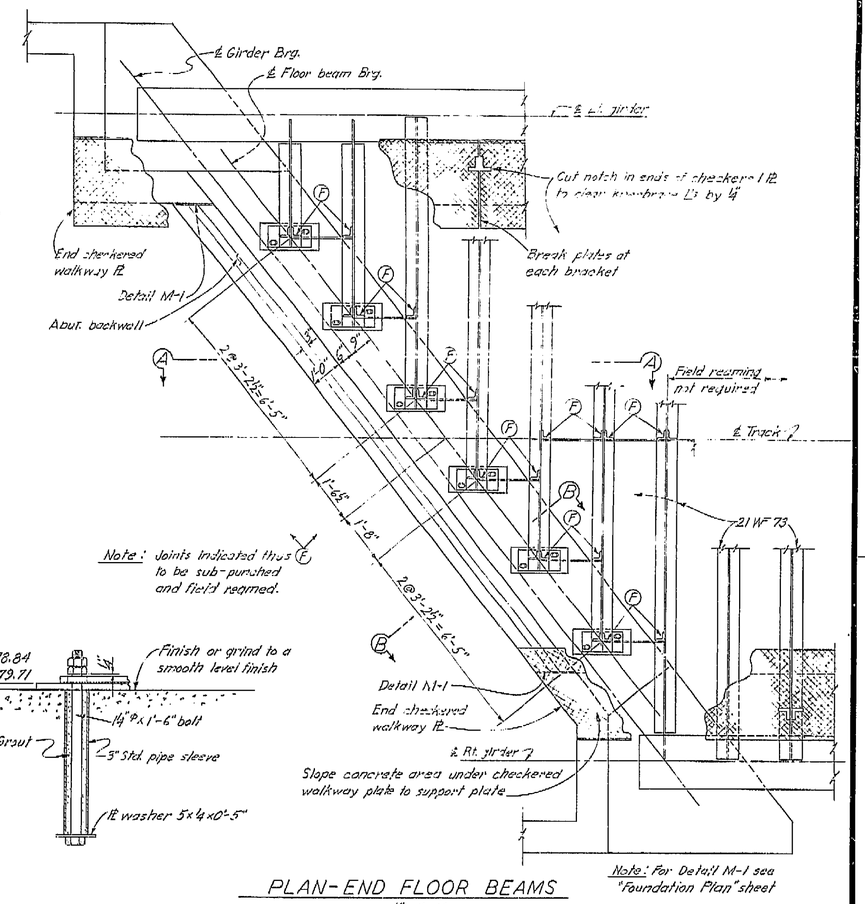
Dist.	County	Route	Section	Sheet No.	Total Sheets
VI	Fre	99			

U-006·2(6)
F-006·2(5)

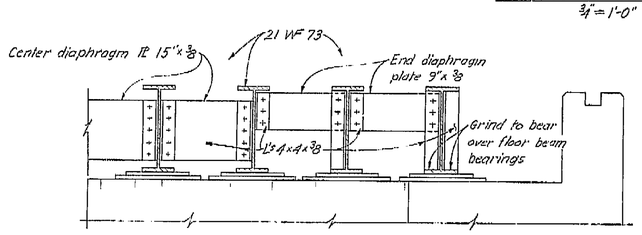
Date Approved August 28, 1961



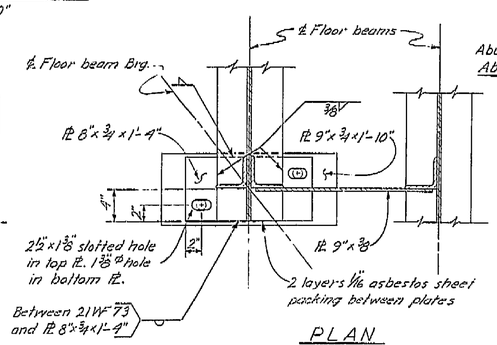
TYPICAL SECTION
¾"=1'-0"



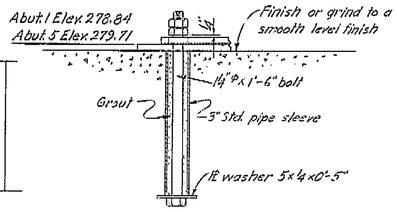
PLAN-END FLOOR BEAMS
½"=1'-0"



SECTION A-A
¾"=1'-0"

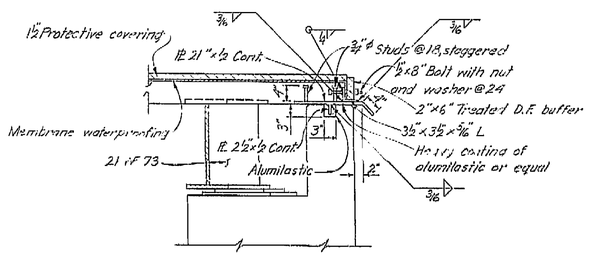


PLAN



ANCHORAGE

FLOORBEAM BEARING DETAILS
1½"=1'-0"



SECTION B-B
¾"=1'-0"

AS BUILT PLANS
Contract No. 62-671363
Date Completed
Document No. 60001062

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer: Frank Lee Thomas
Chief Designer: Milo Sivertsen

DESIGN	By R.C. Cassano 7/60	Checked	W.H.H. 7/60
DETAILS	By H.N. Patil 7/60	Checked	W.H.H. 7/60
QUANTITIES	By [illegible] 7/60	Checked	M. Camacho 7/60
SPECIFICATIONS	By	Plans and Specs. Completed	

Approval Recommended by: R.E. Thomson, Engineer of Design
Civil Engr. License No. 8439

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

WEST CALWA SPUR UNDERPASS

TYPICAL SECTION

Scale As Noted | Bridge 42-212 | File | Drawing C-6739-5

Disregard prints bearing earlier numbers →

PREL. DRAWING No. P- 6739 | 4 | 15 | 24 | 29 | 40

4F2

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-10-72 SIGNATURE [illegible] TITLE [illegible]

250

ClibPDF - www.fastio.com

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"= 50' 0 100 200 300 400 500 600
SCALE 1"=50' 0 50 100
SCALE 1"= 20' 0 50 100 200
MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"= 20' 0 50 100 200 300

VI	Fre	99

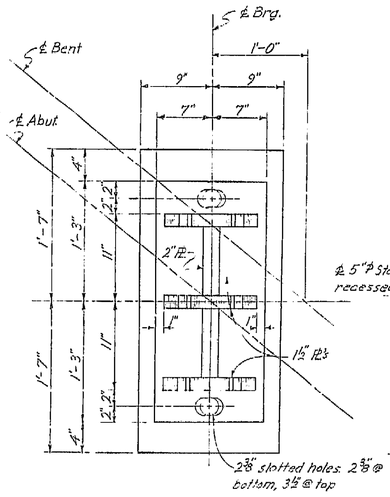
U-006-2(6)
F-006-2(5)

FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
7	CALIF.		253	424

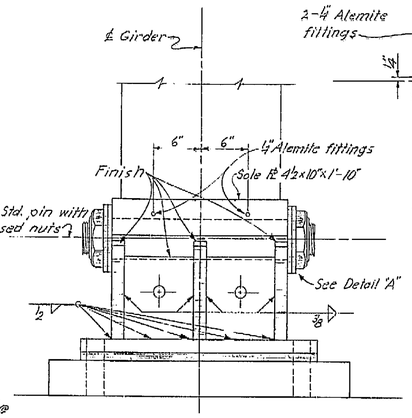
DIST.	COUNTY	ROUTE	SECTION	BRIDGE NO.	TOTAL SHEETS
VI	Fre				

BRIDGE ENGINEER — CIVIL ENGINEER—LICENSE 5265

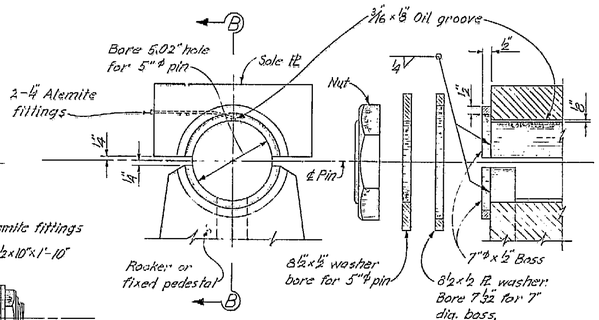
DATE APPROVED August 28, 1961



PLAN

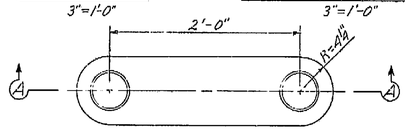


END ELEVATION
ABUTMENT BEARING
(Total 4 req'd.)

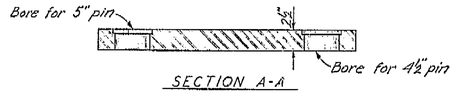


DETAIL "A"
3"=1'-0"

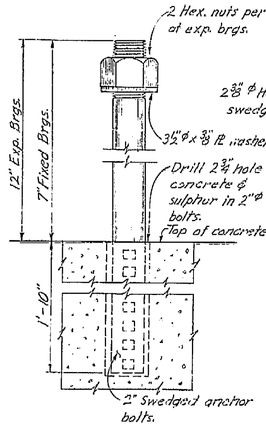
SECTION B-B
3"=1'-0"



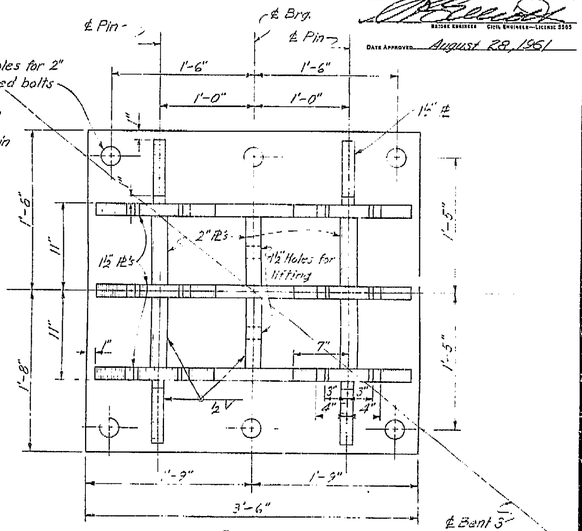
PLAN



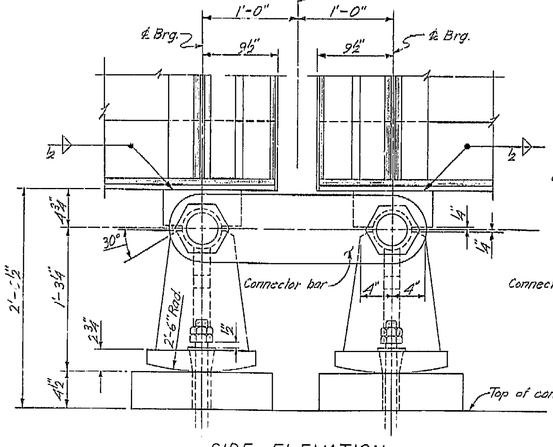
SECTION A-A



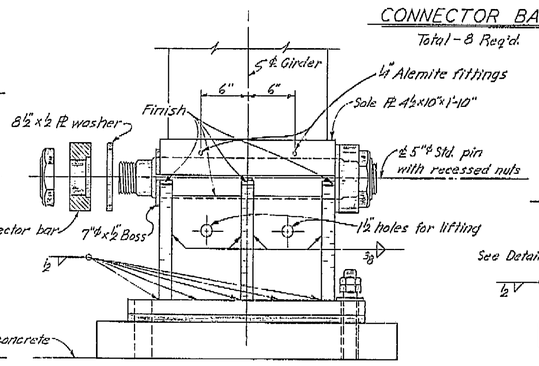
ANCHOR BOLT DETAIL
3"=1'-0"



PLAN



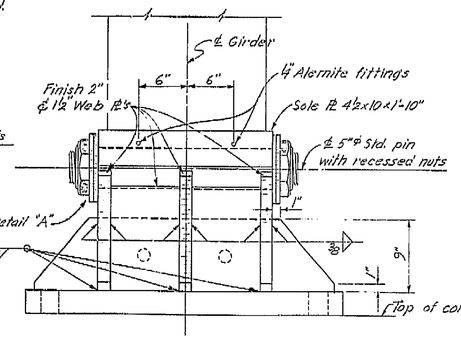
SIDE ELEVATION



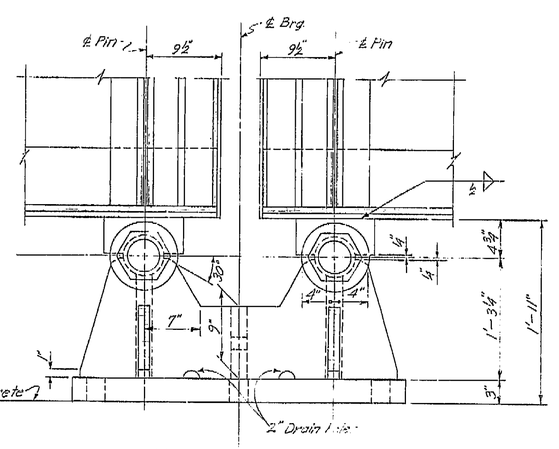
END ELEVATION

EXPANSION BEARING ASSEMBLY
(At Bent 2 & 4, total 4 req'd.)

CONNECTOR BAR
Total - 8 Req'd.



END ELEVATION



SIDE ELEVATION

FIXED BEARINGS
(At Bent #3, total 2 req'd.)

Notes: Assembly to be stress relieved

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" FIELD DATED AS SUBMITTED BY RESIDENT ENGINEER

BRIDGE DEPARTMENT					
DESIGN	By P.C. Cassano 7/60	Checked	W. H. H. 7/60		
DETAILS	By H.N. Dahl 7/60	Checked	W. H. H. 7/60		
QUANTITIES	By [illegible] 7/60	Checked	M. Camacho 7/60		
SPECIFICATIONS	By	Plans and Specs. Checked			
Approval Recommended by	Chief Engr. License No. 5438				

DESIGN SECTION 2
Project Designer
Chief Designer

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

WEST CALWA SPUR UNDERPASS

BEARING DETAILS

1"=1'-0" Except	BRIDGE 42-212	FILE	DRAWING C-6739-B
SCALE As Noted			

Disregard prints bearing earlier numbers →

PREL. DRAWING No. P- 6739

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-11-72 SIGNATURE [illegible] TITLE [illegible]

253

SCALE 1"= 50' 0 100 200 — MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM — SCALE 1"= 50' 300 400 500 600 700 — SCALE 1"= 20' 0 50 100 — MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM — SCALE 1"= 20' 50 200 300

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Vi	Fre	99

U-006-2(6)
F-006-2(5)

FED. ROAD DIV. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
7	CAL.			255	424

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	FRE				

CIVIL ENGINEER—LICENSE 2287
DATE APPROVED August 28, 1961

BM "25.2"
FD "O" ON E. END OF N HDWL.
OR CULV. UNDER SANTA FE TRACK
@ ORANGE AVE.
SET EL. 285.29

N

To Fresno

B-3 — Distance: 99.46 ft — B-2 — Distance: 99.37 ft — B-1

Distance: 11.51 ft

Distance: 10.14 ft

Distance: 7.58 ft

℄ RR LINE

"A" LINE
R = 14000'

To Bakersfield

PLAN

11' LT
"RR" 9+00
B-3
EL. 282.8

10' LT
"RR" 10+00
B-2
EL. 282.1

8' LT.
"RR" 11+00
B-1
EL. 283.1

	B-3	B-2	B-1
280			Compact grey fine silty sand Very dense red-brown cemented sand
270	Slightly compact grey fine sand - little binder - some mica -	Compact grey fine silty sand	Dense grey sandy silt - some cement - Slightly compact grey very fine to fine silty sand - dry - some mica - Dense grey iron stained, dry, fine to very fine sand
260	Slightly compact grey dry very fine micaceous sand - brown medium silty sand -	Compact buff dry sandy micaceous silt	Compact brown medium to fine silty sand
250	Slightly compact to compact brown fine to medium sand	Compact grey dry very fine micaceous silty sand	Compact grey iron stained fine sand - low binder -
240		Slightly compact red-brown fine to very fine silty sand	Dense buff fine micaceous sand Compact brown fine to medium silty sand - good binder -
230	Dense brown coarse silty sand Dense red-brown medium sand	Compact to dense red-brown medium sand	Slightly compact brown micaceous silty very fine sand Dense brown micaceous fine silty sand - good binder -
220	Dense brown fine to medium silty sand	Compact to dense brown fine silty sand	Compact to dense brown medium coarse sand
210			Dense brown fine silty sand

GWS El. 244 10-27-59

GWS El. 240± 10-28-59

10-28-59 — 9

10-27-59 — 10

10-27-59 — 11

PROFILE

AS BUILT PLANS
Contract No. 62-671303
Date Completed
Document No. 6000 1062

FIELD STUDY	1st R. HAGER	10-59
DRAWN	2nd R. SAGE	11-59
CHECKED	3rd R. HAGER	2-60

Approved and accepted by ... Chief, Bridge Department
Date ... Assistant Chief Engineer

CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS

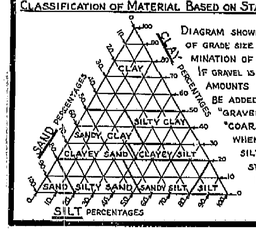


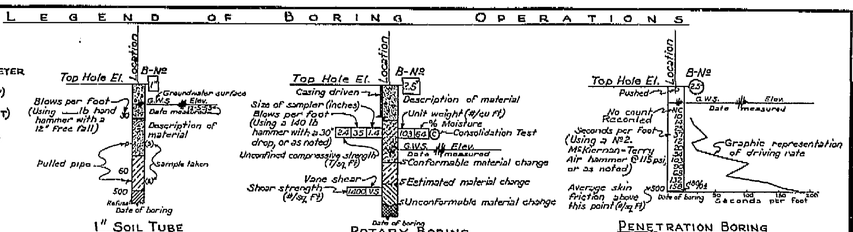
DIAGRAM SHOWING THE BASIS FOR ESTIMATES OF GRADE SIZE DISTRIBUTION USED IN DETERMINATION OF CLASS NAMES.
IF GRAVEL IS PRESENT IN APPRECIABLE AMOUNTS THE TERM "GRAVELLY" MAY BE ADDED TO THE CLASS NAME, VIZ. "GRAVELLY SAND." THE TERMS "COARSE," "MEDIUM" AND "FINE" WHEN USED TO DESCRIBE SAND, SILT AND GRAVEL REFER TO STANDARD GRADE SIZE LIMITS.

LEGEND OF EARTH MATERIALS

- Gravel
- Sand
- Silt
- Clay
- Sandy Clay or Clayey Sand
- Sandy Silt or Silty Sand
- Silty Clay or Clayey Silt
- Peat and/or Organic Matter
- Fill Material
- Igneous Rock
- Sedimentary Rock
- Metamorphic Rock

LEGEND OF BORING OPERATIONS

- Plan of any boring
- Penetrometer
- 2½" Cone Penetrometer
- Sampler boring (DRY)
- Rotary boring (WET)
- Auger boring (DRY)
- Jet boring
- Core boring
- Test pit



NOTES

Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

WEST CALWA SPUR UNDERPASS

LOG OF TEST BORINGS

SCALE 1" = 10'	BRIDGE 42-212	FILE E-42	DRAWING C-6739-10

PREL. DRAWING NO. 6739 D9

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE ... SIGNATURE ... TITLE ...

SCALE 1"=50' MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM SCALE 1"=50' SCALE 1"=20' MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM SCALE 1"=20'

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V1- Fre 99

U-006-2(6)
F-006-2(5)

FED. ROAD DIV. NO	STATE	F. A. PROJECT NO	SHEET NO	TOTAL SHEETS
7	CALIF		245	424

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
7	Fre	99			424

8M.17.8

Assistant State Highway Engineer — Civil Engineer License 5743

Date Approved: August 28, 1961.

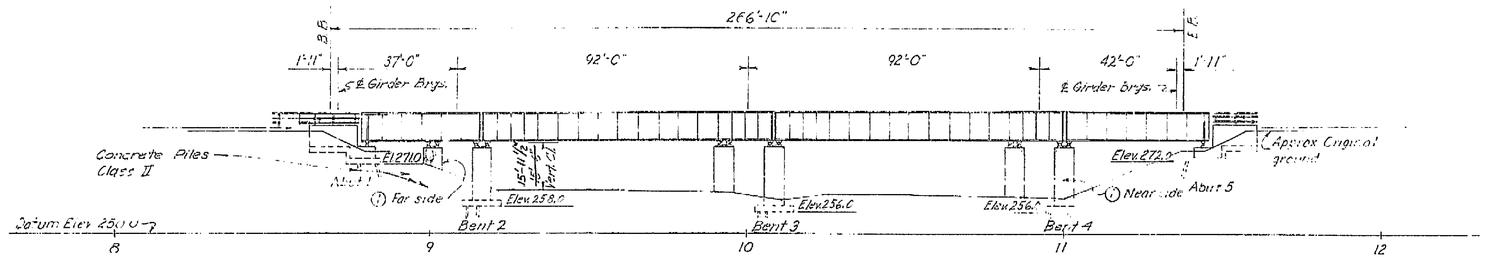
Sta. 8+12.33
Elev. 279.73

+0.33%

Sta. 12+00.00
Elev. 280.05

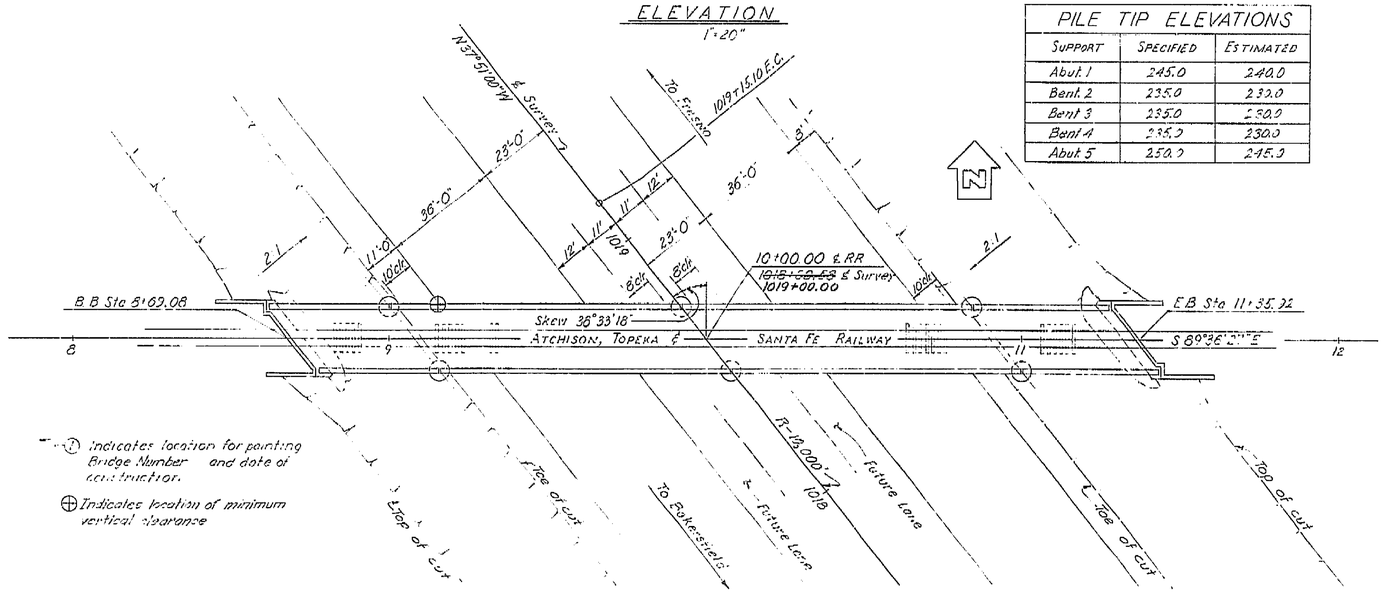
BOTTOM OF BOTTOM FLANGE ANGLE GRADE

See Foundation Plan sheet for top of rail grades



ELEVATION

1"=20'



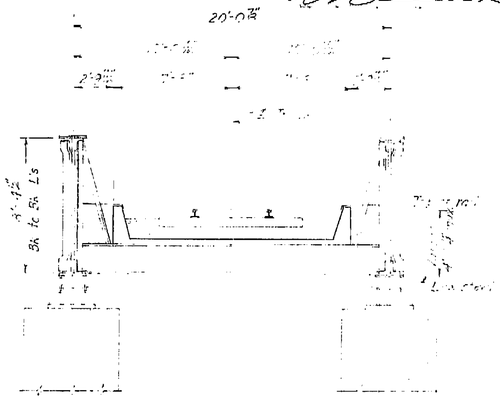
① Indicates location for painting Bridge Number and date of construction.

⊕ Indicates location of minimum vertical clearance

PLAN

1"=20'

PILE TIP ELEVATIONS		
SUPPORT	SPECIFIED	ESTIMATED
Abut 1	245.0	240.0
Bent 2	235.0	230.0
Bent 3	235.0	230.0
Bent 4	235.0	230.0
Abut 5	250.0	245.0



TYPICAL SECTION

1" = 1'-0"

INDEX TO PLAN

SHEET NO.	TITLE
1.	General Plan
2.	Foundation Plan
3.	Abutment Details
4.	Bent Details
5.	Typical Section
6.	Girder Layout
7.	Girder Details
8.	Bearing Details
9.	Pile Details
10.	Log of Test Borings

Note: Route Change (V1-Fre-99)

APPROXIMATE QUANTITIES

*STRUCTURE EXCAVATION (BRIDGE)	780 C.Y.
*STRUCTURE BACKFILL (BRIDGE)	400 C.Y.
FURNISH CONCRETE PILING (CLASS II)	3,565 L.F.
DRIVING CONCRETE PILES	124 EA.
*CLASS "A" CONCRETE (BRIDGE)	510 C.Y.
BUBBLA WATERSTOPS	22 L.F.
*BAR REINFORCING STEEL (BRIDGE)	63,000 LBS.
MEMBRANE WATERPROOFING & PROTECTIVE COVERING	LUMP SUM
*STRUCTURAL STEEL	636,700 LBS.
CLEANING AND PAINTING STRUCTURAL STEEL	LUMP SUM

*FINAL QUANTITIES

For General Notes see "Foundation Plan"

Contract # 62-6T13C3-F1

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

246

LIVE LOADING COOPER'S E-72

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer
Chief Designer M.J. Gaskill

DESIGN	By C.E. Cousins 1/60	Checked	W.H.H. 7/60
DETAILS	By C.E. Cousins 7/60	Checked	W.H.H. 7/60
QUANTITIES	By A. Martinez 7/60	Checked	M. Camacho 9/60
SPECIFICATIONS	By [illegible] 9/60	Checked and Signed Engineer	

Approval Recommended by: [signature] Chief Bridge Engineer

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

WEST CALWA SP&R UNDERPASS
LOCATED ABOUT 14 MILES SOUTHEAST OF THE SOUTH CITY LIMITS OF FRESNO

GENERAL PLAN

SCALE	BRIDGE No.	FILE	DRAWING
As noted			0-6739-1

Disregard prints bearing earlier numbers →

PREL. DRAWING No. P- 6739

424

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

SCALE 1"= 50' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"= 50' SCALE 1"= 20' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"= 20'

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VI	Fre	99

U-006-2(5)
F-006-2(5)

FED. ROAD DIV. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.		254	424

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	99			

August 29, 1961

Min. Shell Thickness 0.1793" 0.1495"

#6 x 3'-0" dowels, tot. 4 (with extension tot. 6)

U-U V-V

#5 tot. 8, extend 1'-6" into pile cap or extension.

W-W

Precast Class "A" Concrete

#6 tot. 8 (Full length of pile)

Y-Y

Precast Prestressed Concrete

#6 x 3'-6" min. tot. 4 (with extension tot. 6)

P=140,000 lbs. min.

Y-Y

#6 tot. 4 (with extension tot. 6)

Z-Z

CLASS I PILES

Scale: 3/4"=1'-0"

Min. Shell Thickness 0.1793" 0.1495"

#6 x 3'-0" dowels, tot. 4

U-U V-V

#5 tot. 6, extend 1'-6" into pile cap.

W-W

#6 tot. 4

Z-Z

CLASS II PILES

Scale: 3/4"=1'-0"

Octagonal or Circular Section, Optional.

#6 tot. 6

X-X

#5 Wire @ 6" pitch

Final Ground Surface

6" min.

Low Water Elev. in Waterways.

Cutoff line

Class "A" P.C.C. Extension

Length of Pile for Payment

PILE EXTENSION

Permitted with Class I Piles only.

Cutoff line

Length for Payment

Steel Shell filled with Class "A" P.C.C.

3/16" V

1/4" max.

3/4" min. R.

Alternative tip shape, at option of Contractor.

ALTERNATIVE "U"

Length for Payment

Tapered Steel Shell filled with Class "A" P.C.C.

8" min.

ALTERNATIVE "V"

4@1" Pitch of Spiral

#8 Wire @ 1"

1'-0"

@ 3"

@ 1"

3'-0" min. Solid Tip

Length for Payment

Concrete Casing filled with Class "A" P.C.C.

8" min.

ALTERNATIVE "W"

4@1" Pitch of Spiral

#5 Wire @ 1"

1/3 Pile Length @ 3"

@ 6"

1/3 Pile Length @ 3"

4@1"

Length for Payment

Precast Concrete Pile

1'-0"

ALTERNATIVE "Y"

Octagonal or Circular Section, Optional.

4'-0" min.

#6, see Note "F".

#5 Wire @ 6" pitch

1/2" max. in 4'-0"

Length for Payment

Step-Tapered Steel Shell filled with Class "A" P.C.C.

8" min.

ALTERNATIVE "Z"

10" min. dia. pipe extension may be used when step taper is 30' or more in length.
Minimum length of extension is 15'.
Minimum thickness of pipe extension=0.1793".

PILE NOTES

Alternative "W" & "Y" may be driven full length and cutoff without extension or may be extended. All exposed piles or pile extensions shall be consistent in cross-section throughout the project.

Alternative "Y" (Precast Prestressed)
P=Prestressing Force (after losses)
Concrete stress:
f'c = 4500 p.s.i. @ 28 days
f'ci = 3500 p.s.i. @ transfer (3/8 strand)
f'ci = 4000 p.s.i. @ transfer (7/16 strand)

Note "F": In Alternative "Z" the #6 bars shall extend a minimum of 12' below the lowest of the following:
1. Bottom of footing
2. Top of final ground surface
3. Top of original ground surface when piles are driven through fills.

Class I piles may be substituted for Class II piles. Unless indicated to the contrary all piles shall be Class I piles.

AS BUILT PLANS
Contract No. 62-671363
Date Completed
Document No. 60001062

DESIGN LOADING = 45 TONS

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINT, DATED _____, AS SUBMITTED BY RESIDENT ENGINEER _____
TRACINGS CORRECTED BY: _____ DATE: _____

BRIDGE DEPARTMENT
DESIGN SECTION

Section Supervisor W.W. Jenkins

DESIGN	R.C.C.	5/60
	W.H.H.	7/60
DETAILS	H.N. Dahl	12/60
	W.H.H.	7/60
QUANTITIES	D.A.S.	9/60
	M.C.	9/60

9/60

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

WEST CALWA SPUR UNDERPASS

CONCRETE PILE DETAILS

SCALE	BRIDGE	FILE	DRAWING
1/2"=1'-0" or as noted	42-212	XS-10-17	C-6739-9

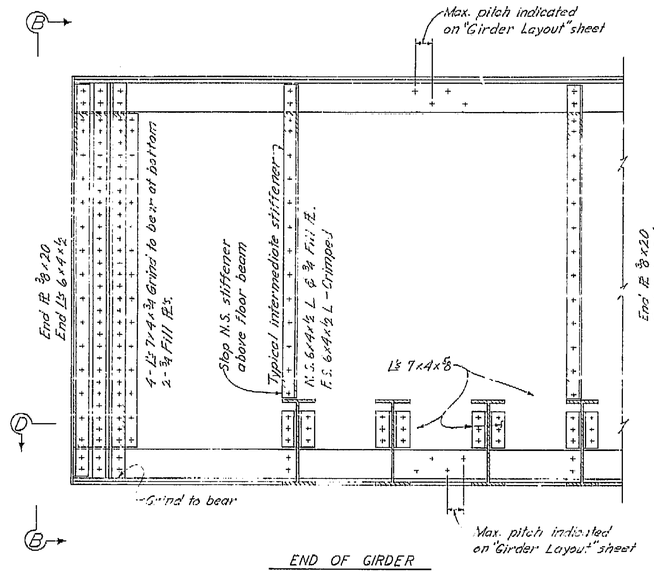
Disregard prints bearing earlier numbers

PREL. DRAWING NO P. 6739 | 33

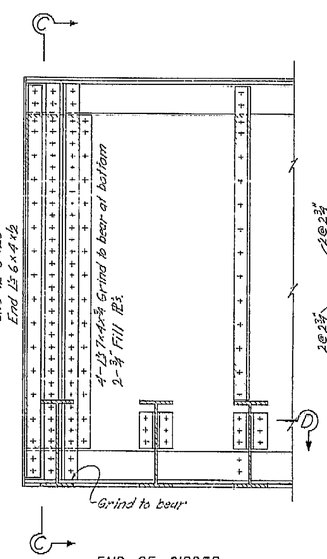
I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-10-72 SIGNATURE _____ TITLE _____

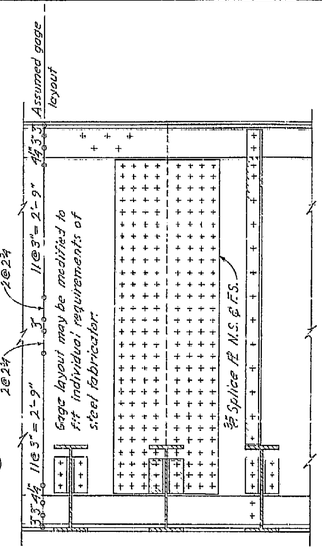
MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"= 50' 0 200 400 600
SCALE 1"= 20' 0 100 200 300
ClibPDF - www.fastio.com



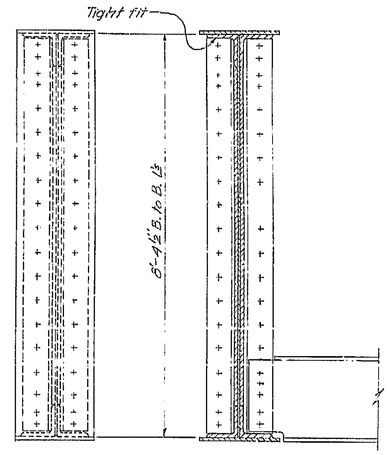
END OF GIRDER
ACUTE CORNERS AT ABUTMENTS ONLY



END OF GIRDER
TYPICAL EXCEPT AS NOTED



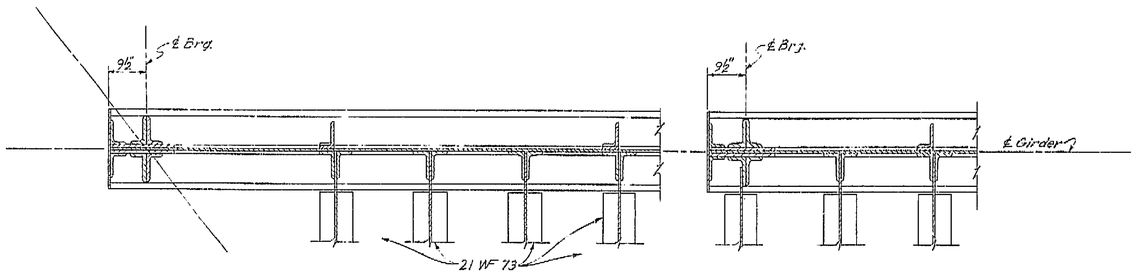
WEB SPLICE
Web splice to be used at option of contractor.



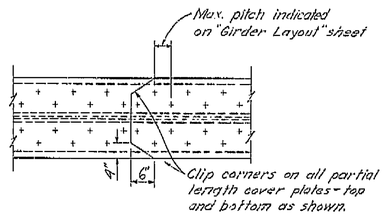
ELEVATION B-B

SECTION C-C

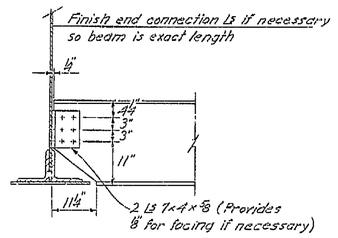
GIRDER ELEVATIONS



SECTION D-D



PLAN - COVER PLATES



TYPICAL FLOOR BEAM CONNECTION
EXCEPT AT BEARING STIFFENERS

AS BUILT PLANS
Contract No. 62-671363
Date Completed
Document No. 6000 1062

BRIDGE DEPARTMENT — DESIGN SECTION 2			
Project Designer: Chief Engr.			
Chief Designer: W. A. Wellwood			
DESIGN	By E.C. Corsiano 9/60	Checked	W. H. H. '60
DETAILS	By H.N. Dahl 9/60	Checked	W. H. H. '60
QUANTITIES	By [illegible] 9/60	Checked	M. Camacho '60
SPECIFICATIONS	By	Form and Steel Compared	
Approval Recommended by: Bridge Engineer (Planning and Design)		Civil Engr. License No. 9439	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

WEST CALWA SPUR UNDERPASS

GIRDER DETAILS

SCALE 3/4" = 1'-0" | BRIDGE 42-212 | FILE | DRAWING C-6739-7

Disregard prints bearing earlier numbers → PREL. DRAWING No. P- 6739 | 5 | 78 | 31

252

4 Pl

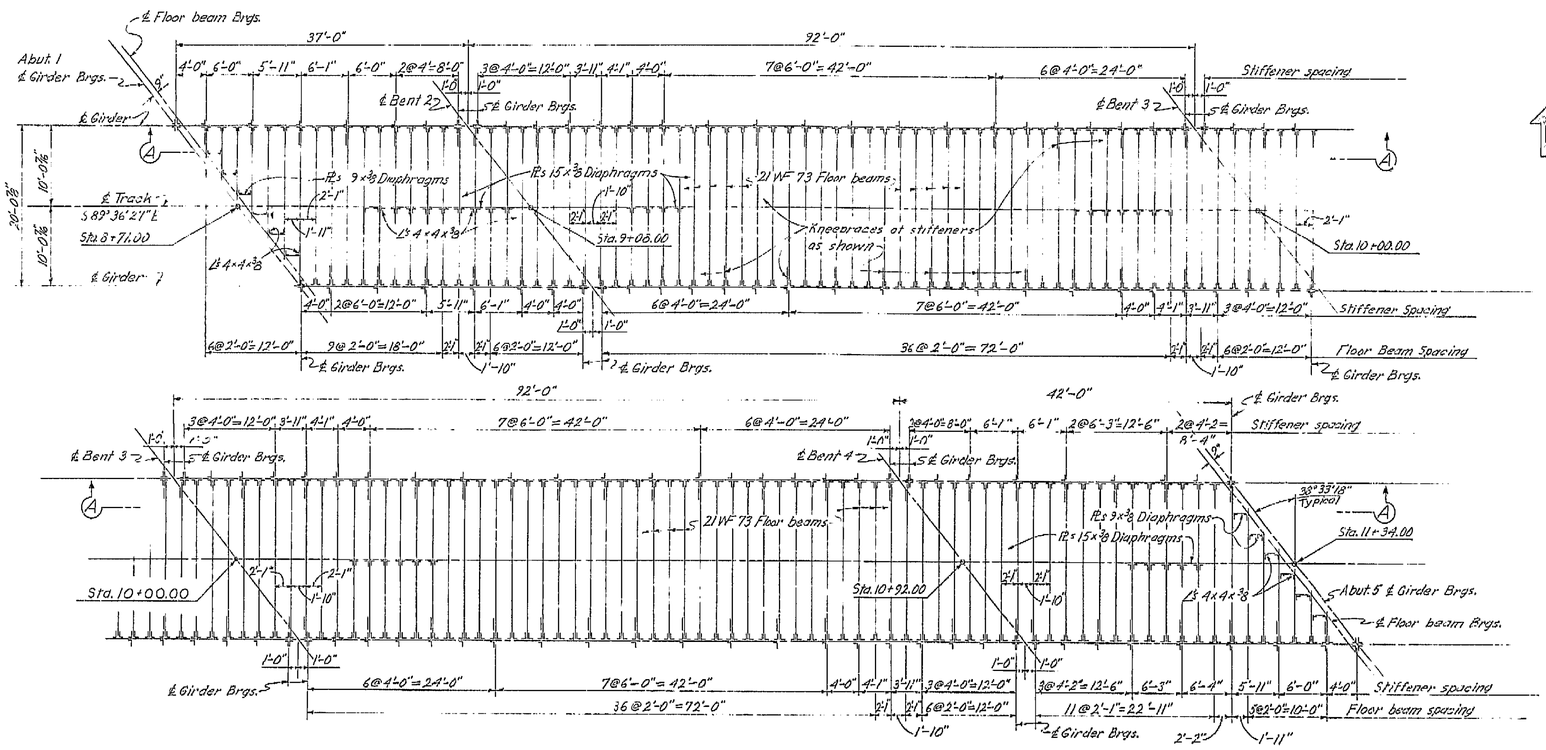
I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-12-72 SIGNATURE [illegible] TITLE [illegible]

ClibPDF - www.fastio.com

SCALE 1"= 50' 0 200 MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM 400 600 SCALE 1"= 50'

SCALE 1"=20' 0 50 100 MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM 200 SCALE 1"=20' 300



STEEL LAYOUT
6"=1'-0"

ELEVATION A-A
⅜"=1'-0"

ELEVATION A-A
⅜"=1'-0"

AS BUILT PLANS
Contract No. 62-671363
Date Completed
Document No. 60001062

BRIDGE DEPARTMENT			
DESIGN SECTION 2			
Project Designer: Earl E. Driver			
Chief Designer: Milo Jacklund			
DESIGN	By R.C. Cassano 3/60	Checked W.H.H. 7/60	
DETAILS	By H.N. Dahl 3/60	Checked W.H.H. 7/60	
QUANTITIES	By Edward Rey 7/60	Checked M. Camacho 7/60	
SPECIFICATIONS	By	Plans and Specs. Completed	
Approval Recommended by: Engineer of Design		Civil Engr. License No. 8439	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

WEST CALWA SPUR UNDERPASS

GIRDER LAYOUT

SCALE As Noted | BRIDGE 42-212 | FILE | DRAWING C-6739-6

Disregard prints bearing earlier numbers → PREL. DRAWING No. P-6739 | 3 | 16 | 23 | 30 | 37

251

48

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-12-22 SIGNATURE [illegible] TITLE [illegible]

ClibPDF - www.fastio.com

SCALE 1"= 50' MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM SCALE 1"= 50' SCALE 1"= 20' MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM SCALE 1"= 20'

California Department of Transportation
Division of Maintenance

Structure Maintenance and Investigations

BRIDGE

INSPECTION

RECORDS

INFORMATION

SYSTEM

The requested documents have been generated by BIRIS.

These documents are the property of the California Department of Transportation and should be handled in accordance with Deputy Directive 55 and the State Administrative Manual.

Records for “Confidential” bridges may only be released outside the Department of Transportation upon execution of a confidentiality agreement.

VI FRE 99

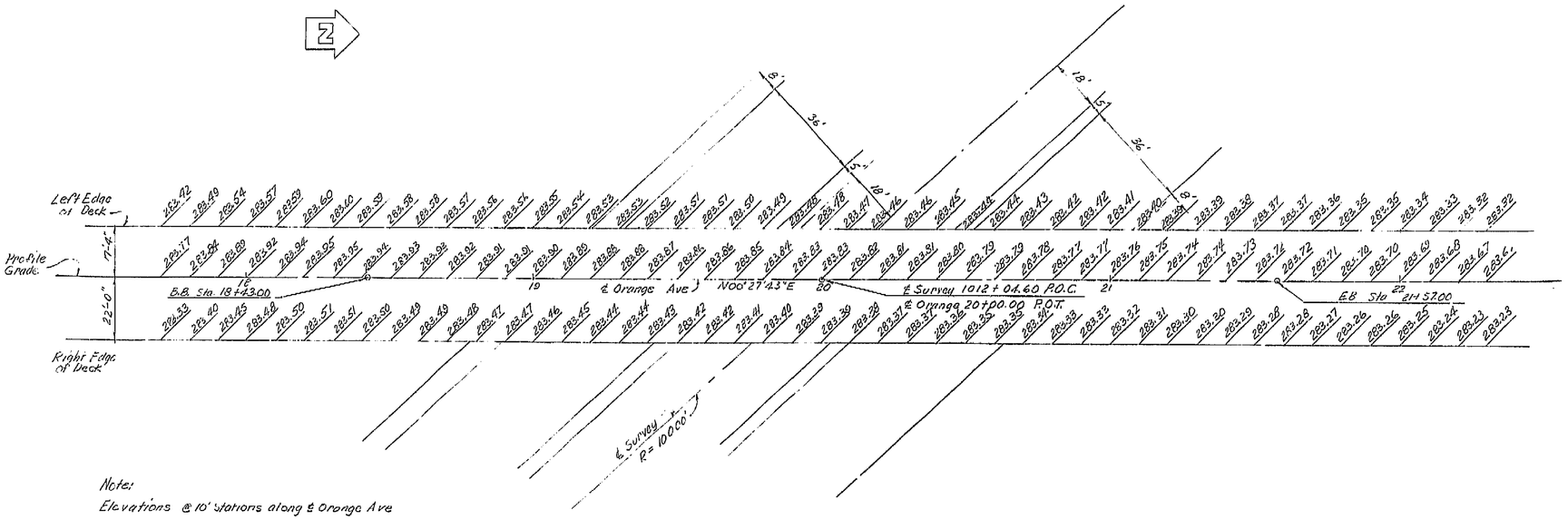
4-006-2(6)
F-006-2(3)

FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.		221	424

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
4	Fre	99	15.5/16.9	2	

BURNS GRINNER CIVIL ENGINEER—LICENSE 5093

DATE APPROVED August 29, 1951



Note:
Elevations @ 10' stations along ℄ Orange Ave
These elevations do not include camber

AS BUILT PLANS
Contract No. 62-671363
Date Completed
Document No. 60001062

THIS AS BUILT PLANS HAS BEEN CORRECTED TO CONFORM TO THE AS BUILT FACTS NOTED AS SUBMITTED BY RESIDENT ENGINEER.

CORRECTED BY: DATE:

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer
Chief Designer

DESIGN	By	8/60	Checked	
DETAILS	By	60	Checked	
QUANTITIES	By	8/60	Checked	8/60
SPECIFICATIONS	By		Plans and Specs. Prepared	

Approval Recommended by
Engineer of Bridges
Civil Engr. License No. 5439

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ORANGE AVENUE OVERCROSSING

GRID OF DECK ELEVATIONS

SCALE 1"=20' | BRIDGE 42-211 | FILE | DRAWING C-6738-2

Disregard prints bearing earlier numbers

PREL. DRAWING No. P-6738 22

453

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-11-72 SIGNATURE TITLE

SCALE 1"= 50' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"= 50' SCALE 1"= 20' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"= 20'
0 200 400 600 0 100 200 300
ClibPDF - www.fastio.com

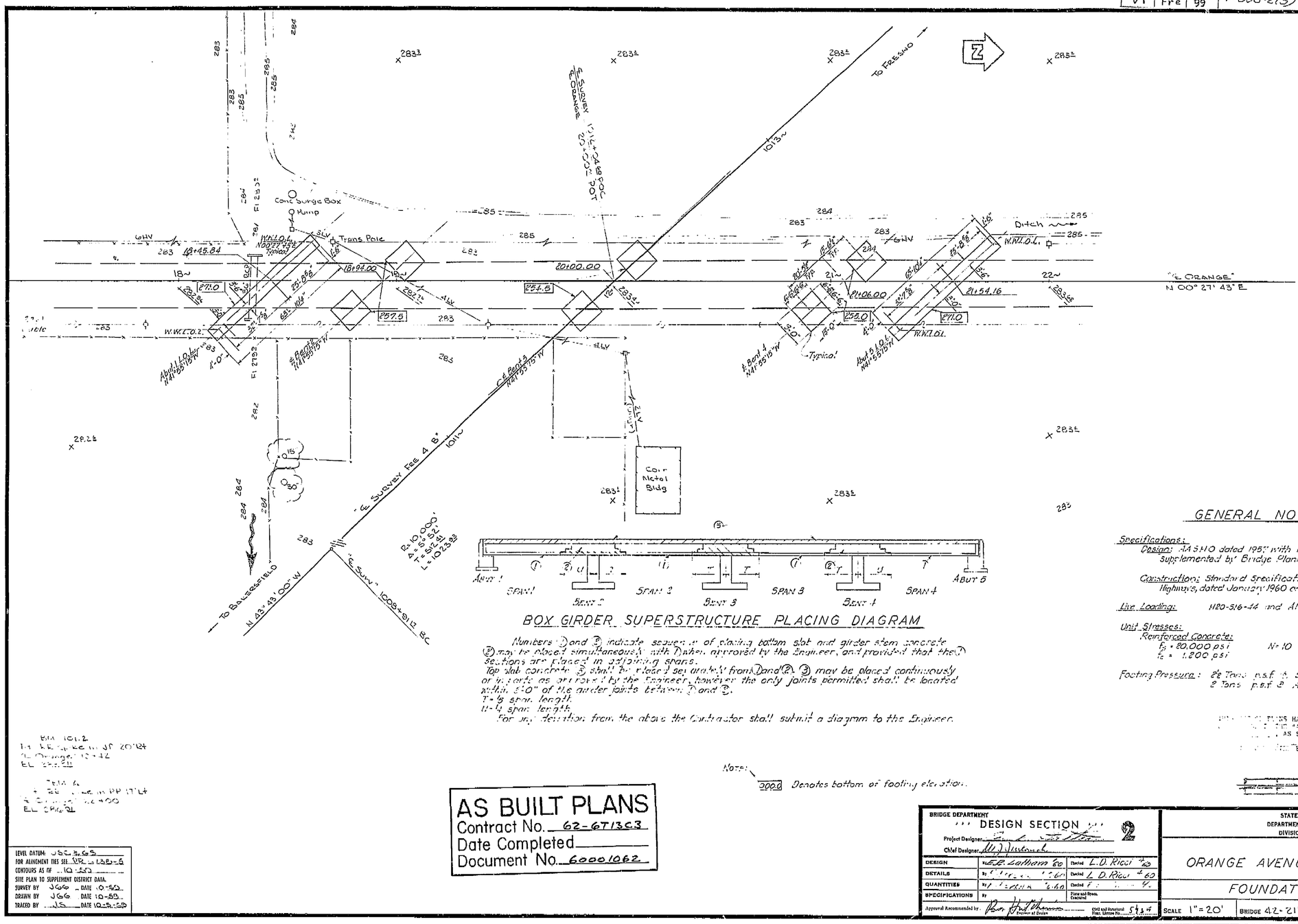
VI	Fre	99	U-006-2(6) F-006-2(5)

FED. ROAD DIV. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			222	434

DIST.	COUNTY	ROUTE	KM/POST	SHEET NO.	TOTAL SHEETS
VI	FRE.	99	30.4/31.1	222	434

Bruno Bordesa — Civil Engineer—License 8585

Date Approved: August 28, 1961



BOX GIRDER SUPERSTRUCTURE PLACING DIAGRAM

Numbers ① and ② indicate sequence of placing bottom slab and girder stem concrete. ② may be placed simultaneously with ① when approved by the Engineer, and provided that the ① sections are placed in adjoining spans.
Top slab concrete ③ shall be placed separately from ① and ②. ③ may be placed continuously or in parts as approved by the Engineer, however the only joints permitted shall be located within 5'-0" of the girder joints between ② and ③.
T = ¼ span length.
U = ¼ span length.
For any deviation from the above the Contractor shall submit a diagram to the Engineer.

GENERAL NOTES

Specifications:
Design: AASHO dated 1957 with revisions and as supplemented by Bridge Planning and Design Manual.
Construction: Standard Specifications, Division of Highways, dated January 1960 and the Special Provisions.

Live Loading: H20-S16-44 and Alternative

Unit Stresses:
Reinforced Concrete:
f_c = 20,000 psi N = 10
f_s = 1,200 psi

Footing Pressure: 6 Tons p.s.f. @ Bents
2 Tons p.s.f. @ Abuts.

THIS SET OF PLANS HAS BEEN CORRECTED TO AGREE WITH AS BUILT FIELD CONDITIONS AS SUBMITTED BY RESIDENT

BY _____ DATE _____

Note: 300.0 Denotes bottom of footing elevation.

BM 101.2
Top Bolt in NE Corner of Conc. Pad at Power Pole #42
EL 292.21

TBM 6
Top Bolt in PP 17'L+ & 2'+ from Power Pole #400
EL 284.21

LEVEL DATUM: USC & GS
FOR ALIGNMENT TIES SEE: 99 - L38-5
CONTOURS AS OF 10-59
SITE PLAN TO SUPPLEMENT DISTRICT DATA.
SURVEY BY JGG DATE 10-59
DRAWN BY JGG DATE 10-59
TRACED BY JS DATE 10-5-59

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

222

BRIDGE DEPARTMENT — DESIGN SECTION			
Project Designer: E. L. Latham			
Chief Designer: W. J. Dimmick			
DESIGN	By E.L. Latham '60	Checked L.D. Ricci '60	
DETAILS	By [illegible] '60	Checked L.D. Ricci '60	
QUANTITIES	By [illegible] '60	Checked [illegible]	
SPECIFICATIONS	By	Plans and Specs. Completed	
Approval Recommended by: [illegible] Engineer of Design		Civil and Structural Engr. License No. 5434	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ORANGE AVENUE OVERCROSSING

FOUNDATION PLAN

SCALE 1" = 20' | BRIDGE 42-211 | FILE: #2 | DRAWING B-6758-3

STRUCTURE NO. P-0738 | 8 | 18N7 | 57 | PR 6758-3 454

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-12-72 SIGNATURE [signature] TITLE SR RMO

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50'
SCALE 1" = 20'
ClibPDF - www.fastio.com

VJ	Fre	99

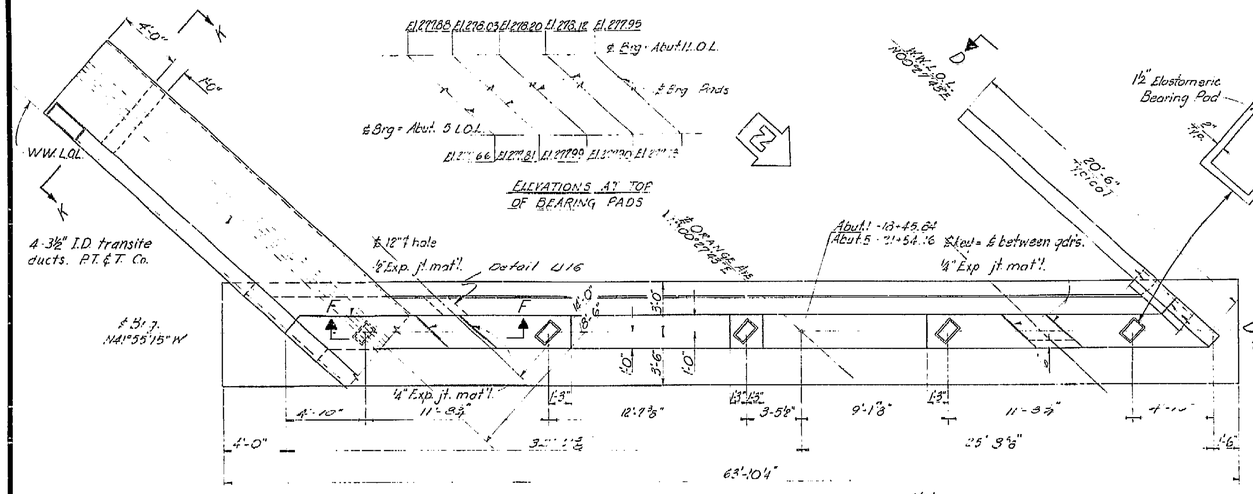
U-006-2(6)
F-006-2(5)

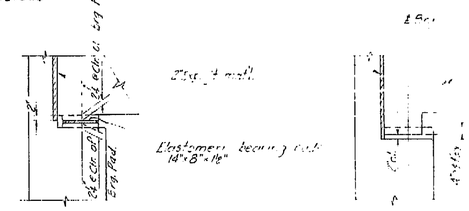
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7	CALIF.			223	431

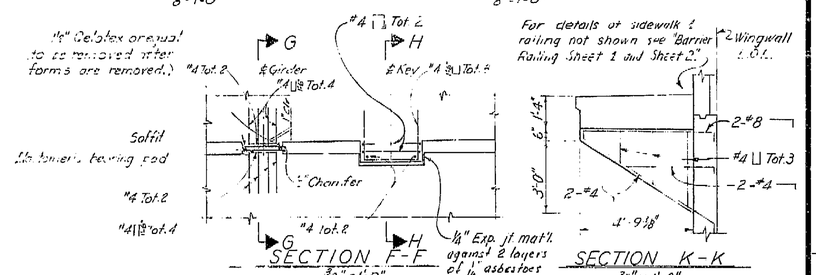
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
12	ORA	71	0	4	WATERLOO

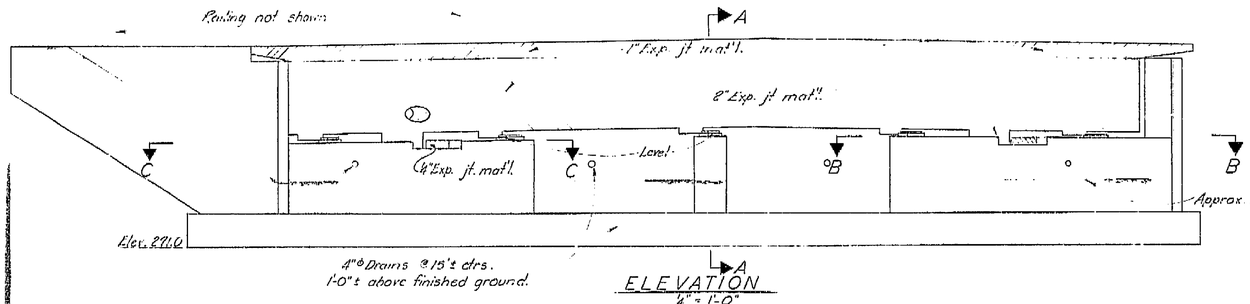
RUSSELL REVERES — CIVIL ENGINEER — LICENSE 5085

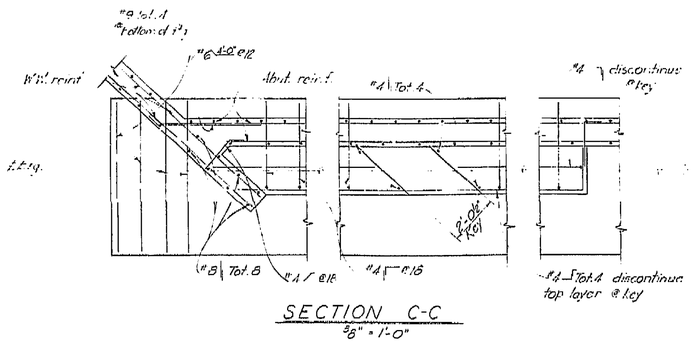
DATE APPROVED August 29, 1961

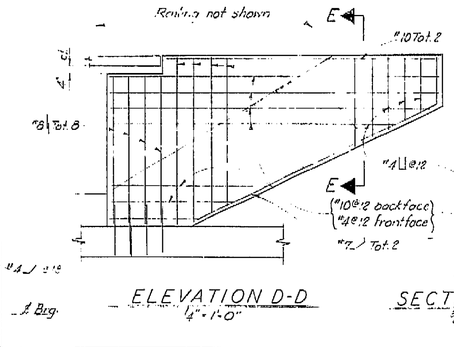


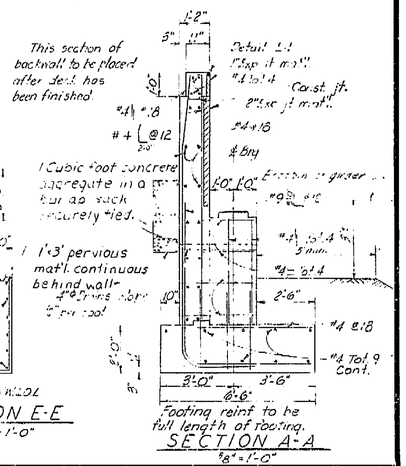












BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer: Fred Li
Chief Designer: M.V. Quadros

DESIGN	By K.H. Quadros 3/60	Checked	L.D. Ricci 6/60
DETAILS	By R. Klensang 3/60	Checked	L.D. Ricci 6/60
QUANTITIES	By C. Lazzarini 6/60	Checked	C. Lazzarini 6/60
SPECIFICATIONS	By	Checked	Final and Revis. Completed

Approved Recommended by: Engineer of Design — Checked and Recommended Engr. Service No. 5438 4/85

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ORANGE AVENUE OVERCROSSING

ABUTMENT DETAILS

SCALE	As Noted	BRIDGE	48-611	FILE		DRAWING	C-6738-4

Disregard prints bearing earlier numbers →

PREL. DRAWING No. P-6738 | 14 | 13 | 12 | 33 | 5/12 |

AS BUILT PLANS
Contract No. 62-671303
Date Completed
Document No. 6000106 2

223

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-13-72 SIGNATURE [illegible] TITLE [illegible]

ClibPDF - www.fastio.com

SCALE 1"= 50' 0 200 MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM 400 SCALE 1"= 50' 600 SCALE 1"= 20' 0 MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM 100 200 SCALE 1"= 20' 300

U-006-2(6)
F-006-2(5)

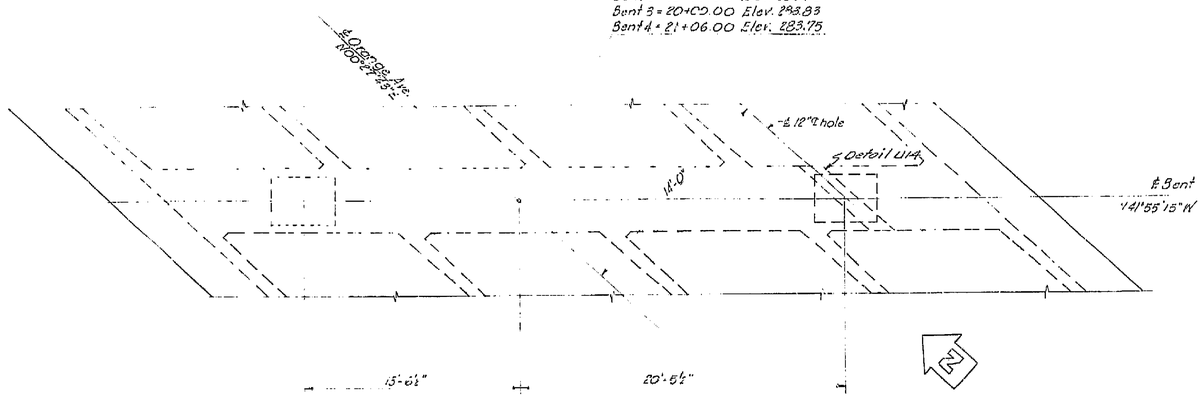
FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			224	424

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	99			

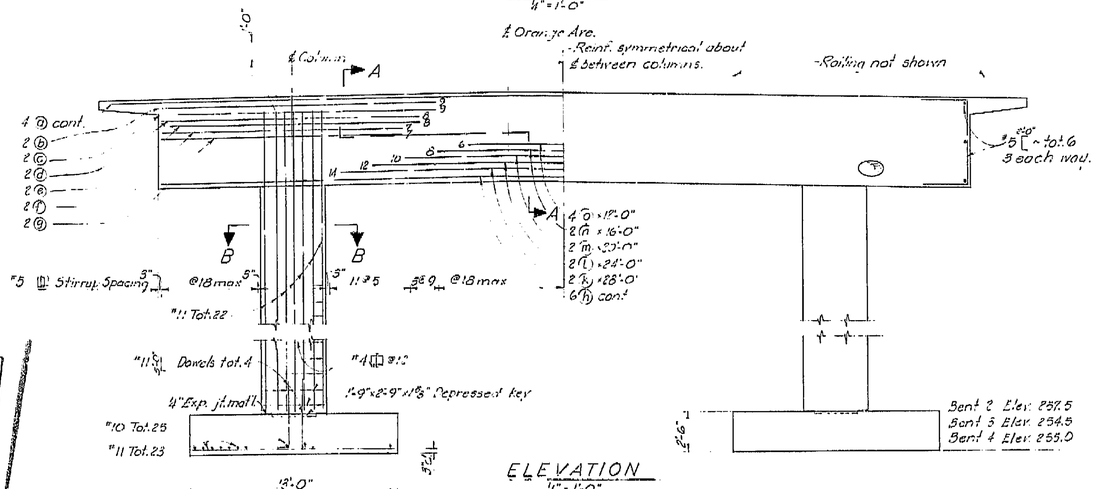
BRIDGE ENGINEER — CIVIL ENGINEER—ELECTRICAL ENGR.

DATE APPROVED August 28 1961

Bent 2 = 18+94.00 Elev. 283.90
Bent 3 = 20+00.00 Elev. 283.83
Bent 4 = 21+06.00 Elev. 283.75

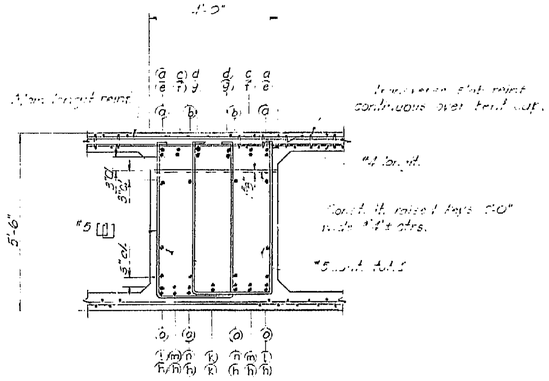


PLAN
1" = 1'-0"

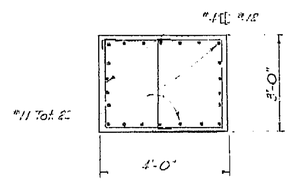


ELEVATION
1" = 1'-0"

FOOTING PLAN
1" = 1'-0"



SECTION A-A
3/8" = 1'-0"



SECTION B-B
3/8" = 1'-0"

Notes: All bars are #11 except as noted. Numbers at ends of bars indicate distance in feet from ℄ col. for top reinf. or from ℄ between columns for bottom reinf.

THIS SET OF PLANS HAS BEEN CORRECTED TO AGREE WITH THE AS BUILT PLANS AS PREPARED BY RES'D

AS BUILT PLANS
Contract No. 62-671303
Date Completed
Document No. 6000062

BRIDGE DEPARTMENT — DESIGN SECTION 2		
Project Designer E. L. Latham		
Chief Designer M. J. Jurkovich		
DESIGN	By E. R. Latham 6-60	Checked L. D. Ricci 7-60
DETAILS	By [illegible] 7-60	Checked L. D. Ricci 7-60
QUANTITIES	By L. J. Sullivan 7-60	Checked [illegible]
SPECIFICATIONS	By	Checked Steel and Prestr. Company
Approval Recommended by [illegible] Engineer of Design		Chief and Assistant Engr. License No. 1438 485

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ORANGE AVENUE OVERCROSSING

BENT DETAILS

SCALE As Noted	BRIDGE 42-511	FILE	DRAWING C-673A-5 1

Disregard prints bearing earlier numbers → PREL. DRAWING No. P- 1755 5/14/59 5/12

458

224

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-12-72 SIGNATURE [illegible] TITLE [illegible]

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

ClibPDF - www.fastio.com

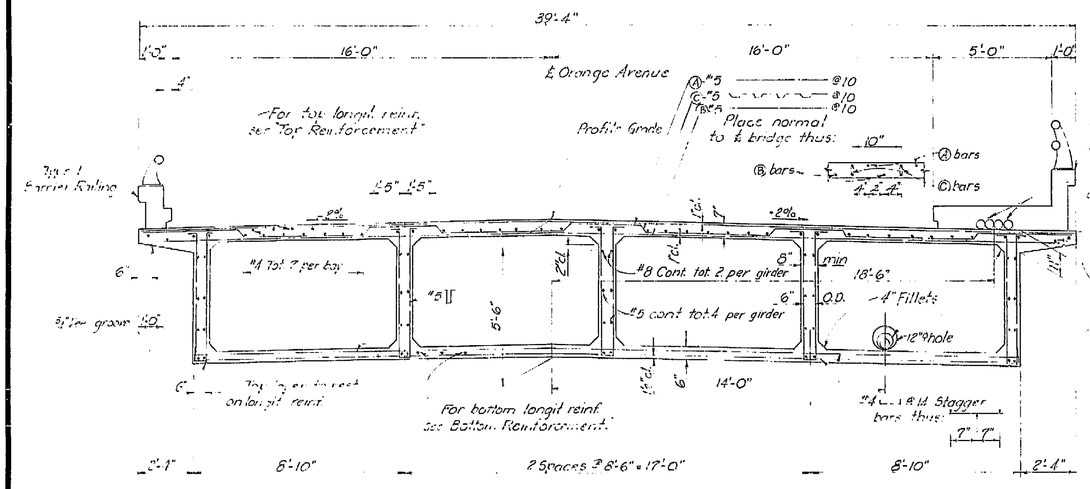
U-006-2(6)
F-006-2(6)

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			225	424

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	99			

ANDRE CARRIERE — CIVIL ENGINEER — LICENSE EXPIRES

DATE APPROVED August 29, 1961

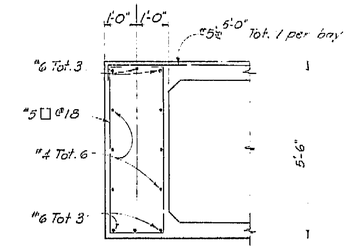


TYPICAL SECTION
3/8" = 1'-0"

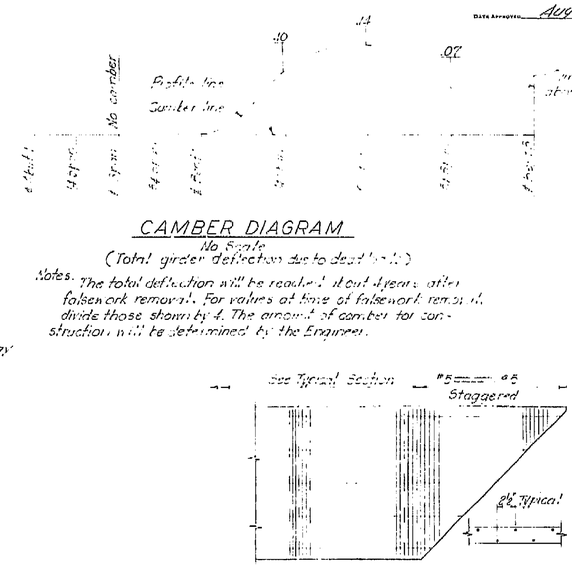
Type 5 Barrier Railing
For reinf. not shown see "Barrier Railing" sheets.

4-3½" I.D. transite ducts, P.T.T. Co.

4" H.P. gas line in 8" casing



SECTION A-A
1" = 1'-0"



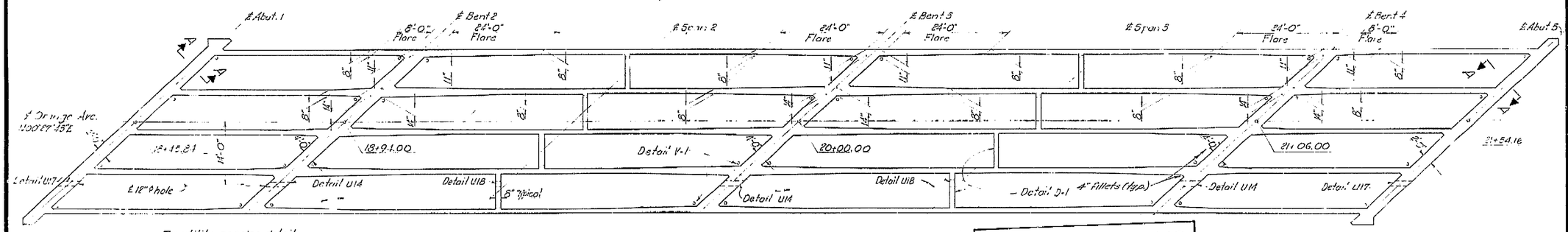
TYPICAL TRANSVERSE REINFORCEMENT TOP SLAB AT ABUTMENT



CAMBER DIAGRAM
No Scale
(Total girder deflection due to dead load)

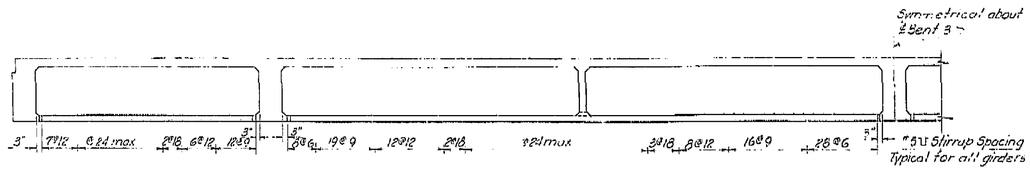
Notes. The total deflection will be reached about 4 years after falsework removal. For values at time of falsework removal divide those shown by 4. The amount of camber for construction will be determined by the Engineer.

Z



For utility opening details see "Standard Utility Details No." sheet.

GIRDER LAYOUT
No Scale



LONGITUDINAL SECTION
No Scale

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

THIS SET OF PLANS HAS BEEN CORRECTED TO REFLECT CHANGES MADE BY CHANGE ORDERS PRIOR TO PRINTING DATE 4-63 AND SUBSEQUENT CHANGES NOTED BY RESIDENT ENGINEER'S CORRECTIONS DATED 11-63

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer: Earl E. Latham
Chief Designer: M. J. Jurkovich

DESIGN	By E. E. Latham '60	Checked L. D. Ricci '60
DETAILS	By [illegible] '60	Checked L. D. Ricci '60
QUANTITIES	By [illegible] '60	Checked [illegible] '60
SPECIFICATIONS	By	Plans and Report Compared
Approved Recommended by	Chief of Design	Civil and Structural State License No. 5339

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ORANGE AVENUE OVERCROSSING

TYPICAL SECTION & GIRDER LAYOUT

SCALE	BRIDGE	FILE	DRAWING
As Noted	12-211		C-6738-6

Disregard prints bearing earlier numbers →

PREL. DRAWING No. P-5725 | 6 | 5 | 60

457

225

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-12-72 SIGNATURE [illegible] TITLE [illegible]

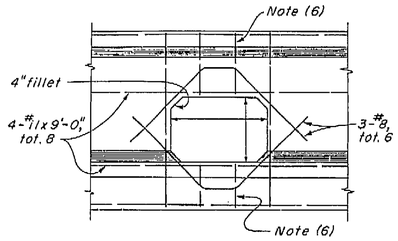
ClibPDF - www.fastio.com

SCALE 1"= 50' MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM SCALE 1"= 20'

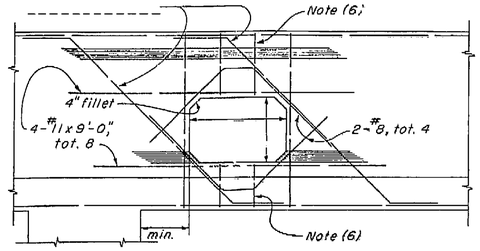
APPROVED August 28, 1961

STANDARD DRAWING
DETAILS

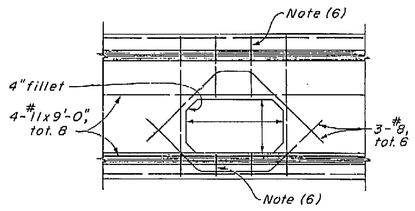
STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS
BRIDGE DEPARTMENT



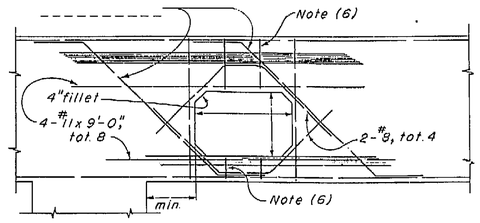
TYPICAL
DETAIL U1



NEAR COLUMN
DETAIL U2

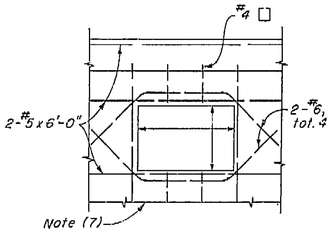


TYPICAL
DETAIL U3

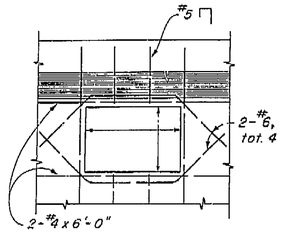


NEAR COLUMN
DETAIL U4

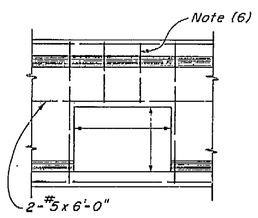
BENT CAP



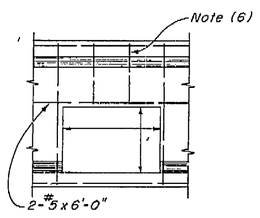
RIGID FRAME
DETAIL U5



CANTILEVER TYPE
DETAIL U6

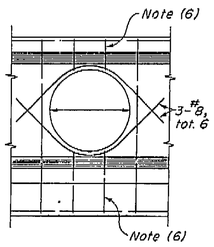


END
DETAIL U7

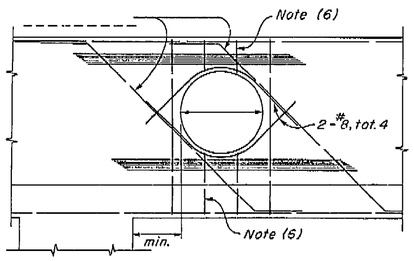


INTERMEDIATE
DETAIL U8

ABUTMENT BACKWALL

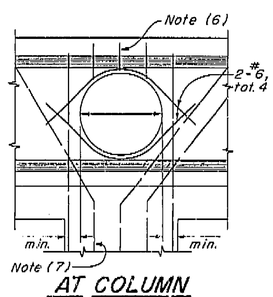


TYPICAL
DETAIL U9

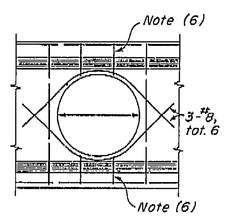


NEAR COLUMN
DETAIL U10

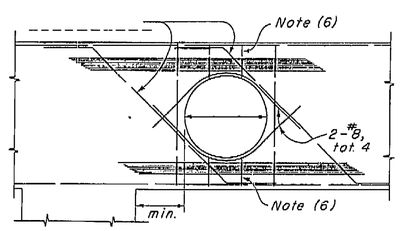
DIAPHRAGMS



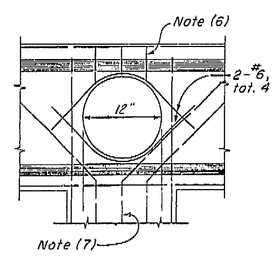
AT COLUMN
DETAIL U11



TYPICAL
DETAIL U12

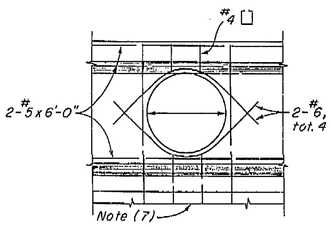


NEAR COLUMN
DETAIL U13

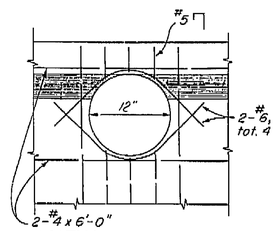


AT COLUMN
DETAIL U14

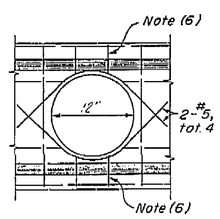
BENT CAP



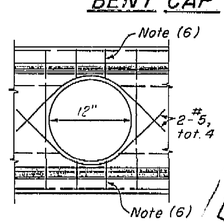
RIGID FRAME
DETAIL U15



CANTILEVER TYPE
DETAIL U16



END
DETAIL U17



INTERMEDIATE
DETAIL U18

ABUTMENT BACKWALL

DIAPHRAGMS

NOTES

(1) For exact location and direction of openings see other sheets.
(2) Location and size of utility openings may be modified as directed by the Engineer, provided minimum dimensions are maintained.
(3) Girders not shown, see other sheets.
(4) Seal around utilities at abutments to be of sufficient strength to withstand earth pressure.
(5) All reinforcement detailed to be placed in addition to reinforcement shown on other sheets.
(6) Stirrups are same size as adjacent stirrups shown on other sheets.
(7) Main reinforcement to clear opening as detailed on other sheets.

AS BUILT PLANS
Contract No. 62-617363
Date Completed 6-30-1962
Document No. 6000162

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED ____ AS SUBMITTED BY RESIDENT ENGINEER.
PLANS CORRECTED BY ____ DATE ____

BRIDGE DEPARTMENT
DESIGN SECTION
PROJECT DESIGNER E. R. Abraham
CHIEF DESIGNER M. J. Gerhardt

DESIGN	BY E. R. Abraham '60	CHECKED L. D. Ricci '60	
DETAILS	BY F. Forsman '60	CHECKED L. D. Ricci '60	
QUANTITIES	BY F. Forsman '60	CHECKED	
SPECIFICATIONS	BY	PLANS AND SPECS COMPARED	

APPROVAL RECOMMENDED BY ____ Engineer of Design
Civil Engineer License No. 5437

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ORANGE AVENUE OVERCROSSING

STANDARD UTILITY DETAIL NO. 1

SCALE None | BRIDGE 43-811 | XS-6-49 FILE | DRAWING C-6738-9

PREL. DRAWING NO. P-[illegible] 63

228

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE ____ SIGNATURE ____ TITLE ____

ClibPDF - www.fastio.com
MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"= 50' 0 200 400 600
SCALE 1"= 20' 0 50 100
MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"= 50' 0 200 400 600
SCALE 1"= 20' 0 50 100 200 300

VI	Fre	99

U-006-2(6)
F-006-2(3)

FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
7	CALIF.		232	424

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	4-41	Pm-R 12.2	13	13

DISTRICT ENGINEER

DATE APPROVED August 29, 1961

PROFILE GRADE

-0.07%

Sta 178+00.00
Elev. 283.31

100' V.C.

Sta 181+00.00
Elev. 283.95

Total Length = 314'-0"

51'-0" | 106'-0" | 106'-0" | 51'-0"

B.B. E.B.

Approximate Original Ground Along ℄ Orange Ave.

Elev 271 ±

Elev 259 ±

Elev 257 ±

Elev 256 ±

Elev 271 ±

Abut 1 | Bent 2 | Bent 3 | Bent 4 | Abut. 5

Datum Elev = 230.0

18 19 20 21

ELEVATION

1" = 20'

TYPICAL SECTION

3/16" = 1'-0"

℄ Orange Ave.

39'-4"

1'-6" | 4" | 16'-0" | 16'-0" | 5'-0" | 1'-0"

Type 1 Barrier Railing

Profile Grade

Type 4 Barrier Railing

1½" Conduit

-6%

-6%

4 @ 8'-6" = 34'-0"

Note: This plan accurate for highway lighting only.

For additional notes see Sheet No. ES-7-4

PLAN

1" = 20'

Top of Cut

Toe of Cut

2:1

Detail C

Detail "X"

1½" Conduit

Type 1 Pull Box

℄ Survey 1018+04.60 P.O.C.
℄ Orange 201+00.00 P.O.T.

℄ Survey - Fre - 4-B
R = 10,000'

To BAKERSFIELD

To FRESNO

N. 45°43'00" W.

℄ Surv 1008+91.17 B.C.

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60091062

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer: Earl E. Fullerton
Chief Designer:

DESIGN	By:	Checked
DETAILS	By: K.C. Blechinger '60	Checked
QUANTITIES	By:	Checked
ELECTRICAL	By:	Plans and Specs Compared

Approval Recommended by: Engineer of Design — Civil Engr. License No. 8494

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ORANGE AVENUE OVERCROSSING

LOCATED ABOUT 1.5 MILES SOUTHEAST OF THE SOUTH CITY LIMIT OF FRESNO

LIGHTING - PLAN

SCALE: As Noted | BRIDGE 42-211 | FILE | DRAWING C-6738-13

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL RECOMMENDED BY	DATE
O.E. Schubert	10/61	E.E. Fullerton	10/61		9/61

Disregard prints bearing earlier numbers →

PREL. DRAWING No. P- 673-3 1

464

232

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

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MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

VI	FRE	99	U-006-2(6) F-006-2(3)	FED. ROAD DIV. NO. 7	STATE CALIF.	F. A. PROJECT No.	SHEET NO. 220	TOTAL SHEETS 434

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	99	B	19	434

August 28, 1961

DATE APPROVED

APPROXIMATE QUANTITIES

*STRUCTURE EXCAVATION (BRIDGE)	710 C.Y.
*STRUCTURE BACKFILL (BRIDGE)	370 C.Y.
*CLASS "A" CONCRETE (BRIDGE)	1,130 C.Y.
*BAR REINFORCING STEEL (BRIDGE)	297,000 LBS.
BARRIER RAILING (TYPE 1)	349 L.F.
BARRIER RAILING (TYPE 5)	349 L.F.

*FINAL QUANTITIES

P.M. 17.7

Sta 17+15.00 Elev 283.31

100' V.C.

Sta 18+42.00 Elev 283.95

-0.07%

PROFILE GRADE

Total Length = 314'-0"

51'-0" | 106'-0" | 106'-0" | 51'-0"

B.B. E.B.

Approximate Original Ground Along ℄ Orange Ave.

Elev 271.0

Elev 267.5

Elev 264.5

Elev 266.0

Elev 271.1

15'-9½" Min

① ② Far Side

① ② Near Side

Abut 1 | Bent 2 | Bent 3 | Bent 4 | Abut. 5

Datum Elev = 230.0

18 | 19 | 20 | 21

ELEVATION

1" = 20'

℄ Orange Ave

1-3½" C.I. transite ducts C.T.E.T.Co.

39'-4"

1'-0" | 4" | 16'-0" | 16'-0" | 5'-0" | 1'-0"

Type 1 Barrier Railing

Profile Grade

-2% -2%

Type 5 Barrier Railing

14'-0"

4'-4½" | 2'-8" | 3'-6"

4" H.P. gas line in 8" casing. PG&E.

4 @ 4'-6" = 54'-0"

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

Z

Top of Cut | Toe of Cut | 2:1 | 10' Ditch | 15' | 36' | 19' | 8' | 47°37'00" Skew | ℄ Survey 1018+04.60 P.O.C.: ℄ Orange 20+00.00 P.O.T. 1013

B.B Sta 18+43.00 Elev 283.94

32'-0" Adopt

1010.60

℄ ORANGE AVE N.00°27'43"E

E.B Sta 21+57.00 Elev 283.78

1 2 3 4 5 6 7 8 9 10 11 12 13

① ②

To Bakersfield | To Fresno

℄ Survey - Fre-4-B R = 10,000' 1011

N.43°34'00"W. | ℄ Survey 1008+91.17 B.C.

PLAN

1" = 20'

Final Ties to Monuments - Copper Nails

1. 284.551	9. 284.553
2. 284.527	10. 284.371
3. 284.524	11. 284.345
4. 284.522	12. 284.325
5. 284.560	13. 284.313
6. 284.497	14. 286.363
7. 284.441	15. 286.638
8. 284.443	

Curve Data - ℄ Survey
R = 10,000'
Δ = 5°52'00"
T = 512.41'
L = 1023.98'

Live Loading: H20-S16-44 And Alternative

① Indicates location for painting "Bridge Number and year constructed."
② Indicates location for painting "Orange Ave Overcrossing"

TYPICAL SECTION

3/16" = 1'-0"

INDEX

Sheet No.	Title
1	General Plan
2	Grid of Deck Elevations
3	Foundation Plan
4	Abutment Details
5	Bent Details
6	Typical Section & Girder Layout
7	Girder Reinforcement
8	Standard Details No.1
9	Standard Utility Details No.1
10	Barrier Railing Sheet 1
11	Barrier Railing Sheet 2
12	Log of Test Borings
13	[illegible]

Note: Route Change (VI-Fre-99)

THIS SET OF PLANS HAS BEEN CORRECTED TO CONFORM TO THE "AS BUILT" PRINTS DATED 4-8-63 AS SUBMITTED BY RESIDENT ENGINEER J.W. Beck
THIS WORK CORRECTED BY: DJL DATE: 11-20-63

Contract # 62-6T13C3-F

For General Notes see "Foundation Plan"

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer
Chief Designer

DESIGN	By E.E. Latham '60	Checked	L.D. Ricci '60
DETAILS	By K.C. Blechinger '60	Checked	D. Ricci '60
QUANTITIES	By	Checked	
SPECIFICATIONS	By	Checked	Plans and Spec. COMPLETE

Approval Recommended by: Engineer of Design — Civil Engr. License No. 5439

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ORANGE AVENUE OVERCROSSING

LOCATED ABOUT 1.5 MILES SOUTHEAST OF THE SOUTH CITY LIMIT OF FRESNO

GENERAL PLAN

SCALE: AS NOTED | BRIDGE 42-211 | FILE | DRAWING C-673A-1 1

Disregard prints bearing earlier numbers → PREL. DRAWING No. P- 673-3 X 2 VI 220 36

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE [illegible] SIGNATURE [illegible] TITLE [illegible]

220

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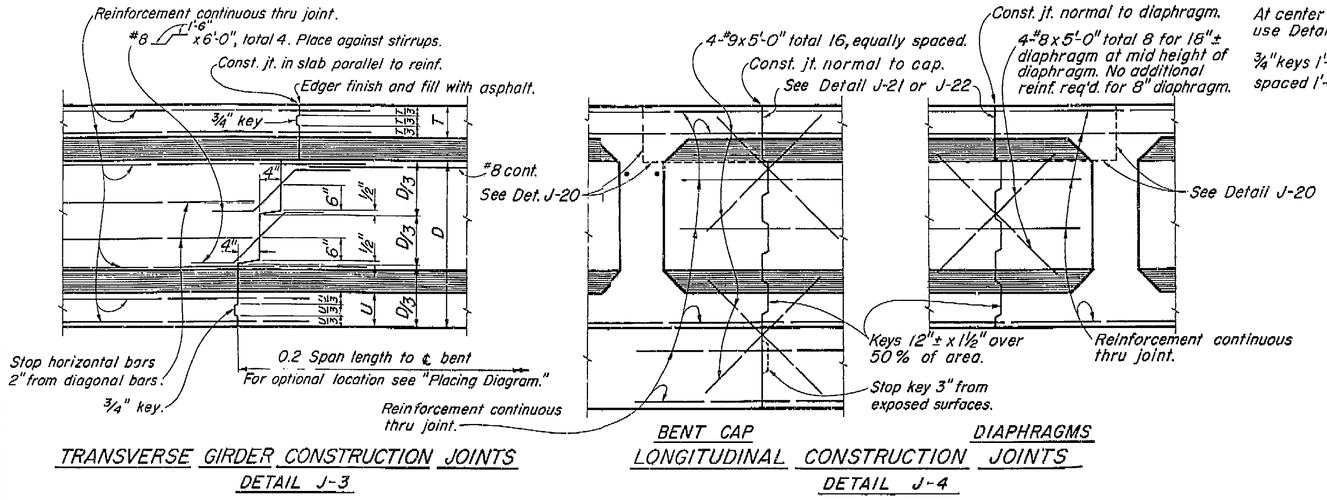
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Revision: 9-22-60
Made #8 bar cont. in Detail J-1

DIST	COUNTY	ROUTE	SECTION	SHEET NO	TOTAL SHEETS
VI	Fre	99			

U-006-2(6)
F-006-2(5)

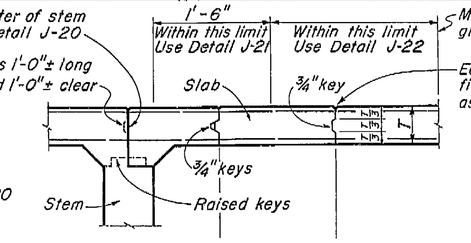
FED. ROAD DIV. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET NO	TOTAL SHEETS
7	CALIF.			227	424

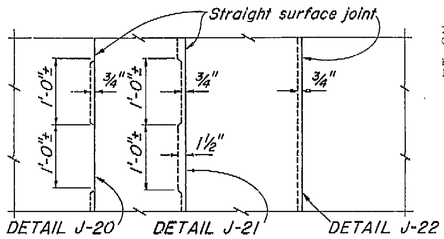


TRANSVERSE GIRDER CONSTRUCTION JOINTS
DETAIL J-3

BENT CAP LONGITUDINAL CONSTRUCTION JOINTS
DETAIL J-4

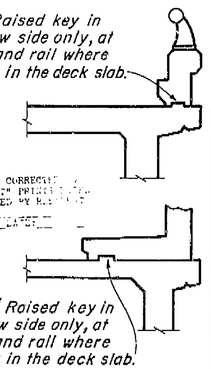
DIAPHRAGMS



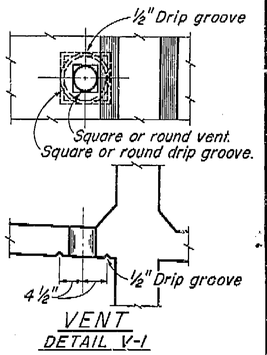


DECK SLAB
LONGITUDINAL CONSTRUCTION JOINTS

Note: Longitudinal construction joints in slab, if required, are to be located at edge of traffic lanes except as approved by the Engineer.

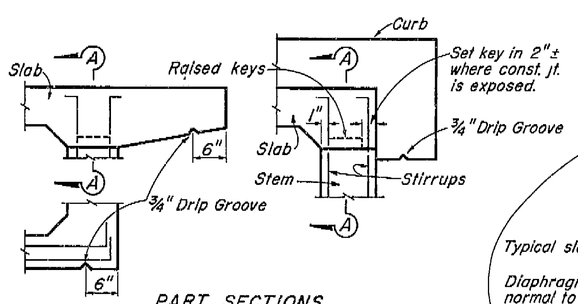


CURB AND SIDEWALK EXPANSION JOINT
DETAIL C-1

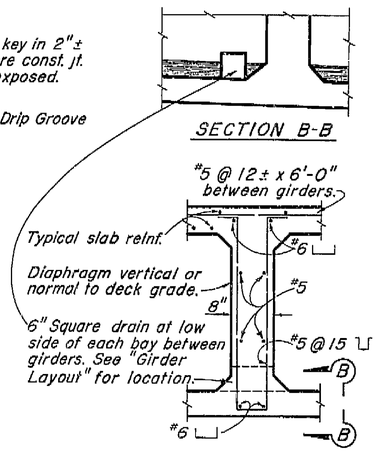


VENT
DETAIL V-1

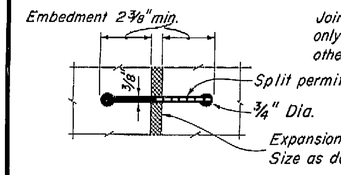
Note:
5" ϕ Vent in lower slab.
Min. of two vents per span in each bay between girders. One vent to be located at low point of span and other vent to be located at opposite end of span @ 1'-6" from face of Abutment or Bent. See "Girder Layout."



PART SECTIONS
EXTERIOR GIRDER WITH SLAB CANTILEVER
EXTERIOR GIRDER WITH CURB



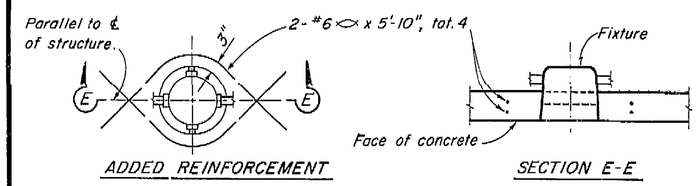
INTERMEDIATE DIAPHRAGM SECTION
DETAIL D-1



RUBBER WATERSTOP
DETAIL W-1

SEALED EXPANSION JOINT
DETAIL L-1

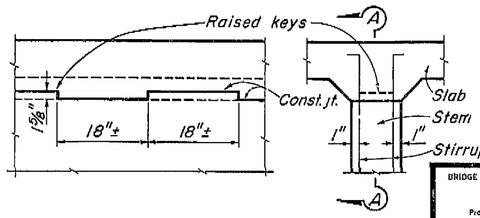
DETAIL M-1



ADDED REINFORCEMENT

SECTION E-E

RECESSED SOFFIT LIGHT
DETAIL F-1



SECTION A-A

PART SECTION INTERIOR GIRDER

KEY-GIRDER STEM TO SLAB
DETAIL J-5

AS BUILT PLANS
Contract No. 62-671363
Date Completed
Document No. 60001062

STANDARD DRAWING
Approved 7-8-60
Effective 7-8-60
Supersedes 7-1-60
Dated 7-1-60
Revised 7-8-60
Dated 7-1-60
Revised 7-8-60
Dated 7-1-60
Revised 7-8

-Added ½"r on tion A-A & D-D." ded 2¾" long dim. "Rail Connection" del. 60 RIK

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No 6000062

VI	Fre	99

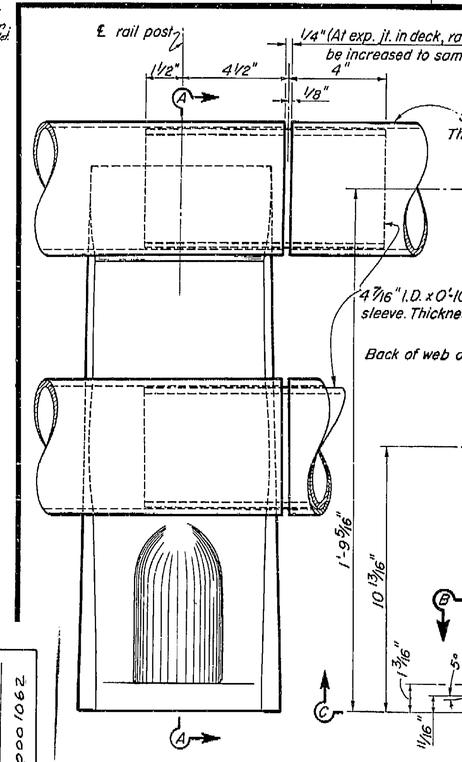
U-006-2(5)
F-006-2(5)

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7	CALIF.			230424

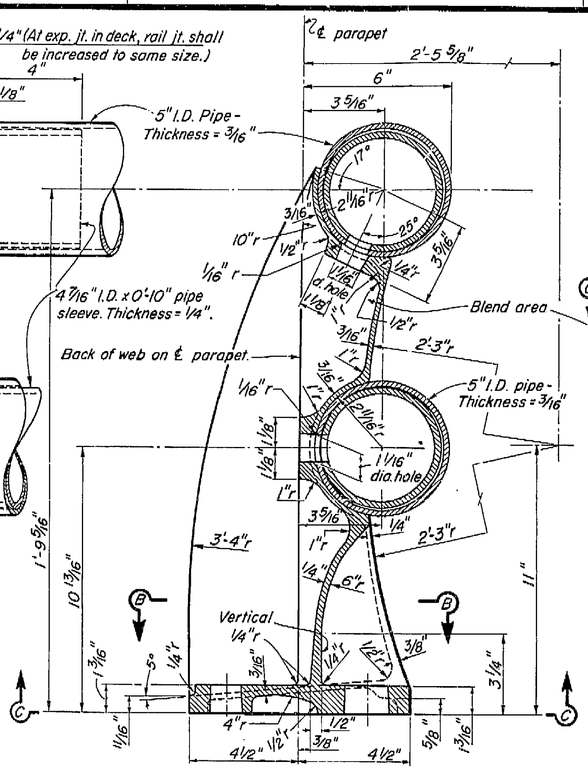
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre				

DATE APPROVED... AUGUST 22, 1961

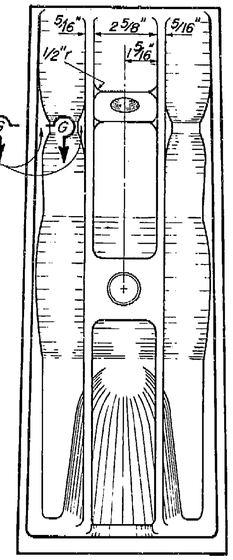
SINGLE RAIL POST



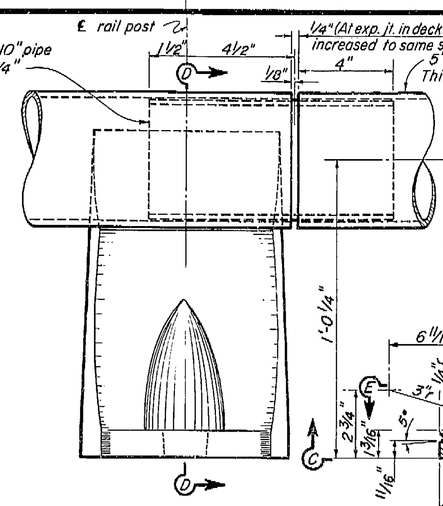
FRONT VIEW



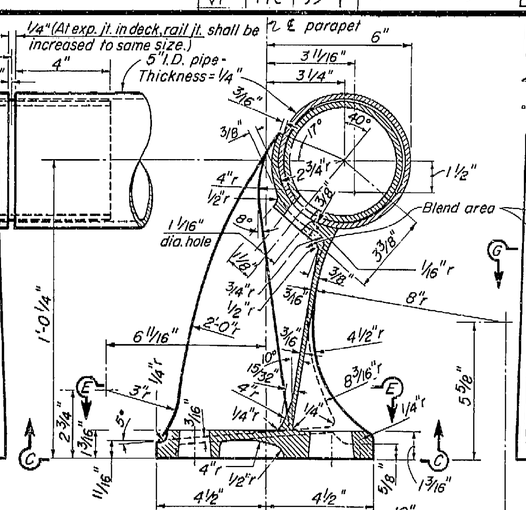
SECTION A-A



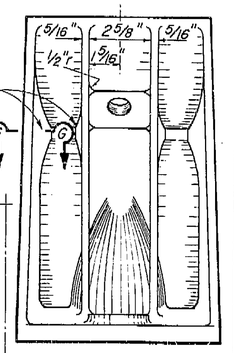
REAR VIEW



FRONT VIEW

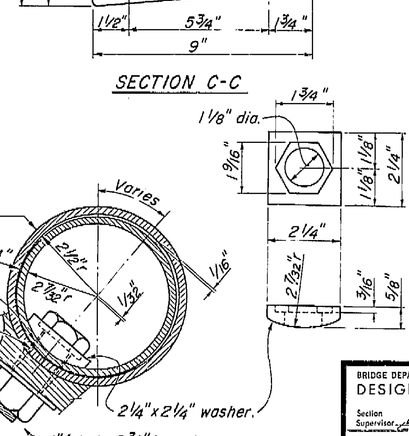


SECTION D-D

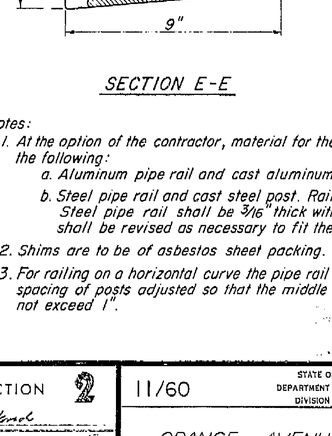


REAR VIEW

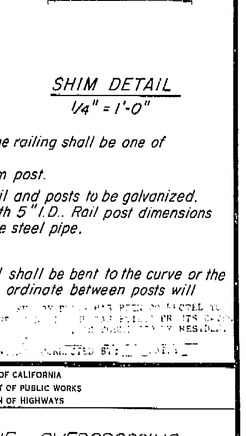
DOUBLE RAIL POST



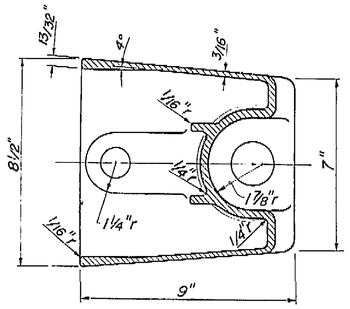
SECTION C-C



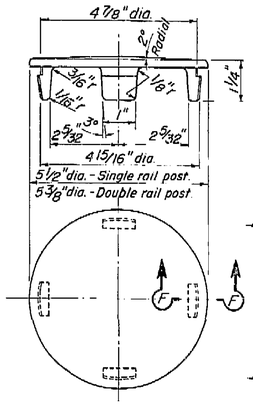
SECTION E-E



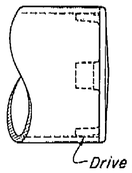
SHIM DETAIL
1/4" = 1'-0"

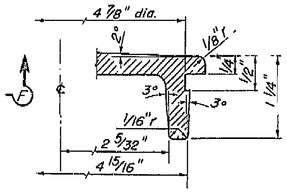


SECTION B-B

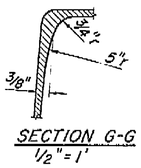


RAIL CAP
1/2" = 1"

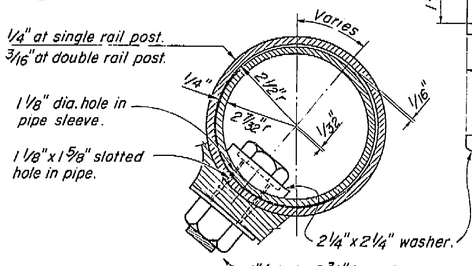




SECTION F-F
1" = 1"



SECTION G-G
1/2" = 1'



RAIL CONNECTION
1/2" = 1"

Notes:

1. At the option of the contractor, material for the railing shall be one of the following:
   a. Aluminum pipe rail and cast aluminum post.
   b. Steel pipe rail and cast steel post. Rail and posts to be galvanized. Steel pipe rail shall be 3/16" thick with 5" I.D.. Rail post dimensions shall be revised as necessary to fit the steel pipe.
2. Shims are to be of asbestos sheet packing.
3. For railing on a horizontal curve the pipe rail shall be bent to the curve or the spacing of posts adjusted so that the middle ordinate between posts will not exceed 1".

BRIDGE DEPARTMENT
DESIGN SECTION 2
Section Supervisor M.M. Markert

DESIGN	by	E. R. NATHURST 11-60
	checked	L.D.R.
DETAILS	by	R.E.K.
	checked	L.D.R.
QUANTITIES	by	R.E.K.
	checked	R.E.C.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

11/60

ORANGE AVENUE OVERCROSSING

BARRIER RAILING SHEET 2

Except as noted
SCALE 3/8" = 1"

BRIDGE 42-211

XS-9-71
FILE

DRAWING C-6738-11

Disregard prints bearing earlier numbers →

PREL. DRAWING No. P- 6738 | 65

4/2

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE_____ SIGNATURE_____ TITLE_____

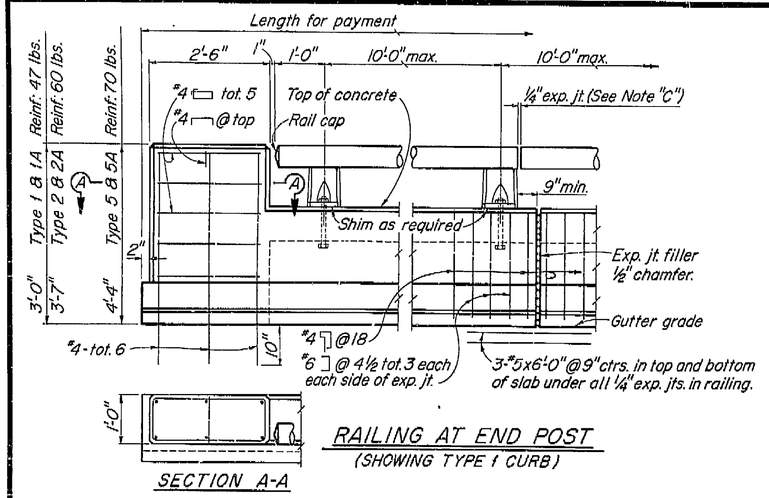
MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50'
SCALE 1" = 20'
ClibPDF - www.fastio.com

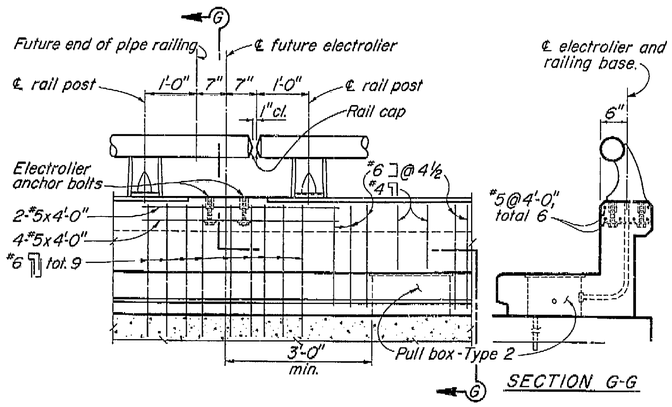
LVI | Fre | 99 | 4-005-2(6) F-005-2(6)

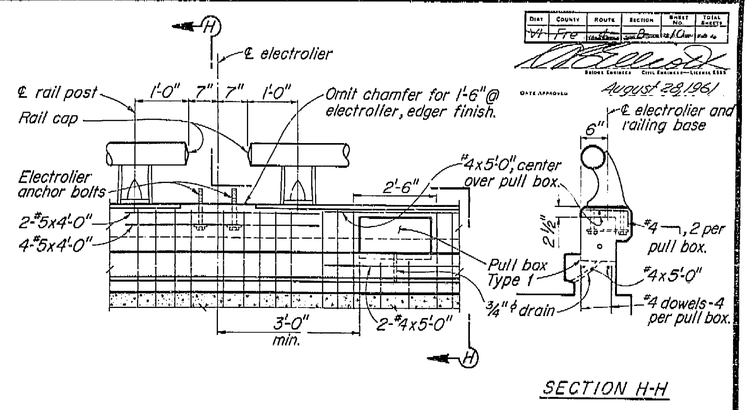
FED. ROAD DIV. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.			229 424

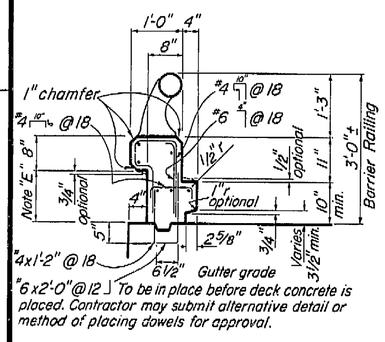
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	4	B	10	FAS 46

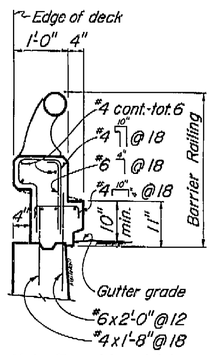
August 29, 1961

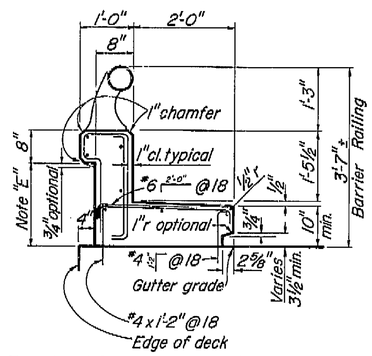


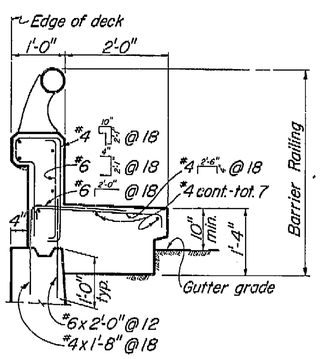




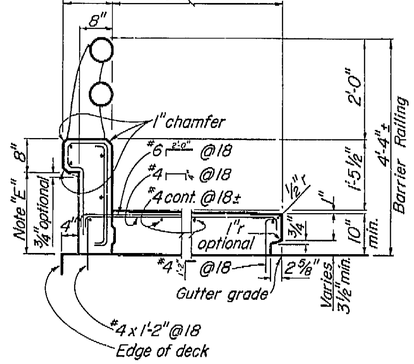


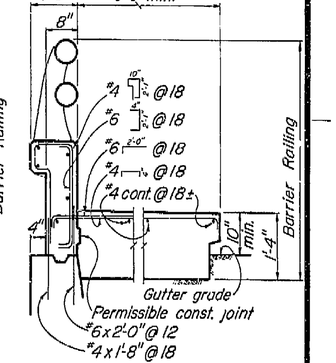




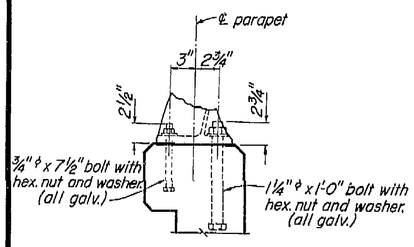


Note: Type 1A and 2A are similar to Type 1 and 2 except as noted.





TYPICAL CURB AND RAIL SECTIONS



RAIL POST ANCHOR BOLT DETAIL
Scale: 1 1/2" = 1'-0"

Note:
A. Railing shall conform to horizontal and vertical alignment.
B. Posts shall be normal to railing.
C. Curb and wall exp. jts. to be located at all deck joints, at ℄ piers or bents and at uniform spacing (40' max.) between those specified. Joint size to be 1/4" min. and increased to match deck joints.
D. Construct 3" deep x 12" wide overflow scupper 2" above deck at low points in grade.
E. Dimension will vary with cross-slope of deck.
F. Walls are to be backfilled before railing is placed.
G. Clearance to reinforcing steel in curb and railing to be 1".

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

STANDARD DRAWING
DIST. CO. ROUTE SHEET NO. TOTAL SHEETS
Approved [illegible] Chief Engineer
Approved [illegible] Bridge Engineer
Date [illegible] 1961
Drawing No. [illegible]

BRIDGE DEPARTMENT	
DESIGN SECTION 2	
Section Supervisor	
DESIGN	By E. E. Lutman, Checked
DETAILS	By L.F.E. Checked
QUANTITIES	By L.F.E. Checked

10/60
STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ORANGE AVENUE OVERCROSSING

BARRIER RAILING SHEET 1

Except as noted SCALE 3/4" = 1'-0" | BRIDGE 42-211 | XS-9-63 FILE | DRAWING C-6738-10

Disregard prints bearing earlier numbers → PREL. DRAWING No. P-6738 64

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE_____ SIGNATURE_____ TITLE_____

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V1 | Fre | 99

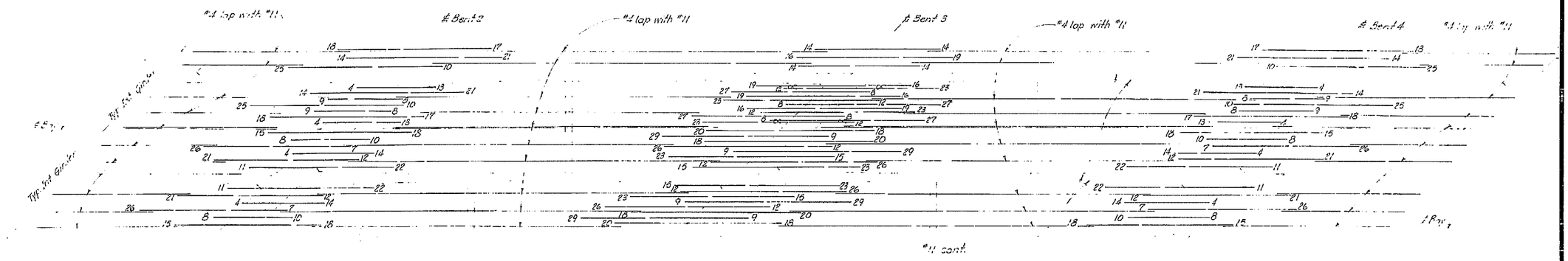
U-006-2(6)
F-006-2(6)

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
7	CALIF.			226	428

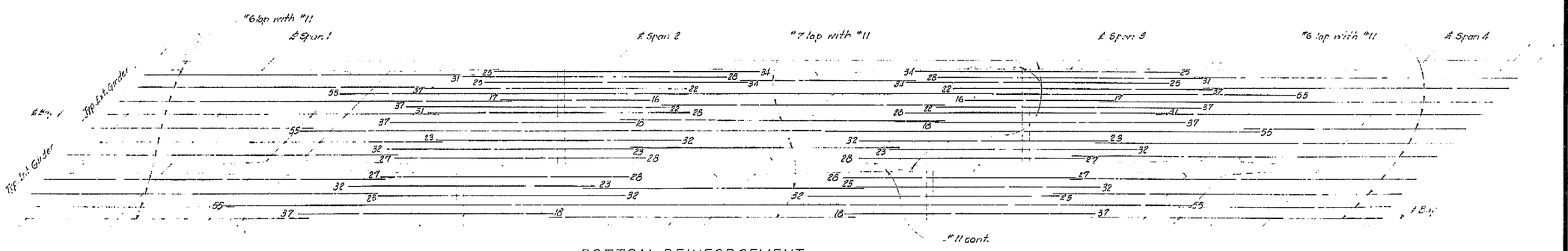
DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
11	Fre	99			

Bridge Engineer — Civil Engineer—License 8283

DATE APPROVED August 28, 1961



TOP REINFORCEMENT



BOTTOM REINFORCEMENT

AS BUILT PLANS
Contract No. 62-671363
Date Completed
Document No. 60001062

Notes:
All bars are #11 except as noted. Numbers at ends of bars indicate distance in feet from ℄ bent for Top Reinforcement or from ℄ span for Bottom Reinforcement.
No splicing of #11 bars permitted near ℄ bent in Top Reinforcement or near ℄ span in Bottom Reinforcement.
=∞= Denotes bundled bars

THIS SET OF PLANS HAS BEEN CORRECTED TO ... "AS BUILT" PRINTS DATED ... SUBMITTED ... RESIDENT ... CORRECTED ...

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer: Earl E. Forbes
Chief Designer: W J Gerwick

DESIGN	By E.E. Lorbeer '60	Checked L.D. Ricci '60
DETAILS	By [illegible]	Checked L.D. Ricci '60
QUANTITIES	By [illegible] 6-60	Checked [illegible]
SPECIFICATIONS	By	Checked

Approval Recommended by [signature] Engineer of Design — Field and Microfilm Elect. Umbrella No. ... BASH ART. ...

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ORANGE AVENUE OVERCROSSING

GIRDER REINFORCEMENT

SCALE	BRIDGE	FILE	DRAWING
None	62-211		C-6738-7

Disregard prints bearing earlier numbers →

PREL. DRAWING No. P-6738 | X | 61

451

226

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-10-72 SIGNATURE [signature] TITLE [illegible]

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SCALE 1"= 50' MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM SCALE 1"= 50' SCALE 1"= 20' MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM SCALE 1"= 20'

U-006-2(5)
F-006-2(5)

VI | Fre | 99

FED. ROAD DIV. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.			231	324

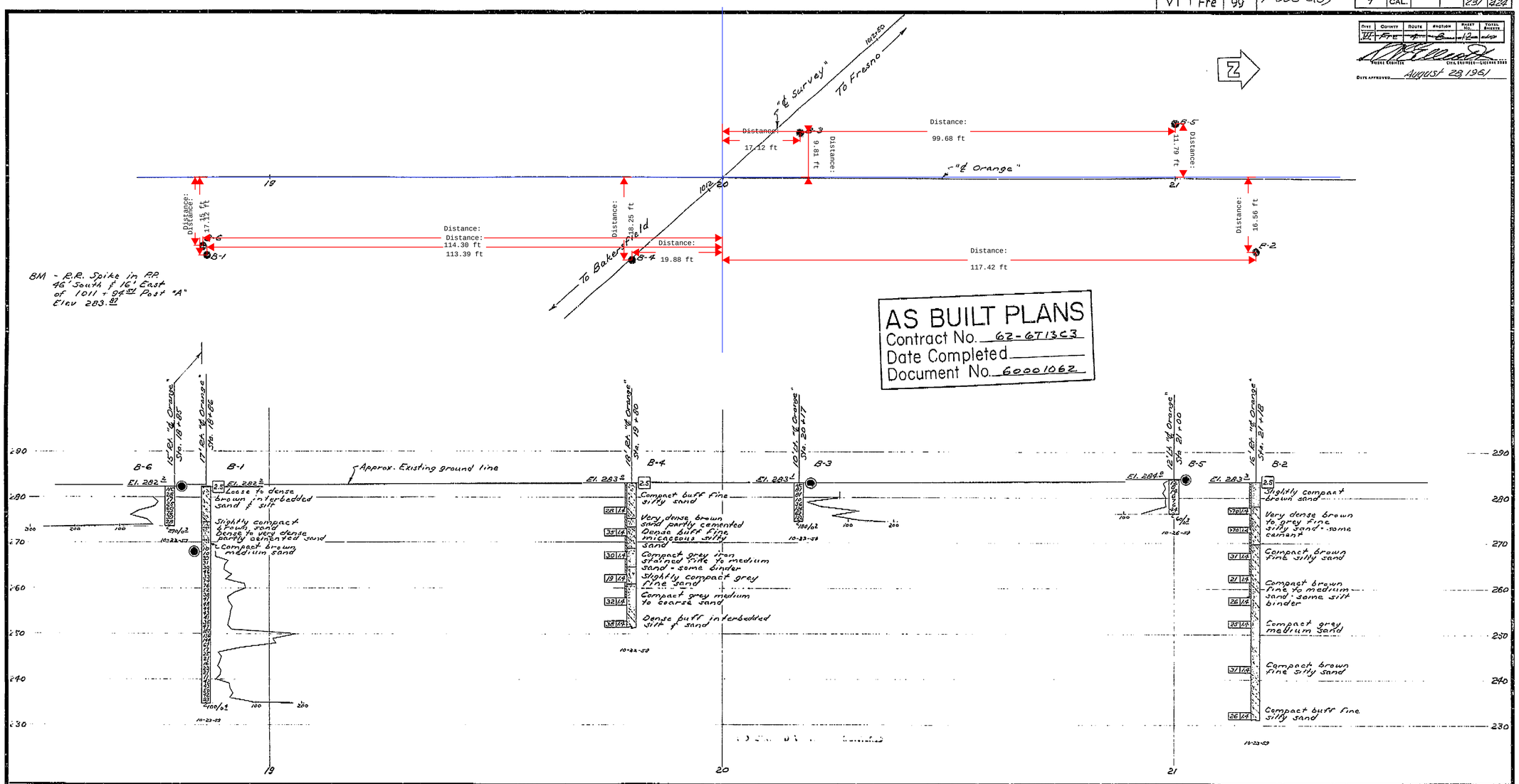
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	99		231	324

DATE APPROVED August 28 1961

BRIDGE DEPARTMENT

FIELD STUDY	by R.Hansen	10-58
DRAWN	by K.Mackey	10-59
CHECKED	by D.E.White	11-19-59

Approved Recommended by: [illegible] Asst. Bridge Engineer
[illegible] Bridge Engineer



CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS

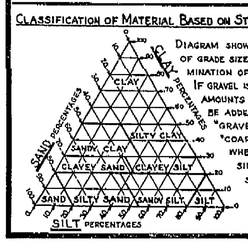


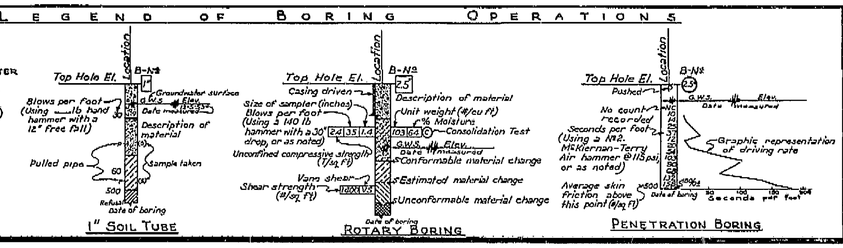
DIAGRAM SHOWING THE BASIS FOR ESTIMATES OF GRADE SIZE DISTRIBUTION USED IN DETERMINATION OF CLASS NAMES. IF GRAVEL IS PRESENT IN APPRECIABLE AMOUNTS THE TERM "GRAVELLY" MAY BE ADDED TO THE CLASS NAME, VIZ. "GRAVELLY SAND." THE TERMS "COARSE," "MEDIUM" AND "FINE" WHEN USED TO DESCRIBE SAND, SILT AND GRAVEL REFER TO STANDARD GRADE SIZE LIMITS.

LEGEND OF EARTH MATERIALS

- Gravel
- Sand
- Silt
- Clay
- Sandy Clay or Clayey Sand
- Sandy Silt or Silty Sand
- Silty Clay or Clayey Silt
- Peat and/or Organic Matter
- Fill Material
- Igneous Rock
- Sedimentary Rock
- Metamorphic Rock

LEGEND OF BORING OPERATIONS

- Plan of any boring
- Penetrometer
- 2½" Cone Penetrometer
- Sampler boring (DRY)
- Rotary boring (WET)
- Auger boring (DRY)
- Jet boring
- Core boring
- Test pit



NOTES

Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ORANGE AVENUE OVERCROSSING

LOG OF TEST BORINGS

SCALE	BRIDGE	FILE	DRAWING
1" = 10'	42-211	E-42	C-6138-L2

231

PR-6738-4

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

ClibPDF - www.fastio.com

SCALE 1" = 50' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1" = 20'

California Department of Transportation
Division of Maintenance

Structure Maintenance and Investigations

BRIDGE

INSPECTION

RECORDS

INFORMATION

SYSTEM

The requested documents have been generated by BIRIS.

These documents are the property of the California Department of Transportation and should be handled in accordance with Deputy Directive 55 and the State Administrative Manual.

Records for “Confidential” bridges may only be released outside the Department of Transportation upon execution of a confidentiality agreement.

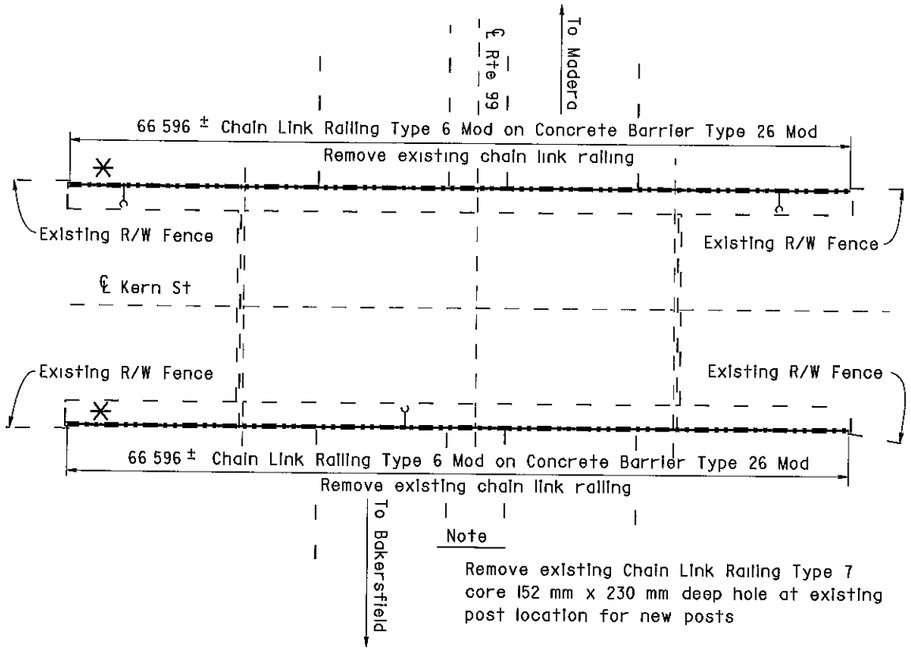
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	126	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet



Note

Remove existing Chain Link Railing Type 7 core 152 mm x 230 mm deep hole at existing post location for new posts

KERN STREET OC

Br No 42-0159, Fre, KP 33 0
1 250

KERN STREET OC 42-0159
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION H	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	133 m

TULARE STREET OC 42-0169
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION I	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	166 m

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

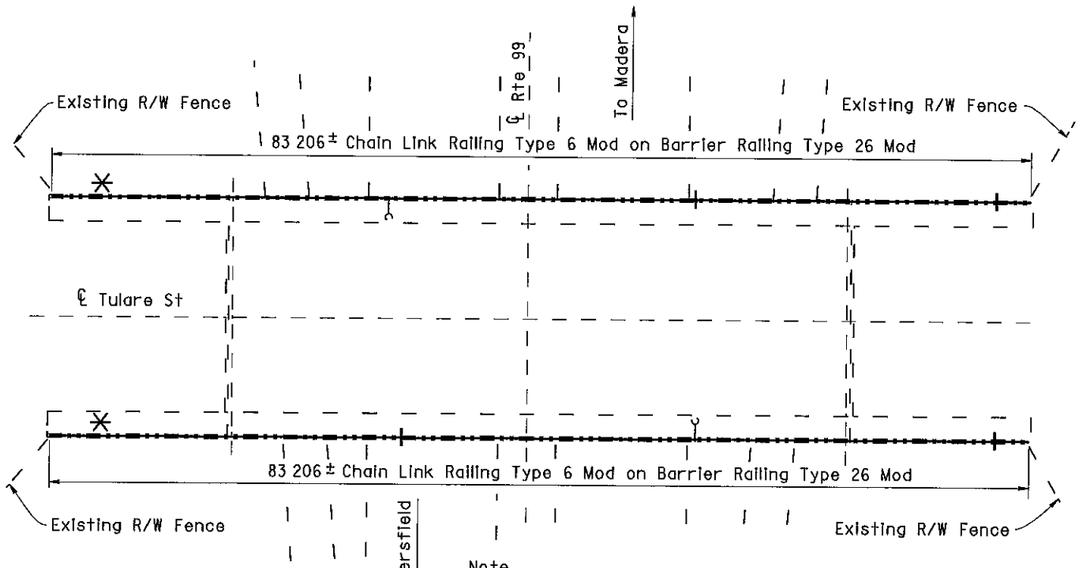
NOTES

— — Indicates existing

℄ Indicates approximate location of existing electrolier (To remain)

Indicates approximate location of remove and reinstall sign on new post

Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details



Note

Remove existing Chain Link Railing Type 7 core 152 mm x 230 mm deep hole at existing post location for new posts

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

TULARE STREET OC

Br No 42-0169, Fre, KP 33 2
1 250

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00 DESIGN ENGINEER	DESIGN	BY D Acoba 4/00	CHECKED F Tannous 5/00	LAYOUT	BY K Endow 4/00	CHECKED D Acoba 4/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE	BRIDGE NO Various
	DETAILS	BY K Endow 4/00	CHECKED F Tannous 5/00						KILOMETER POST Varies
	QUANTITIES	BY D Acoba 5/00	CHECKED F Tannous 5/00	SPECIFICATIONS	BY J Maroney 9/00	PLANS AND SPECS COMPARED J Maroney 9/00		CU 06015 EA 440101	DISREGARD PRINTS BEARING EARLIER REVISION DATES

ROUTE 99 BRIDGES
GENERAL PLAN NO. 4

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 7/17/00 9/26/00 10/3/00

SHEET 4 OF 11

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

FILE > nagp4 dgn

USERNAME > mcarlson DATE PLOTTED > 03-JAN-2003 TIME PLOTTED => 08:38

ClibPDF - www.fastio.com

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	128	133

10/3/00
REGISTERED CIVIL ENGINEER

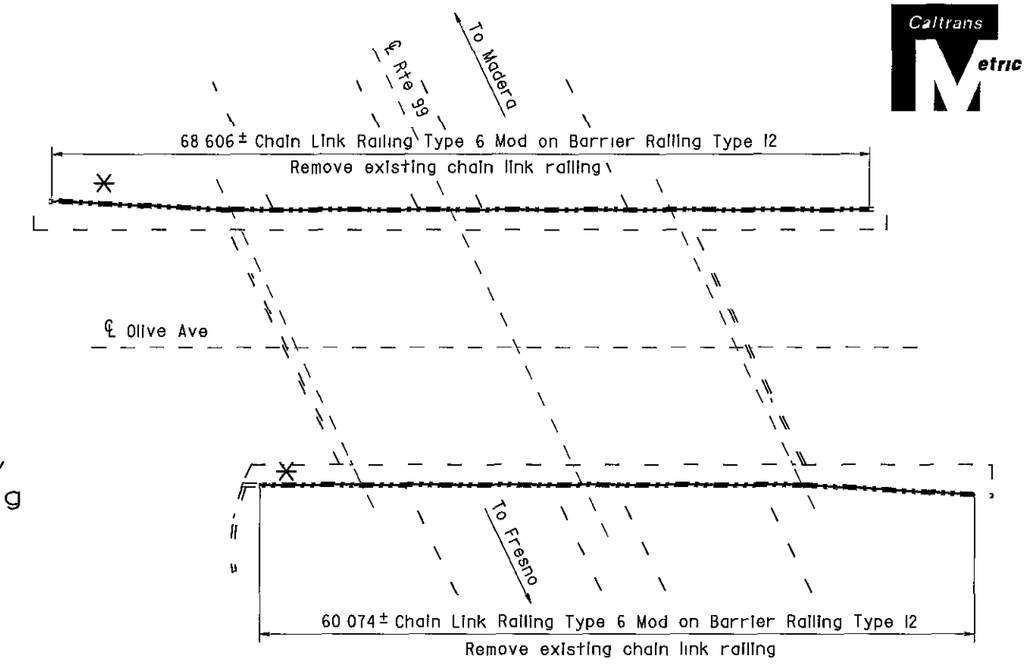
11-13-00
PLANS APPROVAL DATE

DIOSDADO ACOBA No 52003 Exp 12-31 02 CIVIL STATE OF CALIFORNIA REGISTERED PROFESSIONAL ENGINEER

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.



OLIVE AVENUE OC

Br No 42-0187, Fre, KP 37 5
1 250

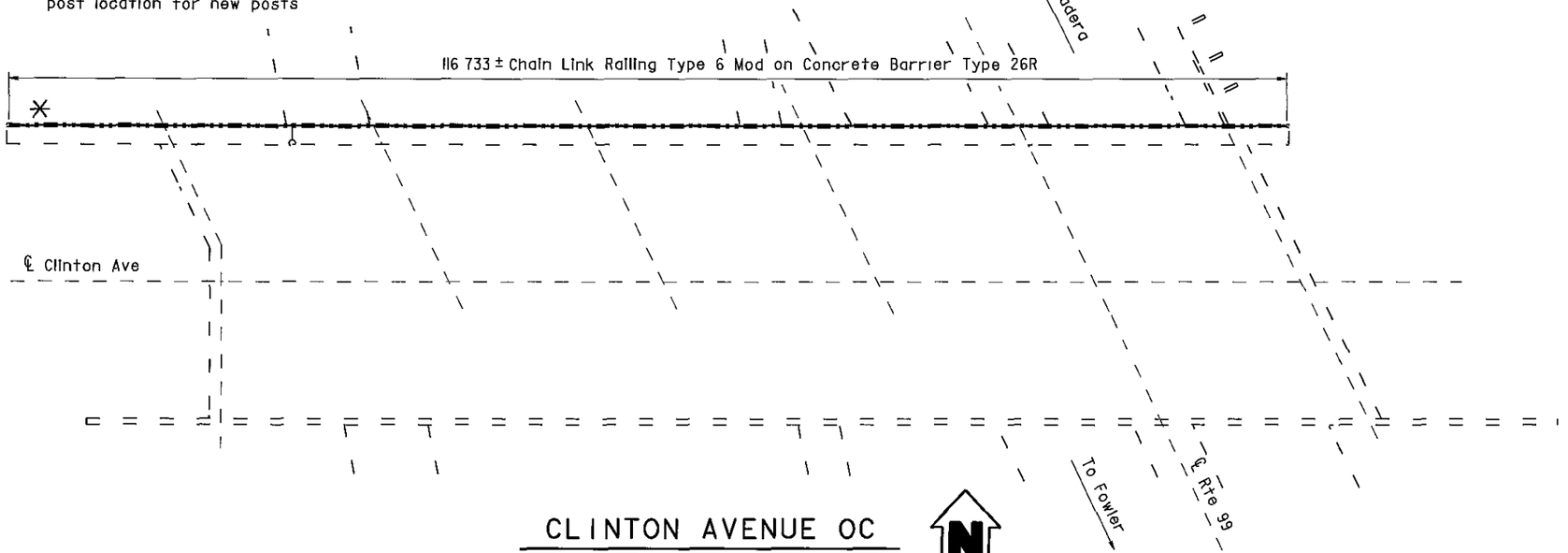
NOTES

— — Indicates existing

℄ Indicates approximate location of existing electrolier (To remain)

Note

Remove existing Chain Link Railing Type 7 core 152 mm x 230 mm deep hole at existing post location for new posts



CLINTON AVENUE OC

Br No 42-0183, Fre, KP 39 3
1 250

OLIVE AVENUE OC 42-0187
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION M	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	129 m

CLINTON AVENUE OC 42-0183
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION N	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	116 m

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED		BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00	LAYOUT	K Endow	4/00	D Acoba 4/00
DETAILS	K Endow	4/00	F Tannous	5/00				
QUANTITIES	D Acoba	5/00	F Tannous	5/00	SPECIFICATIONS	J Maroney	9/00	PLANS AND SPECS COMPARED J Maroney 9/00

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 6

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE => nagp6.dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/17/00 | 9/26/00 | 10/3/00

SHEET 6 OF 11

USERNAME => mcarlson DATE PLOTTED => 03 JAN-2003 TIME PLOTTED => 08 53

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NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Caltrans Metric

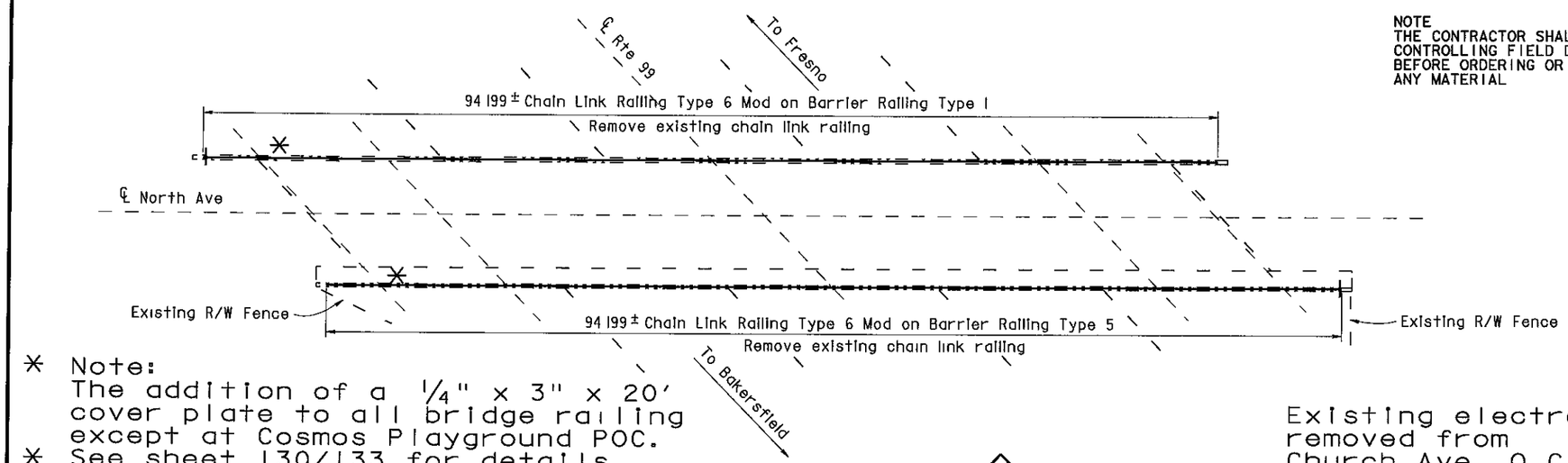
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	123	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DIOSDADO ACOBA
No 52003
Exp 12-31-02
CIVIL
STATE OF CALIFORNIA

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* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

NORTH AVENUE OC

Br No 42-0210, Fre, KP 27 8
1 250

Existing electroliers removed from Church Ave. O.C.

NOTES

— — Indicates existing

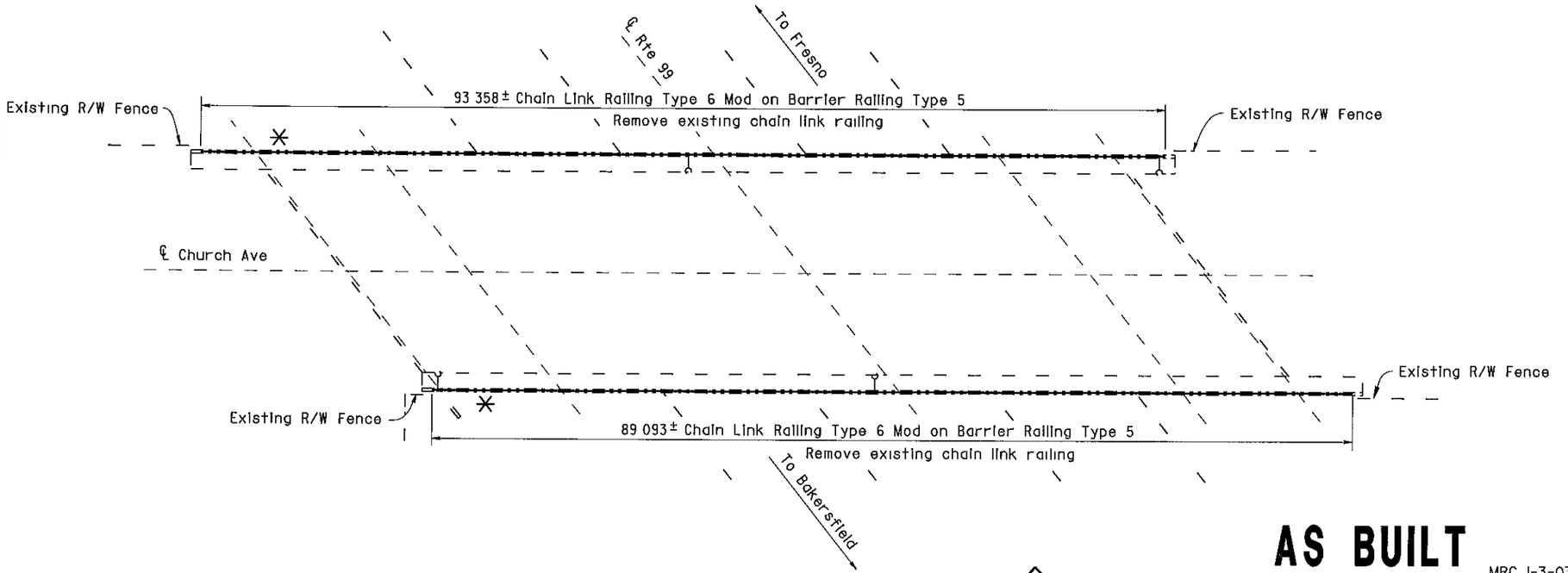
℄ Indicates approximate location of existing electrolier (To remain)

Indicates approximate location of remove and reinstall sign on new post

Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details

INDEX TO PLANS

SHEET NO	TITLE
1	GENERAL PLAN NO 1
2	GENERAL PLAN NO 2
3	GENERAL PLAN NO 3
4	GENERAL PLAN NO 4
5	GENERAL PLAN NO 5
6	GENERAL PLAN NO 6
7	GENERAL PLAN NO 7
8	CHAIN LINK RAILING TYPE 6 MOD NO 1
9	CHAIN LINK RAILING TYPE 6 MOD NO 2
10	CHAIN LINK RAILING TYPE 6 MOD NO 3
11	CHAIN LINK RAILING TYPE 3 MOD



CHURCH AVENUE OC

Br No 42-0214, Fre, KP 30 9
1 250

AS BUILT MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

NORTH AVENUE OC 42-0210
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION A	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	189 m

CHURCH AVENUE OC 42-0214
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION B	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	183 m

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED		BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00	LAYOUT	K Endow	4/00	D Acoba	4/00
DETAILS	K Endow	4/00	F Tannous	5/00				PLANS AND SPECS COMPARED	
QUANTITIES	D Acoba	5/00	F Tannous	5/00	SPECIFICATIONS	J Maroney	9/00	J Maroney	9/00

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 1

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 5/15/00 7/17/00 9/26/00 10/3/00

SHEET 1 OF 11

FILE -> nagpl.dgn

USERNAME -> mgarson DATE PLOTTED -> 02 JAN 2003 TIME PLOTTED -> 16:55

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	124	133

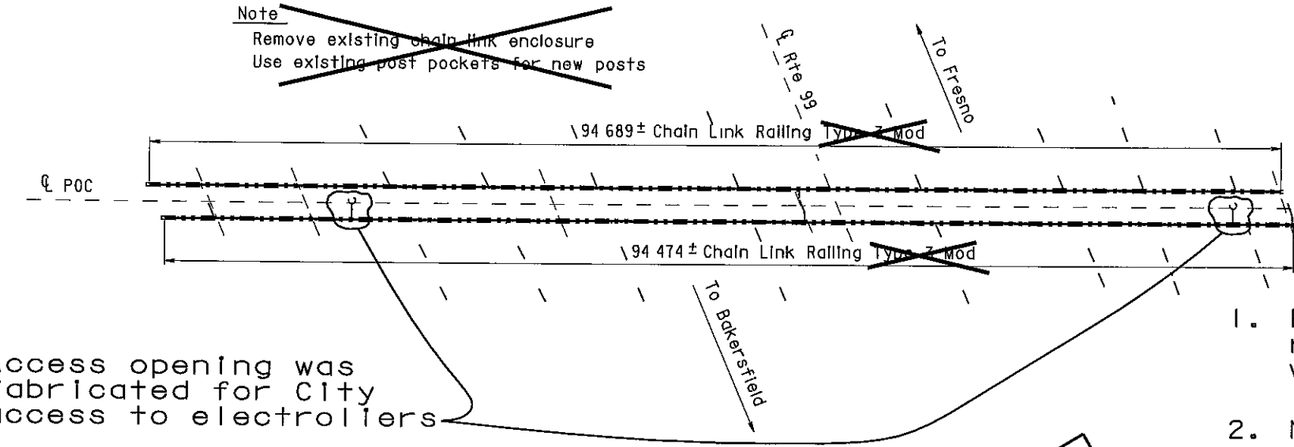
10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

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Note
Remove existing chain link enclosure
Use existing post pockets for new posts



COSMOS PLAYGROUND POC

Br No 42-0215, Fre, KP 31 2
1 250

1. Existing chain link railing remained and was painted.
2. New 1" mesh was installed and replaced the old 2" mesh.
3. Existing electroliers remained.

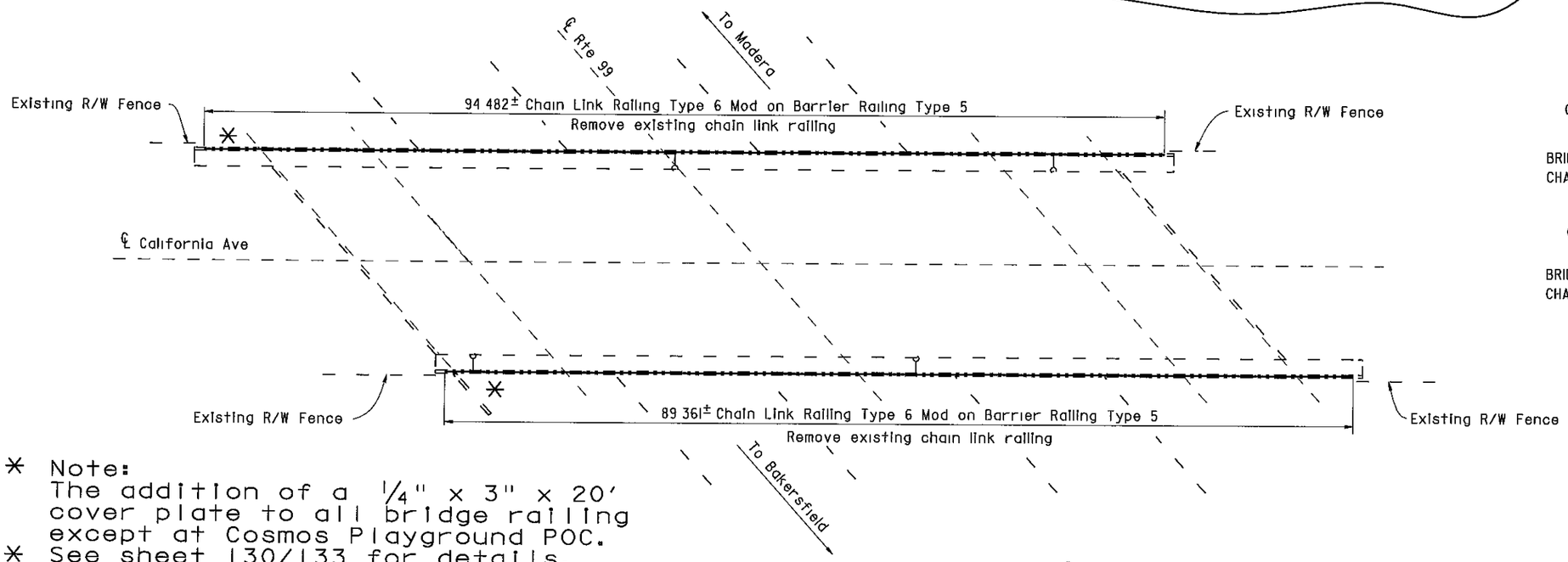
NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

NOTES

— — Indicates existing

℄ Indicates approximate location of existing electroliter (To remain)

Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details



COSMOS PLAYGROUND POC 42-0215
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION C	LUMP SUM
CHAIN LINK RAILING (TYPE 3 MODIFIED)	209 m

CALIFORNIA AVENUE OC 42-0217
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION D	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	184 m

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

CALIFORNIA AVENUE OC

Br No 42-0217, Fre, KP 32 0
1 250

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borguez
CONTRACT NO 06-440104
DATE 11-14-02

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00
DETAILS	K Endow	4/00	F Tannous	5/00
QUANTITIES	D Acoba	5/00	F Tannous	5/00
LAYOUT	K Endow	4/00	D Acoba	4/00
SPECIFICATIONS	J Maroney	9/00	J Maroney (PLANS AND SPECS COMPARED)	9/00

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

CU 06015
EA 440101

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 2

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/12/00 | 9/26/00 | 10/3/00

SHEET 2 OF 11

FILE -> nagp2.dgn

USERNAME -> morrison DATE PLOTTED -> 03 JAN 2003 TIME PLOTTED -> 08:15

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	99	23 3/50 7	125	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

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VENTURA STREET OC 42-0158K
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION E	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	78 m

VENTURA STREET OC 42-0158E
QUANTITIES

BRIDGE REMOVAL (PORTION) LOCATION F	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	122 m

VENTURA STREET OC 42-0158S
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION G	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	74 m

NOTES

— — Indicates existing

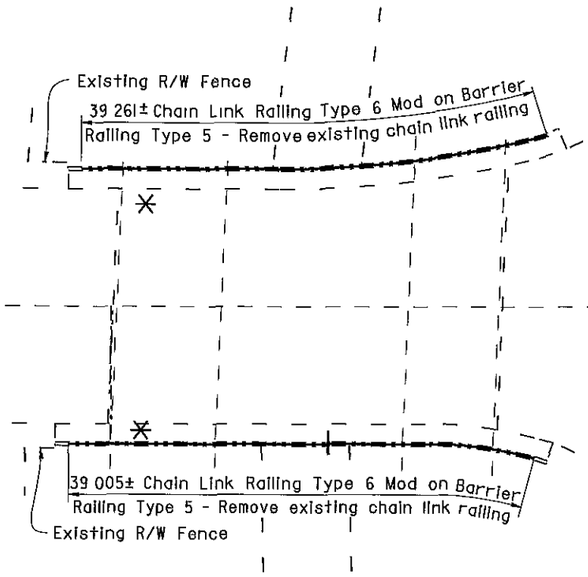
℄ Indicates approximate location of existing electroller (To remain)

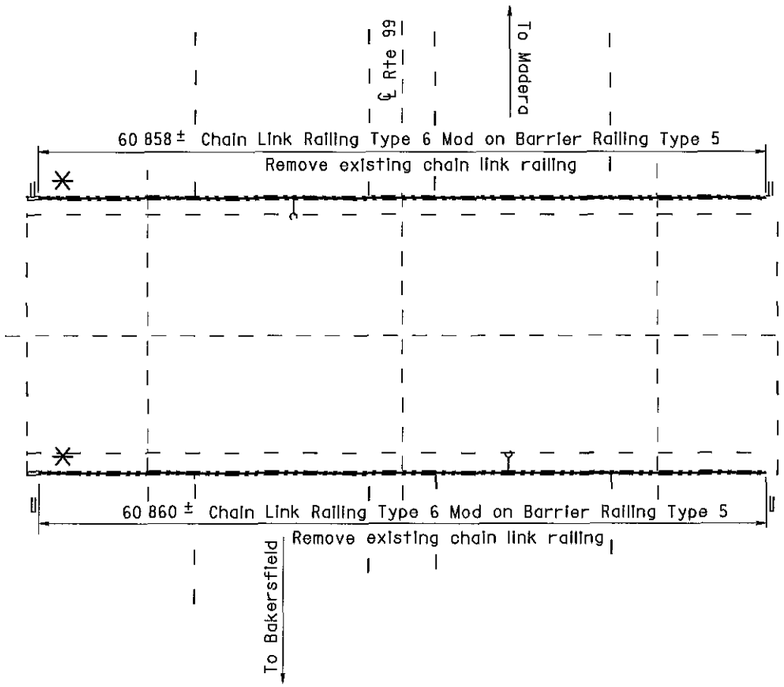
Indicates approximate location of remove and reinstall sign on new post

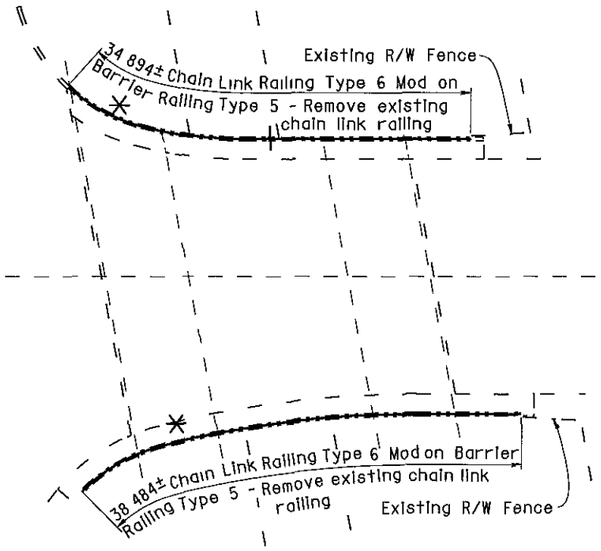
Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.







Br No 42-0158K

Bridges 42-0158K and 42-0158S were both painted with Color No. 20109 - "Deep red".

Br No. 42-0158E

VENTURA STREET OC

Fre, KP 32 5
I 250

AS BUILT
MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

Br No 42-0158S

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00 DESIGN ENGINEER	DESIGN	BY D Acoba 4/00	CHECKED F Tannous 5/00	LAYOUT	BY K Endow 4/00	CHECKED D Acoba 4/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE	BRIDGE NO Various	ROUTE 99 BRIDGES	
	DETAILS	BY K Endow 4/00	CHECKED F Tannous 5/00			PLANS AND SPECS COMPARED J Maroney 9/00			KILOMETER POST Varies	GENERAL PLAN NO. 3	
	QUANTITIES	BY D Acoba 5/00	CHECKED F Tannous 5/00	SPECIFICATIONS	BY J Maroney 9/00						

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE => nagp3.dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 5/15/00 7/17/00 9/28/00 10/1/00

SHEET 3 OF 11

USERNAME => mcarlson DATE PLOTTED => 03 JAN 2003 TIME PLOTTED => 08 32

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	129	133

10/3/00
REGISTERED CIVIL ENGINEER

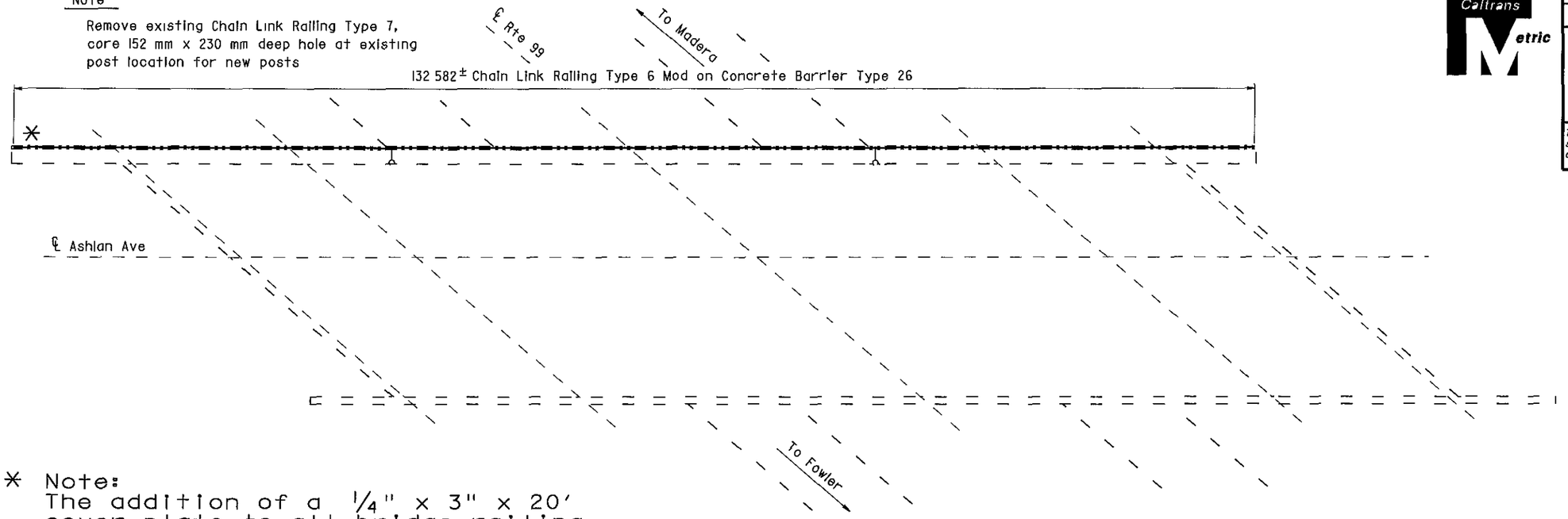
11-13-00
PLANS APPROVAL DATE

DIOSDADO ACOBA No 52003 Exp 12-31-02 CIVIL STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

Note

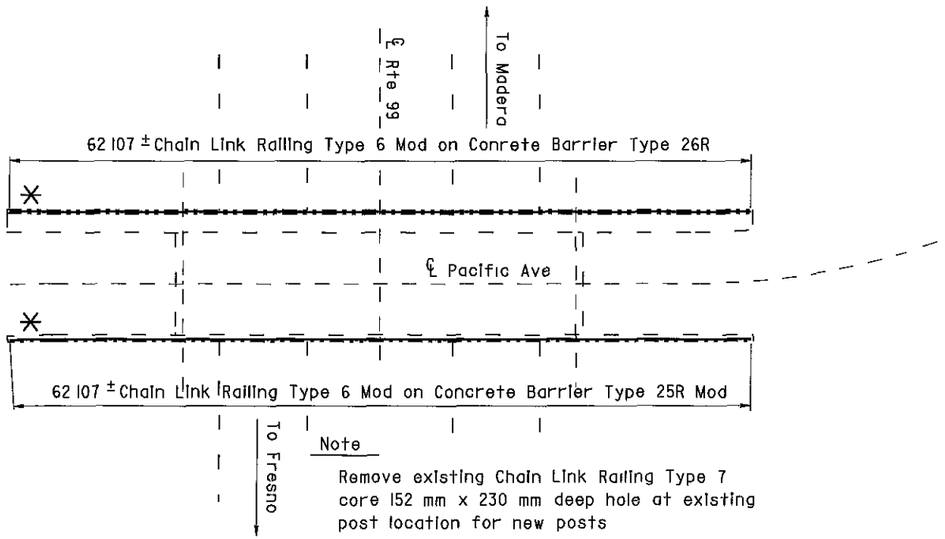
Remove existing Chain Link Railing Type 7, core 152 mm x 230 mm deep hole at existing post location for new posts



* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

ASHLAN AVENUE OC

Br No 42-0140, Fre, KP 42 8
1 250



Note

Remove existing Chain Link Railing Type 7 core 152 mm x 230 mm deep hole at existing post location for new posts

PACIFIC AVENUE OC

Br No 42-0189, Fre, KP 36 0
1 250

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

NOTES

— — Indicates existing

℄ Indicates approximate location of existing electrolier (To remain)

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

ASHLAN AVENUE OC 42-0140
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION O	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	133 m

PACIFIC AVENUE OC 42-0189
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION P	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	124 m

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED		LAYOUT	BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00	LAYOUT	K Endow	4/00	D Acoba	4/00
DETAILS	K Endow	4/00	F Tannous	5/00	SPECIFICATIONS	J Maroney	9/00	PLANS AND SPECS COMPARED J Maroney	9/00
QUANTITIES	D Acoba	5/00	F Tannous	5/00					

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

CU 06015
EA 440101

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 7

SHEET 7 OF 11

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 7/17/00 9/26/00 10/3/00

DISREGARD PRINTS BEARING EARLIER REVISION DATES

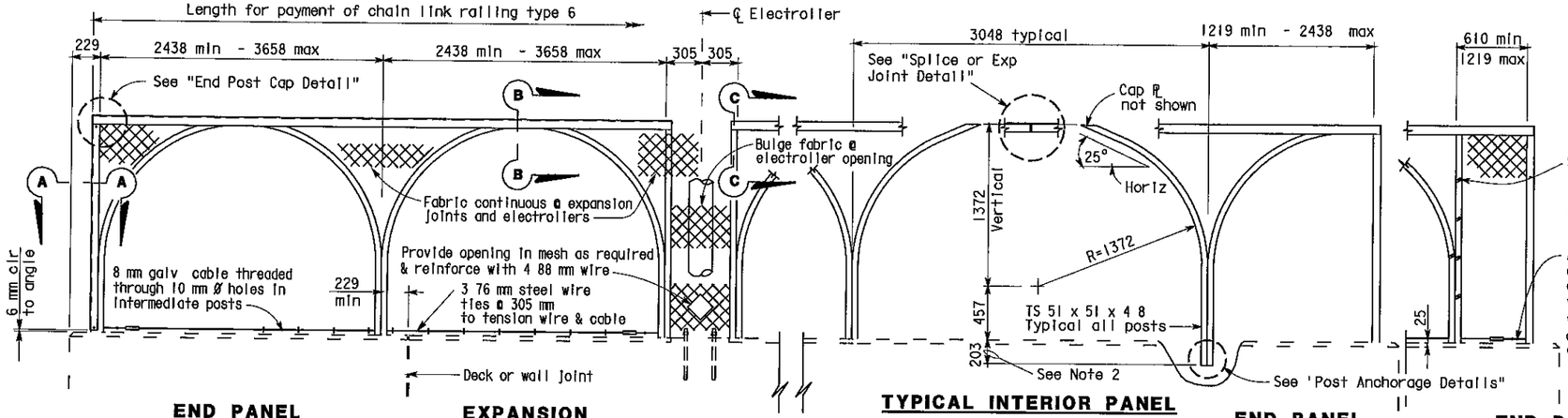
STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

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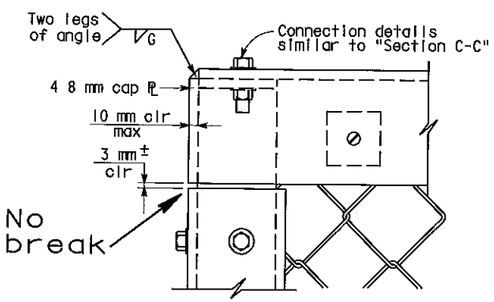
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ClibPDF - www.fastio.com

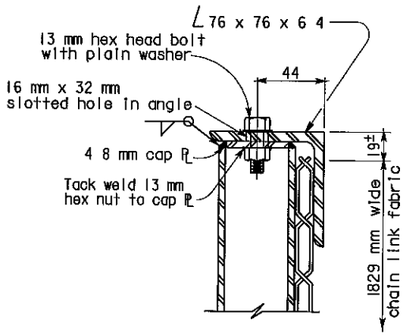


END PANEL 2438 mm - 3658 mm | **EXPANSION PANEL AT ELECTROLIER** | **TYPICAL INTERIOR PANEL** | **END PANEL 1219 mm - 2438 mm** | **END PANEL 610 mm - 1219 mm**

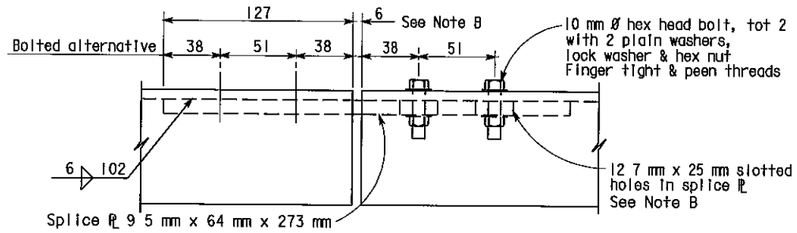
ELEVATION



END POST CAP DETAIL

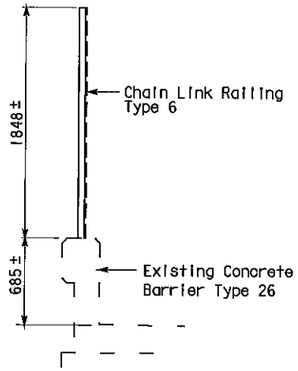


SECTION C-C

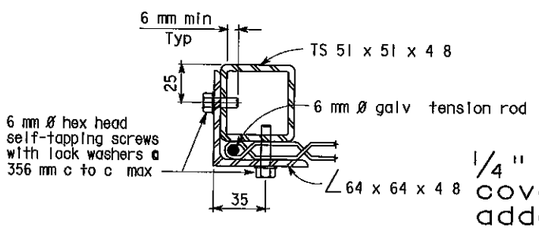


SPLICE OR EXPANSION JOINT DETAIL

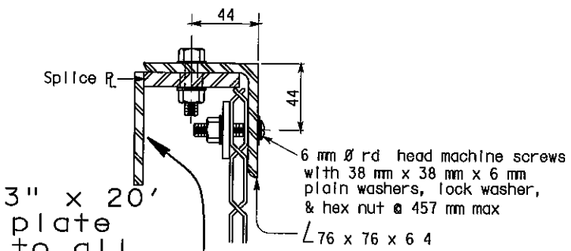
Note B Expansion joint same dimension as expansion joint in deck or wall Increase slotted hole length and splice ℙ length correspondingly



TYPICAL SECTIONS



SECTION A-A



SECTION B-B

NOTES

1. Horizontal angle shall be continuous over not less than two intermediate posts except that a shorter length is permitted at expansion joints, electrollers and other rail discontinuities
2. One post may be embedded 152 mm minimum to accomodate grade changes, otherwise fabricate post lengths as required
3. Curved posts may be rotated in plan within its post pocket to accomodate curved horizontal alignment
4. Straight posts and straight portions of curved posts shall be installed normal to bridge profile grade
5. Top horizontal angle shall be parallel to bridge profile grade and shall be shop bent to fit horizontal curves
6. When railing is on slope, fabric shall be placed parallel to slope
7. Alternative details may be submitted by Contractor for Engineer's approval
8. Railing assembly except chain link fabric shall be galvanized after fabrication
9. For details and reinforcement not shown, see "Concrete Barrier Type 25 or 26" sheet
10. See Bridge Plans for limits of Chain Link Railing Type 6 Mod
11. Provide thimbles at all cable loops
12. Chain link fabric to be 1829 mm wide with 25 mm mesh and with knuckled selvage top and bottom
13. When railing is placed on a horizontal alignment with a radius of 45 72 m or less, thread 8 mm cable through 10 mm Ø welded eye rods embedded 102 mm into the top of the concrete parapet and equally spaced to limit the middle ordinate distance between the 8 mm cable and the curve to 25 mm max
14. Splices and expansion joints shall be located at ℄ panel
15. Holes in posts for 8 mm cable and its anchorage may be field drilled and painted with zinc rich paint

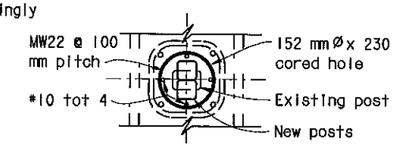
AS BUILT

MRC 1-3-03

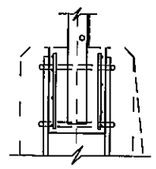
CORRECTIONS BY John Borquez

CONTRACT NO 06-440104

DATE 11-14-02



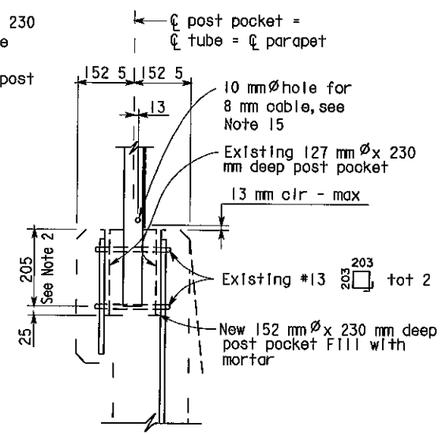
PLAN



SECTION

Detail omitted

POCKET DETAILS



POST ANCHORAGE DETAIL

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	130	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

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DESIGN	BY D Acoba	5/00	CHECKED F Tannous	5/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY K Endow	5/00	CHECKED F Tannous	5/00	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE
QUANTITIES	BY D Acoba	5/00	CHECKED F Tannous	5/00	BRIDGE NO Various; KILOMETER POST Varies

ROUTE 99 BRIDGES

CHAIN LINK RAILING TYPE 6 MOD NO. 1

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV 10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE > nat61.dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/17/00 | 9/26/00 | 10/3/00

SHEET 8 OF 11

USERNAME mcarlson DATE PLOTTED > 03-JAN-2003 TIME PLOTTED => 12:11

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	131	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

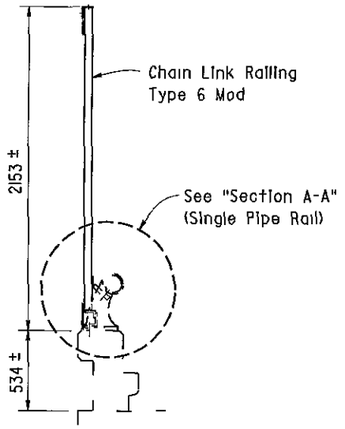
REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

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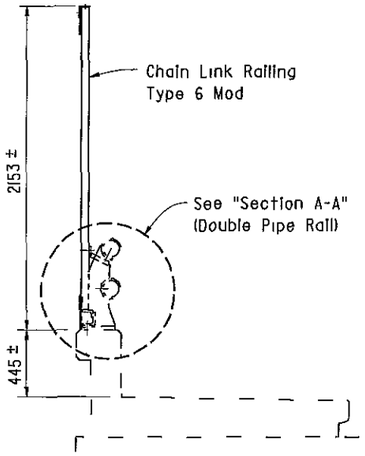
NO CORRECTIONS
AS BUILT

MRC 1-3-03

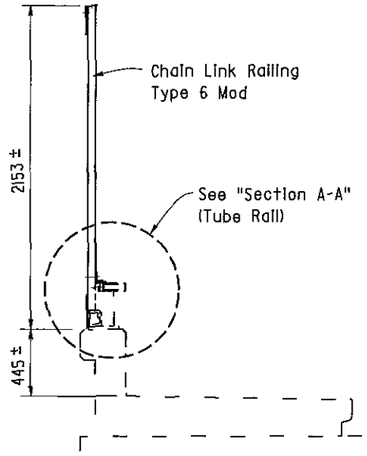
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02



TYPE 1



TYPE 5



TYPE 12

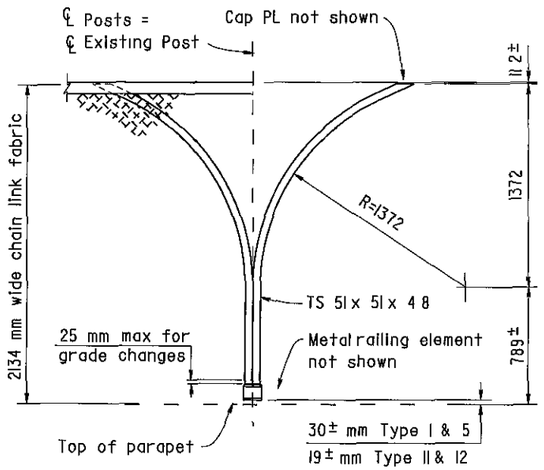
BARRIER RAILING SECTIONS

Existing chain link railing not shown

I 20

TYPE A
- NORTH AVE OC - 2 Locations
- CHURCH AVE OC - 4 Locations
- CALIFORNIA AVE OC - 4 Locations
- VENTURA ST OC - 4 Locations

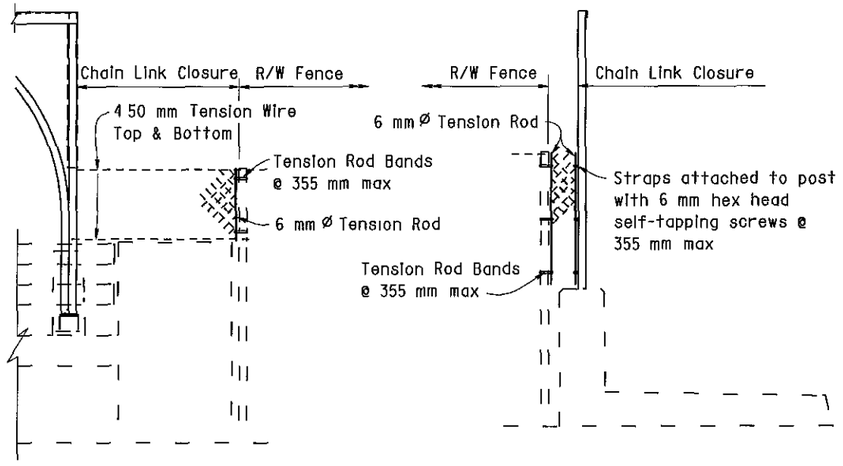
TYPE B
- KERN ST OC - 4 Locations
- TULARE ST OC - 4 Locations
- EL DORADO ST OC - 4 Locations



PART OUTSIDE ELEVATION

Note For details and notes not shown, see "Chain Link Railing Type 6 Mod No 1" sheet

I 10

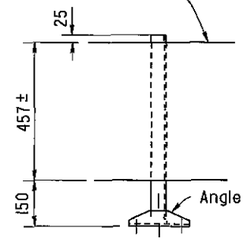


TYPE A TYPE B

R/W FENCE CONNECTION

I 10

Remove existing sign panels and reinstall on new post



TULARE ST OC

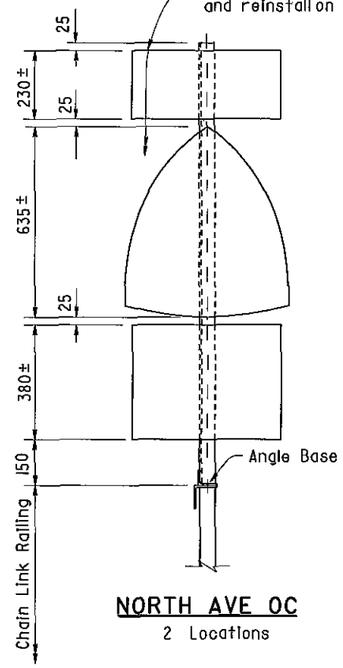
4 Loactions

Note

Reinstall signs at approximately the same location on chain link railing as existing

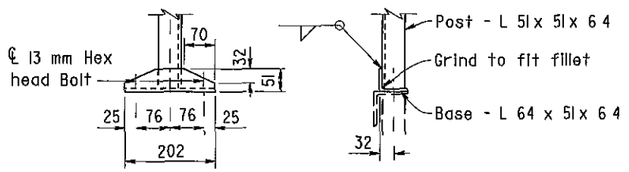
NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Remove existing sign panels and reinstall on new post



NORTH AVE OC

2 Locations



ANGLE BASE

Note

Hot dip galvanize sign post after fabrication
Field drilled holes to be painted with zinc rich paint

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

	BY		CHECKED	
DESIGN	D Acoba	5/00	F Tannous	5/00
DETAILS	K Endow	5/00	F Tannous	5/00
QUANTITIES	D Acoba	5/00	F Tannous	5/00

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
CHAIN LINK RAILING TYPE 6 MOD NO. 2

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE > nat62.dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/17/00 | 9/26/00 | 10/3/00

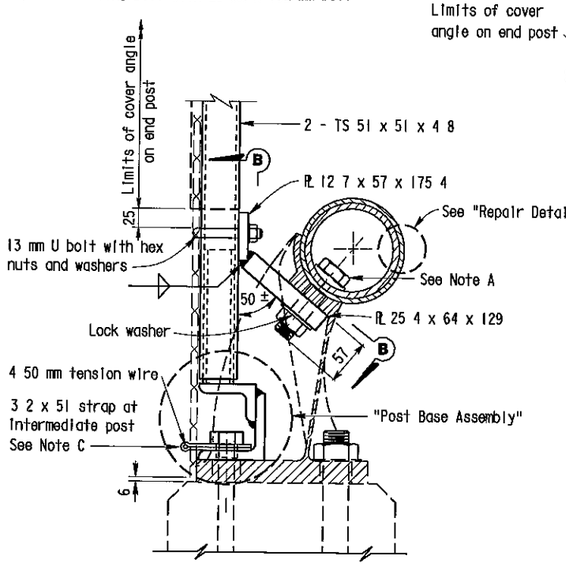
SHEET 9 OF 11

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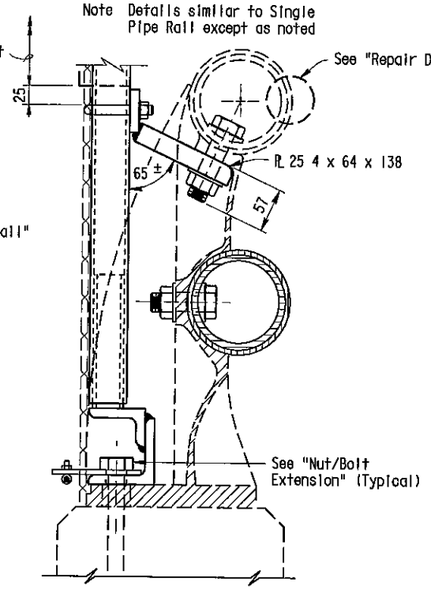
Note A

Replace existing bolt with 25 mm x 102 mm bolt



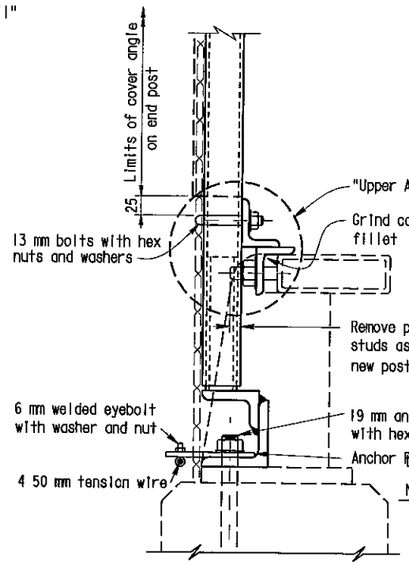
SECTION A-A (SINGLE PIPE RAIL)

Note Details similar to Single Pipe Rail except as noted



SECTION A-A (DOUBLE PIPE RAIL)

Note Details for Type 9 and Type 11 Metal Railing are similar, Type 11 not shown



SECTION A-A (TUBE RAIL)

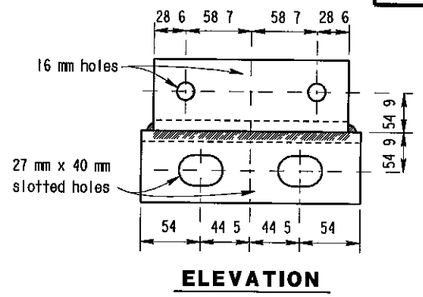
NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Note B

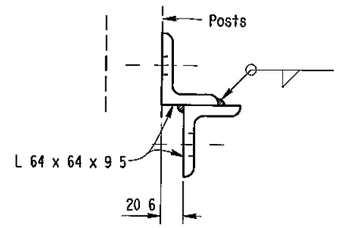
Paint all cut and ground surfaces with zinc rich paint

Note C

At intermediate posts only contractor has an alternate of 3 mm x 51 mm strap or 6 4 mm anchor plate with eyebolt



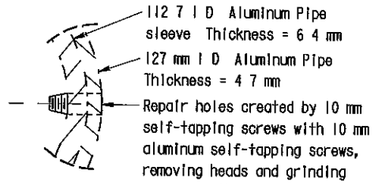
ELEVATION



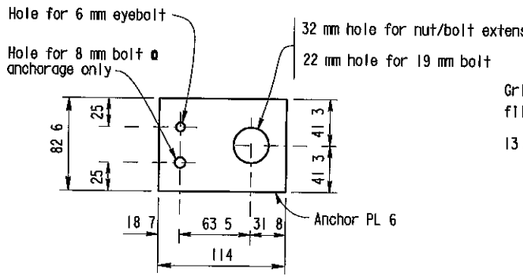
SIDE VIEW

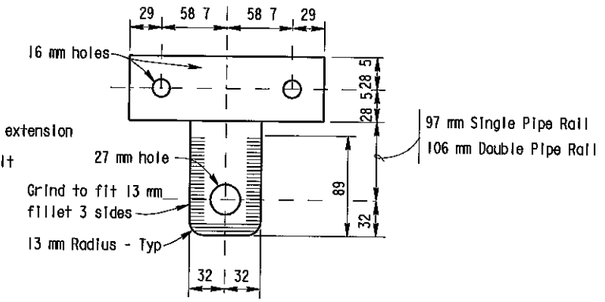
UPPER ANGLE BRACKET

ATTACHMENT DETAILS



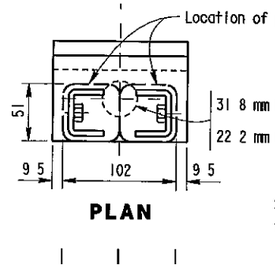
REPAIR DETAIL



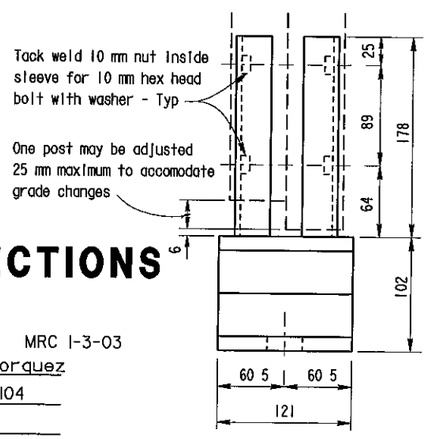


VIEW B-B

(Developed view of upper bracket)

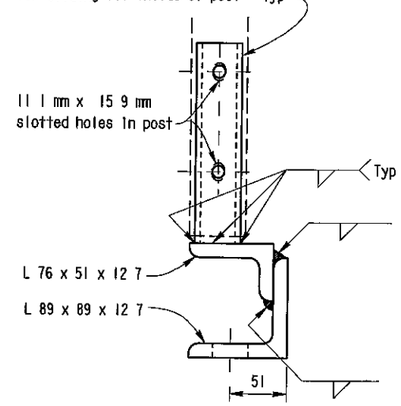


PLAN



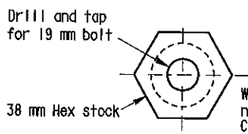
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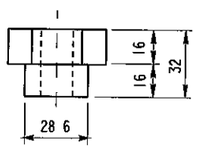
Sleeve formed from PL 4 7, bent thus ⊔ for sliding fit inside of post - Typ



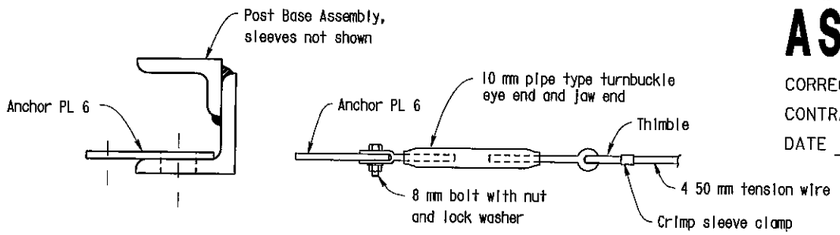
SIDE VIEW

POST BASE ASSEMBLY





NUT/BOLT EXTENSION



BOTTOM ANCHORAGE DETAIL

NO CORRECTIONS AS BUILT

MRC 1-3-03

CORRECTIONS BY John Borquez

CONTRACT NO 06-440104

DATE 11-14-02

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	132	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DIOSDADO ACOBA No 52003 Exp 12-31 02 CIVIL STATE OF CALIFORNIA

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DESIGN	BY D Acoba	5/00	CHECKED F Tannous	5/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY K Endow	5/00	CHECKED F Tannous	5/00	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE
QUANTITIES	BY D Acoba	5/00	CHECKED F Tannous	5/00	CU 06015 EA 440101

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
CHAIN LINK RAILING TYPE 6 MOD NO. 3

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

FILE > nat63 dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

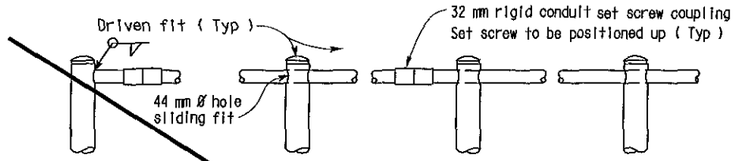
REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 7/17/00 9/26/00 10/3/00

SHEET 10 OF 11

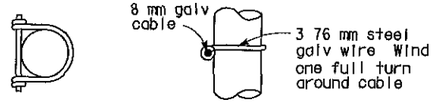
USERNAME > mgarlson DATE PLOTTED > 03 JAN 2003 TIME PLOTTED > 13:26

ClibPDF - www.fastio.com

RELEASED 6-9-98



END POST **INTERMEDIATE POSTS**



PLAN **ELEVATION**

DETAIL H

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
06	Fre	99	23 3/50 7	133	133

10-3-00
REGISTERED ENGINEER - CIVIL

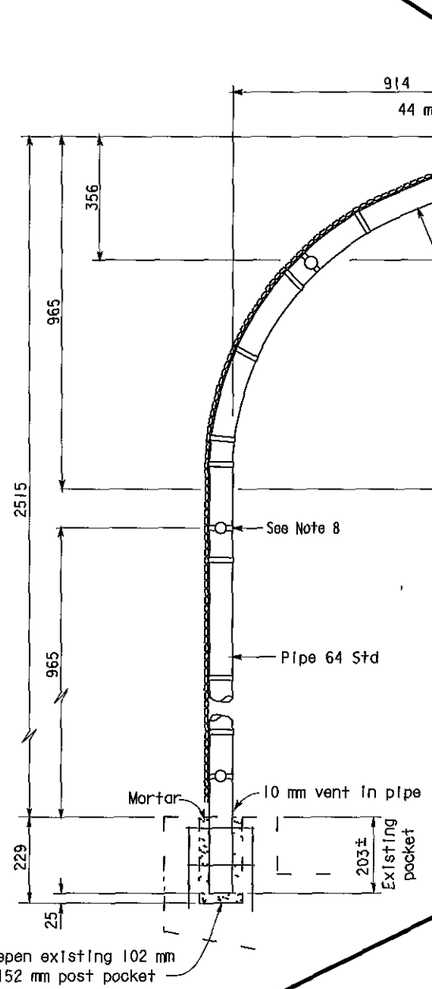
11-13-00
PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

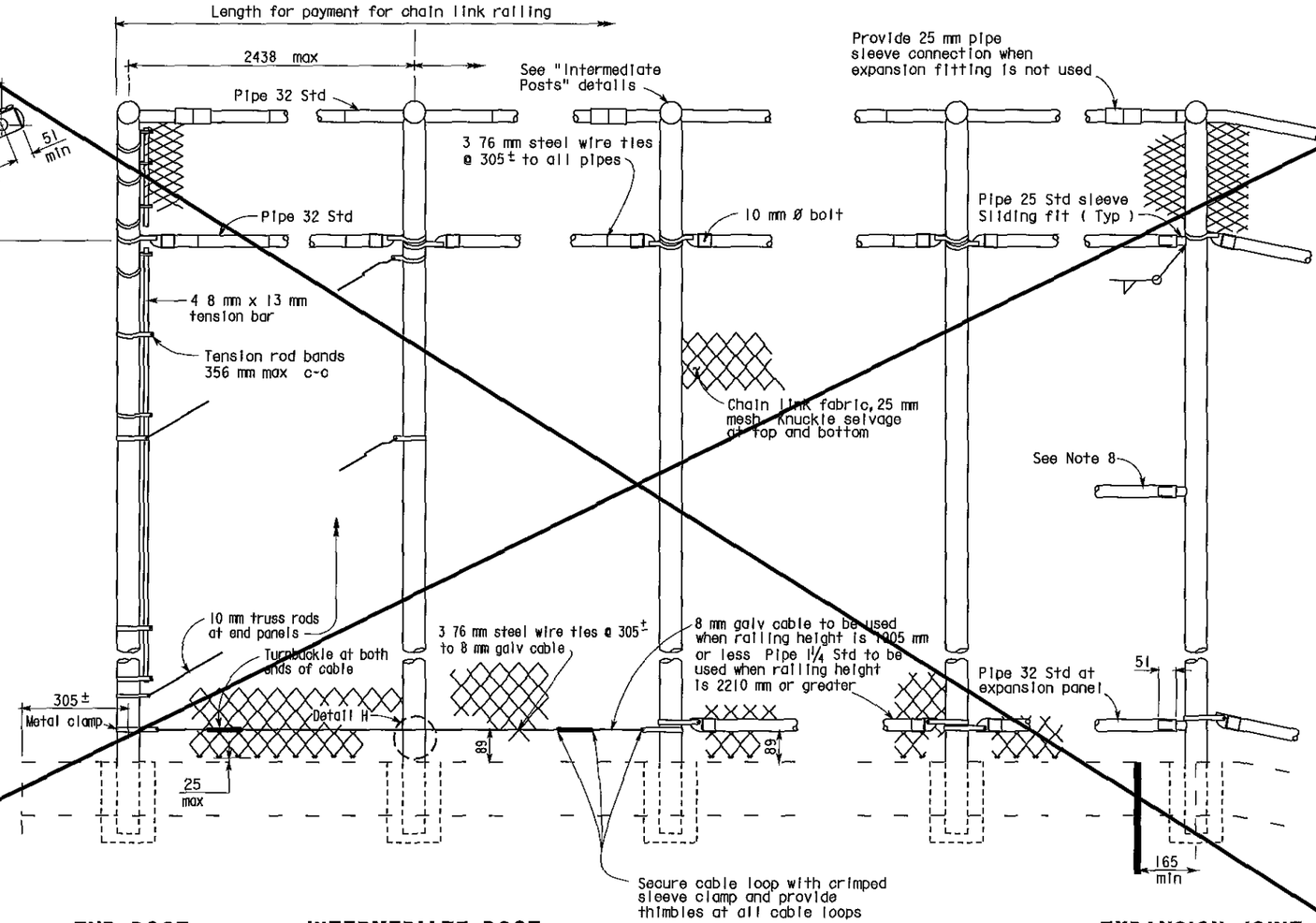
REGISTERED PROFESSIONAL ENGINEER
DIOSDADO ACOBA
No 52003
Exp 12 31 02
CIVIL
STATE OF CALIFORNIA

NOTES:

1 Railing assembly except chain link fabric to be galvanized after fabrication
2 Railing shall conform to horizontal and vertical alignment Posts shall be vertical Horizontal pipes shall be bent if radius is 45 72 m or less may be on 2 438 m chords If radius is over 45 72 m
3 Peen all 10 mm Ø bolts
4 When railing is on slope fabric shall parallel to slope
5 Alternative details may be submitted by Contractor for Engineer's approval
6 Additional pipe 32 std required on radius less than 45 72 m



TYPICAL POST DETAIL



END POST **INTERMEDIATE POST** **EXPANSION JOINT**

ELEVATION

Sheet Deleted

No Type 3 Modified Railing was used on this contract

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

SPECIAL DETAIL

NO SCALE
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

STANDARD DRAWING				
FILE NO XS 9 81	DESIGN BY R W BISHOP	CHECKED J HAMAGUCHI	APPROVAL RECOMMENDED BY	
DRAWING DATE Revised	DETAILS BY R YEE	CHECKED J HAMAGUCHI		
	SUBMITTED BY R W BISHOP		DESIGN SUPERVISOR	

DS OSD 2147A (METRIC) (REV 2/25/97)

1 Revised sheet - removed handrailing and electrical details and notes

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

CU 06105
EA 452001

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
CHAIN LINK RAILING TYPE 3 MOD 1

DISREGARD PRINTS BEARING EARLIER REVISION DATES
REVISION DATES (PRELIMINARY STAGE ONLY) 5/30/00 7/17/00 9/28/00 10/3/00

SHEET 11 OF 11

USERNAME > mgarlson
x5981 dgn
XS981 DGN

DATE PLOTTED > 03-JAN-2003 TIME PLOTTED > 13 32

ClibPDF - www.fastio.com

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	127	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

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FRESNO STREET OC 42-0170
QUANTITIES

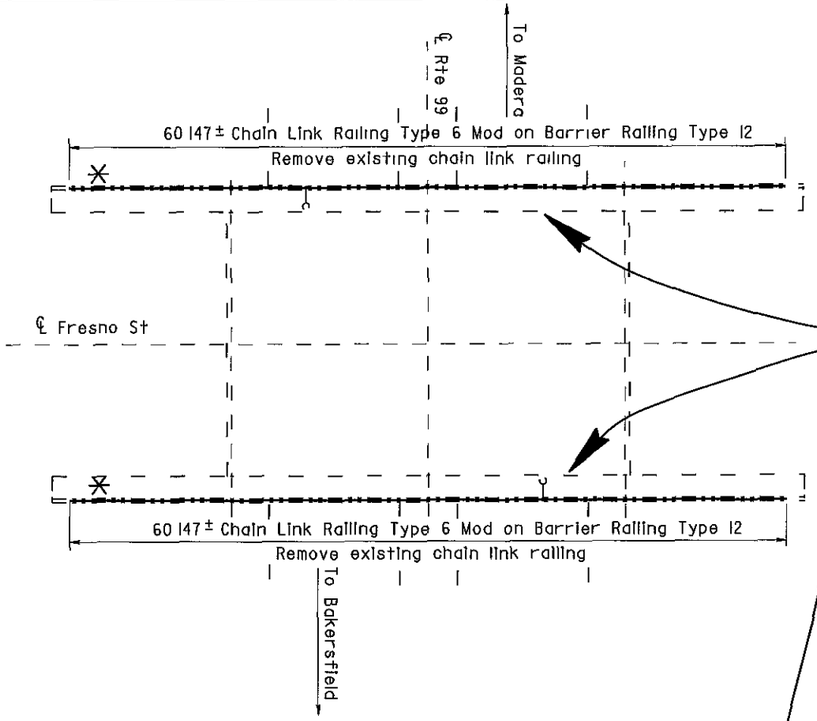
BRIDGE REMOVAL (PORTION), LOCATION J	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	120 m

EL DORADO STREET OC 42-0184
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION K	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	122 m

BELMONT AVENUE OC 42-0186
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION L	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	138 m



Handrail added to Fresno St. and Belmont Ave. OC

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

NOTES

— — Indicates existing

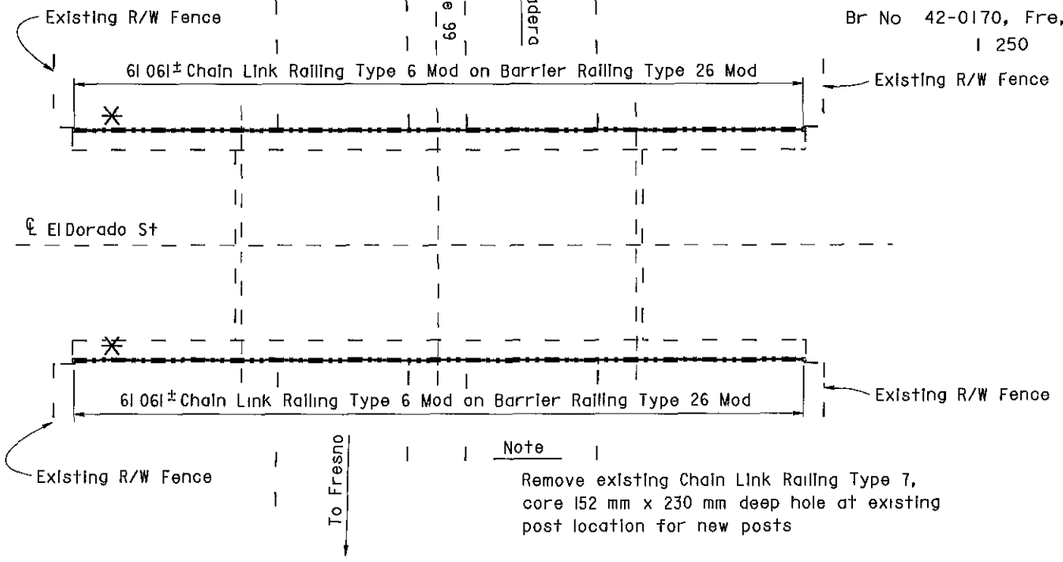
℄ Indicates approximate location of existing electrolier (To remain)

Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

FRESNO STREET OC

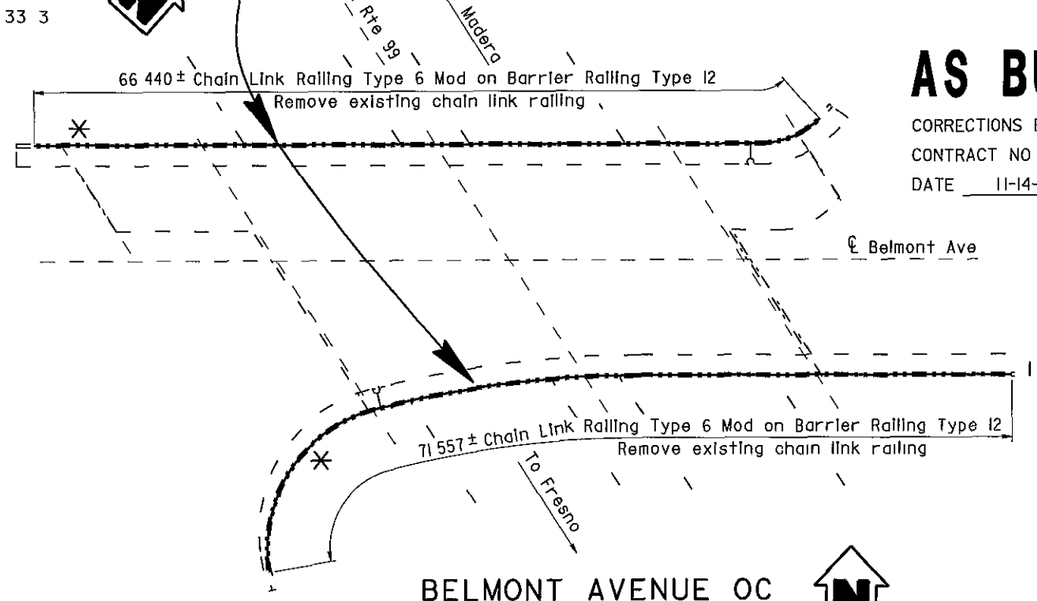
Br No 42-0170, Fre, KP 33 3
1 250



Note
Remove existing Chain Link Railing Type 7, core 152 mm x 230 mm deep hole at existing post location for new posts

EL DORADO STREET OC

Br No 42-0184, Fre, KP 34 6
1 250



BELMONT AVENUE OC

Br No 42-0186, Fre, KP 36 5
1 250

AS BUILT
MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED		LAYOUT	BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00		K Endow	4/00	D Acoba	4/00
DETAILS	K Endow	4/00	F Tannous	5/00				PLANS AND SPECS COMPARED	
QUANTITIES	D Acoba	5/00	F Tannous	5/00	SPECIFICATIONS	J Maroney	9/00	J Maroney	9/00

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

CU 06015
EA 440101

FILE => nogp5.dgn

BRIDGE NO	Various
KILOMETER POST	Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 5

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)									
5/15/00	7/17/00	9/26/00	10/3/00						

SHEET 5 OF 11

USERNAME => marison DATE PLOTTED => 03-JAN 2003 TIME PLOTTED => 06 50

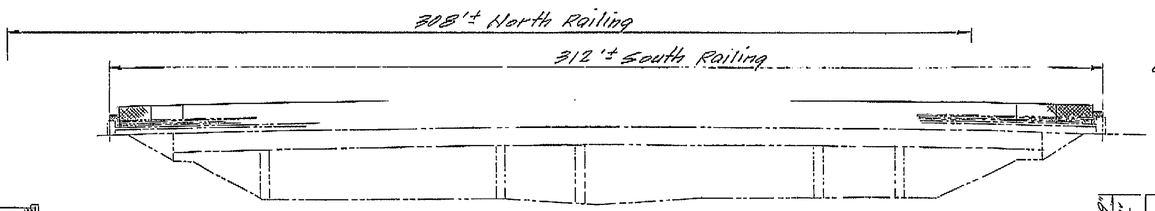
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	17.3/11.1	2	24

BRIDGE ENGINEER — REGISTERED CIVIL ENGINEER NUMBER 23903

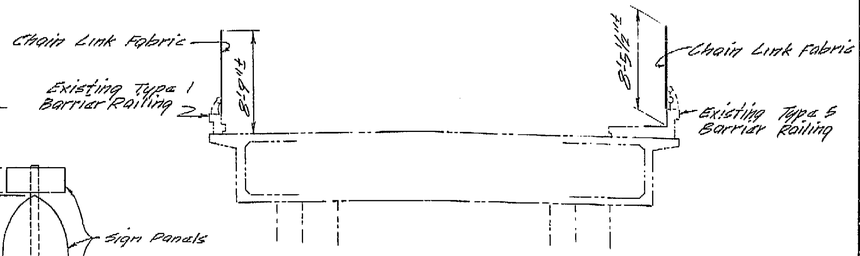
ASSISTANT STATE HIGHWAY ENGINEER — REGISTERED CIVIL ENGINEER NUMBER 2590

DATE APPROVED December 31 1973

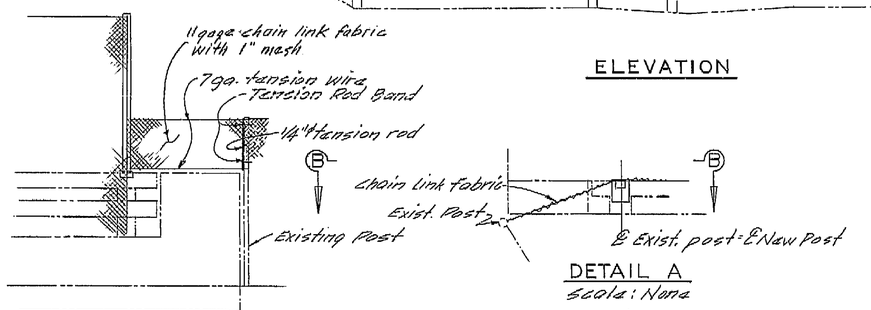


ELEVATION

NOTE:
THE CONTRACTOR SHALL VERIFY ALL DEPENDENT DIMENSIONS IN THE FIELD BEFORE ORDERING OR FABRICATING ANY MATERIAL.

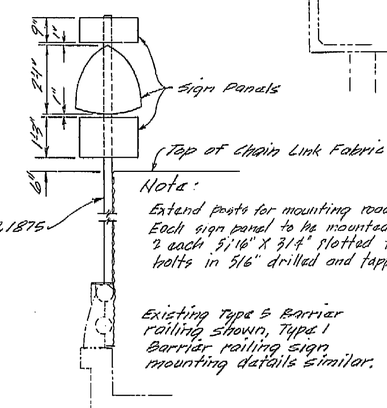


TYPICAL SECTION



ELEVATION B–B
Scale: None

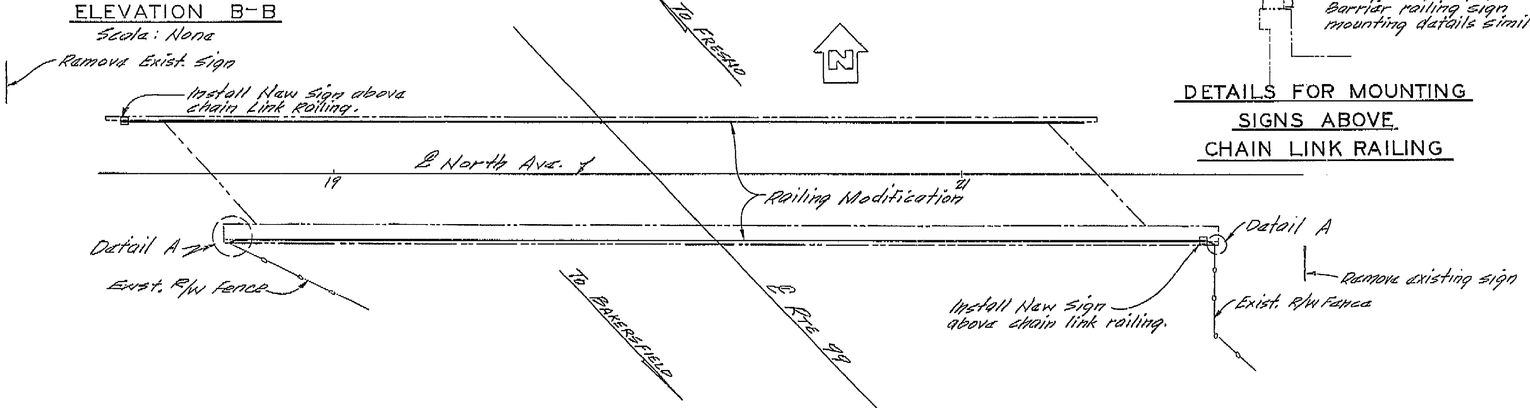
DETAIL A
Scale: None



Note:
Extend posts for mounting roadside signs. Each sign panel to be mounted with 2 each 5/16" X 3/4" plotted truss head bolts in 5/16" drilled and tapped holes.

Existing Type 5 Barrier railing shown, Type 1 Barrier railing sign mounting details similar.

DETAILS FOR MOUNTING SIGNS ABOVE CHAIN LINK RAILING



PLAN

APPROXIMATE QUANTITIES

REMOVE ROADSIDE SIGN (WOOD POST)	2 EA
MODIFY BRIDGE RAILING (LOCATION A)	620 LF
INSTALL SIGN PANEL (METAL POST)	6 EA

INDEX TO PLANS

Sheet No.	Title
1	General Plan
2	Chain Link Railing Details (1)
3	Chain Link Railing Details (2)

AS BUILT PLANS
Contract No. 06-127904
Date Completed 7-18-74
Document No.

AS BUILT PLANS
Contract No. 06-127904
Date Completed 12-73
Document No. 06 000 2092

BRIDGE DEPARTMENT
DESIGN SECTION 13
Section Supervisor J. C. Blanchard
Project Engineer Jack Hamilton

DESIGN	By W. Lowe 8/73	Checked J. Hamilton 11-73
DETAILS	By W. Lowe 8/73	Checked J. Hamilton 11-73
LAYOUT	By W. Lowe 8/73	Checked J. Hamilton 11-73
QUANTITIES	By W. Lowe 7/73	Checked J. Hamilton 11-73
SPECIFICATIONS	By J. Berlert 1/74	Checked Bridge and Structure Engineer

Approved Recommended by D. C. Swanson, Design Engineer — Registered Civil Engr. License No. 5913

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

NORTH AVENUE OVERCROSSING
RAILING MODIFICATION

GENERAL PLAN

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-210	17.25		1	3

WO 127901
CU 066351

Disregard prints bearing earlier revision dates

REVISION DATES (PRELIMINARY STAGE ONLY)

9/9/74	9/10							

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE	SIGNATURE	TITLE
11/29/74	Dick Meadors	Microfilm Supervisor

MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM
SCALE 1"=50'
SCALE 1"=20'
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre, Mad	99	17.3 / 11.1	5	24

DESIGN ENGINEER — REGISTERED CIVIL ENGINEER NUMBER 9310

ASSISTANT STATE HIGHWAY ENGINEER — REGISTERED CIVIL ENGINEER NUMBER 9310

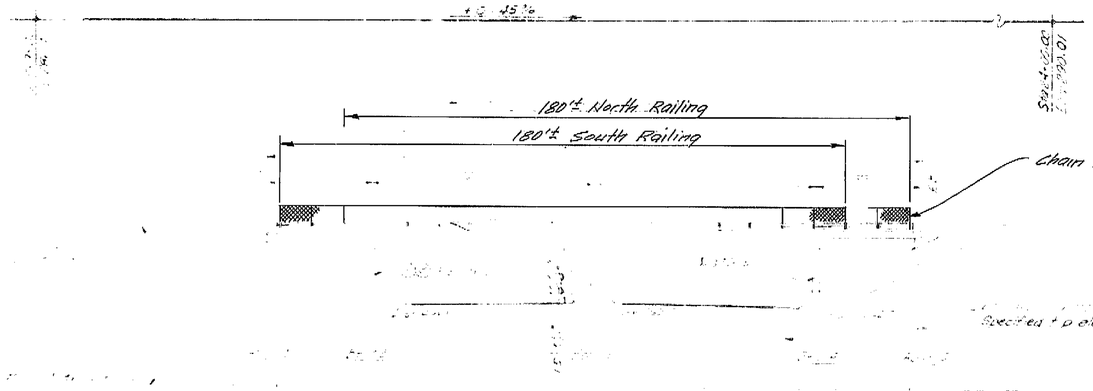
DATE APPROVED: December 31, 1973

APPROXIMATE QUANTITIES

REMOVE LIGHTWEIGHT SIGN STRUCTURE	2 EA
MODIFY BRIDGE RAILING (LOCATION B)	360 LF

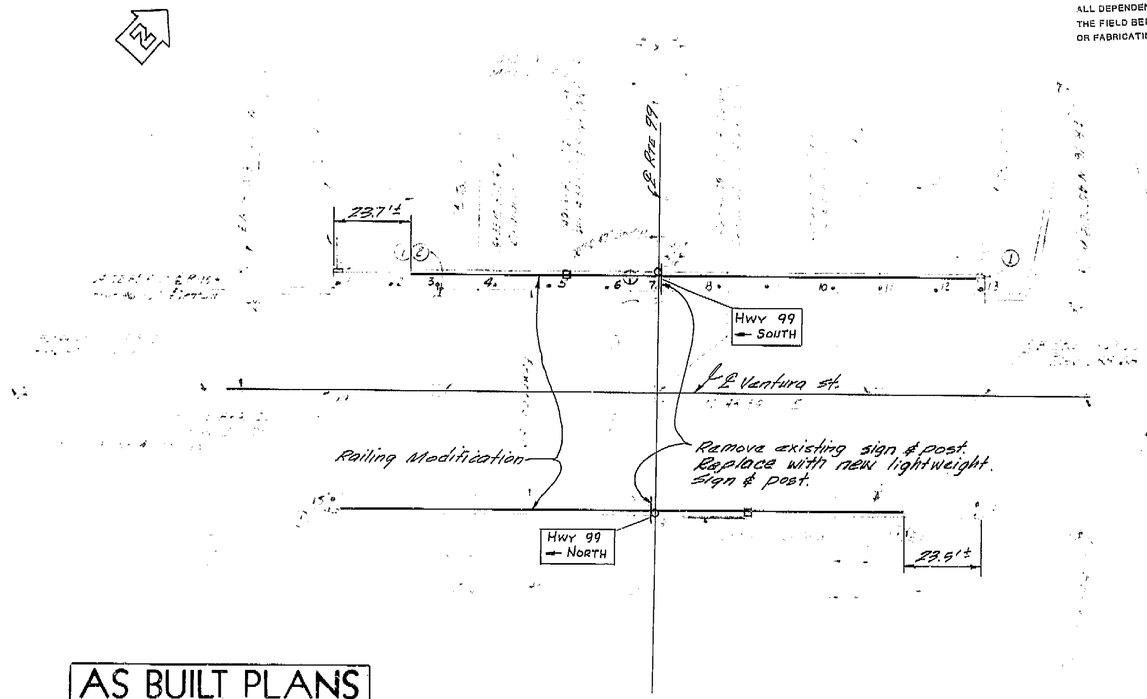
FINAL PAY QUANTITIES

SIGN STRUCTURE (LIGHTWEIGHT)	1,340 LB



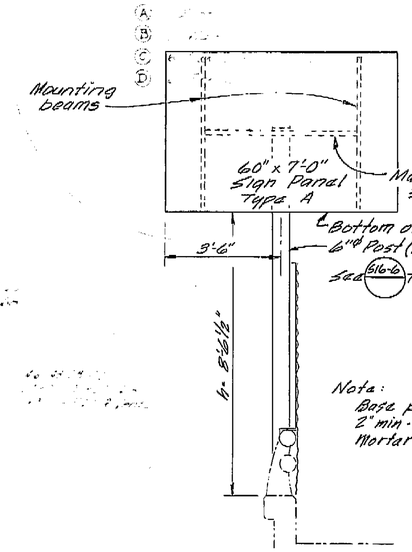
ELEVATION

NOTE:
THE CONTRACTOR SHALL VERIFY ALL DEPENDENT DIMENSIONS IN THE FIELD BEFORE ORDERING OR FABRICATING ANY MATERIAL.



PLAN

LIVE LOADING H20 S16 44 AASHTO ALTERNATIVE



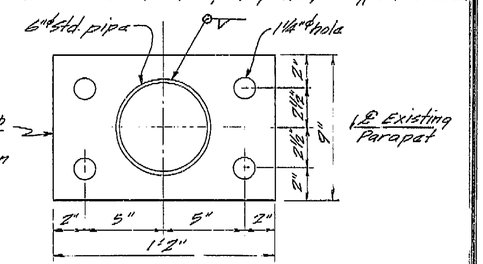
SIGN POST DETAILS

TYPICAL SECTION

Standard Plan Sheet No.
Detail No.

INDEX TO PLAN

Sheet No.	Title
1.	General Plan
2.	Chain Link Railing Details.
Standard Plans Dated Jan 1973	
516-6	Overhead Sign Lightweight Type B Conn. Det.



Note:
Base plate be set on 2" min - 3" max thick Mortar Pad.

SIGN POST BASE PLATE

BRIDGE DEPARTMENT
DESIGN SECTION 13
Section Supervisor: R.C. Beckstead
Project Engineer: Alec Thomas

DESIGN	W. Louie 3/73	Checked	A. Thomas 7-73
DETAILS	W. Louis 3/73	Checked	A. Thomas 7-73
LAYOUT	W. Louie 3/73	Checked	A. Thomas 7-73
QUANTITIES	W. Louie 7/73	Checked	A. Thomas 7-73
SPECIFICATIONS	T. Berbert 11/74	Field and Prem. Complete	

Approved Recommended by: R.C. Beckstead, Senior Engineer — Registered Civil Engr. License No. 9310

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

VENTURA STREET OVERCROSSING
RAILING MODIFICATION

GENERAL PLAN

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-158	20.19		1	2

AS BUILT PLANS
Contract No. 06-127904
Date Completed 7-18-74
Document No. —

AS BUILT PLANS
Contract No. 06-127904
Date Completed 12-73
Document No. 06 002092

WO 127901
CU 06351

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

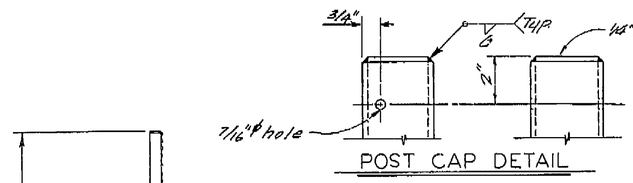
DATE 11/29/79 SIGNATURE Jack Meadows TITLE Microfilm Supervisor

MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM
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SCALE 1"= 20' 0 100 200 300
ClibPDF - www.fastio.com

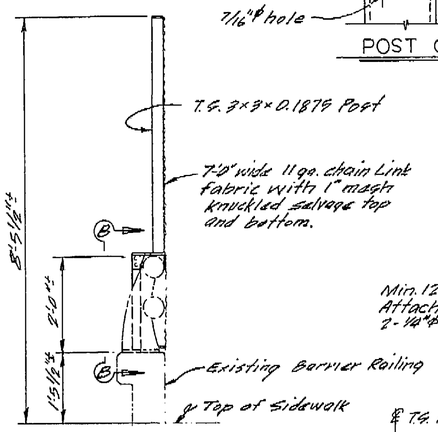
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06	Fre.Mad	99	17.3/11.1	4	24

8695

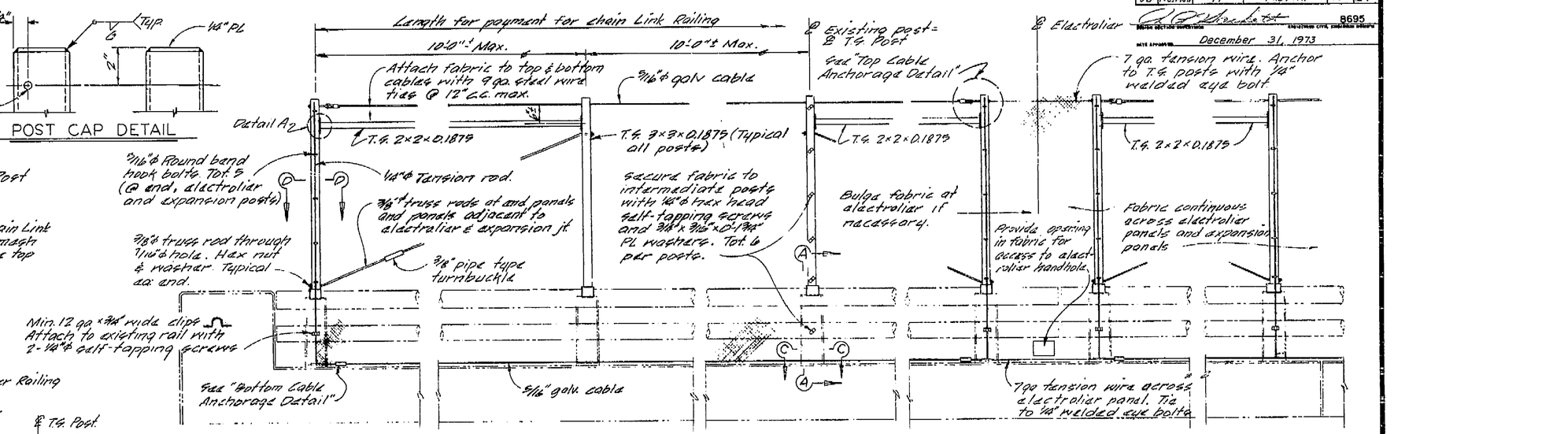
DATE APPROVED December 31, 1973



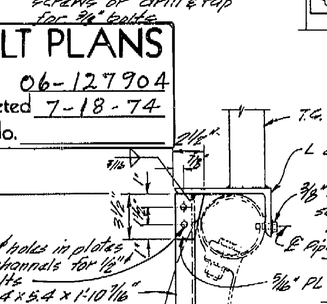
POST CAP DETAIL



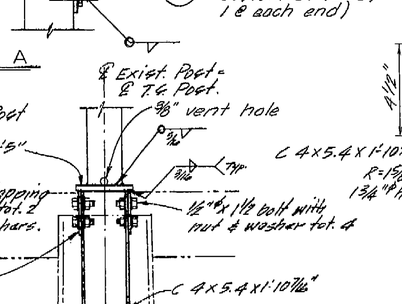
TYPICAL SECTION

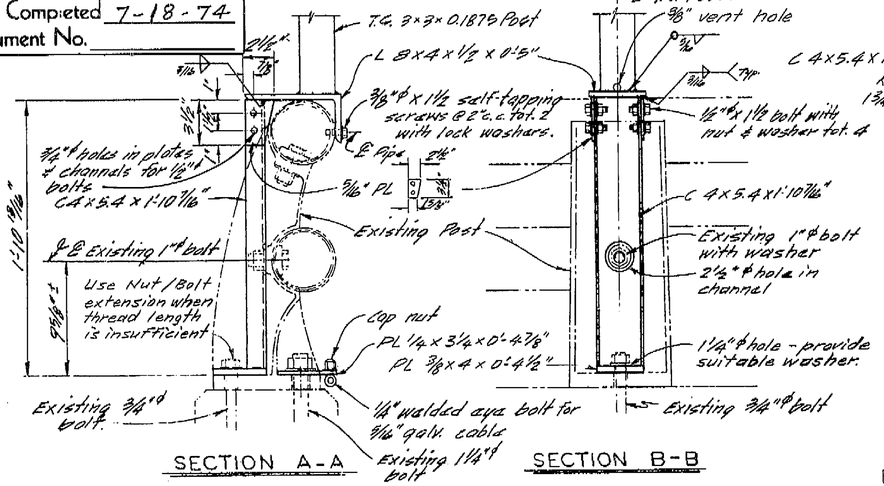


ELEVATION



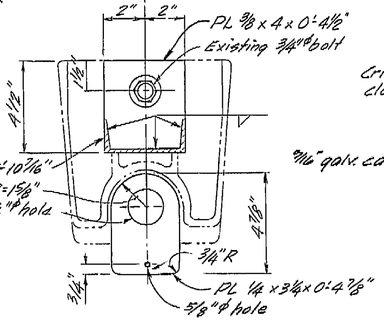
DETAIL A

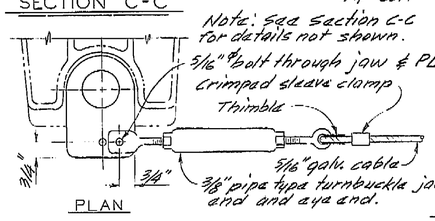




SECTION A-A

SECTION B-B

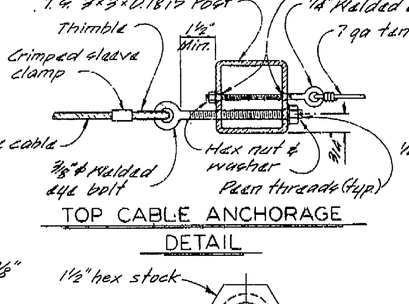




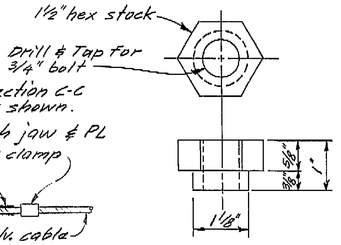
SECTION C-C

PLAN

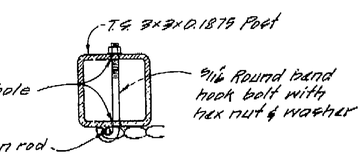
BOTTOM CABLE ANCHORAGE DETAIL



TOP CABLE ANCHORAGE DETAIL



NUT / BOLT EXTENSION



SECTION D-D

Notes:

1. Railing assembly except chain link fabric to be galvanized after fabrication.
2. Where railing is on slope, chain link fabric shall be placed parallel to slope.
3. Post extensions and chain link fabric shall conform to horizontal and vertical alignment. Post extensions shall be vertical. Horizontal pipes shall be bent if radius is 150 ft. or less and may be on 10 ft chords if radius is over 150 ft.
4. Peen all exposed bolts.
5. Provide thimbles at all cable loops.
6. Existing structure shown thus: ——— ——— ———
7. Alternative details may be submitted by Contractor for Engineers approval.

RAILING MODIFICATION

④ Existing Type 5 Barrier Railing with Aluminum Post (7-1-75)

DESIGN	By M. Pohll 6/73	Checked Joe Pohll 6-73	State of CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE DEPARTMENT DESIGN SECTION 13	BRIDGE NO. 42-210
DETAILS	By K. Endow 6/73	Checked Joe Pohll 6-73		PROJECT ENGINEER Joe Pohll	POST MILE 17.25
QUANTITIES	By W. Louie 7/73	Checked A. Pohll 7-73			
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		CU WO	Disregard prints bearing earlier revision dates →		

NORTH AVENUE OVERCROSSING

CHAIN LINK RAILING DETAILS ②

REVISION DATES (PRELIMINARY STAGE ONLY) | SHEET 3 | OF 3

AS BUILT PLANS
Contract No. 06-127904
Date Completed 7-18-74
Document No.

AS BUILT PLANS
Contract No. 06-127904
Date Completed 12-73
Document No. 06 00 2092

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 11/29/74 SIGNATURE Scott Meadows TITLE Microfilm Supervisor

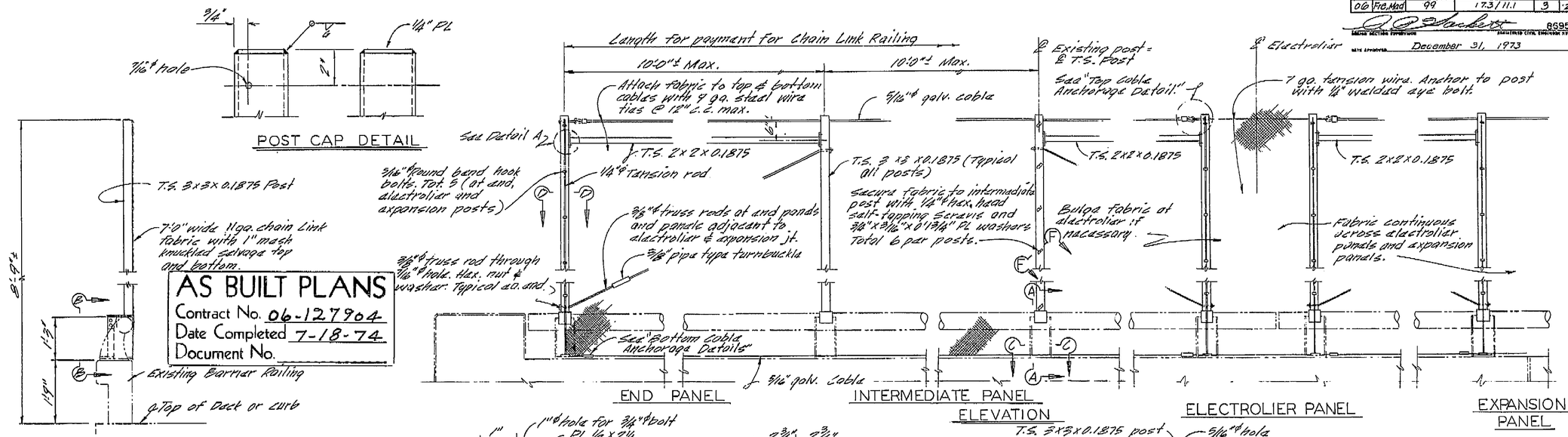
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SCALE 1"= 50'
SCALE 1"= 20'

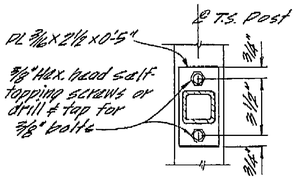
ClibPDF - www.fastio.com

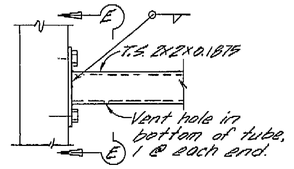
DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre.Mad	99	17.3/11.1	3	24

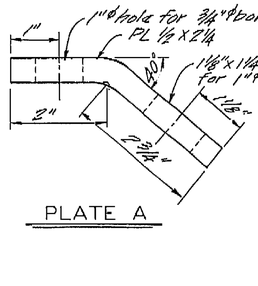
8695
REGISTERED CIVIL ENGINEER

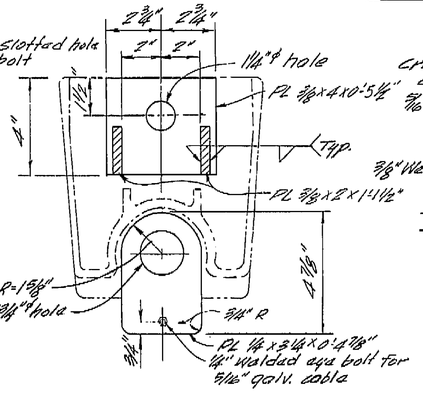
DATE APPROVED December 31, 1973

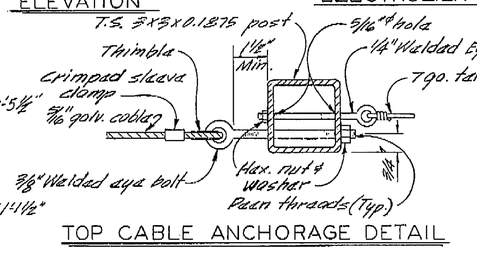


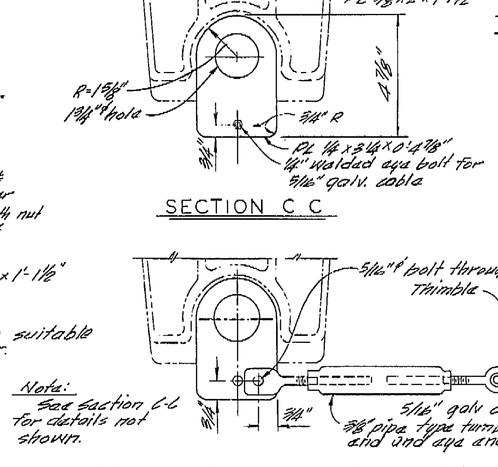


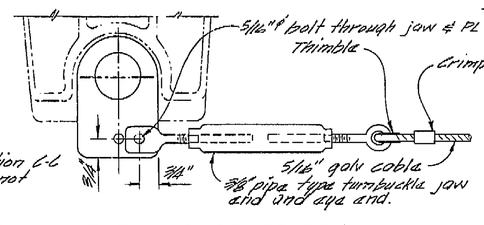


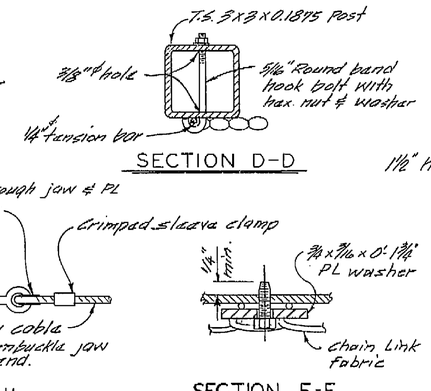


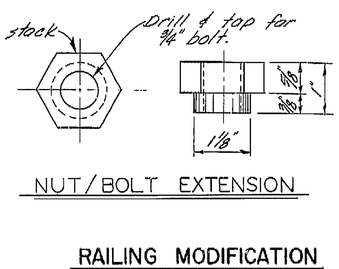












NOTES

1. Railing assembly except chain link fabric to be galvanized after fabrication.
2. When railing is on slope, chain link fabric shall be placed parallel to slope.
3. Post extensions and chain link fabric shall conform to horizontal and vertical alignment. Post extensions shall be vertical. Horizontal pipes shall bent if radius is 150' or less and may be on 10' chords if radius is over 150'.
4. Peen all exposed bolts.
5. Provide thimbles at all cable loops.
6. Existing structure shown thus: ——--——
7. Alternative details may be submitted by Contractor for Engineers approval.

RAILING MODIFICATION

(6-b) Existing Type 1 Barrier Railing with aluminum post. (7-17-73)

AS BUILT PLANS
Contract No. 06-127904
Date Completed 7-18-74
Document No.

DESIGN	By M. Pohill 10-72	Checked B. Cochran 1/72	
DETAILS	By K. Endow 7/73	Checked B. Cochran 1/72	
QUANTITIES	By W. Louis 7/73	Checked	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

State of CALIFORNIA
DEPARTMENT OF TRANSPORTATION

BRIDGE DEPARTMENT
DESIGN SECTION 13
PROJECT ENGINEER

BRIDGE NO. 42-210
POST MILE 17.25

NORTH AVENUE OVERCROSSING
CHAIN LINK RAILING DETAILS (1)

CU
WO

Disregard prints bearing earlier revision dates

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 2 OF 3

3

AS BUILT PLANS
Contract No. 06-127904
Date Completed 12-73
Document No. 06 0002092

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 11/29/74 SIGNATURE Dick Meadows TITLE Microfilm Supervisor

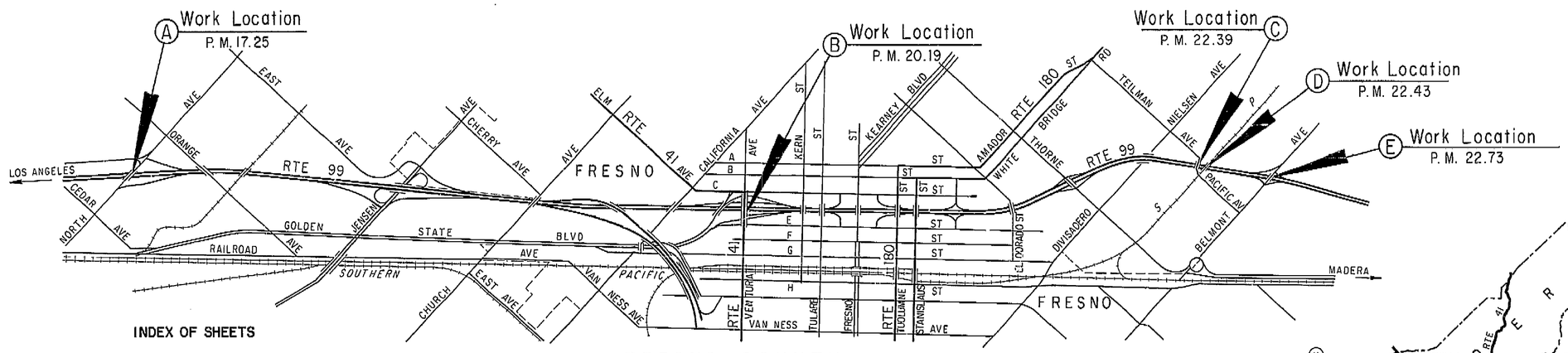
ClibPDF - www.fastio.com

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"= 50' SCALE 1"= 60' SCALE 1"= 20' SCALE 1"= 20'

Dist.	County	Route	Post Miles	Sheet No.	Total Sheets
06	Fre. Mad	99	17.3 / 11.1	1	24

R H Ramsey
DISTRICT DIRECTOR OF TRANSPORTATION
REGISTERED CIVIL ENGINEER NO. 10644

DATE APPROVED December 31, 1973



FRESNO COUNTY

INDEX OF SHEETS

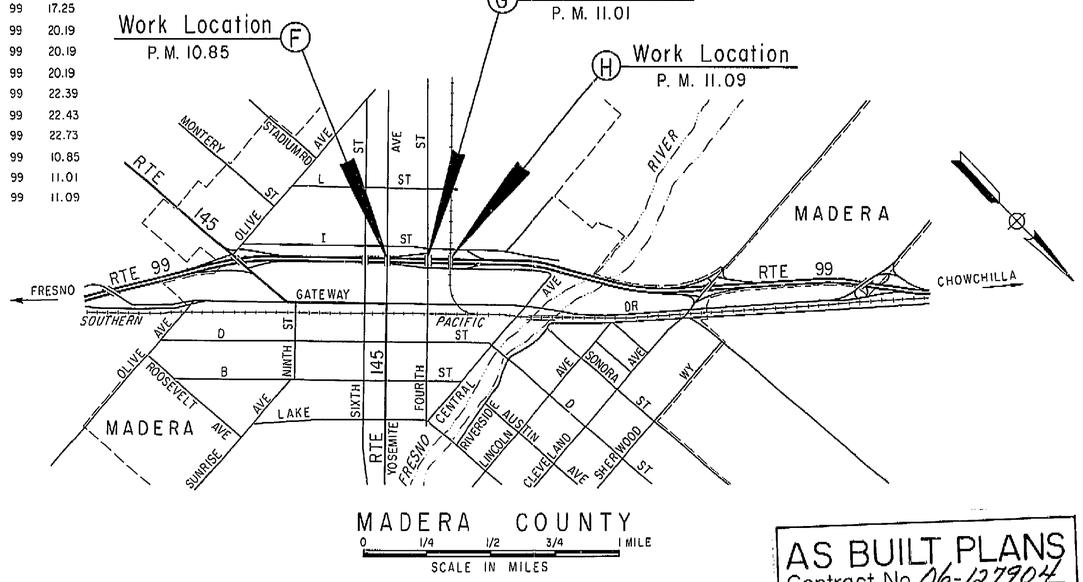
SHT. NO.	LOC.		BRIDGE NO	COUNTY	RTE	P.M.
1		TITLE SHEETS				
		STRUCTURE (RAILING MODIFICATION)				
2-4	A	NORTH AVENUE OVERCROSSING	42-210	FRE	99	17.25
		VENTURA STREET OVERCROSSING	42-158	FRE	99	20.19
5-10	B	VENTURA STREET OVERCROSSING	42-158S	FRE	99	20.19
		VENTURA STREET OVERCROSSING	42-158K	FRE	99	20.19
11-12	C	PACIFIC AVENUE OVERCROSSING	42-189	FRE	99	22.39
13-15	D	KERMAN BRANCH UNDERPASS	42-190	FRE	99	22.43
16-17	E	BELMONT AVENUE OVERCROSSING	42-186	FRE	99	22.73
18-19	F	W. YOSEMITE AVE OVERCROSSING	41-49	MAD	99	10.85
20-21	G	W. FOURTH ST OVERCROSSING	41-50	MAD	99	11.01
22-24	H	MADERA UNDERPASS	41-51	MAD	99	11.09

APPLICABLE STANDARD PLANS

A 78-6
S 16-6
S 44-6

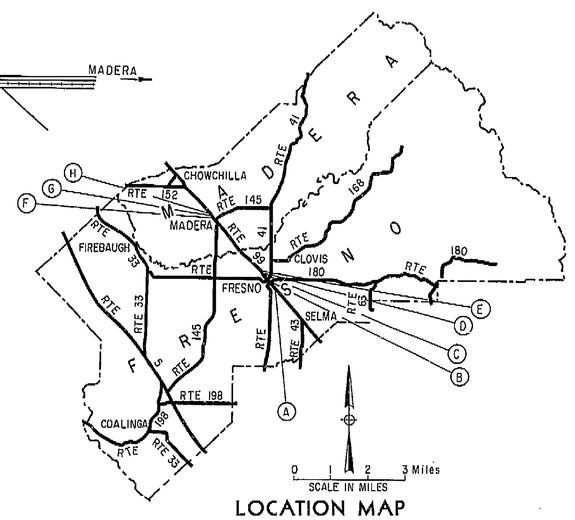
CONTRACTOR: C.F. SHEA CO. INC.
RES. ENGR: F.W. LOWELL

AS BUILT PLANS
Contract No. 06-127904
Date Completed 7-18-74
Document No.



MADERA COUNTY

0 1/4 1/2 3/4 MILE
SCALE IN MILES



LOCATION MAP

STATE OF CALIFORNIA
BUSINESS AND TRANSPORTATION AGENCY
DEPARTMENT OF TRANSPOPTATION

PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY

IN FRESNO AND MADERA COUNTIES AT VARIOUS LOCATIONS FROM NORTH AVENUE OVERCROSSING, ABOUT 2.0 MILES SOUTH OF FRESNO, TO MADERA UNDERPASS IN MADERA

to be supplemented by Standard Plans dated January, 1973

Contract No. 06-127904

06 351 127901

FORM NO. H-0.180 (8-71)

Project Engineer	Date	Design Engineer	Date	Approved Recommended By	Date
E.T. Ulshafer	2/13	Kendall	2/21	Kramer	2/25

AS BUILT PLANS
Contract No. 06-127904
Date Completed 12-73
Document No. 06 ooa2092

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DATE 11/29/74 SIGNATURE Dick Meadows TITLE Microfilm Supervisor

DAS-65-78

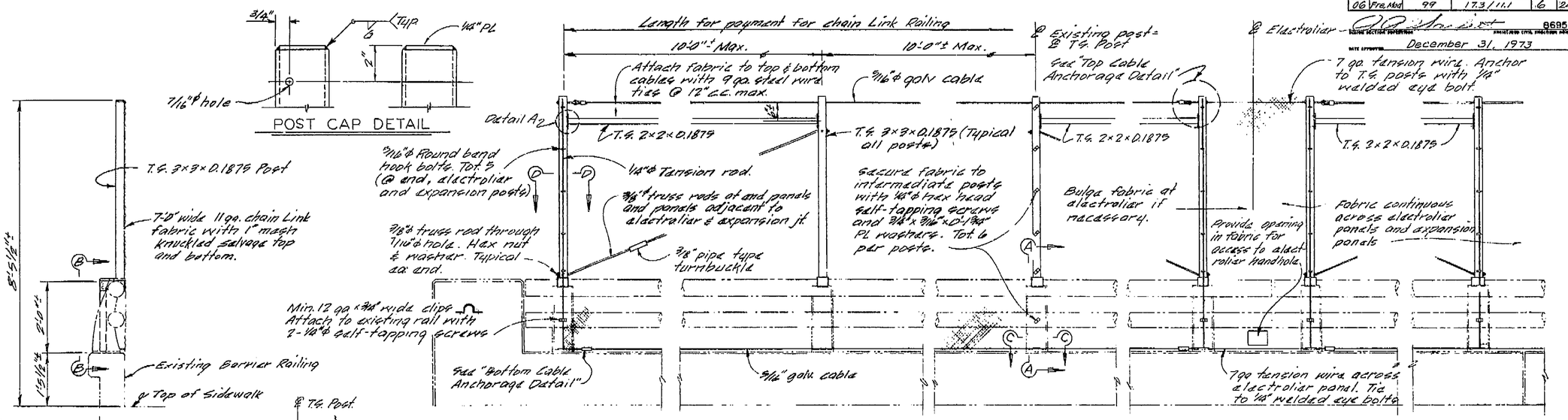
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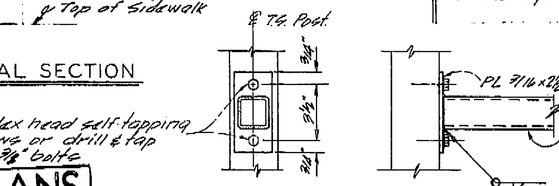
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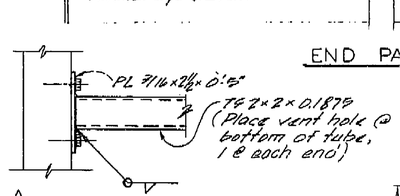
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06	Fre.Mad	99	17.3/11.1	6	24

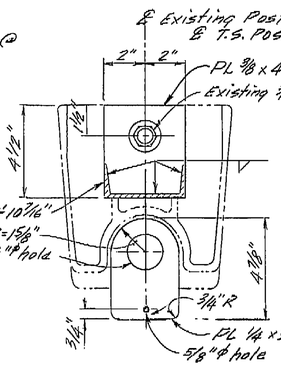
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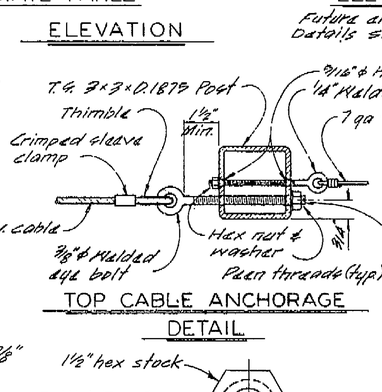
DATE APPROVED December 31, 1973

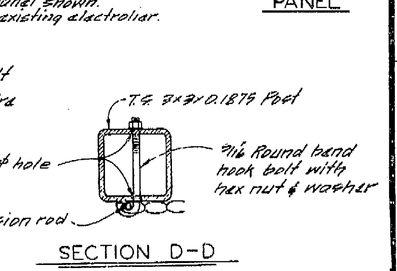


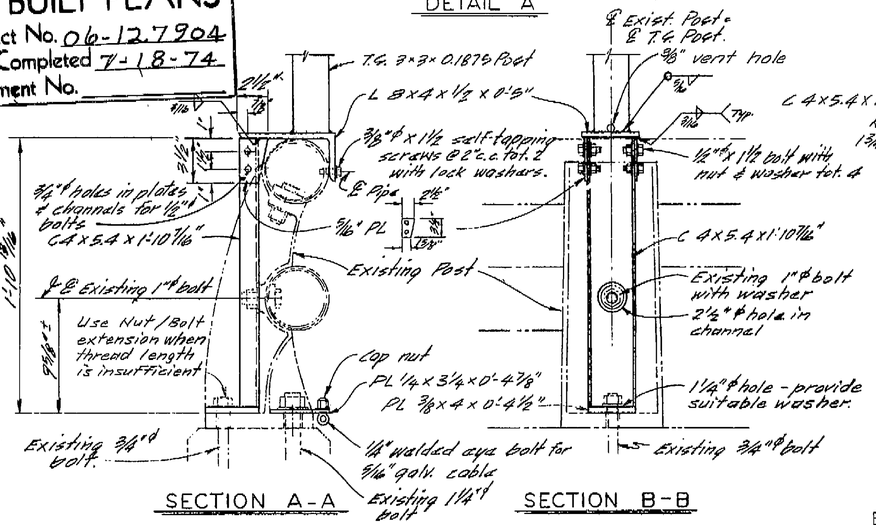


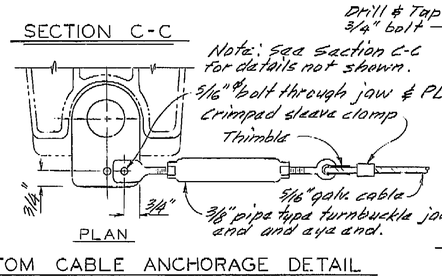


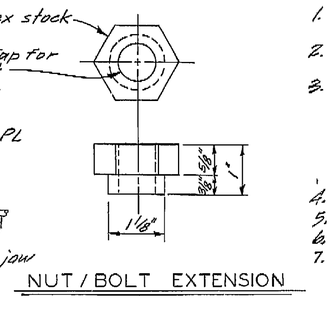












Notes:

1. Railing assembly except chain link fabric to be galvanized after fabrication.
2. When railing is on slope, chain link fabric shall be placed parallel to slope.
3. Post extensions and chain link fabric shall conform to horizontal and vertical alignment. Post extensions shall be vertical. Horizontal pipes shall be bent if radius is 150 ft. or less and may be on 10 ft chords if radius is over 150 ft.
4. Paint all exposed bolts
5. Provide thimbles at all cable loops.
6. Existing structure shown thus: ———
7. Alternative details may be submitted by Contractor for Engineers approval.

RAILING MODIFICATION

④ Existing Type S Barrier Railing with Aluminum Post (7-1-73)

DESIGN	By M.Pohll 6/73	Checked Joe Bonuta 6-73	State of CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE DEPARTMENT DESIGN SECTION 13	BRIDGE No. 42-158
DETAILS	By K. Emdow 6/73	Checked Joe Bonuta 6-73		PROJECT ENGINEER Joe Bonuta	POST MILE 20.19
QUANTITIES	By W. Louie 7/73	Checked Joe Bonuta 7-1-73			

VENTURA STREET OVERCROSSING
CHAIN LINK RAILING DETAILS

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU WO

Disregard prints bearing earlier revision dates

REVISION DATES (PRELIMINARY STAGE ONLY) 3/74

SHEET 2 OF 2

AS BUILT PLANS
Contract No. 06-127904
Date Completed 7-18-74
Document No.

AS BUILT PLANS
Contract No. 06-127904
Date Completed 12-73
Document No. 06 000 2092

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DATE 11/29/74 SIGNATURE Scott Wyeatt TITLE Micrographic Supervisor

MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM
SCALE 1"= 50'
SCALE 1"= 20'
ClibPDF - www.fastio.com

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VI	Fre	99	A [illegible] B [illegible]	[illegible]	ACCEPTED

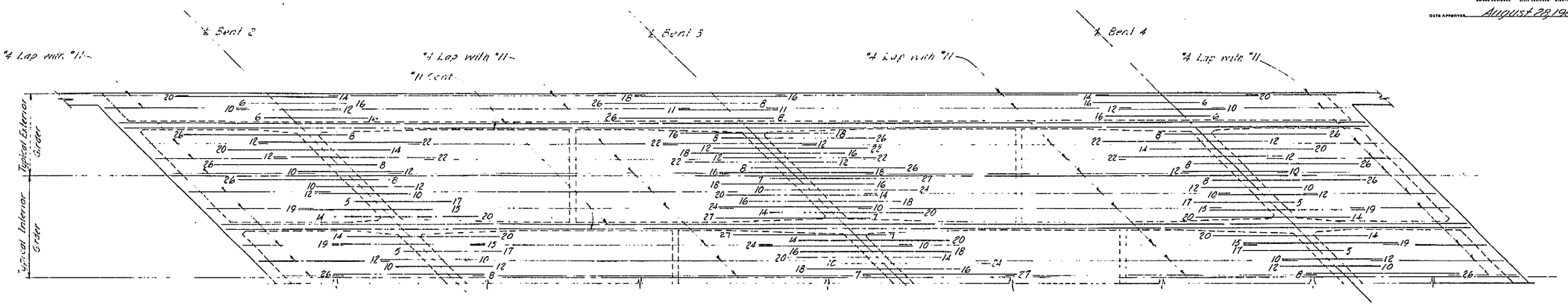
BRUNO CENDESE CIVIL ENGINEER LICENSE 6583

DATE APPROVED August 28, 1961

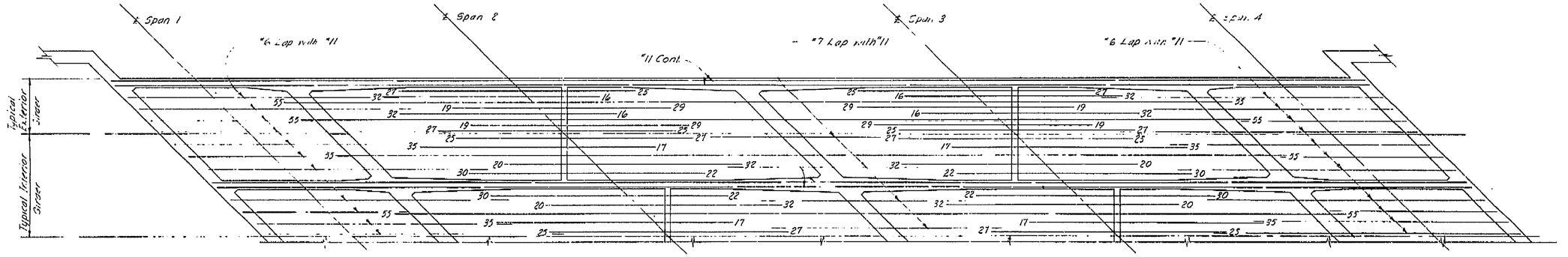
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U-006-2(6)
F-006-2(5)

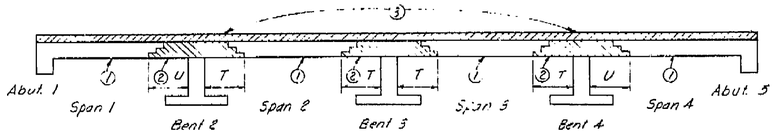
VI | Fre | 99



TOP REINFORCEMENT



BOTTOM REINFORCEMENT



BOX GIRDER SUPERSTRUCTURE PLACING DIAGRAM

Numbers ①, and ②, indicate sequence of placing bottom slab and girder stem concrete ② may be placed simultaneously with ① when approved by the Engineer, and provided that the ① sections are placed in adjoining spans.

Top concrete ③ shall be placed separately from ① and ②. ③ may be placed continuously or in parts as approved by the Engineer, however the only joints permitted shall be located within 2'-0" of the girder joints between ① and ②.

T = ¼ Span length

U = ¼ Span length

For any deviation from the above the Contractor shall submit a diagram to the Engineer.

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED _____, AS SUBMITTED BY RESIDENT ENGINEER.
PLANS CORRECTED BY: _____ DATE: _____

Note. All bars are "11 except as noted.
Numbers at ends of bars indicate distance in feet from ℄ Bent for Top Reinforcement or from ℄ Span for Bottom Reinforcement.
No splicing of "11 bars permitted near ℄ Bent in Top Reinforcement or near ℄ Span in Bottom Reinforcement.

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer: [illegible]
Chief Designer: W. J. Jukevich

DESIGN	By K. D. Arnold 7/60	Checked [illegible] 7/60
DETAILS	By Y. Nakayama 7/60	Checked [illegible] 7/60
QUANTITIES	By [illegible] 7-60	Checked P.E. Carlson 7/60
SPECIFICATIONS	By	Plans and Report Examined

Approval Recommended by: [illegible] Engineer of Design — Civil and Structural Head Licensed No. 9458

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

NORTH AVENUE OVERCROSSING

GIRDER REINFORCEMENT

SCALE: None | BRIDGE 42-210 | FILE | DRAWING C-6737-7 ft.

Disregard prints bearing earlier numbers →

PREL. DRAWING No. P- 6737 6 12 21

214

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM
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SCALE 1"= 20' 0 50 100 200 50 60 70 80 90 300
ClibPDF - www.fastio.com

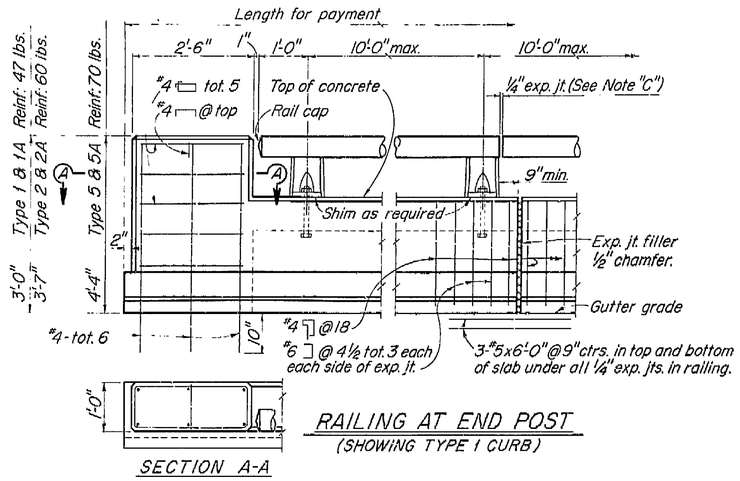
VI | Fre | 99

U-006·2(6)
F-006·2(5)

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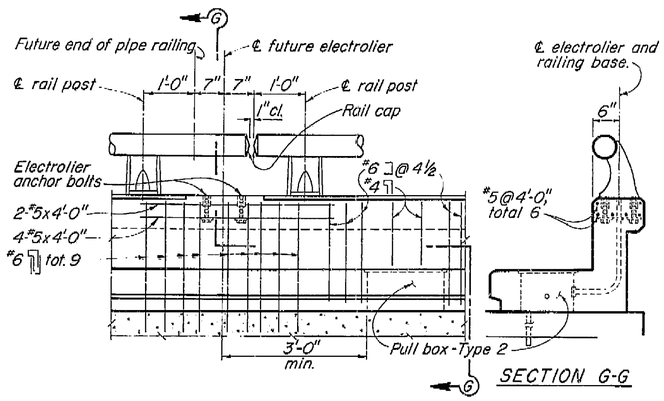
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August 23, 1961
DATE APPROVED



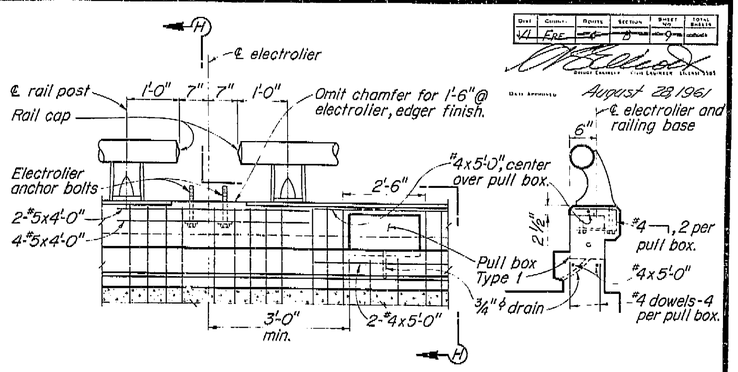
SECTION A-A

RAILING AT END POST
(SHOWING TYPE 1 CURB)



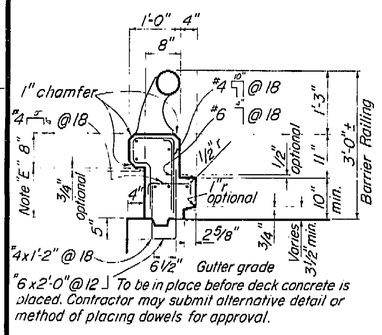
SECTION G-G

RAILING CLOSURE AT ELECTROLIER
(SHOWING TYPE 2 CURB)

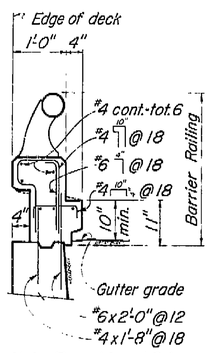


SECTION H-H

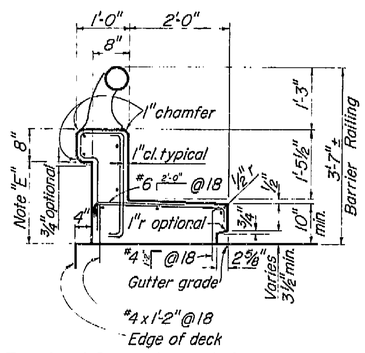
RAILING AT ELECTROLIER
(SHOWING TYPE 1 CURB)



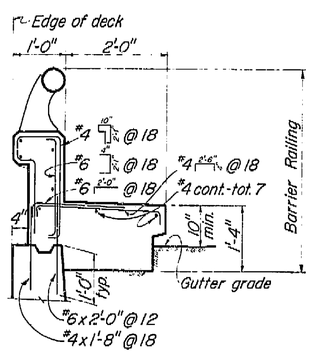
TYPE 1
Conc. 1.61 cu. ft. / lin. ft.
Reinf. 11.8 lbs. / lin. ft.



TYPE 1A
Conc. 1.61 cu. ft. / lin. ft.
Reinf. 12.0 lbs. / lin. ft.

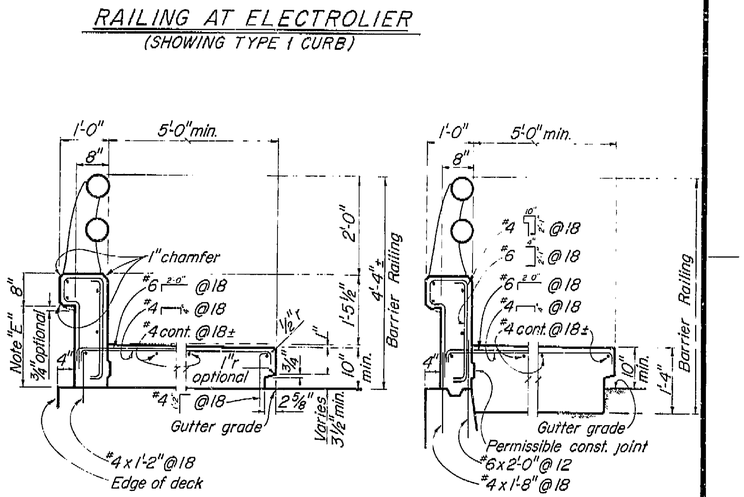


TYPE 2
Conc. 3.43 cu. ft. / lin. ft.
Reinf. 14.7 lbs. / lin. ft.



TYPE 2A
Conc. 4.30 cu. ft. / lin. ft.
Reinf. 17.3 lbs. / lin. ft.

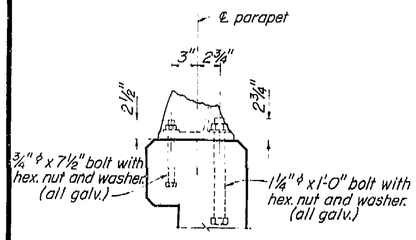
Note: Type 1A and 2A are similar to Type 1 and 2 except as noted.



TYPE 5
Conc. 6.10 cu. ft. / lin. ft. — For 5'-0" width
Reinf. 17.2 lbs. / lin. ft.
Conc. 0.84 cu. ft. / lin. ft. — Per additional ft. (width)
Reinf. 2.1 lbs. / lin. ft.

TYPE 5A
Conc. 8.35 cu. ft. / lin. ft.
Reinf. 19.7 lbs. / lin. ft.
Conc. 1.34 cu. ft. / lin. ft.
Reinf. 2.1 lbs. / lin. ft.

TYPICAL CURB AND RAIL SECTIONS



RAIL POST ANCHOR BOLT DETAIL
Scale: 1½" = 1'-0"

Note:
A. Railing shall conform to horizontal and vertical alignment.
B. Posts shall be normal to railing.
C. Curb and wall exp. jts. to be located at all deck joints, at ℄ piers or bents and at uniform spacing (40' max.) between those specified. Joint size to be ¼" min. and increased to match deck joints.
D. Construct 3" deep x 12" wide overflow scupper 2" above deck at low points in grade.
E. Dimension will vary with cross-slope of deck.
F. Walls are to be backfilled before railing is placed.
G. Clearance to reinforcing steel in curb and railing to be 1".

AS BUILT PLANS
Contract No. 62-671303
Date Completed
Document No. 60001062

BRIDGE DEPARTMENT		
DESIGN SECTION		
Section Supervisor	W. W. Jourdonnais	
DESIGN	By	E.N.A.
	Detail	D. F. Arduini 10/60
DETAILS	By	V.N.L.
	Detail	W.B. Adams 12/60
QUANTITIES	By	C.E.K.
	Detail	C.E.G.

10/60

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

NORTH AVENUE OVERCROSSING

BARRIER RAILING SHEET 1

Except as noted SCALE 3/4" = 1'-0" | BRIDGE 42-210 | XS-9-63 FILE | DRAWING C-6737-9

Disregard prints bearing earlier numbers → PREL. DRAWING NO. P. 6727 23

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50'
SCALE 1" = 50'
SCALE 1" = 20'
MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 20'
ClibPDF - www.fastio.com

...-Added 1/4"r on ...tion A-A & D-D." ...ted 2 3/4" long dim. "Rail Connection" del. 60 RFK

VI | Fre | 99

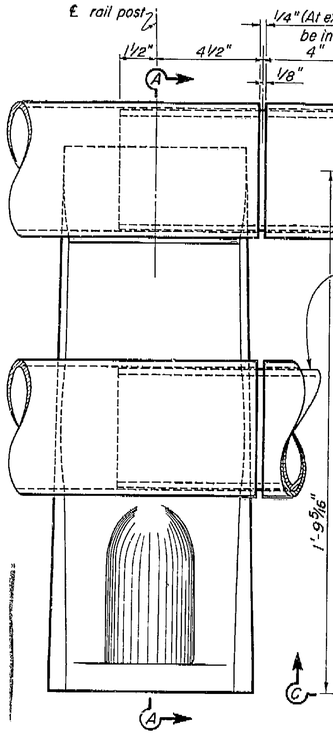
U-006-2(5)
F-006-2(5)

FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.		217	449

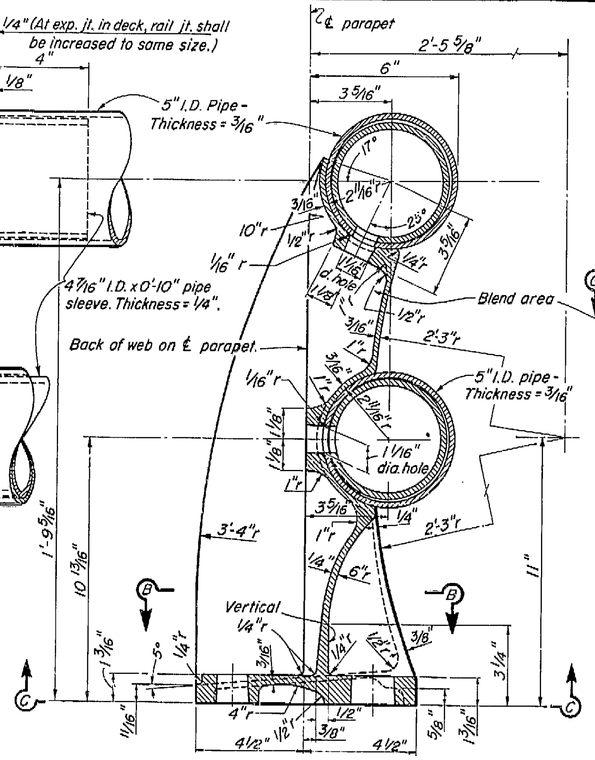
DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	Fre	41	Bet. R & M	10	

August 28, 1961

AS BUILT PLANS
Contract No. 62-671303
Date Completed
Document No. 6666062

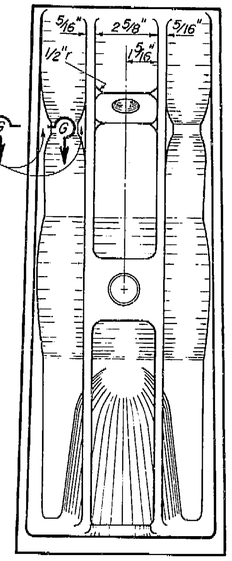


FRONT VIEW

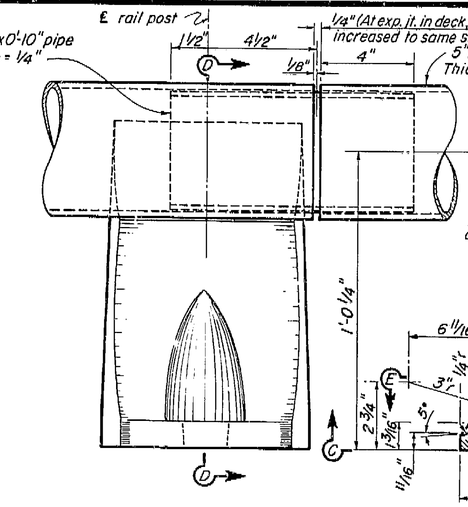


SECTION A-A

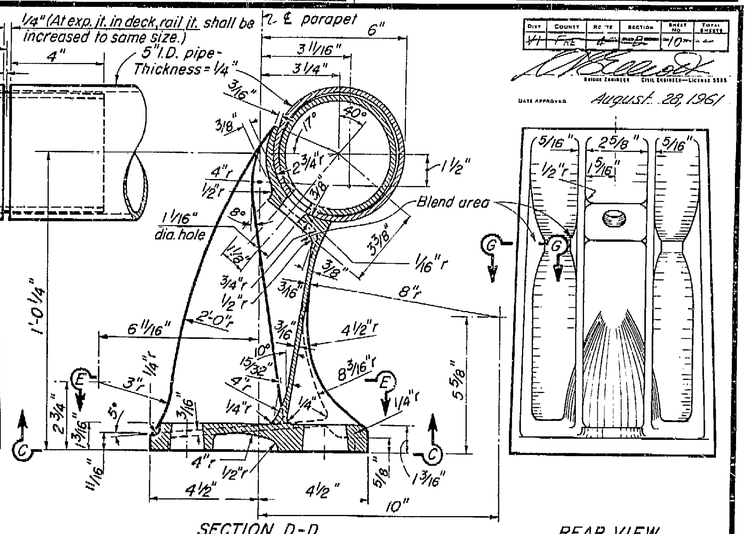
DOUBLE RAIL POST



REAR VIEW



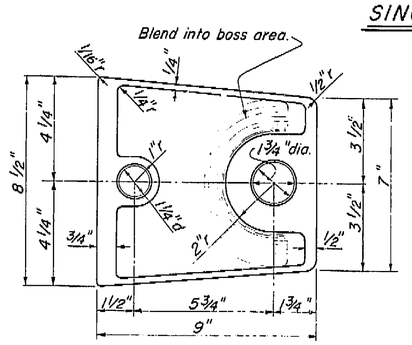
FRONT VIEW



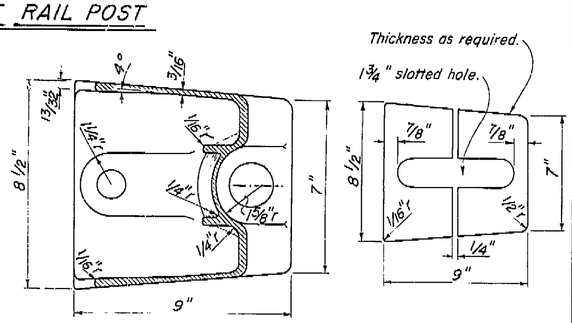
SECTION D-D

SINGLE RAIL POST

REAR VIEW

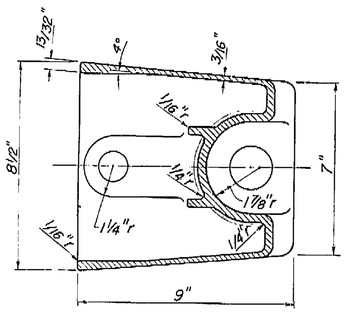


SECTION C-C

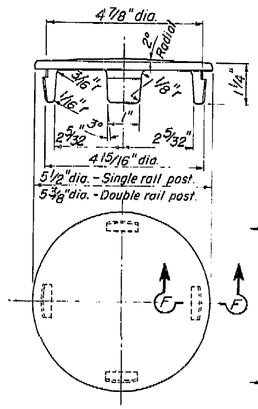


SECTION E-E

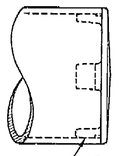
SHIM DETAIL
1/4" = 1'-0"

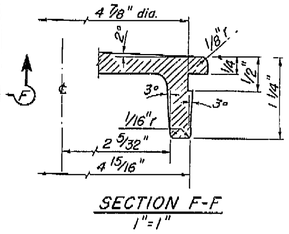


SECTION B-B

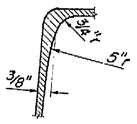


RAIL CAP
1/2" = 1'

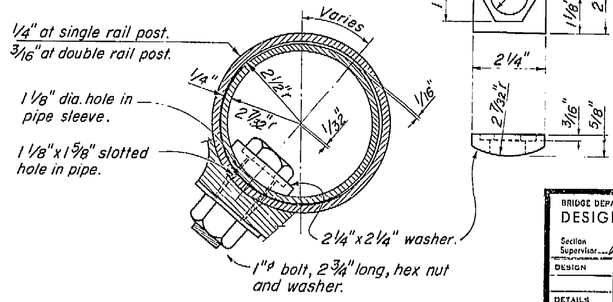




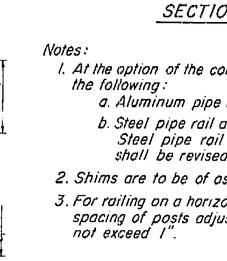
SECTION F-F
1" = 1"



SECTION G-G
1/2" = 1'



RAIL CONNECTION
1/2" = 1'



Notes:

1. At the option of the contractor, material for the railing shall be one of the following:
   a. Aluminum pipe rail and cast aluminum post.
   b. Steel pipe rail and cast steel post. Rail and posts to be galvanized. Steel pipe rail shall be 3/16" thick with 5" I.D. Rail post dimensions shall be revised as necessary to fit the steel pipe.
2. Shims are to be of asbestos sheet packing.
3. For railing on a horizontal curve the pipe rail shall be bent to the curve or the spacing of posts adjusted so that the middle ordinate between posts will not exceed 1".

...OF STEEL HAS BEEN INSPECTED TO ... AND HAS MET TESTS AND ... AS SUBMITTED BY RESIDENT ...

BRIDGE DEPARTMENT
DESIGN SECTION 2
Section Supervisor M. J. Leonard

DESIGN	By	ENB
	Detail Chk'd	[illegible]
DETAILS	By	YN
	Detail Chk'd	[illegible]
QUANTITIES	By	RFK
	Detail Chk'd	[illegible]

11/60

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

NORTH AVENUE OVERCROSSING

BARRIER RAILING SHEET 2

Except as noted
SCALE 3/8" = 1"
BRIDGE 42-210
XS-9-71
FILE
DRAWING C-6737-10

Disregard prints bearing earlier numbers →

PREL. DRAWING No. P-6737 24

449

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE_____ SIGNATURE_____ TITLE_____

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MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

Revision: 9-22-60
Note #8 bar cont.
on Detail J-1.
ETK.

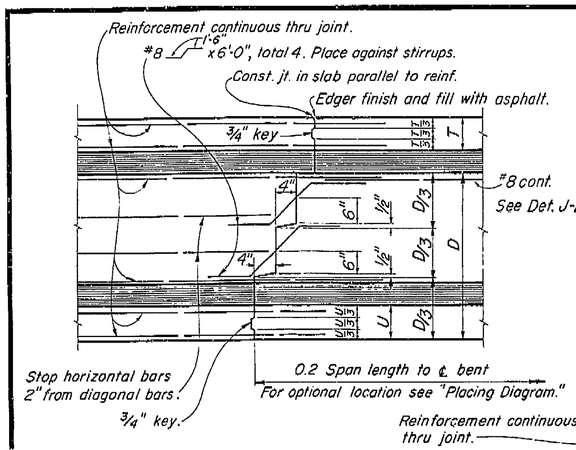
V1	Fre	99

U-006-2(6)
F-006-2(5)

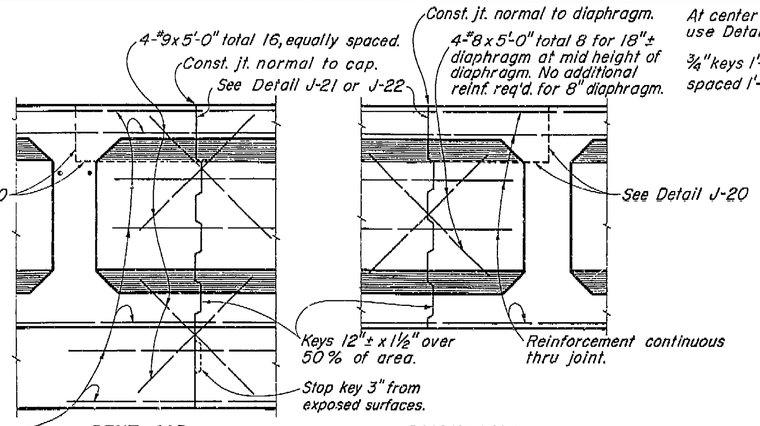
FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			215	422

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Cpc	6-4	B	44	

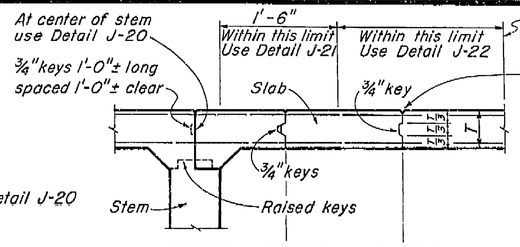
DATE APPROVED August 28, 1961

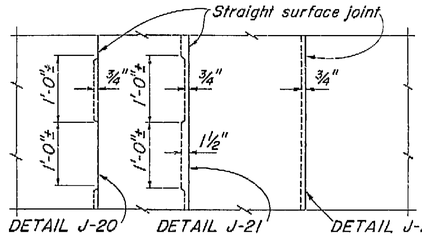


TRANSVERSE GIRDER CONSTRUCTION JOINTS
DETAIL J-3

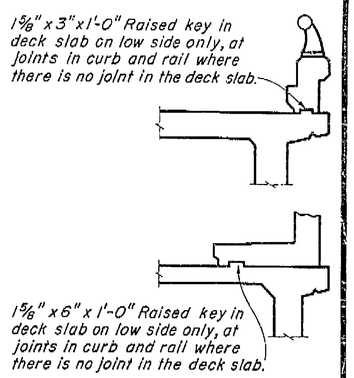


BENT CAP
LONGITUDINAL CONSTRUCTION JOINTS
DIAPHRAGMS
DETAIL J-4

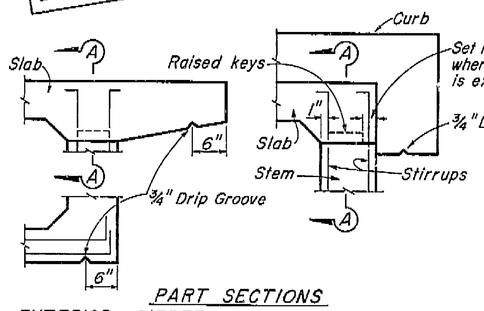




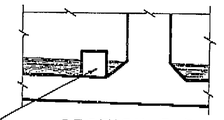
DECK SLAB
LONGITUDINAL CONSTRUCTION JOINTS
Note: Longitudinal construction joints in slab, if required, are to be located at edge of traffic lanes except as approved by the Engineer.



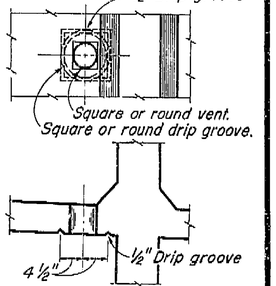
CURB AND SIDEWALK EXPANSION JOINT
DETAIL C-1



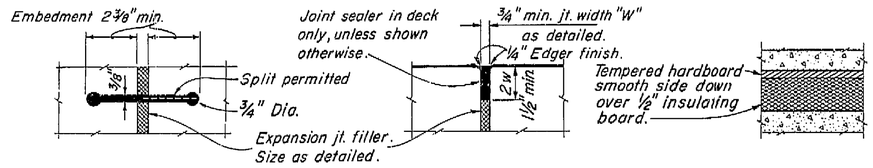
PART SECTIONS
EXTERIOR GIRDER WITH SLAB CANTILEVER
EXTERIOR GIRDER WITH CURB



SECTION B-B



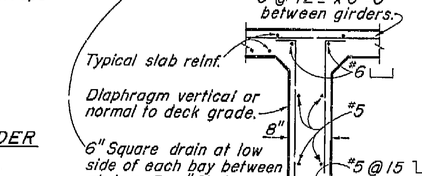
VENT
DETAIL V-1



RUBBER WATERSTOP
DETAIL W-1

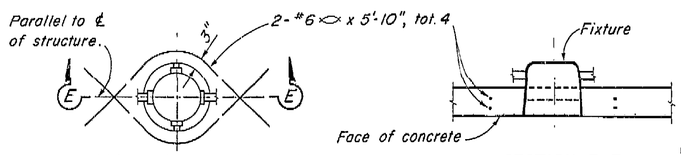
SEALED EXPANSION JOINT
DETAIL L-1

DETAIL M-1

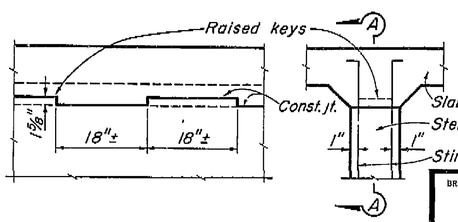


INTERMEDIATE DIAPHRAGM SECTION
DETAIL D-1

Note:
5" ϕ Vent in lower slab.
Min. of two vents per span in each bay between girders. One vent to be located at low point of span and other vent to be located at opposite end of span @ 1'-6" from face of Abutment or Bent. See "Girder Layout."



ADDED REINFORCEMENT
SECTION E-E
RECESSED SOFFIT LIGHT
DETAIL F-1



SECTION A-A
PART SECTION INTERIOR GIRDER
KEY-GIRDER STEM TO SLAB
DETAIL J-5

STANDARD DRAWING
Approved: W. B. Ogden
Chief Bridge Engineer
Date: Nov. 1, 1960
DESIGN
DETAILS
QUANTITIES
SPECIFICATIONS
Revised 1-1-63 Rev. by Lee
Revised 1-1-64 Rev. by Lee
Revised 1-1-65 Rev. by Lee
Revised 1-1-66 Rev. by Lee
No. 6129

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

THIS SET OF PLANS HAS BEEN CORRECTED TO AGREE IN EVERY RESPECT WITH THE "AS BUILT" PRINTS DATED AS SUBMITTED BY RESIDENT
CORRECTED BY: DATE:

BRIDGE DEPARTMENT
DESIGN SECTION
Project Designer E. E. Stillman
Chief Designer W. J. Duckert

DESIGN	By E.W.P.	Checked	
DETAILS	By V.H.	Checked	
QUANTITIES	By E.E.C.	Checked E.E.C.	
SPECIFICATIONS	By	Plans and Form Completed	

Approval Recommended by R. J. Hutchinson, Engineer of Design
Civil and Structural Engr. License No. 4839

9/60

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

NORTH AVENUE OVERCROSSING

STANDARD DETAILS NO. 1 (BOX)

SCALE None | BRIDGE 42-214 | XS-16-22 FILE | DRAWING C-6

PREL. DRAWING NO. P- 737 22

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE SIGNATURE TITLE

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MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"= 50'
SCALE 1"= 20'

U-006-2(6)
F-006-2(5)

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			208	424

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
11	FRE	99	B	1	1

APPROXIMATE QUANTITIES: VI Fre 99

*STRUCTURE EXCAVATION (CY)	1
*STRUCTURE BACKFILL (CY)	1
*CLASS "A" CONCRETE (CY)	2
*BAR REINFORCING STEEL (LB)	248,000
BARRIER RAILING (TYPE 1)	1
BARRIER RAILING (TYPE 2)	3
16" C.I.P.C. CONCRETE PILING	1

*Bridge Quantities

[illegible] August 28, 1961
Date Approved

PROFILE GRADE

-5.26%
17-30.00 EVC
Elev. 312.26
500'XC R=1111% / Sta
24-50.00 EVC
Elev. 292.36
-5.00%

ELEVATION

Type 1 Barrier Railing

TYPICAL SECTION

INDEX TO PLANS

Sheet No.	Title
1	General Plan
2	Elevation & Typical Section
3	Foundation Plan
4	Abutment 1 Details
5	Bent Details
6	Deck Section & Slope Paving
7	Slope Reinforcing
8	Railing Details No. 1
9	Barrier Railing Sheet 1
10	Barrier Railing Sheet 2
11	Log of test borings
12	[illegible]

4-8-63 J.W. Beck DAE 11-20-63

Note: Route Change (VI-Fre-99)

Contract # 62-6T13C3-F

Top of fill
Toe of fill
E. North Ave
BK 19+31.00
Elev. 308.44
20+00.00 E North Ave
99+18.03 E Survey
13 "RETS" skew
EB 21+90.00
Elev. 308.44
S89°11'30"E
99.01' N 15°49'00" W
Railroad
Fresno

Final Elevations - Copper Nails

1.	308.387	9.	310.116
2.	308.869	10.	309.972
3	309.367	11.	309.783
4.	309.731	12.	309.367
5.	309.933	13.	309.152
6.	310.063	14.	310.580
7.	310.127	15.	311.331
8.	310.152		

PLAN

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

① Indicates location for finding Bridge Number and year constructed.
② Indicates location for finding North Avenue O.C.
⊕ Indicates location of monument Visit 1.31' Elevation.

LIVE LOADING: H20-S16-44 & ALTERNATIVE

For general notes, see "Foundation Plan"

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer
Chief Designer

DESIGN	By	Checked	
DETAILS	By	Checked	
QUANTITIES	By	Checked	
SPECIFICATIONS	By	Plans and Specs. Compared	
Approved Recommended by		Field and Structural Detail Submitted	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

NORTH AVENUE OVERCROSSING
IN FRESNO ABOUT 1.0 MILE SOUTH OF CLINTON AVENUE AND 1.5 MILES SOUTH OF CITY LIMITS OF FRESNO

GENERAL PLAN

SCALE	BRIDGE	FILE	DRAWING
1" = 50'	40-10		C-6T13C3-1

Disregard prints bearing earlier numbers

PREL. DRAWING No. P- 6797 1 X 15

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE SIGNATURE: TITLE

208

SCALE 1" = 50' 0 100 200 300 400 500 600 700 MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

SCALE 1" = 20' 0 50 100 200 300 MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

ClibPDF - www.fastio.com

U-006-2(6)
F-006-2(5)

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.				218 424

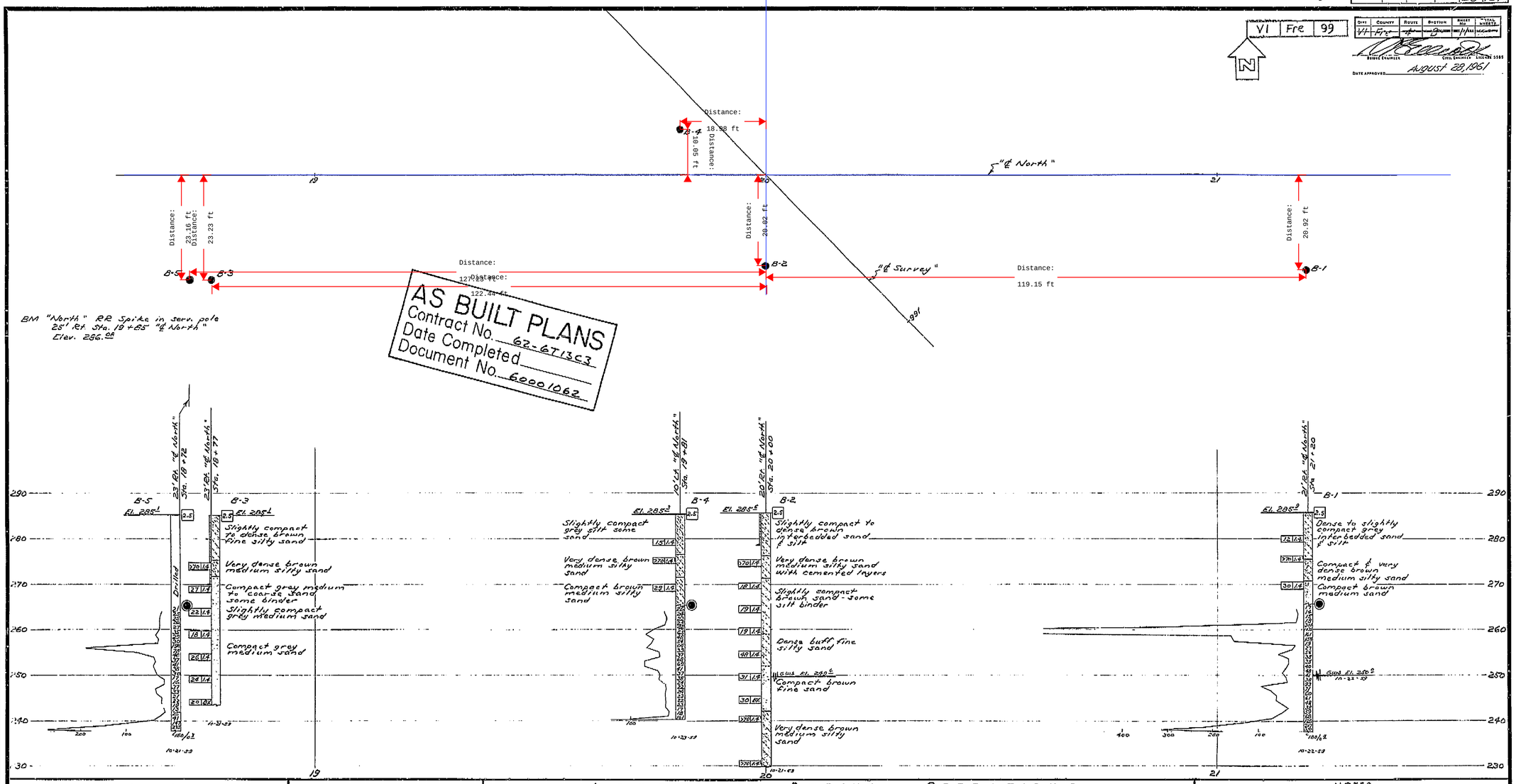
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	99			

BRIDGE ENGINEER — CIVIL ENGINEER LICENSE 5585

DATE APPROVED August 28, 1961

BRIDGE DEPARTMENT

FIELD STUDY by R. Fraser 11-25-59
DRAWN by M. Kenney 11-25-59
CHECKED by R. Hart 11-25-59
Approved Recommended by [illegible] Chief Bridge Engineer



CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS

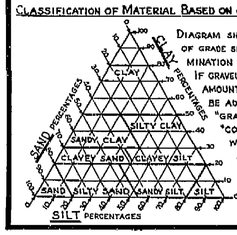


DIAGRAM SHOWING THE BASIS FOR ESTIMATES OF GRADE SIZE DISTRIBUTION USED IN DETERMINATION OF CLASS NAMES.

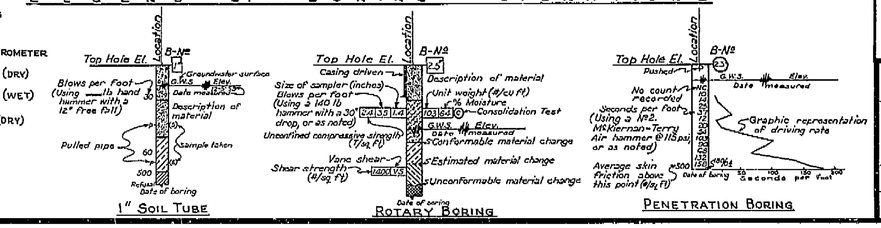
IF GRAVEL IS PRESENT IN APPRECIABLE AMOUNTS THE TERM "GRAVELLY" MAY BE ADDED TO THE CLASS NAME, VIZ, "GRAVELLY SAND." THE TERMS "COARSE," "MEDIUM" AND "FINE" WHEN USED TO DESCRIBE SAND, SILT AND GRAVEL REFER TO STANDARD GRADE SIZE LIMITS.

LEGEND OF EARTH MATERIALS

- Gravel
- Sand
- Silt
- Clay
- Sandy Clay or Clayey Sand
- Sandy Silt or Silty Sand
- Silty Clay or Clayey Silt
- Peat and/or Organic Matter
- Fill Material
- Igneous Rock
- Sedimentary Rock
- Metamorphic Rock

LEGEND OF BORING OPERATIONS

- Plan of any boring
- Penetrometer
- 2½" Cone Penetrometer
- SAMP Sampler boring (DRY)
- ROT Rotary boring (WET)
- AUG Auger boring (DRY)
- JEY Jey boring
- CR Core boring
- Test pit



NOTES

Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

NORTH AVENUE OVERCROSSING

LOG OF TEST BORINGS

SCALE	BRIDGE	FILE	DRAWING
1"=10'	42-210	E-42	C-6737-11

PR-6737-7

218

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50'
SCALE 1" = 20'
ClibPDF - www.fastio.com

VI | Fre | 99

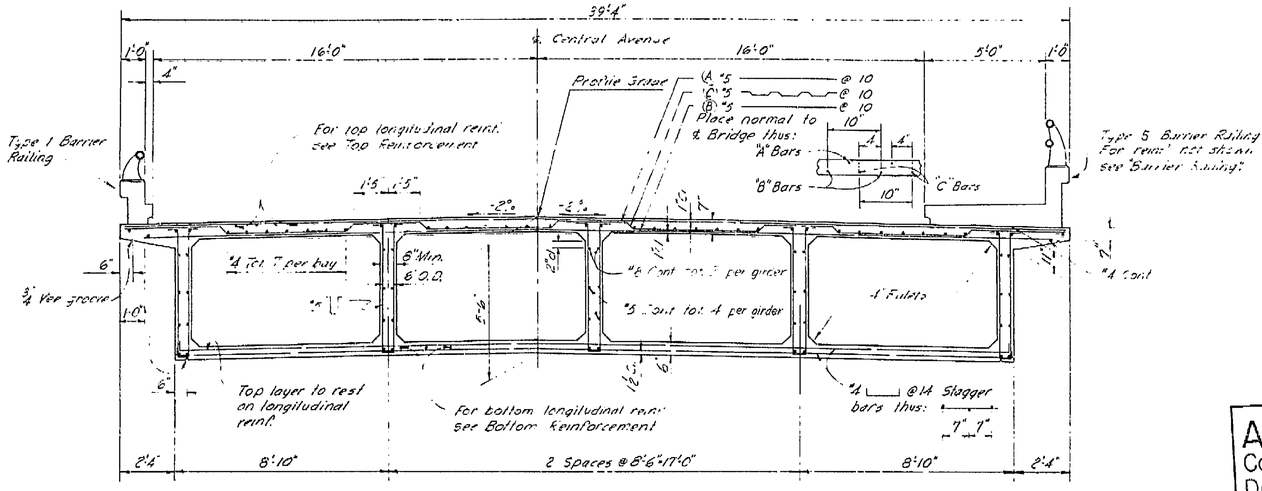
V-006-2(6)
F-006-2(5)

FED. ROAD SYS. NO.	STATE	F. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
7	CALIF.		213	424

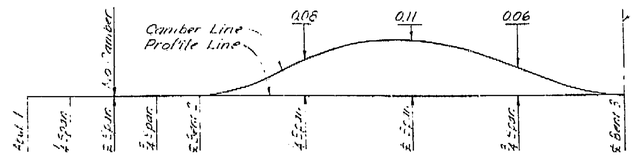
DIST	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	4	B	6	

BRIDGE ENGINEER — CIVIL ENGINEER—ELECTRICAL ENGR

DATE APPROVED: August 28, 1961



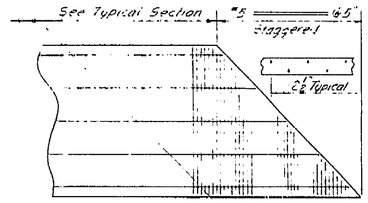
TYPICAL SECTION
3/8" = 1'-0"



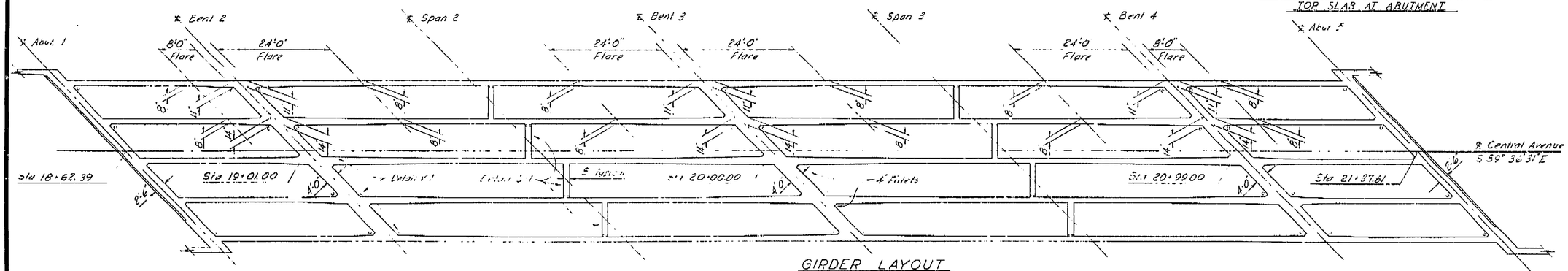
CAMBER DIAGRAM
No Scale
(Total girder deflection due to dead loads)

Notes:
The total deflection will be reached about 4 years after falsework removal. For values at time of falsework removal divide those shown by 4. The amount of camber for construction will be determined by the Engineer.

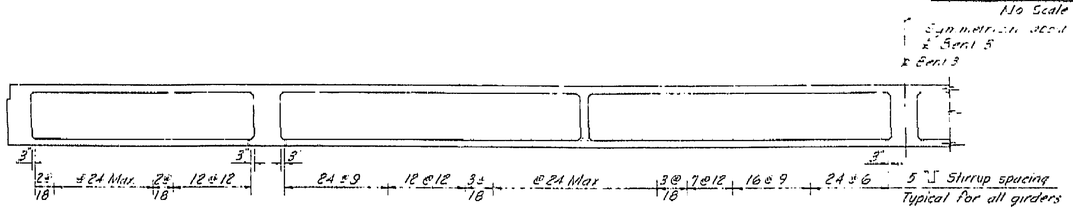
AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062



TYPICAL TRANSVERSE REINFORCEMENT
TOP SLAB AT ABUTMENT



GIRDER LAYOUT
No Scale



LONGITUDINAL SECTION
No Scale

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED ..... AS SUBMITTED BY RESIDENT ENGINEER
CORRECTED BY: ____ DATE: ____

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer
Chief Designer M.J. Jurcak

DESIGN	By	Checked W.A.E. Ludeke 7/63
DETAILS	By	Checked W.A.E. Ludeke 7/63
QUANTITIES	By	Checked R.E. Carlson 7/63
SPECIFICATIONS	By	Plans and report Finished

Approved Recommended by ..... Chief Engr. Bridges

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

NORTH AVENUE OVERCROSSING

TYPICAL SECTION & GIRDER LAYOUT

SCALE: As Noted | BRIDGE 42-210 | FILE | DRAWING C-6737-6 1

Disregard prints bearing earlier numbers → PREL. DRAWING No. P- 6737 X 20

213

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE ..... SIGNATURE ..... TITLE .....

ClibPDF - www.fastio.com
SCALE 1"= 50' 0 100 200 MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM 300 400 500 600 SCALE 1"= 50' 700 0 SCALE 1"= 20' 50 100 MICROFILM STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS MICROFILM 150 200 SCALE 1"= 20 50 300

VI	Fre	99

U-006-2(6)
F-006-2(5)

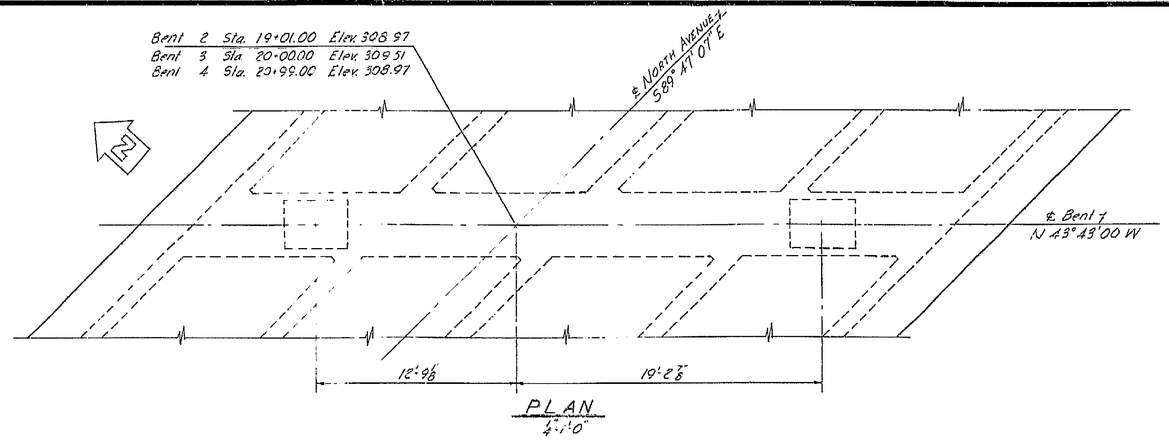
FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			212	224

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	99			

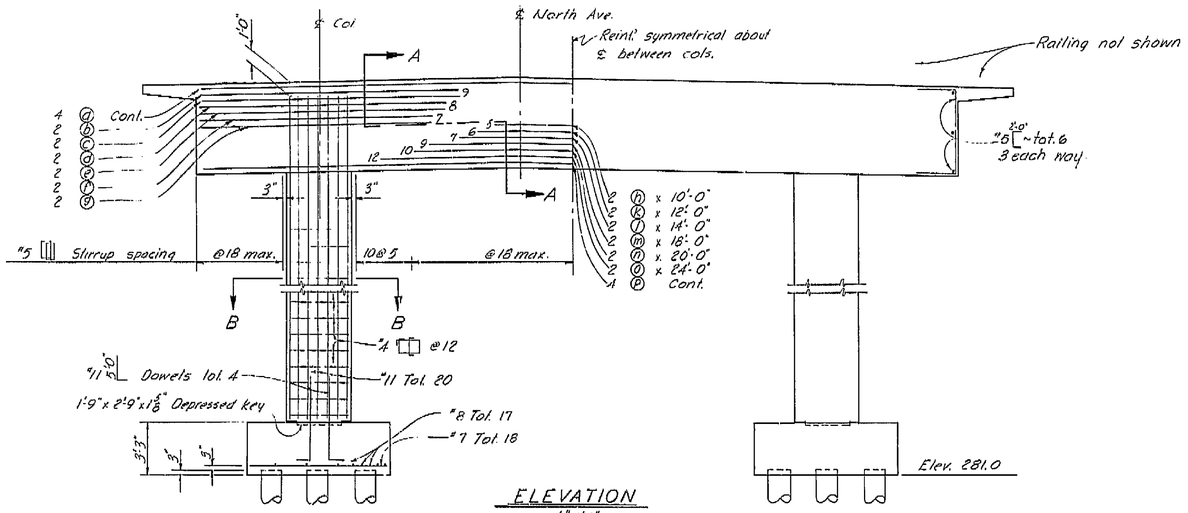
BRIDGE ENGINEER — CIVIL ENGINEER — LICENSE 5265

DATE APPROVED August 28, 1961

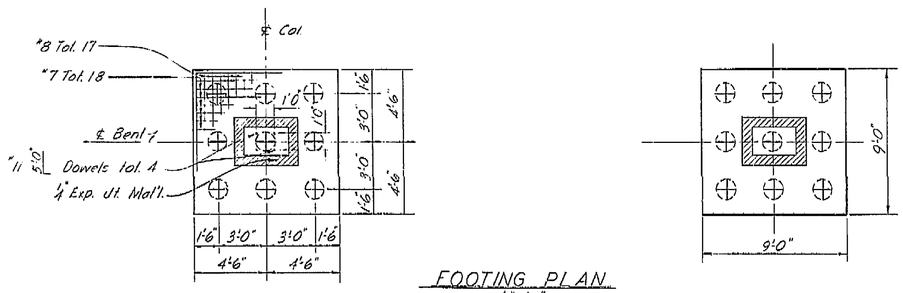
Bent 2 Sta. 19+01.00 Elev. 308.97
Bent 3 Sta. 20+00.00 Elev. 309.51
Bent 4 Sta. 20+99.00 Elev. 308.97



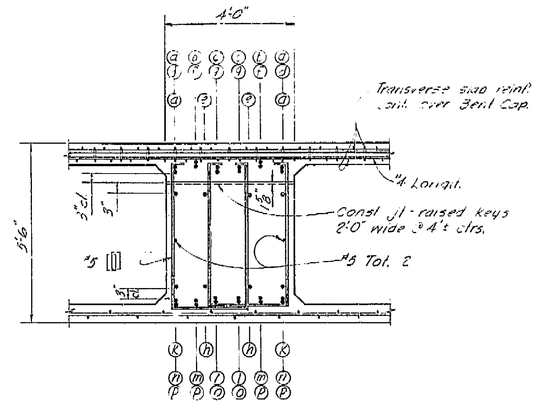
PLAN
1/4"=1'-0"



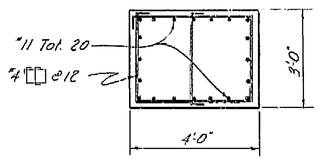
ELEVATION
1/4"=1'-0"



FOOTING PLAN
1/4"=1'-0"



SECTION A-A
3/4"=1'-0"



SECTION B-B
3/4"=1'-0"

Note: All bars are "11 except as noted. Numbers at ends of bars indicate distance in feet from ℄ column for top reinf or from ℄ between columns for bottom reinf.

AS BUILT PLANS
Contract No. 62-671343
Date Completed
Document No. 6666082

...HAS BEEN CORRECTED TO ... "AS BUILT" PRINTS DATED ... AS SUBMITTED BY RESIDENT ...
... BY ... DATE ...

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer: Earl E. Fredrickson
Chief Designer: W. J. Gutowski

DESIGN	By R. H. Quade 2/60	Checked W. C. Lindauer 760	
DETAILS	By Y. Nakayama 760	Checked W. S. Cordani 760	
QUANTITIES	By J. T. Fessler 760	Checked R. B. Carlson 760	
SPECIFICATIONS	By	Plans and Specs. Completed	

Approved Recommended by: R. L. Stratton, Engineer of Design — Civil and Structural Branch, License No. 5339

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

NORTH AVENUE OVERCROSSING

BENT DETAILS

SCALE: As Noted | BRIDGE 42-210 | FILE | DRAWING C-6"3"-5

Disregard prints bearing earlier numbers →

PREL. DRAWING No. P- 67.37 | 2A | 18 | 19 | 3/4 | | | | | | 4/4/4

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 4-19-72 SIGNATURE [illegible] TITLE [illegible]

212

SCALE 1"= 50' MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM SCALE 1"= 50' SCALE 1"= 20' MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM SCALE 1"= 20'
0 100 200 300 400 500 600 700 0 50 100 50 200 300
ClibPDF - www.fastio.com

V.			

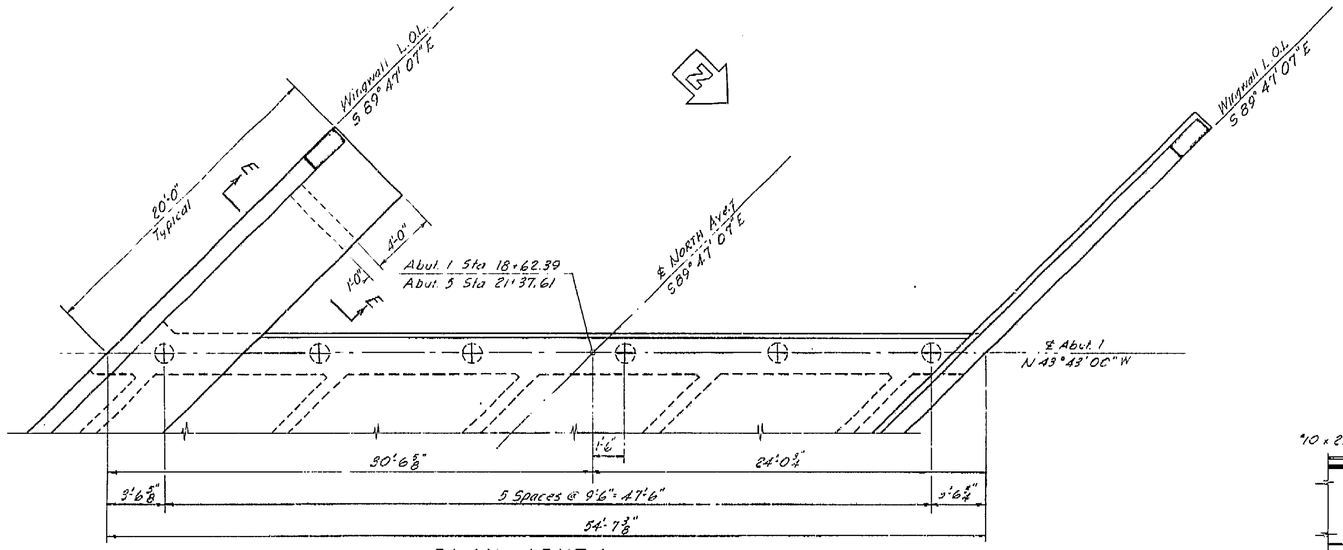
U-006-2(6)
F-006-2(5)

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			211	424

Dist.	County	Route	Section	Sheet No.	Total Sheets
VI	Fre	99			

Registered Civil Engineer - License 9565

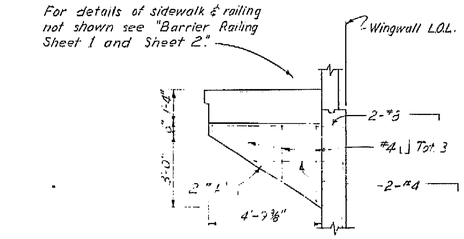
Date Approved: August 28, 1961



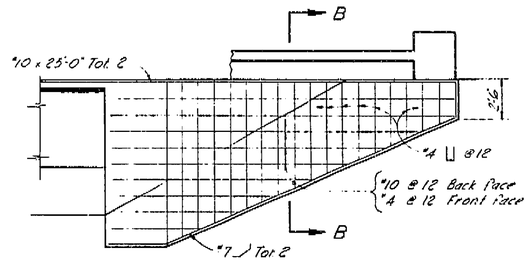
PLAN ABUT 1
¼"=1'-0"

Abut. 1 shown, Abut. 5 similar

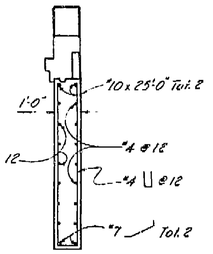
Note: For pile details see "Foundation Plan."

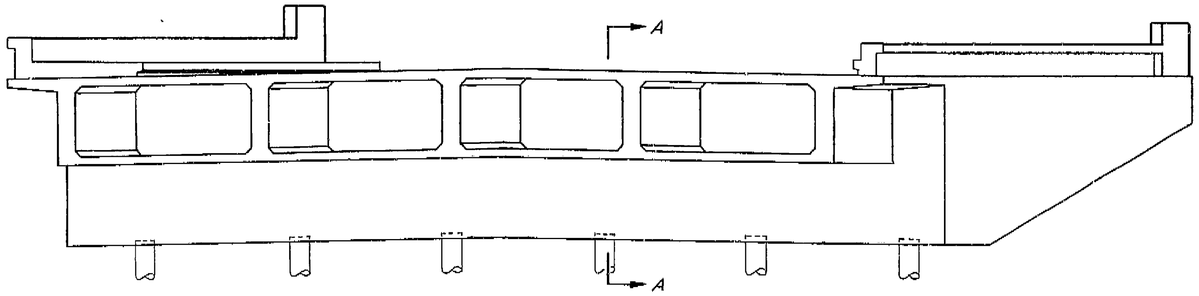


SECTION E-E
⅜"=1'-0"

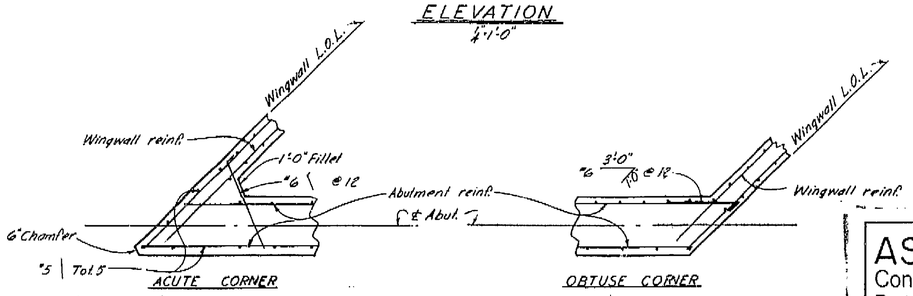


TYPICAL WINGWALL ELEVATION
¼"=1'-0"

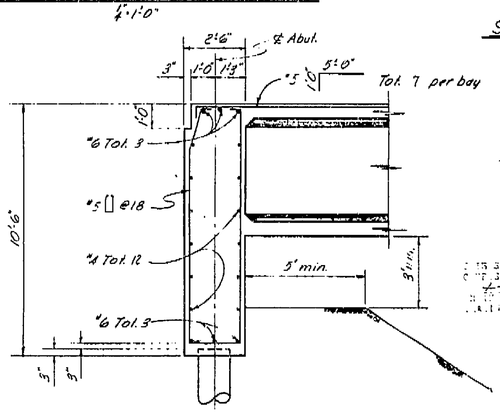




ELEVATION
¼"=1'-0"



ABUTMENT CORNER DETAILS
⅜"=1'-0"



SECTION B-B
⅜"=1'-0"

SECTION A-A
⅜"=1'-0"

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

THIS SET OF PLANS HAS BEEN CORRECTED TO CONFORM TO "AS BUILT" PRINTS DATED 4-1-63, AS SUBMITTED BY RESIDENT ENGINEER.
PLANS CORRECTED BY: [illegible] DATE: 11-20-63

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer: Earl C. [illegible]
Chief Designer: M. J. Quintrell

DESIGN	by C. W. Amundson 7/60	Checked: M.J.Q. [illegible] 7/60	
DETAILS	by Y. Nakayama 7/60	Checked: M.J.Q. [illegible] 7/60	
QUANTITIES	by [illegible] 7/60	Checked: A.B. Carlson 7/60	
SPECIFICATIONS	by	Checked:	
Approval Recommended by: [illegible]			

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

NORTH AVENUE OVERCROSSING

ABUTMENT DETAILS

SCALE: As Noted | BRIDGE 42-210 | FILE | DRAWING C-6737-4

Disregard prints bearing earlier numbers

PREL. DRAWING NO. P-6737 [illegible] 18

443

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE [illegible] SIGNATURE [illegible] TITLE [illegible]

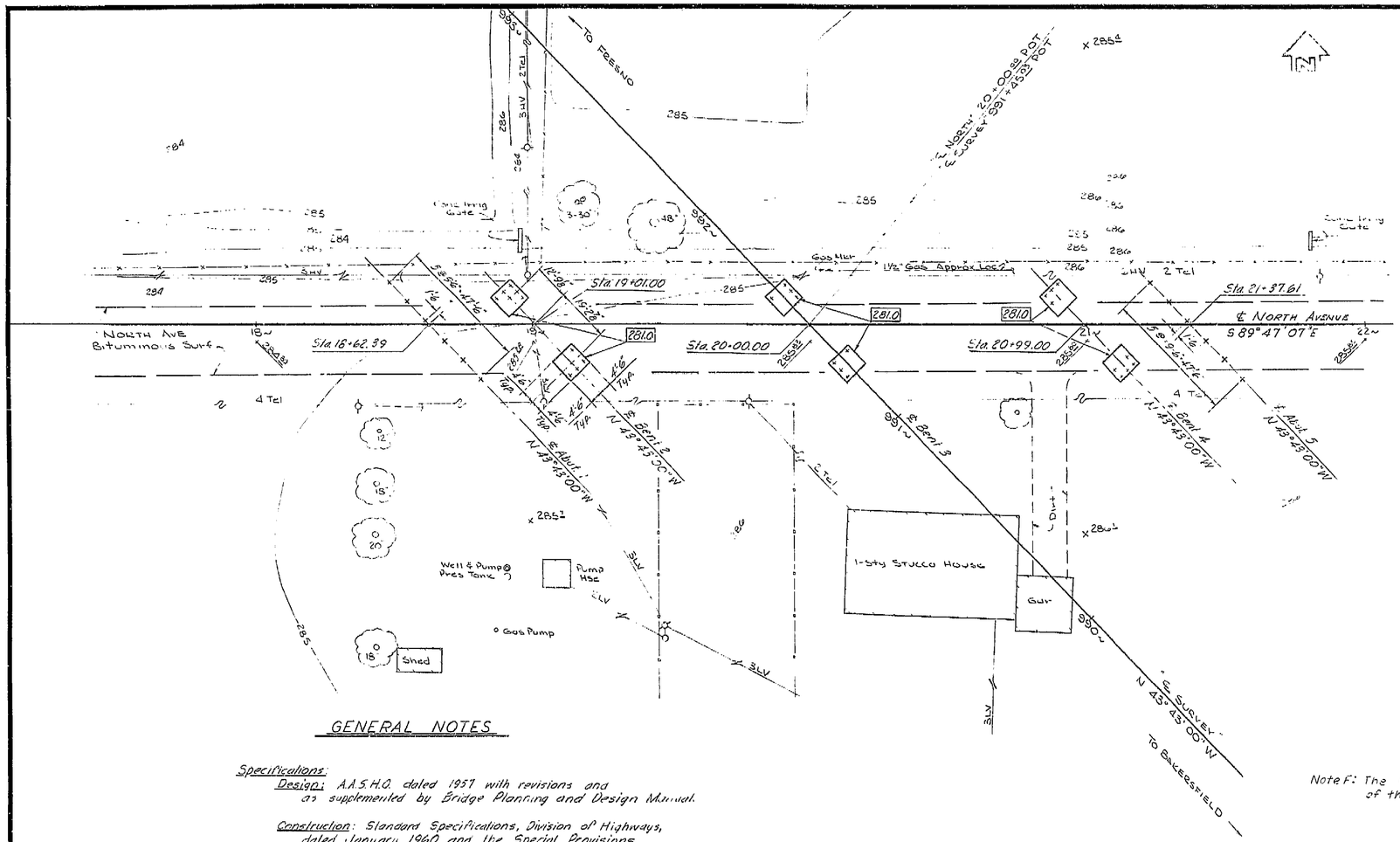
ClibPDF - www.fastio.com

SCALE 1"=50' 0 100 200 MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM 300 400 500 SCALE 1"=50' 600 700
SCALE 1"=20' 0 50 MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM 100 200 SCALE 1"=20' 50 300

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			210	424

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	var.	B	3	var.

August 28, 1961



GENERAL NOTES

Specifications:

Design: A.A.S.H.O. dated 1957 with revisions and as supplemented by Bridge Planning and Design Manual.

Construction: Standard Specifications, Division of Highways, dated January 1960 and the Special Provisions.

Live Loading: H20·S16·44 and Alternative

Unit Stresses

Reinforced Concrete:

f_s = 20,000 psi N·10

f_c = 1,200 psi

Pile Loading 45 Tons Type: Concrete

Note: [C000] Indicates bottom of footing elevation. For Abutment pile layout see "Abutment Details." For Bent pile layout see "Bent Details."

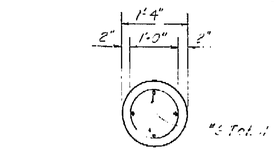
BM #98.1
Fd - LR spike in Service Pole
275 Lt ℄ North 19+73
EL = 294.232

BM #16.7
Fd - LR spike in PP 173 Lt
℄ North 15+48
EL 281.62

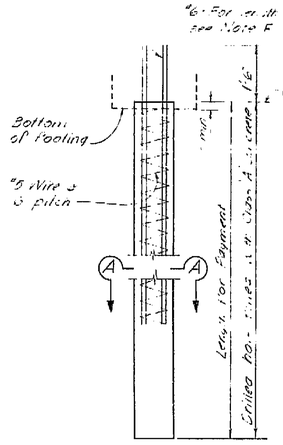
LEVEL DATUM: USC&GS
FOR ALIGNMENT THIS SEE PL 6737-5.
CONTOURS AS OF 10-59
SITE PLAN TO SUPPLEMENT DISTRICT DATA.
SURVEY BY JGG DATE 10-59
DRAWN BY JGG DATE 10-59
TRACED BY JS DATE 10-23-59

210

AS BUILT PLANS
Contract No. 62-671303
Date Completed
Document No. 60001062



SECTION A-A
½"=1'-0"



CAST-IN DRILLED HOLE CONCRETE PILE
½"=1'-0"
Concrete to be placed in dry hole

Note F: The #6 bars shall extend a minimum of 12' below the lowest of the following:
1. Bottom of footing.
2. Top of final ground surface
3. Top of original ground surface when piles are drilled through fill.

CONSTRUCTED TO AS BUILTS DATED BY RESIDENT

BRIDGE DEPARTMENT	DESIGN SECTION 2
Project Designer	E. J. Erickson
Chief Designer	W. J. Jenkins
DESIGN	By R. R. Q. Checked H. A. Erickson
DETAILS	By Y. Nakayama Checked W. J. Jenkins
QUANTITIES	By E. J. Erickson Checked R. Q. Johnson
SPECIFICATIONS	By Price and Stress Checked
Approval Recommended by R. Q. Johnson, Engineer of Design	Civil and Structural Chief Engineer Bridges S.T.S.S.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

NORTH AVENUE OVERCROSSING

FOUNDATION PLAN

Except as Noted SCALE: 1" = 20' BRIDGE 42·210 FILE 12-42 DRAWING C-E 37-3

PREL. DRAWING NO. P. 6737 8 N 17

PR 6737-3 44-1

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-12-72 SIGNATURE John J. Ecat TITLE SR RMC

ClibPDF - www.fastio.com

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50' 0 100 200 300 400 500 600 700
SCALE 1" = 20' 0 50 100 200 500

U-006-2(6)
F-006-2(5)

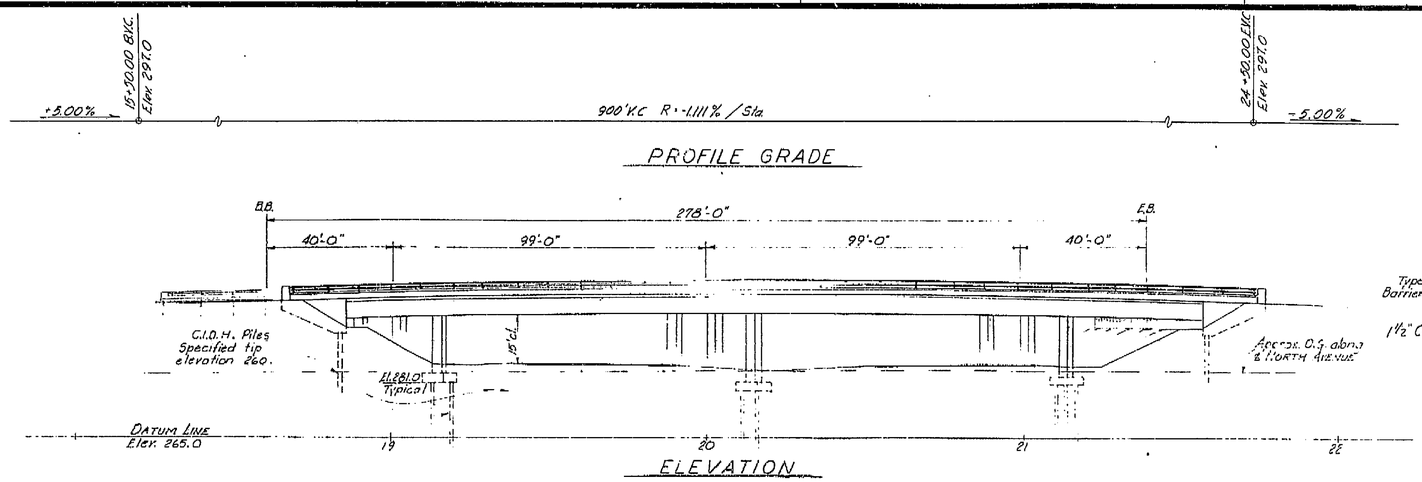
FED. ROAD DIV. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			219	424

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	4	9	12-12	

VI Fre 99

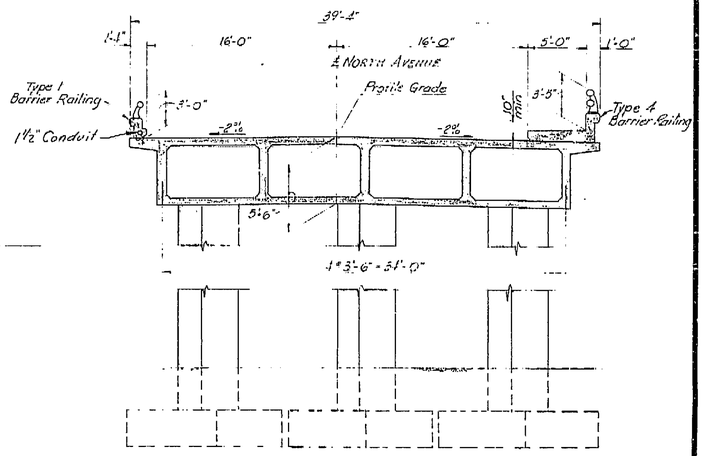
DISTRICT ENGINEER

DATE APPROVED August 28, 1961

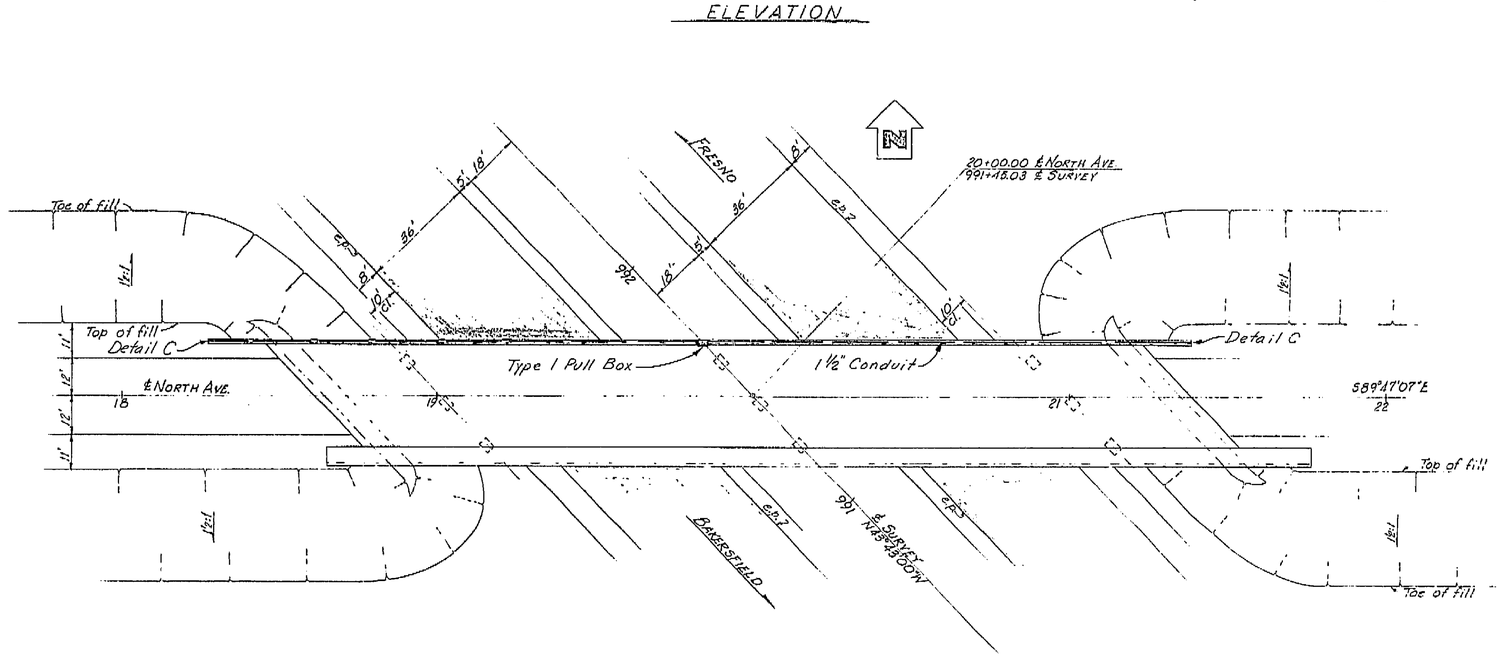


PROFILE GRADE

ELEVATION



TYPICAL SECTION
3/8" = 1'-0"



PLAN

Note: This plan accurate for highway lighting only.

THESE PLANS HAS BEEN CORRECTED TO
SHOW "AS BUILT" THINGS STATED
IN SUBMITTED BY RESIDENT
ENGINEER DATED

For additional notes see Sheet No. ES-7-4

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL RECOMMENDED BY	DATE
O.E. Schuster	4/61	E.E. Taylor	4/61		7/6/61

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer: Emil E. Taylor
Chief Designer:

DESIGN	1	By T.N. Quinn 1/60	Checked
DETAILS	4	By A.T. SPEARS 1-60	Checked
QUANTITIES	1	By	Checked
ELECTRICAL		By	Plans and Specs. Prepared

Approval Recommended by: Engineer of Design — Chief and Structural Engr. License No. 5259

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

NORTH AVENUE OVERCROSSING
LOCATED ABOUT 1.9 MILES SOUTH
OF THE SOUTH CITY LIMIT OF FRESNO

LIGHTING PLAN

SCALE	BRIDGE	FILE	DRAWING
1"=20' except as noted	42-210		C-6737-12

Disregard prints bearing earlier numbers

PREL. DRAWING No. P- 6737 | 1

219

451

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ / TITLE _____

ClibPDF - www.fastio.com

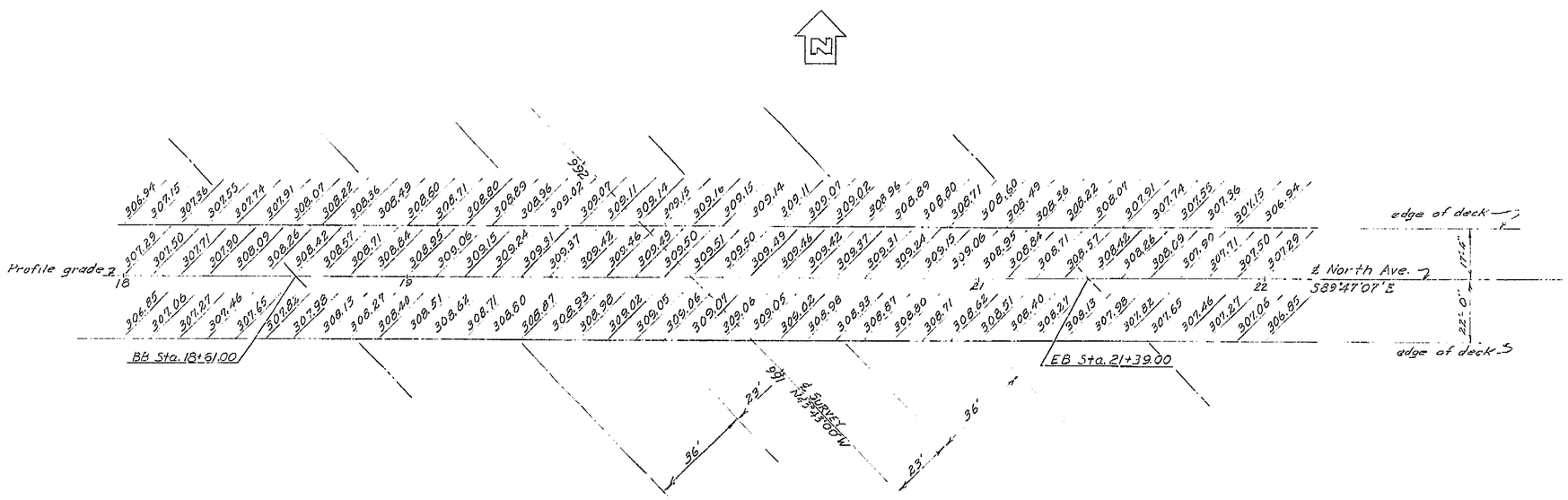
SCALE 1"=50' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"=50' SCALE 1"=20' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

U-006-2(6)
F-006-2(5)

FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.		209	434

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	Fre	99			

DATE APPROVED August 28, 1961



Note: These elevations do not include camber.
Elevations are shown at 10' stations along and normal to ℄ North Avenue.

AS BUILT PLANS
Contract No. 62-6T1363
Date Completed
Document No. 60001062

"AS BUILT" CORRECTED TO
REFLECT PRINTS DATED
AS NOTED BY RESIDENT
ENGINEER DATE

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer
Chief Designer

DESIGN	By	Checked R.N. Annicka	8/60
DETAILS	By	Checked R.N. Annicka	8/60
QUANTITIES	By	Checked	
SPECIFICATIONS	By	Plans and Spec. Completed	

Approval Recommended by
Engineer of Design
Civil Engr. License No. 8439

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

NORTH AVENUE OVERCROSSING

10' GRADE DECK ELEVATIONS

SCALE	BRIDGE	FILE	DRAWING
1" = 20'	42-210		C-6737-2

Disregard prints bearing earlier numbers

PREL. DRAWING No. P-6737 | 16

209

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-10-73 SIGNATURE [illegible] TITLE [illegible]

ClibPDF - www.fastio.com

SCALE 1"= 50' MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM SCALE 1"=50' SCALE 1"= 20' MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM SCALE 1"= 20'

California Department of Transportation
Division of Maintenance

Structure Maintenance and Investigations

BRIDGE

INSPECTION

RECORDS

INFORMATION

SYSTEM

The requested documents have been generated by BIRIS.

These documents are the property of the California Department of Transportation and should be handled in accordance with Deputy Directive 55 and the State Administrative Manual.

Records for “Confidential” bridges may only be released outside the Department of Transportation upon execution of a confidentiality agreement.

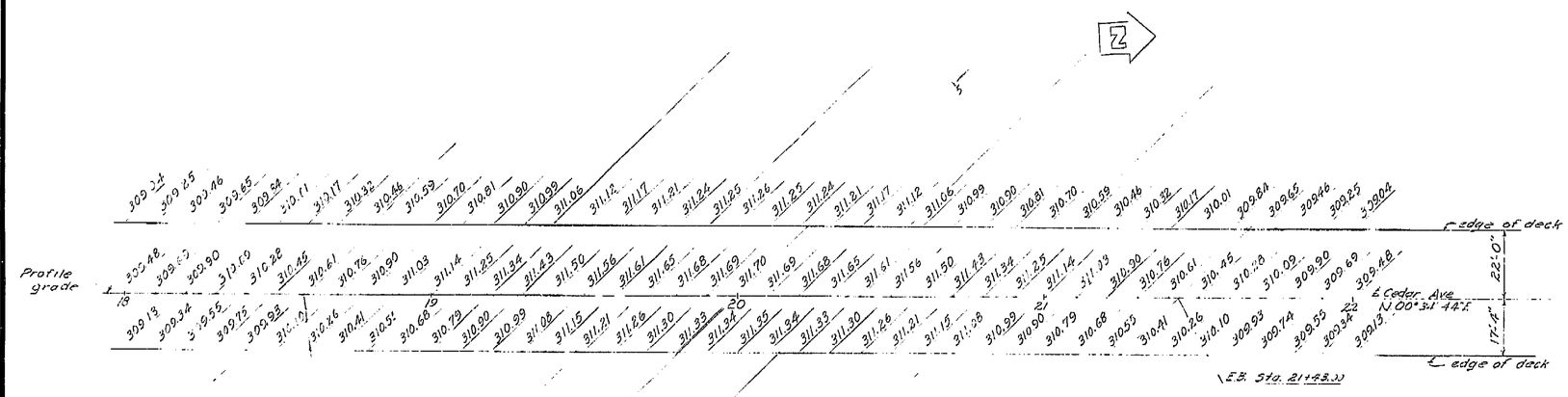
U-006-2(6) F-006-2(5)

FED. ROAD DIV NO	STATE	PROJ NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
7	CALIF.			196	424

DIST	COUNTY	ROUTE	SECTION	SHEET NO	TOTAL SHEETS
VI	Fre	99			#13

BRIDGE ENGINEER C. VIL ENGINEER LICENSE 5265

DATE APPROVED August 28, 1961



Note: These elevations do not include camber.
Elevations are shown at 10' stations along and normal to ℄ Cedar Avenue.

196

AS BUILT PLANS
Contract No. 62-671303
Date Completed
Document No. 60001062

THIS SET OF PLANS HAS BEEN CORRECTED TO CONFORM TO THE "AS BUILT" PRINTS DATED ... AS SUBMITTED BY RESIDENT ENGINEER.

DATE:

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer E. E. Cornell
Chief Designer W. W. Medsmith

DESIGN	By W.R. Leeder	Checked L.D. Olsen
DETAILS	By J. [illegible]	Checked L.M. Olsen
QUANTITIES	By T. Sugetani 3/61	Checked R.F. Smith
SPECIFICATIONS	By	Plans and Prem. Checked

Approval Recommended by [signature] Engineer of Design
Civil Engr. License No. 5525

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CEDAR AVENUE OVERCROSSING

10' GRID OF DECK ELEVATION

SCALE 1" = 20' | BRIDGE 42-209 | FILE | DRAWING C-6136-2

Disregard prints bearing earlier numbers → PREL. DRAWING NO. P-6736 | 19

4/28

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-11-72 SIGNATURE [signature] TITLE [illegible]

ClibPDF - www.fastio.com

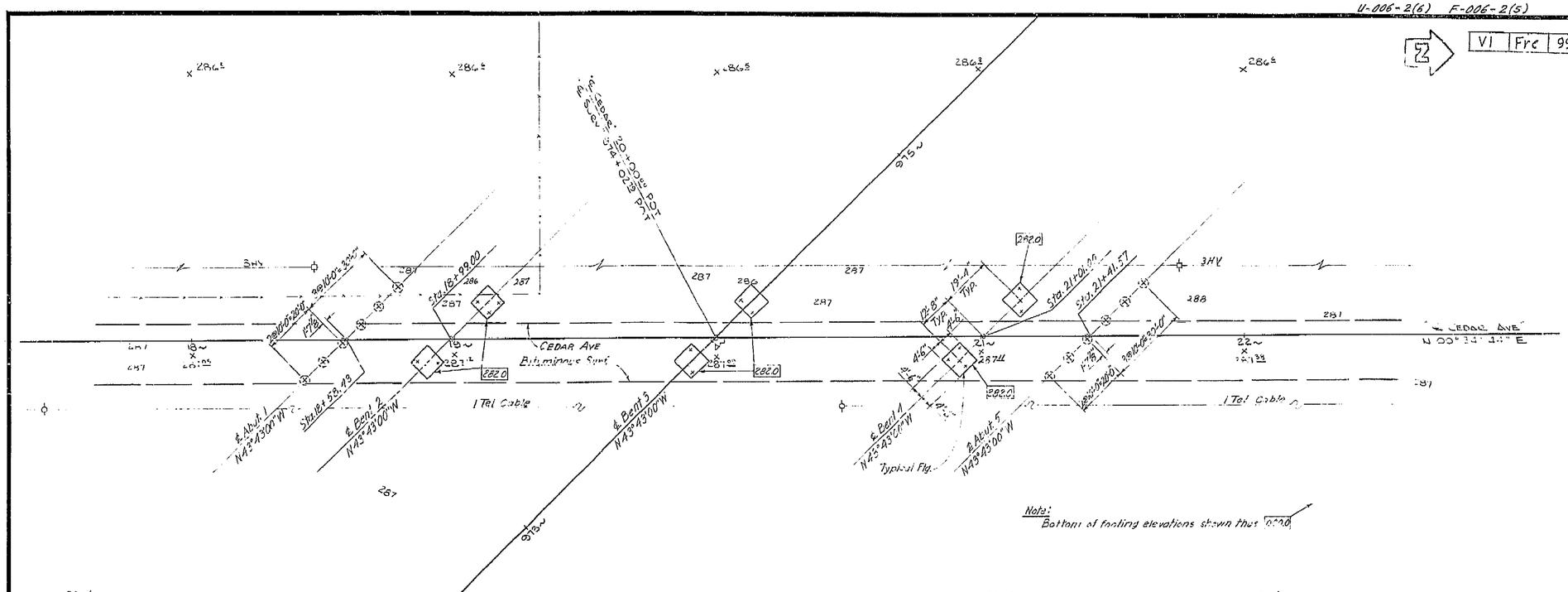
MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"= 50' 0 200 300 400 600
SCALE 1"= 50' 600 700
SCALE 1"= 20' 0 50
MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"= 20' 100 150 200
SCALE 1"= 20' 50 300

FED. ROAD DIV. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			197	424

U-006-2(6) F-006-2(5)

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	99		3	13

DATE APPROVED August 28, 1961



Note:
Bottom of footing elevations shown thus 000.0

GENERAL NOTES

Specifications:

Design: A.A.S.H.O. dated 1957 with revisions and as supplemented by Bridge Planning and Design Manual.

Construction: Standard specifications, Division of Highways, dated January 1960 and the Special Provisions.

Live Loading: H-20-S.T.-44 and Alternative.

Unit Stresses:

Reinforced concrete:

$f_s = 20{,}000$ psi $N = 10$

$f_c = 1200$ psi

Pile bearings: 45 Tons Type: Concrete - Class II

EL 287.2

LEVEL DATUM: USC&GS
FOR ALIGNMENT TIES SEE EE 6136-3
CONTOURS AS OF 10-59
SITE PLAN TO SUPPLEMENT DISTRICT DATA.
SURVEY BY JGG DATE 10-59
DRAWN BY JGG DATE 10-59
TRACED BY AD DATE 10-25-59

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

BRIDGE DEPARTMENT			
DESIGN SECTION 2			
Project Designer			
Chief Designer			
DESIGN	By	Checked	
DETAILS	By	Checked	
QUANTITIES	By	Checked	
SPECIFICATIONS	By	Plans and Spec. Complete	
Approval Recommended by		Bridge and Structural Engr. Lic. No.	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CEDAR AVENUE OVERCROSSING

FOUNDATION PLAN

SCALE 1" = 20' | BRIDGE 42-209 | FILE E- | DRAWING C-6136-3

P. 6736 | 20

PE 6136-4

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-13-72 SIGNATURE _____ TITLE SR RMO

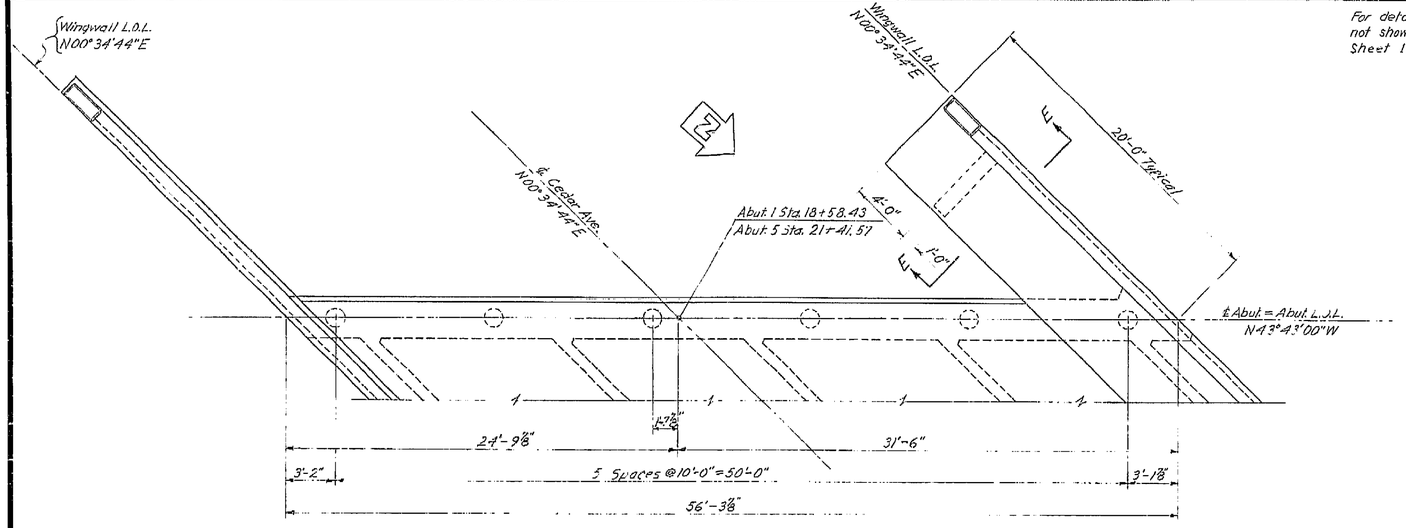
MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50'
SCALE 1" = 20'
ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.		198	424

U-006-2(6) F-006-2(5)

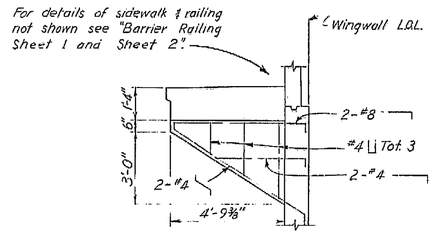
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	99			73

DATE APPROVED August 28, 1961

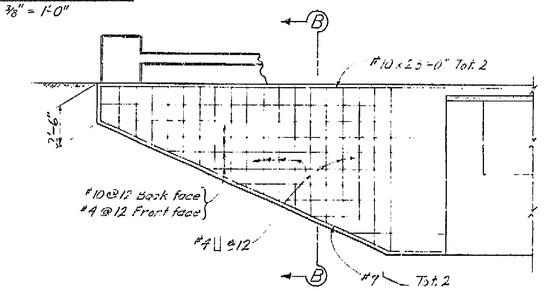


PLAN
¼" = 1'-0"

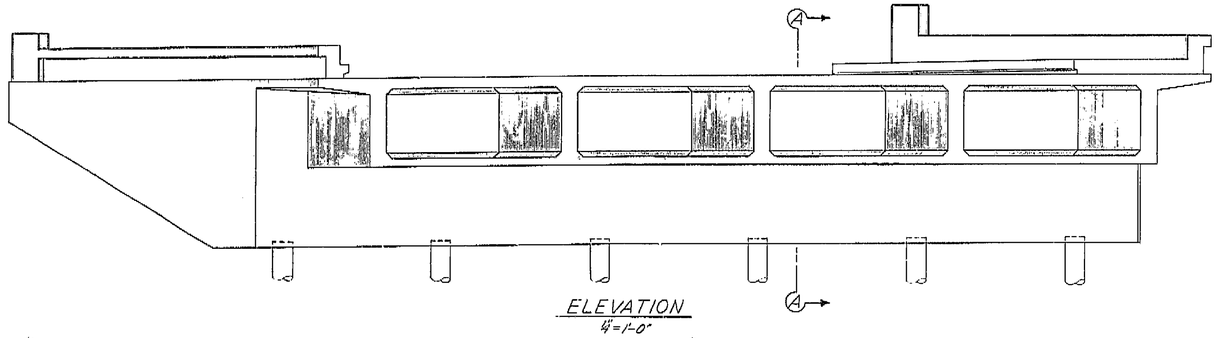
Note: Abutment 1 shown, Abutment 5 similar.



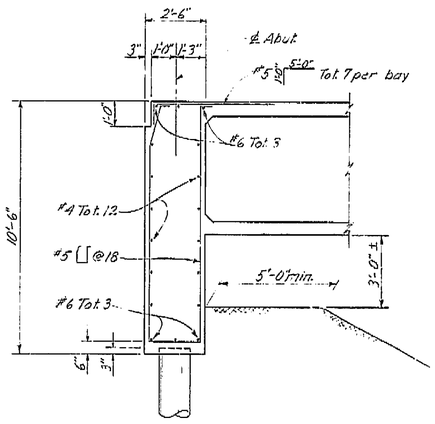
SECTION E-E
⅜" = 1'-0"



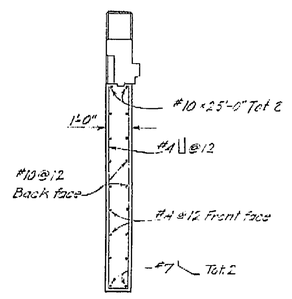
TYPICAL WINGWALL ELEVATION
¼" = 1'-0"



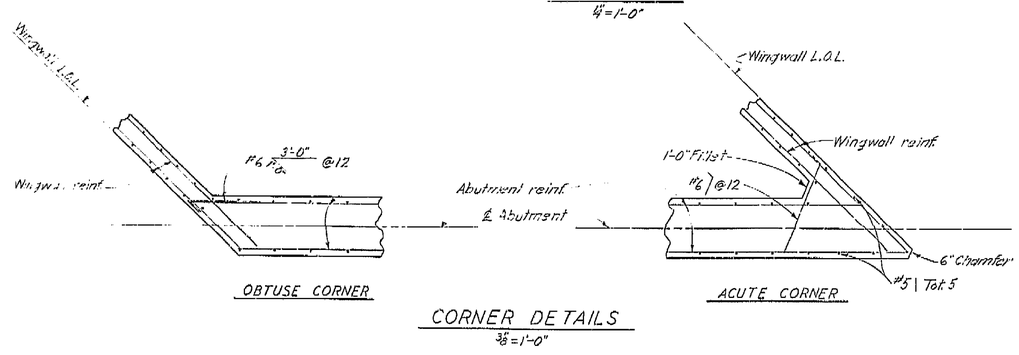
ELEVATION
¼" = 1'-0"



SECTION A-A
⅜" = 1'-0"



SECTION B-B
⅜" = 1'-0"



OBTUSE CORNER

ACUTE CORNER

CORNER DETAILS
⅜" = 1'-0"

AS BUILT PLANS
Contract No. 62-671343
Date Completed
Document No. 6000062

198

BRIDGE DEPARTMENT			
DESIGN SECTION 2			
Project Designer: Eugene C. Siebert			
Chief Designer: W. J. Leibrich			
DESIGN	By R. K. Dunn 3/60	Checked W. A. Graham 3/60	
DETAILS	By H. N. Dahl 3/60	Checked W. A. Graham 3/60	
QUANTITIES	By	Checked	
SPECIFICATIONS	By	Plan and Spec. Engineer	
Approval Recommended by: Assistant Engineer of Bridges		Civil Engr. License No.	Exp. Date

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CEDAR AVENUE OVERCROSSING

ABUTMENT DETAILS

SCALE As Noted	BRIDGE 42-209	FILE	DRAWING C-6130-4

Disregard prints bearing earlier numbers → PREL. DRAWING No. P- 6746 | 5 | 74 | 21

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

SCALE 1"= 50' MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM SCALE 1"= 20'

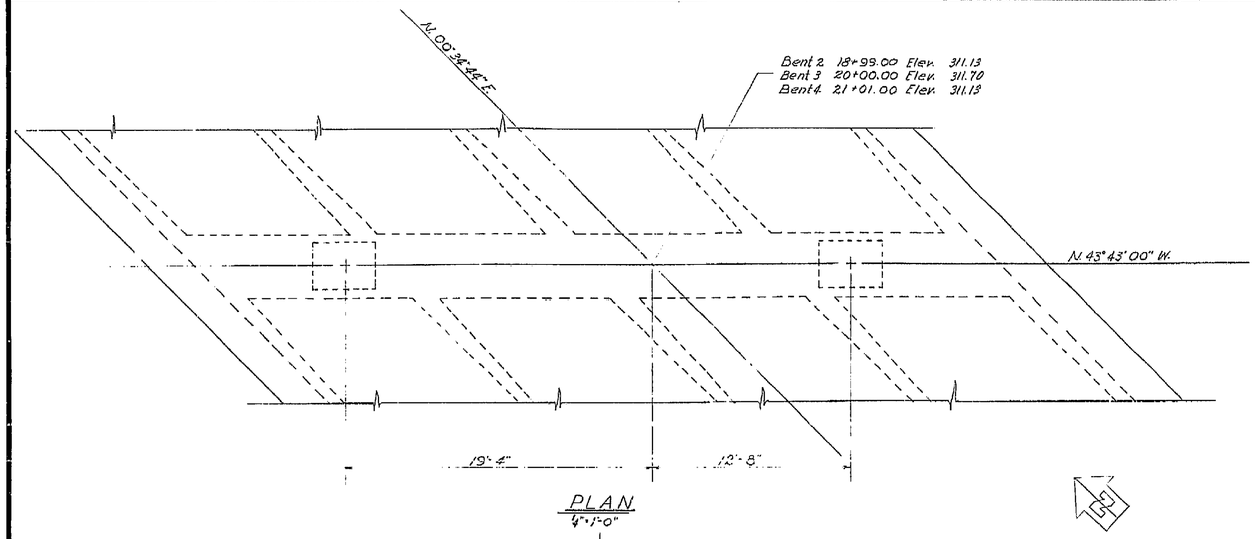
ClibPDF - www.fastio.com

FED. ROAD DIV. No.	STATE	PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
7	CALIF.			199	424

U-006-2(6) F-006-2(5)

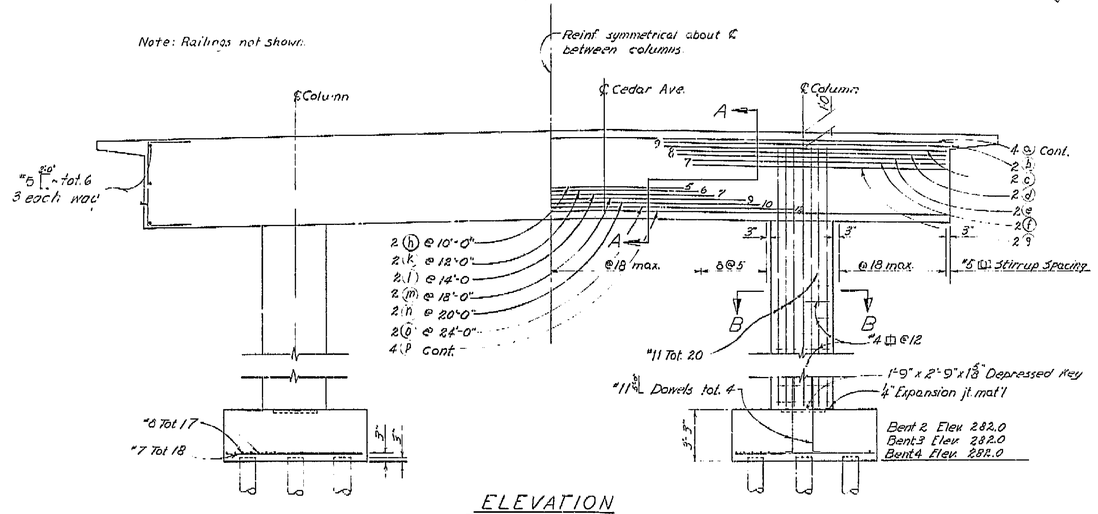
DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	Fre	99			

Date Approved August 28, 1961

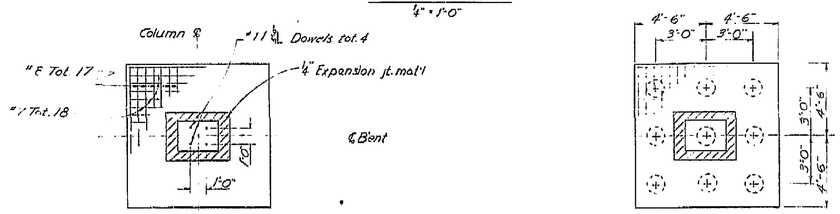


PLAN
1/4" = 1'-0"

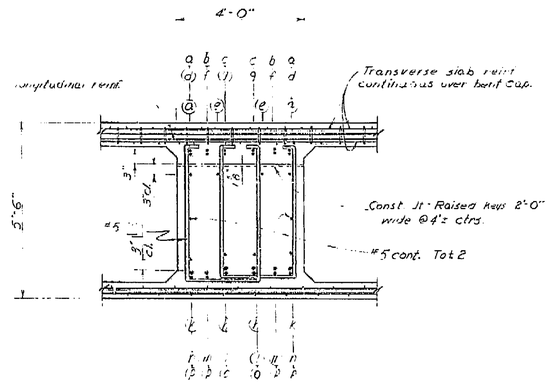
Note: Railings not shown.



ELEVATION
1/4" = 1'-0"

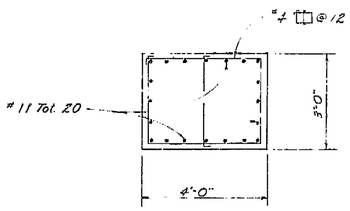


FOOTING PLAN
1/4" = 1'-0"



SECTION A A
1/2" = 1'-0"

Note: All bars are #11 except as noted. Numbers at ends of bars indicate distance in feet from ℄ of column for top reinf. or from ℄ between columns for bottom reinf.



SECTION B-B
1/2" = 1'-0"

AS BUILT PLANS
Contract No. 62-671363
Date Completed
Document No. 6000062

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer: Earl E. Anderson
Chief Designer: Wm. J. Wilkinson

DESIGN	By R. A. Daniels Jr. 2/64	Checked W. J. Wilkinson 3/60
DETAILS	By Joseph Wm. Adams 3/60	Checked W. J. Wilkinson 3/60
QUANTITIES	By T. Anderson 2/64	Checked
SPECIFICATIONS	By	Checked Plans Ready for Filing

Approved Recommended by: Engineer of Design — Chief Bridge Engineer

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CEDAR AVENUE OVERCROSSING

BENT DETAILS

SCALE	BRIDGE	FILE	DRAWING
As Noted	42-209		C-6736-5

Disregard prints bearing earlier numbers → PREL. DRAWING No. P- 6736 | 6 | 15 | 22 | 6/14

199

431

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

ClibPDF - www.fastio.com

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50'
SCALE 1" = 20'

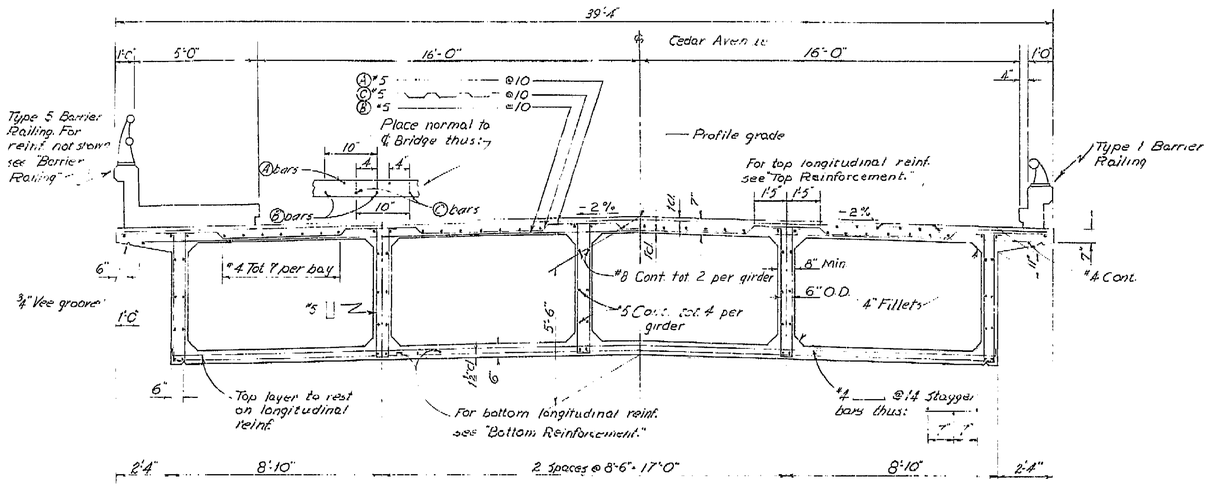
FED. ROAD DIV. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			200	424

U-006-2(6) F-006-2(5)

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	99			

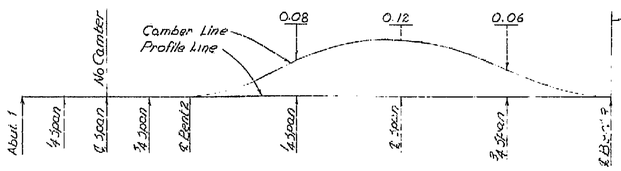
BRIDGE ENGINEER — CIVIL ENGINEER — LICENSE 8503

Date Approved August 28, 1961



TYPICAL SECTION

Scale: 3/8" = 1'-0"

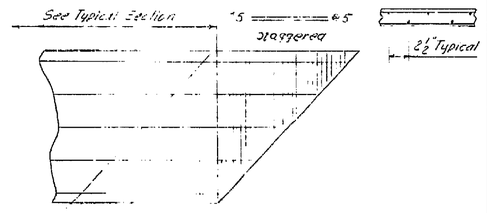


CAMBER DIAGRAM

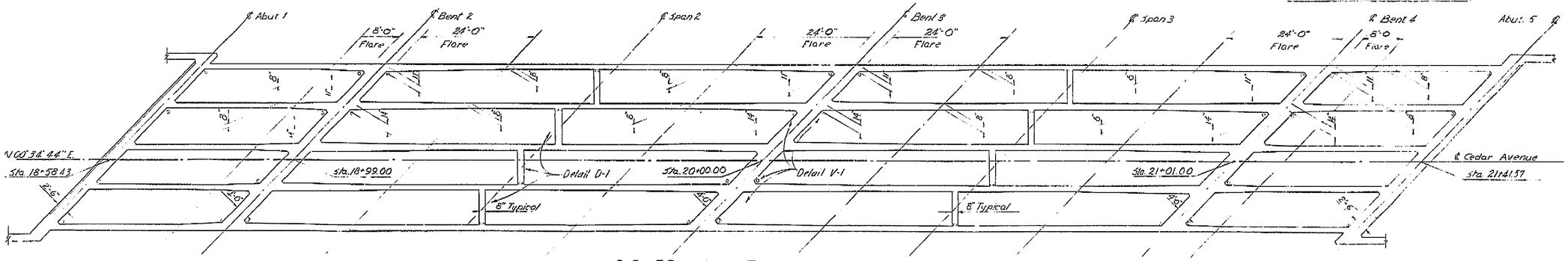
(Total girder deflection due to dead loads)

Notes:

The total deflection will be reached about 4 years after falsework removal. For values at time of falsework removal divide those shown by 4 [illegible] amount of camber for construction [illegible]

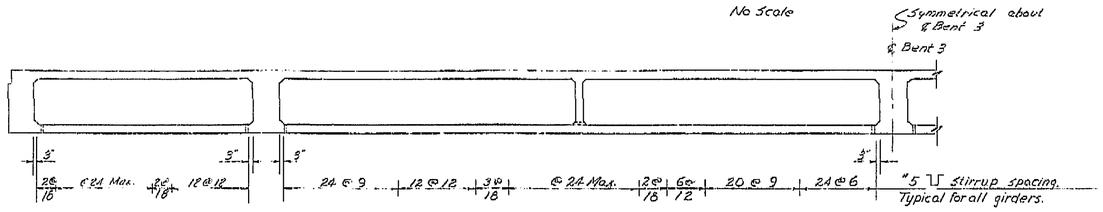


TYPICAL TRANSVERSE REINFORCEMENT TOP SLAB AT ABUTMENT



GIRDER LAYOUT

No Scale



LONGITUDINAL SECTION

No Scale

BRIDGE DEPARTMENT

DESIGN SECTION 2

Project Designer: Ernest K. Stevens

Chief Designer: W. O. Jerkovich

DESIGN	By R. N. Quinn 3/60	Checked M. E. Kostani 3/60
DETAILS	By Joseph Ann Adair 3/60	Checked M. E. Kostani 3/60
QUANTITIES	By T. Tsujita 3/60	Checked
SPECIFICATIONS	By	Plans and Bldrs. Compared

Approval Recommended by: R. W. Hurt Chairman, Board of Design — Civil and Structural Exam. License No. 5439

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CEDAR AVENUE OVERCROSSING

TYPICAL SECTION & GIRDER LAYOUT

SCALE As NOTED: | BRIDGE 42-209 | FILE | DRAWING C-5736-6

Disregard prints bearing earlier numbers → PREL. DRAWING No. P- 6736 | X | 46 | 23

43

AS BUILT PLANS
Contract No. 62-671363
Date Completed
Document No. 60001062

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-12-72 SIGNATURE [signature] TITLE [illegible]

200

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SCALE 1"= 50' MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM SCALE 1"= 50' SCALE 1"= 20' MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM SCALE 1"= 20'

U-006-2(6) F-006-2(5)

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.			206	424

VI Fre 99

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre.	41	Eastbound	12	13

BRIDGE ENGINEER CIVIL L. HICKEY LICENSE 5508

DATE APPROVED August 28, 1961

BRIDGE DEPARTMENT

FIELD STUDY	H. HAGER	10-59
DRAWN	H. WHITE	11-59
CHECKED	H. Hager	11-23-59

Approved Recommended by [illegible] Engineering Geologist

BM "Cedar"
Fd - RR spike in TP 26' Rt
℄ "Cedar" 20+47
El. 287.27

℄ "Cedar" 20+00 POT
℄ Survey 974+02.23 POT

To Fresno

To Fowler

℄ Survey
N 43° 42' 00" W

Distance: 139.52 ft
Distance: 99.63 ft
Distance: 119.79 ft
Distance: 125.54 ft
Distance: 20.86 ft
Distance: 6.24 ft
Distance: 7.11 ft
Distance: 7.03 ft
Distance: 26.84 ft
Distance: 25.14 ft

B-6 B-4 B-5 B-3 B-2 B-1

19 20 21

"℄ Cedar Ave"
N 00° 35' 07" E

24' Rt 20+00 "Cedar"
7' Lt 20+00 "Cedar"
21' Rt 18+74 "Cedar"
6' Lt 19+00 "Cedar"
7' Lt 21+20 "Cedar"
26' Lt 21+40 "Cedar"

AS BUILT PLANS
Contract No. 62-671303
Date Completed ____
Document No. 60001062

B-2 El. 286.8
Dense brown fine to medium sand
10-19-59

B-4 El. 286.8 2.5
Slightly compact brown silt
Slightly compact grey sand
Slightly compact grey dry fine silty sand - a little binder - changing to slightly compact grey medium to coarse sand
Compact grey medium to coarse sand changing to compact brown medium silty sand
G.W.S. El. 253.8 10-19-59
10-19-59

B-1 2.5
Slightly compact grey dry fine sand to loose grey medium sand - no binder
Compact grey dry sandy silt
Dense brown medium dry silty sand - a little cement
Compact to loose to slightly compact grey medium to coarse sand - a little silt
Dense brown saturated silt
Dense to very dense brown wet silty fine to medium sand
G.W.S. El. 241.2 10-19-59
10-19-59

B-5 El. 286.7
10-12-59

B-3 El. 286.7
10-19-59

B-6 El. 286.7
10-19-59

CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS

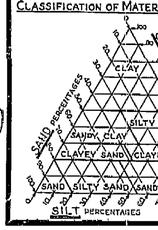


DIAGRAM SHOWING THE BASIS FOR ESTIMATES OF GRADE SIZE DISTRIBUTION USED IN DETERMINATION OF CLASS NAMES.

IF GRAVEL IS PRESENT IN APPRECIABLE AMOUNTS THE TERM "GRAVELLY" MAY BE ADDED TO THE CLASS NAME, VIZ. "GRAVELLY SAND." THE TERMS "COARSE," "MEDIUM" AND "FINE" WHEN USED TO DESCRIBE SAND, SILT AND GRAVEL REFER TO STANDARD GRADE SIZE LIMITS.

LEGEND OF EARTH MATERIALS

- Gravel
- Sand
- Silt
- Clay
- Sandy Clay or Clayey Sand
- Sandy Silt or Silty Sand
- Silty Clay or Clayey Silt
- Peat and/or Organic Matter
- Fill Material
- Igneous Rock
- Sedimentary Rock
- Metamorphic Rock

LEGEND OF BORING OPERATIONS

- Plan of any boring
- Penetrometer
- 2½" Cone Penetrometer
- Sampler boring (DRY)
- Rotary boring (WET)
- Auger boring (DRY)
- Jet boring
- Core boring
- Test pit

1" Soil Tube

Top Hole El. — Location — B-1A
Blows per Foot (Using ___ lb hand hammer with a 12" Free fall)
Pulled pipe
Sample taken
Refusal
Date of boring
G.W.S. Elev. Date measured
Groundwater surface
Description of material

Rotary Boring

Top Hole El. — Location — B-1B 2.5
Casing driven
Size of sampler (inches)
Blows per foot (Using a 140 lb hammer with a 30" drop, or as noted)
Unconfined compressive strength (T/sq. ft.)
Vane shear
Shear strength (lb/sq. ft.)
Description of material
Unit weight (lb/cu ft)
% Moisture
Consolidation Test
G.W.S. Elev. Date measured
Conformable material change
Estimated material change
Unconformable material change
Date of boring

Penetration Boring

Top Hole El. — Location — B-1B
Pushed
No count recorded
Seconds per foot (Using a M-2, McKiernan-Terry Air hammer @ 115 psi, or as noted)
Average skin Friction above this point (lb/sq ft)
G.W.S. Elev. Date measured
Graphic representation of driving rate
Date of boring
Seconds per Foot

NOTES

Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CEDAR AVENUE OVERCROSSING

LOG OF TEST BORINGS

SCALE 1" = 10' | BRIDGE 42-209 | FILE E-42 | DRAWING C-6736-12

PR-6736-5 438

206

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE ____ SIGNATURE ____ TITLE ____

ClibPDF - www.fastio.com

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"= 50'
SCALE 1"= 20'

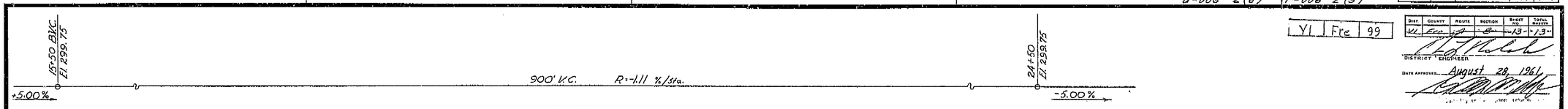
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7	CALIF.		207	424

U-006-2(6) F-006-2(5)

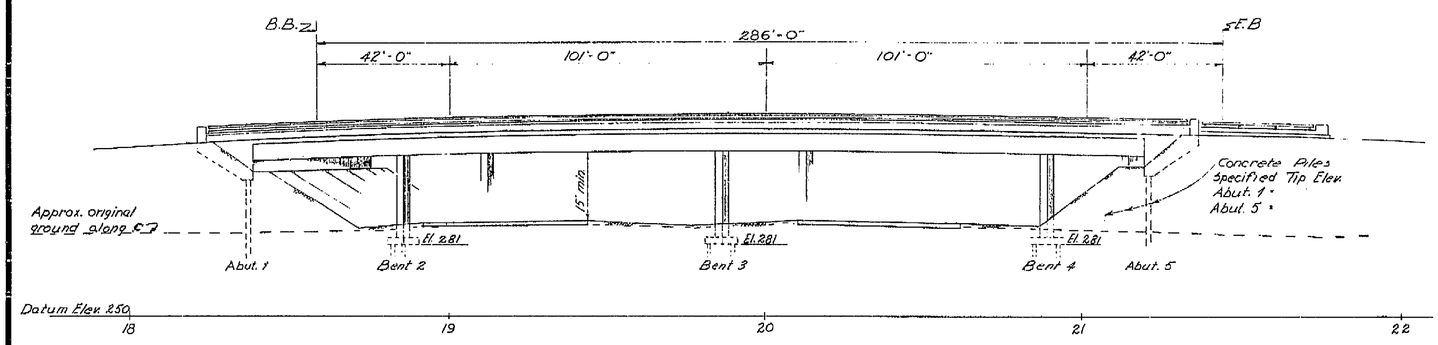
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	99		13	13

DISTRICT ENGINEER

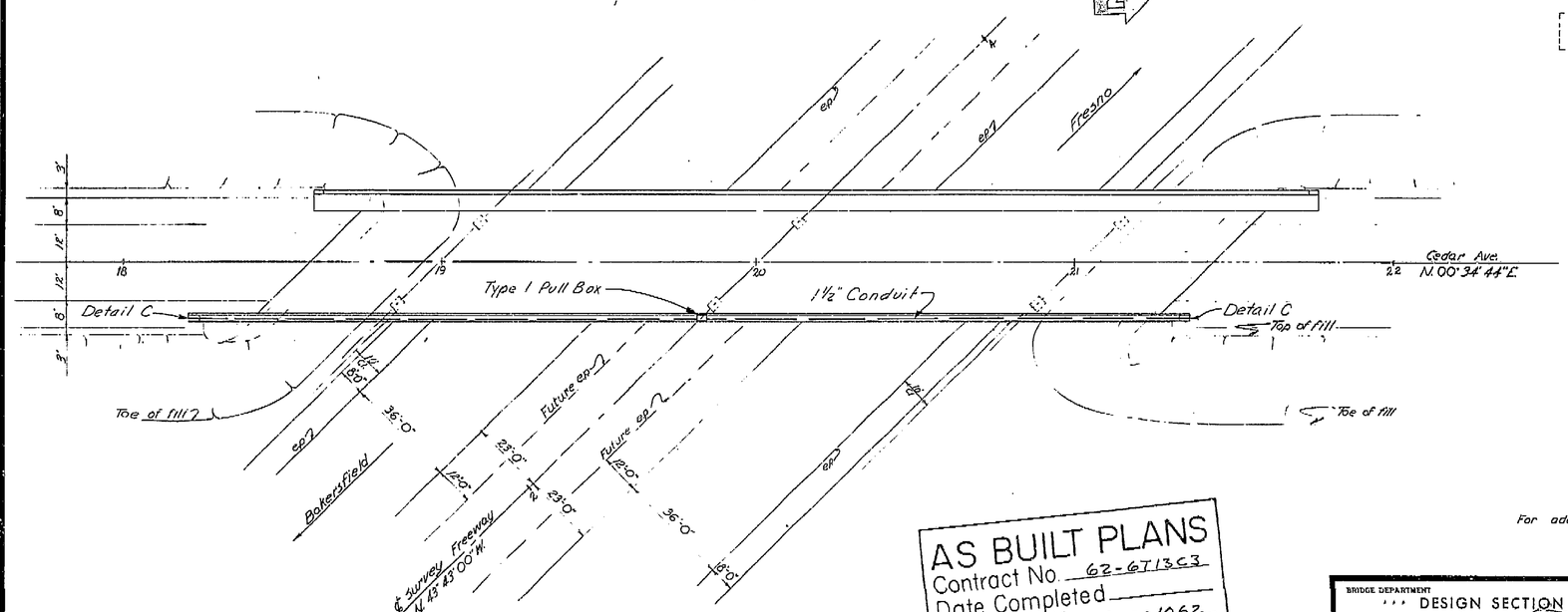
DATE APPROVED August 28, 1961



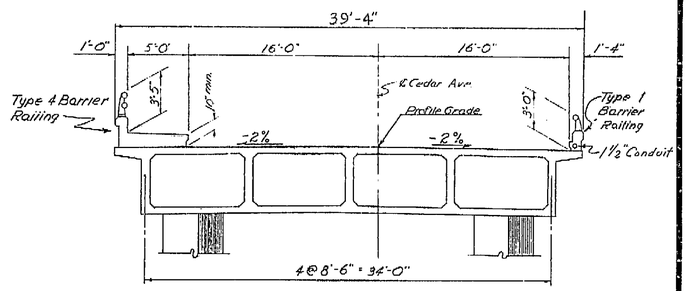
PROFILE GRADE



ELEVATION
1" = 20'-0"



PLAN
1" = 20'-0"



TYPICAL SECTION
3/16" = 1'-0"

Note: This plan accurate for highway lighting only.

THIS PLAN HAS BEEN CORRECTED TO CONFORM TO THE "AS BUILT" PRINTS DATED ____ AND SUBMITTED BY RESIDENT ENGINEER ____ DATED ____

For additional notes see Sheet No. ES-7-4

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL RECOMMENDED BY	DATE
O. E. Schlenker	4/61	E. B. Taylor	4/61		4/61

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer E. B. Taylor
Chief Designer

DESIGN	By	Checked
DETAILS	By JOSEPH WM. ADAMS 7/60	Checked
QUANTITIES	By	Checked
ELECTRICAL	By	Plans and Specs. Prepared

Approval Recommended by ____ Engineer of Design — Civil Engr. License No. 9439

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CEDAR AVENUE OVERCROSSING

LOCATED ABOUT 1.9 MILES SOUTH OF THE SOUTH CITY LIMIT OF FRESNO

LIGHTING PLAN

SCALE As Noted	BRIDGE 42-209	FILE	DRAWING C-6736-13

Disregard prints bearing earlier numbers → PREL. DRAWING No. P-6736 | 2 | 439

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DATE ____ SIGNATURE ____ TITLE ____

207

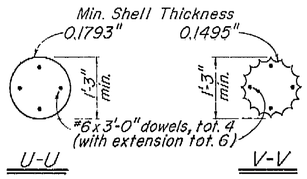
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SCALE 1" = 50'
SCALE 1" = 20'
ClibPDF - www.fastio.com

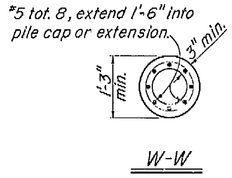
U-006-2(6) F-006-2(5)

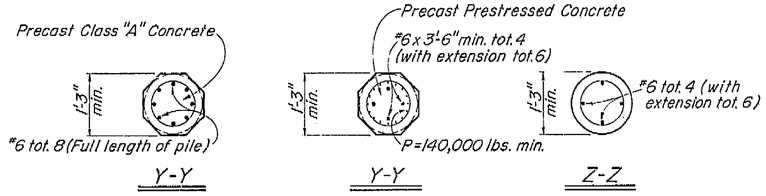
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7	CALIF.		205	424

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	99			

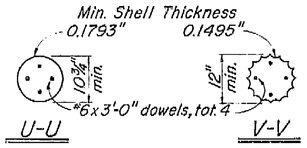
USE APPROVED August 28, 1961

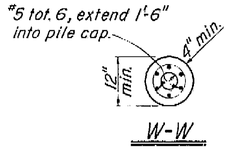


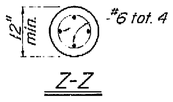




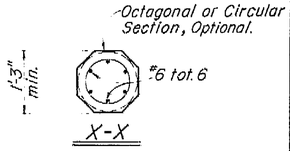
CLASS I PILES
Scale: 3/4"=1'-0"

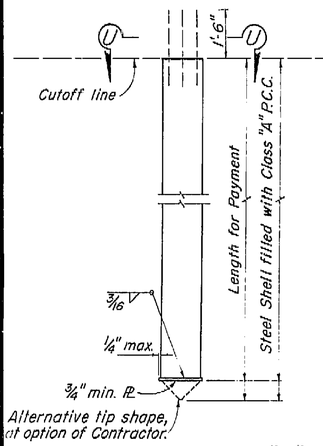




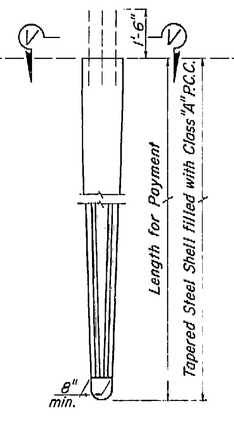


CLASS II PILES
Scale: 3/4"=1'-0"

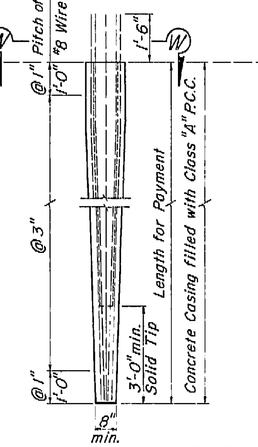




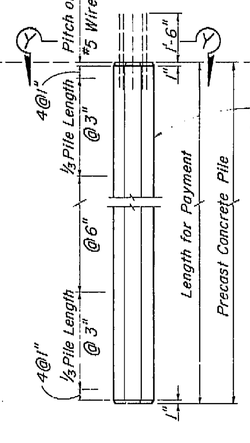
ALTERNATIVE "U"



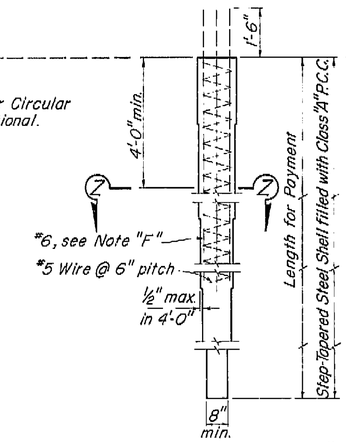
ALTERNATIVE "V"



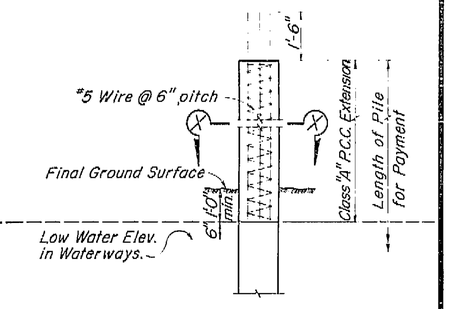
ALTERNATIVE "W"



ALTERNATIVE "Y"



ALTERNATIVE "Z"



PILE EXTENSION
Permitted with Class I Piles only.

10" min. dia. pipe extension may be used when step taper is 30' or more in length.
Minimum length of extension is 15'.
Minimum thickness of pipe extension=0.1793".

PILE NOTES

Alternative "W" & "Y" may be driven full length and cutoff without extension or may be extended. All exposed piles or pile extensions shall be consistent in cross-section throughout the project.

Alternative "Y" (Precast Prestressed)
P=Prestressing Force (after losses)
Concrete stress:
f'c = 4500 p.s.i. @ 28 days
f'ci = 3500 p.s.i. @ transfer (3/8 strand)
f'ci = 4000 p.s.i. @ transfer (7/16 strand)

Note "F": In Alternative "Z" the #6 bars shall extend a minimum of 12' below the lowest of the following:
1. Bottom of footing
2. Top of final ground surface
3. Top of original ground surface when piles are driven through fills.

Class I piles may be substituted for Class II piles. Unless indicated to the contrary all piles shall be Class I piles.

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

DESIGN LOADING = 45 TONS

BRIDGE DEPARTMENT DESIGN SECTION		9/60	STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS
Section Supervisor W.J. Leonhardt		CEDAR AVENUE OVERCROSSING	
DESIGN	By R.N.A. Checked W.L. Kidson 12/60	CONCRETE PILE DETAILS	
DETAILS	By J.W.A. Checked W.L. Kidson 12/60		
QUANTITIES	By T.T.S. Checked R.E.K.	SCALE 1/2"=1'-0" or as noted	BRIDGE XS-10-17 FILE DRAWING C-6736-11

Disregard prints bearing earlier numbers → PREL. DRAWING No. P-6736 28

437

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE ____ SIGNATURE ____ TITLE ____

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"= 50' 0 200 400 600
SCALE 1"= 20' 0 100 200 300
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Revision: 9-22-60
Made #8 bar cont. in Detail J-1.
E.T.K.

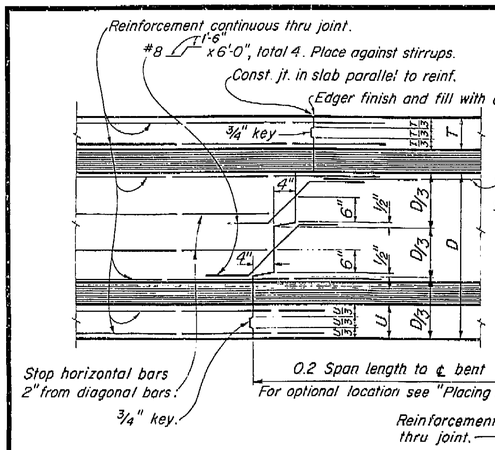
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7	CALIF.			202	424

U-006-2(6) F-006-2(5)

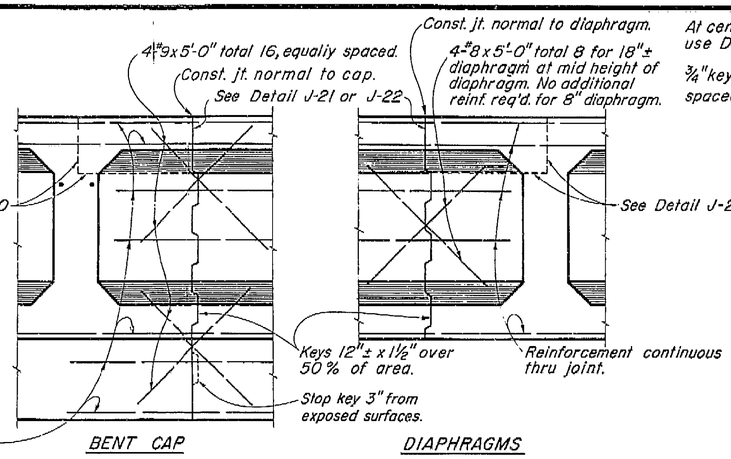
DIST	COUNTY	ROUTE	SECTION	SHEET NO	TOTAL SHEETS
VI	Fre	41	B	8	13

STATE OF CALIFORNIA — DEPARTMENT OF PUBLIC WORKS — DIVISION OF HIGHWAYS
DISTRICT ENGINEER — CIVIL ENGINEER — ASSISTANT ENGINEER
DATE APPROVED August 28, 1961

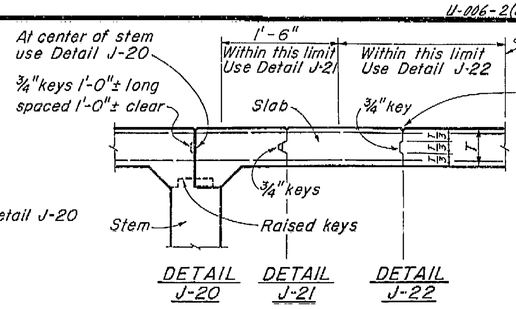
VI	Fre	99

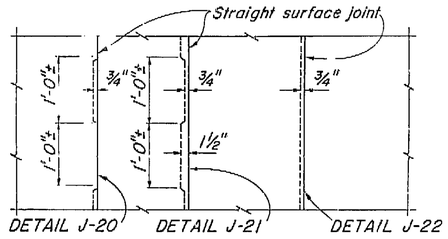


TRANSVERSE GIRDER CONSTRUCTION JOINTS
DETAIL J-3

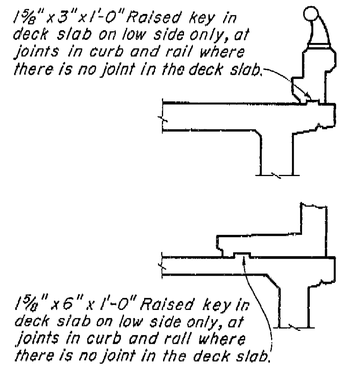


BENT CAP LONGITUDINAL CONSTRUCTION JOINTS DIAPHRAGMS
DETAIL J-4



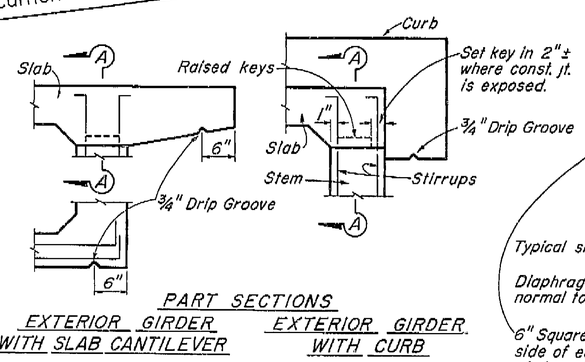


DECK SLAB
LONGITUDINAL CONSTRUCTION JOINTS
Note: Longitudinal construction joints in slab, if required, are to be located at edge of traffic lanes except as approved by the Engineer.

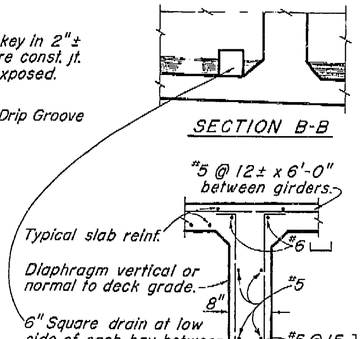


CURB AND SIDEWALK EXPANSION JOINT
DETAIL C-1

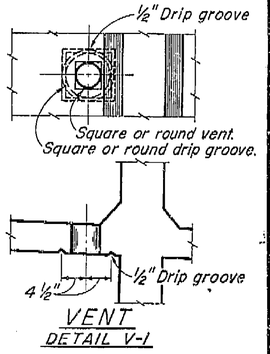
AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062



PART SECTIONS
EXTERIOR GIRDER WITH SLAB CANTILEVER
EXTERIOR GIRDER WITH CURB

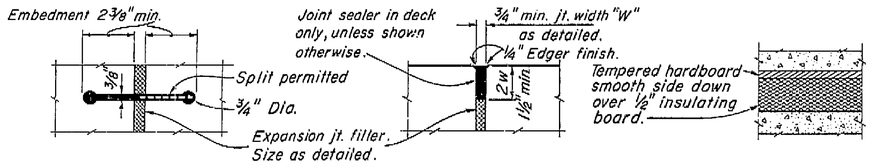


INTERMEDIATE DIAPHRAGM SECTION
DETAIL D-1



VENT
DETAIL V-1

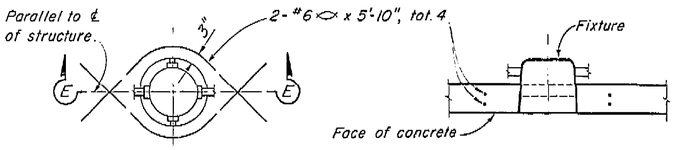
Note:
5" ϕ Vent in lower slab.
Min. of two vents per span in each bay between girders. One vent to be located at low point of span and other vent to be located at opposite end of span @ 1'-6" from face of Abutment or Bent. See "Girder Layout."



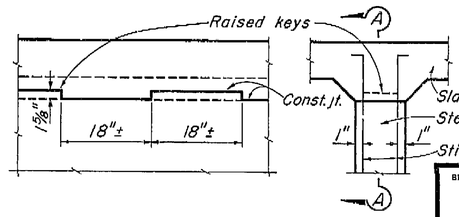
RUBBER WATERSTOP
DETAIL W-1

SEALED EXPANSION JOINT
DETAIL L-1

DETAIL M-1



ADDED REINFORCEMENT
SECTION E-E
RECESSED SOFFIT LIGHT
DETAIL F-1



KEY-GIRDER STEM TO SLAB
DETAIL J-5

THIS SET OF PLANS HAS BEEN CORRECTED TO CONFORM TO THE "AS BUILT" PRINTS DATED ENGINEER AS SUBMITTED BY RESIDENT
TRACINGS CORRECTED BY: DATE:

STANDARD DRAWING
Submitted 9.7.60 Date
Approved 9.8.60 Date
DESIGN
DETAILS
QUANTITIES
SPECIFICATIONS
Approved for Use Date
Supersedes Dwg. No. 6729

BRIDGE DEPARTMENT
DESIGN SECTION
Project Designer
Chief Designer W.O. Jamieson

DESIGN	By	Checked	
DETAILS	By	Checked	
QUANTITIES	By	Checked	
SPECIFICATIONS	By	Plans and Specs Completed	

Approval Recommended by Engineer of Design — Civil and Structural Engr. License No. 4459

9/60
STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CEDAR AVENUE OVERCROSSING

STANDARD DETAILS NO. 1 (BOX GIRDER)

SCALE None | BRIDGE 42-209 | XS-16-22 FILE | DRAWING C-6736-8

PREL. DRAWING No. P- 6736 | 25

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE SIGNATURE TITLE

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50' 0 100 200
SCALE 1" = 50' 600 700
SCALE 1" = 20' 0 100
SCALE 1" = 20' 200 300

ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
7	CALIF.		204	424

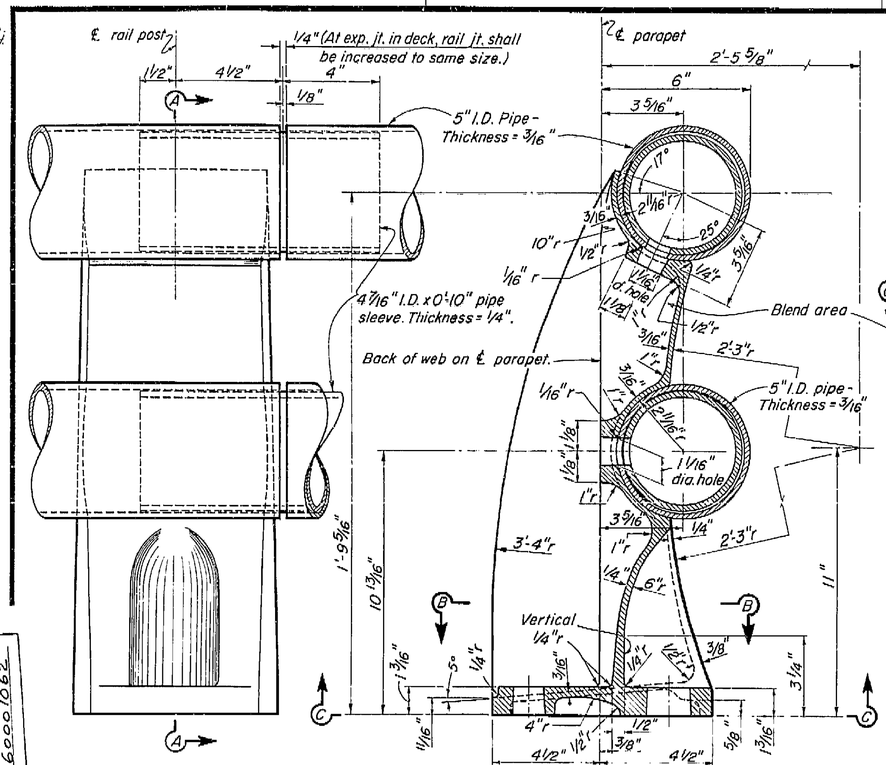
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	41	B	10	*13

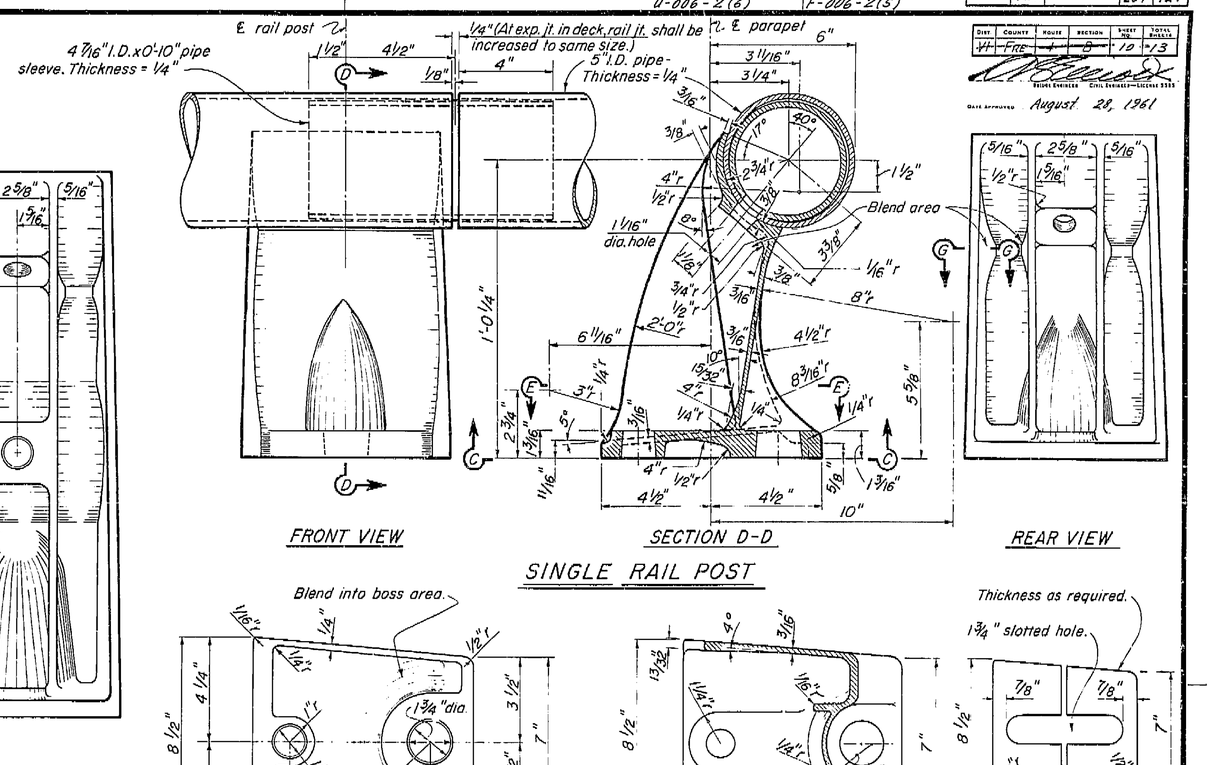
REGISTERED CIVIL ENGINEER — CIVIL ENGINEER—LICENSE 5385

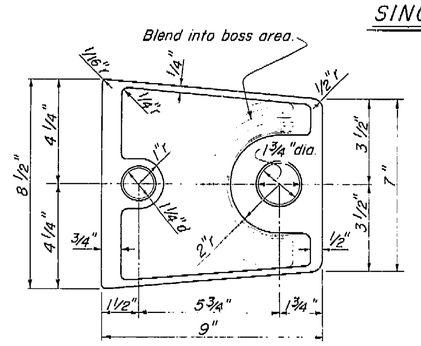
DATE APPROVED August 28, 1961

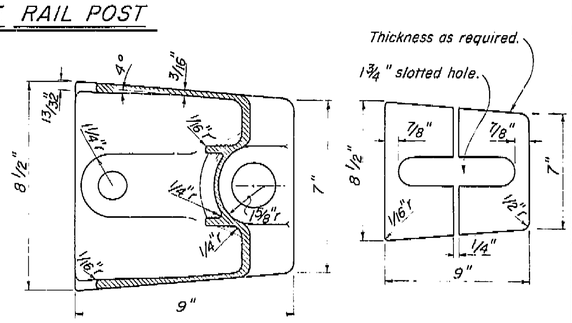
*:-Added 1/16"r on section A-A & D-D. Added 2 3/4" long dim. "Rail Connection" dd. 60 RPK

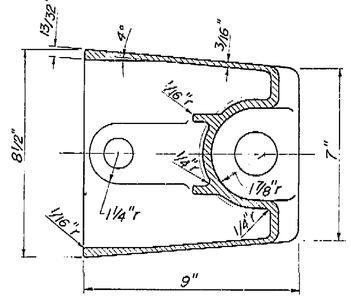
AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed —
Document No. 6000106Z

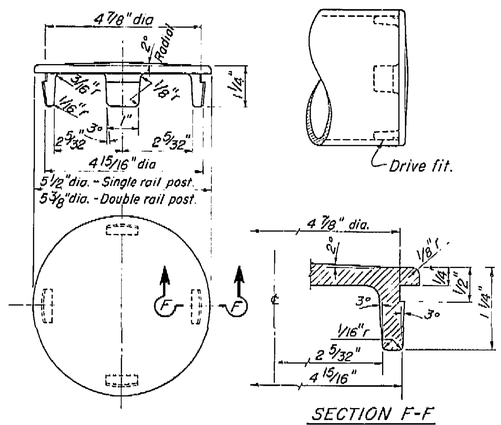


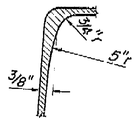


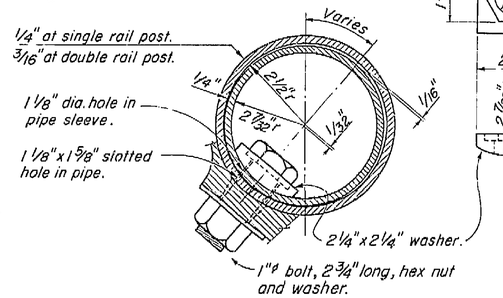


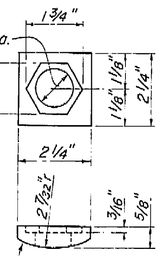












Notes:

1. At the option of the contractor, material for the railing shall be one of the following:
   a. Aluminum pipe rail and cast aluminum post.
   b. Steel pipe rail and cast steel post. Rail and posts to be galvanized. Steel pipe rail shall be 3/16" thick with 5"I.D.. Rail post dimensions shall be revised as necessary to fit the steel pipe.
2. Shims are to be of asbestos sheet packing.
3. For railing on a horizontal curve the pipe rail shall be bent to the curve or the spacing of posts adjusted so that the middle ordinate between posts will not exceed 1".

BRIDGE DEPARTMENT		
DESIGN SECTION 2		
Section Supervisor	M. J. Jackson	
DESIGN	By	E. Ellis
	Date	11-60
DETAILS	By	R.P.
	Date	11-60
QUANTITIES	By	J. T. S.
	Date	R.P.K.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

11/60

CEDAR AVENUE OVERCROSSING

BARRIER RAILING SHEET 2

Except as noted SCALE 3/8" = 1" | BRIDGE 42-209 | XS-9-71 FILE | DRAWING C-6736-10

Disregard prints bearing earlier numbers

PREL. DRAWING No P- 6736 | 27

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE_____ SIGNATURE_____ TITLE_____

MICROFILM - STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS MICROFILM

ClibPDF - www.fastio.com

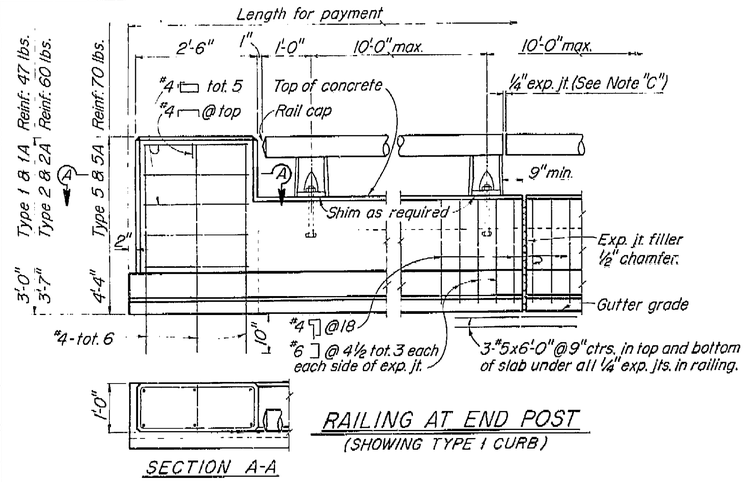
FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
7	CALIF.		203	424

U-006-2(6) F-006-2(5)

VI Fre 99

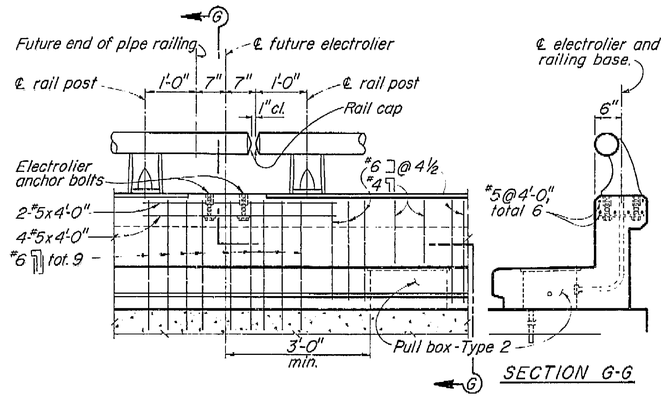
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	99	B	9-13	

August 28, 1961

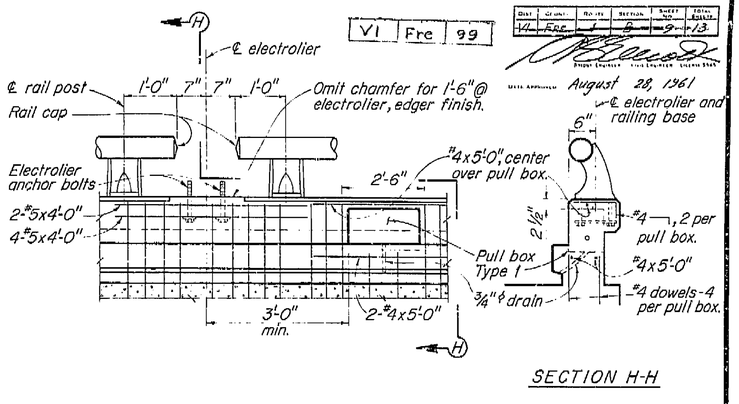


RAILING AT END POST
(SHOWING TYPE 1 CURB)

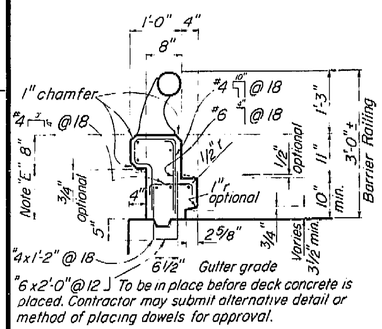
SECTION A-A



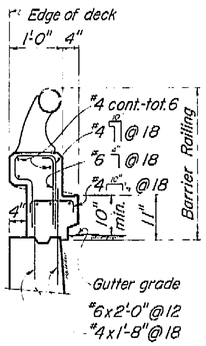
RAILING CLOSURE AT ELECTROLIER
(SHOWING TYPE 2 CURB)



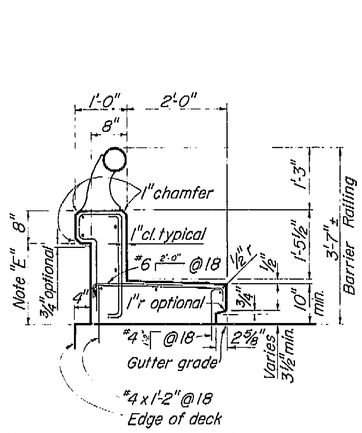
RAILING AT ELECTROLIER
(SHOWING TYPE 1 CURB)



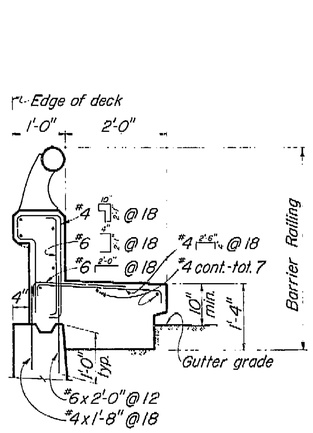
TYPE 1
Conc. 1.61 cu. ft. / lin. ft.
Reinf. 11.8 lbs. / lin. ft.



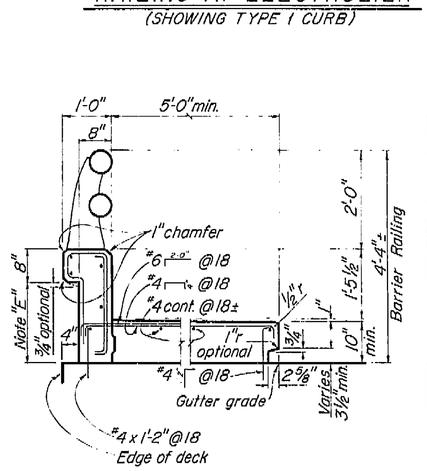
TYPE 1A
Conc. 1.61 cu. ft. / lin. ft.
Reinf. 12.0 lbs. / lin. ft.



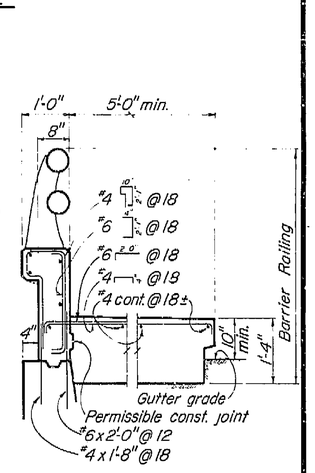
TYPE 2
Conc. 3.43 cu. ft. / lin. ft.
Reinf. 14.7 lbs. / lin. ft.



TYPE 2A
Conc. 4.30 cu. ft. / lin. ft.
Reinf. 17.3 lbs. / lin. ft.



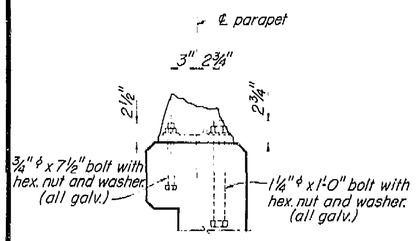
TYPE 5
Conc. 6.10 cu. ft. / lin. ft.
Reinf. 17.2 lbs. / lin. ft.
— For 5'-0" width —
Conc. 0.84 cu. ft. / lin. ft.
Reinf. 2.1 lbs. / lin. ft.
— Per additional ft. (width) —



TYPE 5A
Conc. 8.35 cu. ft. / lin. ft.
Reinf. 19.7 lbs. / lin. ft.
Conc. 1.34 cu. ft. / lin. ft.
Reinf. 2.1 lbs. / lin. ft.

Note: Type 1A and 2A are similar to Type 1 and 2 except as noted.

TYPICAL CURB AND RAIL SECTIONS



RAIL POST ANCHOR BOLT DETAIL
Scale: 1½" = 1'-0"

Note:
A. Railing shall conform to horizontal and vertical alignment.
B. Posts shall be normal to railing.
C. Curb and wall exp. jts. to be located at all deck joints, at ℄ piers or bents and at uniform spacing (40' max.) between those specified. Joint size to be ¼" min. and increased to match deck joints.
D. Construct 3" deep x 12" wide overflow scupper 2" above deck at low points in grade.
E. Dimension will vary with cross-slope of deck.
F. Walls are to be backfilled before railing is placed.
G. Clearance to reinforcing steel in curb and railing to be 1".

AS BUILT PLANS
Contract No. 62-6T1363
Date Completed
Document No. 60001062

BRIDGE DEPARTMENT DESIGN SECTION 2		10/60	STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS
Section Supervisor		CEDAR AVENUE OVERCROSSING	
DESIGN	By EHR Checked [illegible] 11/60	BARRIER RAILING SHEET 1	
DETAILS	By BA Checked [illegible] 11/60		
QUANTITIES	By TTS Checked PEK	Except as noted SCALE 3/4"=1'-0"	BRIDGE 42-209 / XS-9-63 FILE / DRAWING C-6736-9 1

Disregard prints bearing earlier numbers → PREL. DRAWING No P-6736 | 26

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50' 0 200 400 600
SCALE 1" = 20' 0 50 100 200 300
ClibPDF - www.fastio.com

FED. ROAD DIV. No	STATE	F. A. PROJECT No	SHEET No	TOTAL SHEETS
7	CALIF.		201	424

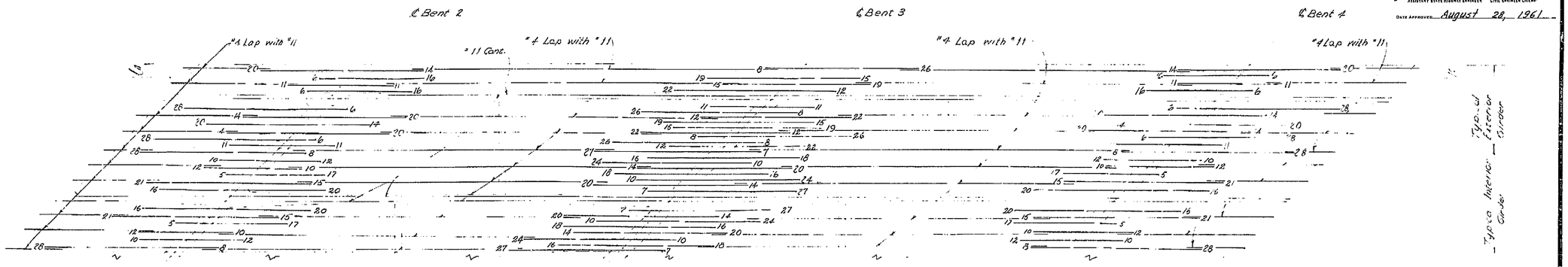
U-006-2(6) F-006-2(5)

DIST	COUNTY	ROUTE	SECTION	SHEET No	TOTAL SHEETS
VI	Fre	99		7	13

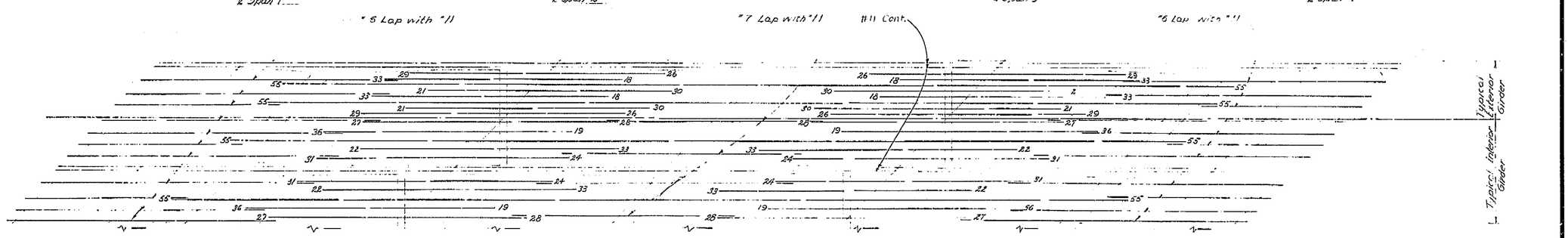
VI Fre 99

ASSISTANT STATE HIGHWAY ENGINEER CIVIL ENGINEER (CIVIL)

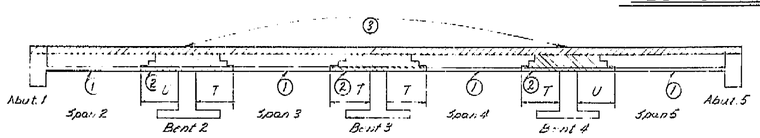
DATE APPROVED August 28, 1961



TOP REINFORCEMENT



BOTTOM REINFORCEMENT



BOX GIRDER SUPERSTRUCTURE PLACING DIAGRAM

Numbers ① and ② indicate sequence of placing bottom slab and girder stem concrete. ② may be placed simultaneously with ① when approved by the Engineer, and provided that the ① sections are placed in adjoining spans.

Top concrete ③ shall be placed separately from ① and ②. ③ may be placed continuously or in parts as approved by the Engineer, however the only joints permitted shall be located within 2'-0" of the girder joints between ① and ②.

T = ¼ Span length.

U = ½ Span length.

For any deviation from the above the Contractor shall submit a diagram to the Engineer.

Note: All bars are "11 unless otherwise noted. Numbers at ends of bars indicate distance in feet from ℄ Bent for Top Reinforcement or from ℄ Span for Bottom Reinforcement.

No splicing of "11 bars permitted near ℄ Bent in Top Reinforcement or near ℄ Span in Bottom Reinforcement.

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

DATE

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer
Chief Designer W.J. Jurasevich

DESIGN	By R.H. Amen 2/60	Checked A.E. Graham 3/60
DETAILS	By Joseph Wm Adams 3/60	Checked W.B. Lane 3/60
QUANTITIES	By T. Sargetanges 3/60	Checked
SPECIFICATIONS	By	Plans and Report Prepared

Approval Recommended by Bridge Engineer — Civil Engr. License No. 9449

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CEDAR AVENUE OVERCROSSING

GIRDER REINFORCEMENT

SCALE NONE | BRIDGE 42-209 | FILE | DRAWING C-6736-7

Disregard prints bearing earlier numbers → PREL. DRAWING No. P-6736 8 X 24

433

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE SIGNATURE TITLE

MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM
SCALE 1"= 50'
SCALE 1"= 20'
ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
7	CALIF.		195	424

U-006-2(6) F-006-2(5)

DIST.	COUNTY	ROUTE	SECTION	PROJECT NUMBER	TOTAL SHEETS
VI	Fre	99			

P.M. 16.9

15+60 BVC
El 300.45

900' V.C. R=411 ft/sta.

24+50
El 300.45

+5.00%

-5.00%

PROFILE GRADE

B.B. ℄

42'-0" 101'-0" 286'-0" 101'-0" 42'-0"

℄ E.B.

① Far
② Side

Near ①
Side ②

15'-6"

Approx. original ground elev's ℄

El. 282 El. 282 El. 282

Abut 1 Bent 2 Bent 3 Bent 4 Abut 5

Concrete Piles - Class II
Specified tip elev - Abut 1 & Bent 2 = 250.0
Bents 3, 4 & Abut 3 = 260.0
Estimated tip elev - Abut 1 & Bent 2 = 245.0
Bents 3, 4 & Abut 5 = 250.0

Datum Elev. 250

18 19 20 21 22

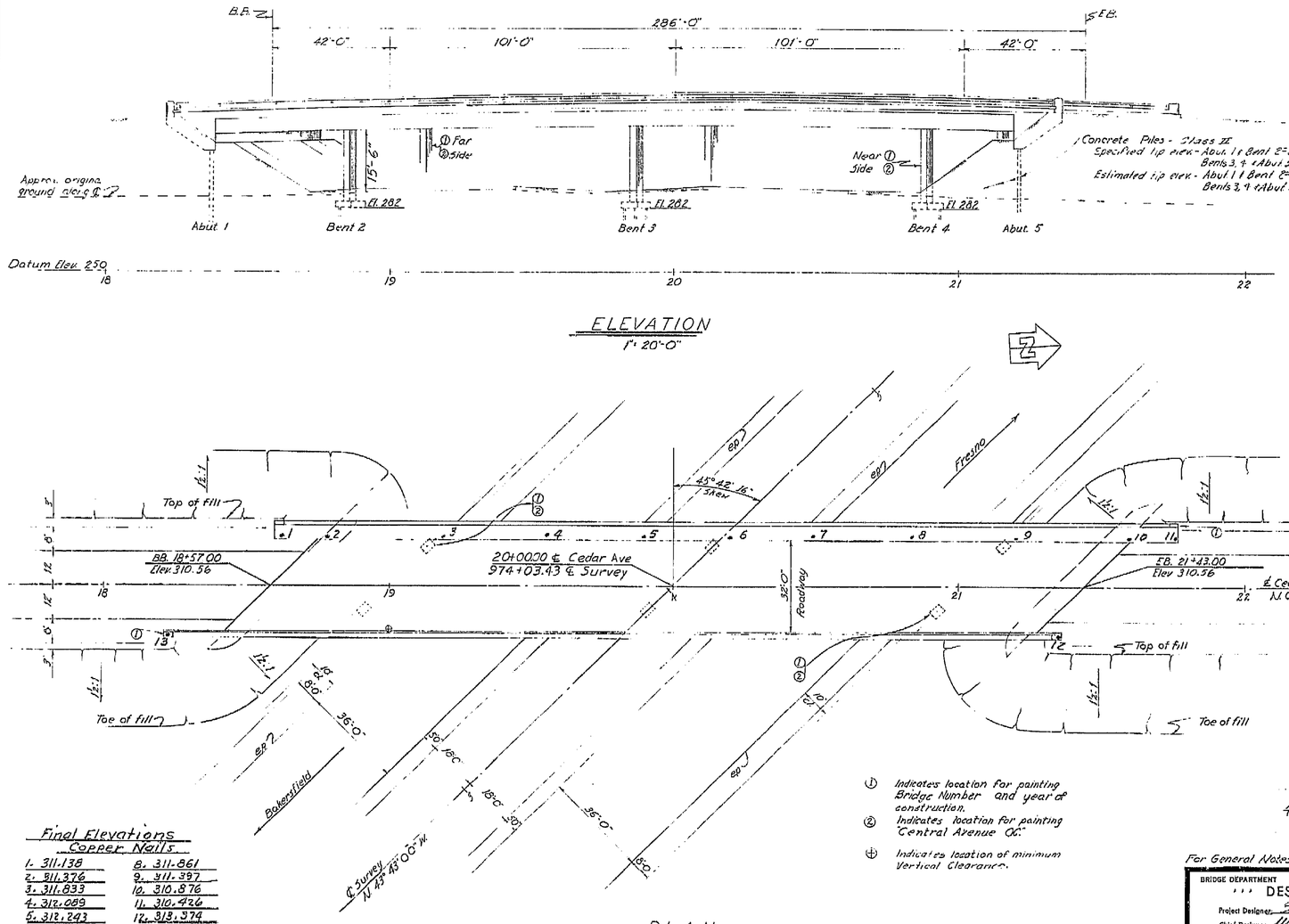
ELEVATION

1" = 20'-0"

APPROXIMATE QUANTITIES

*STRUCTURE EXCAVATION (BRIDGE)	350 C.Y.
*STRUCTURE BACKFILL (BRIDGE)	190 C.Y.
FURNISH CONCRETE PILING (CLASS II)	2,465 L.F.
DRIVING CONCRETE PILES	66 EA.
*CLASS "A" CONCRETE (BRIDGE)	960 C.Y.
*BAR REINFORCING STEEL (BRIDGE)	245,000 LBS.
BARRIER RAILING (TYPE 1)	325 L.F.
BARRIER RAILING (TYPE 5)	325 L.F.

*FINAL QUANTITIES



PLAN

1" = 20'-0"

① Indicates location for painting Bridge Number and year of construction.

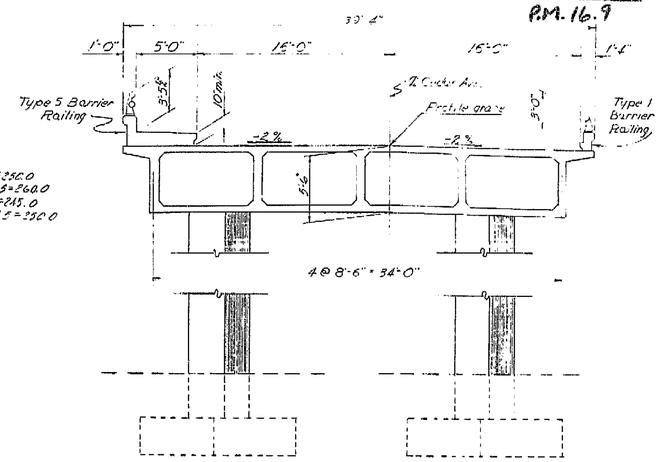
② Indicates location for painting "Central Avenue Oc."

⊕ Indicates location of minimum Vertical Clearance.

Live Loading: H20-S16-44 (Alternative)

Final Elevations
Copper Nails

1. 311.138	8. 311.861
2. 311.376	9. 311.397
3. 311.833	10. 310.876
4. 312.089	11. 310.426
5. 312.243	12. 318.374
6. 312.204	13. 312.638
7. 313.088	



TYPICAL SECTION

3/16" = 1'-0"

INDEX TO PLANS

SHEET NO.	TITLE
1	GENERAL PLAN
2	TOP AND UNDERSIDE OF DECK ELEVATION
3	FOUNDATION PLAN
4	ABUTMENT DETAILS
5	BENT DETAILS
6	TYPICAL SECTION & GIRDER LAYOUT
7	GIRDER REINFORCEMENT
8	STANDARD DETAILS NO. 1
9	BARRIER RAILING SHEET 1
10	BARRIER RAILING SHEET 2
11	OTHER STRUCTURE DETAILS
12	LOG OF TEST BORINGS
13	LIGHTING PLAN

4-8-63 J.W. Beck
REVISED DWG. DATE: 11-20-63

For General Notes see "Foundation Plan"

Note: Route Change (VI-Fre-99)
Contract # 62-6T13C3-F

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer: Emil L. Tellam
Chief Designer: Alfred Imbrecht

DESIGN	By Ben A. Ortega 2/60	Checked Nat A. Veni 3/60	
DETAILS	By Joseph Wm. Adams 1/60	Checked Alf. Imbrecht 3/60	
QUANTITIES	By	Checked	
SPECIFICATIONS	By	Plans and Specs. Compared	

Approval Recommended by: Engineer of Design — Civil Engr. License No. 9330

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CEDAR AVENUE OVERCROSSING

Located About 1.9 Miles South Of The South City Limit Of Fresno.

GENERAL PLAN

SCALE As Noted	BRIDGE 42-209	FILE	DRAWING C-6136-1 1

Disregard prints bearing earlier numbers →

PREL. DRAWING No. P-6736 | 1 | 2 | 3 | 72 | 18 | 427

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 6000 1062

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

ClibPDF - www.fastio.com

SCALE 1"=50' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"=50' SCALE 1"=20' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"=20'

California Department of Transportation
Division of Maintenance

Structure Maintenance and Investigations

BRIDGE

INSPECTION

RECORDS

INFORMATION

SYSTEM

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Records for “Confidential” bridges may only be released outside the Department of Transportation upon execution of a confidentiality agreement.

CONTRACT NO. 06-0C4104
TRANSFER DATE: 12-21-2007
FIELD CORRECTION DATE: 11-15-2007
CORRECTIONS TRANSFERED BY: REM
FIELD CORRECTIONS BY: Victor Diaz

AS BUILT CORRECTIONS

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	19.0/39.3	10R1	11

Matthew W. Lee 11/20/06
REGISTERED CIVIL ENGINEER

2-26-07
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MATTHEW W. LEE — No. C 56698 — Exp. 6-30-07 — CIVIL — STATE OF CALIFORNIA

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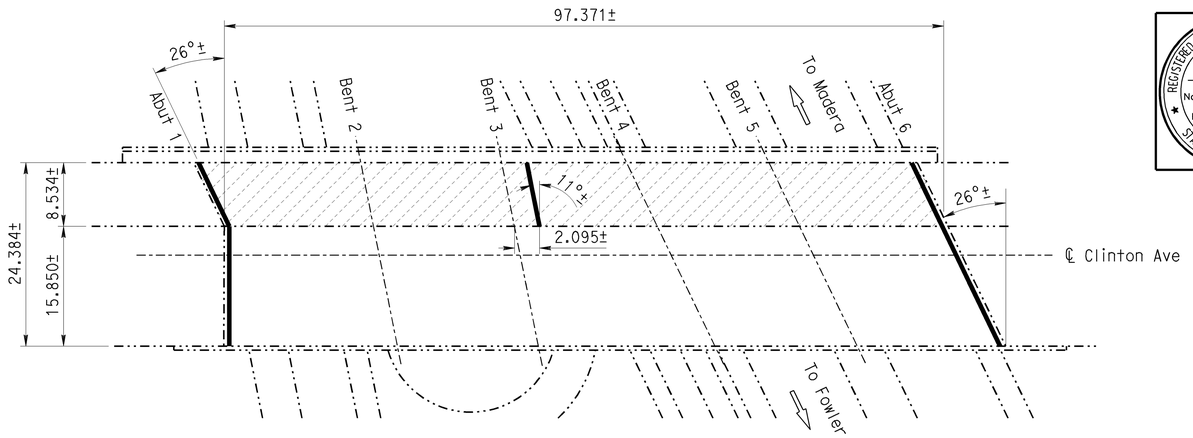
To get to the Caltrans web site, go to: http://www.dot.ca.gov

REGISTERED PROFESSIONAL ENGINEER — MICHAEL J LEE — No. C42447 — Exp. 3-31-08 — CIVIL — STATE OF CALIFORNIA

MARK	DATE	REVISION(S) DESCRIPTIONS	DES	CHK	DET
3	8-08-07	CHANGE SHEET NUMBERS	MJL	TP	DK
2	8-08-07	CHANGED NAME GENERAL PLAN NO. 1	MJL	TP	DK
1	8-08-07	ADDED SUPPLEMENTAL SHEET	MJL	TP	DK

REGISTERED CIVIL ENGINEER: Michael J. Lee DATE: 9-07-07

CONTRACT CHANGE ORDER NO. ____
SHEET ___ OF ___



STANDARD PLANS DATED JULY 2004

SHEET No.	TITLE
A10A	ACRONYMS AND ABBREVIATIONS (A-L)
A10B	ACRONYMS AND ABBREVIATIONS (M-Z)
RSP B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 50 mm)

INDEX TO PLANS

SHEET No.	TITLE
1	GENERAL PLAN NO. 1
2	GENERAL PLAN NO. 2
3	JOINT SEAL TABLE

NOTES: (APPLY TO ALL SHEETS)

Indicates existing.

THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

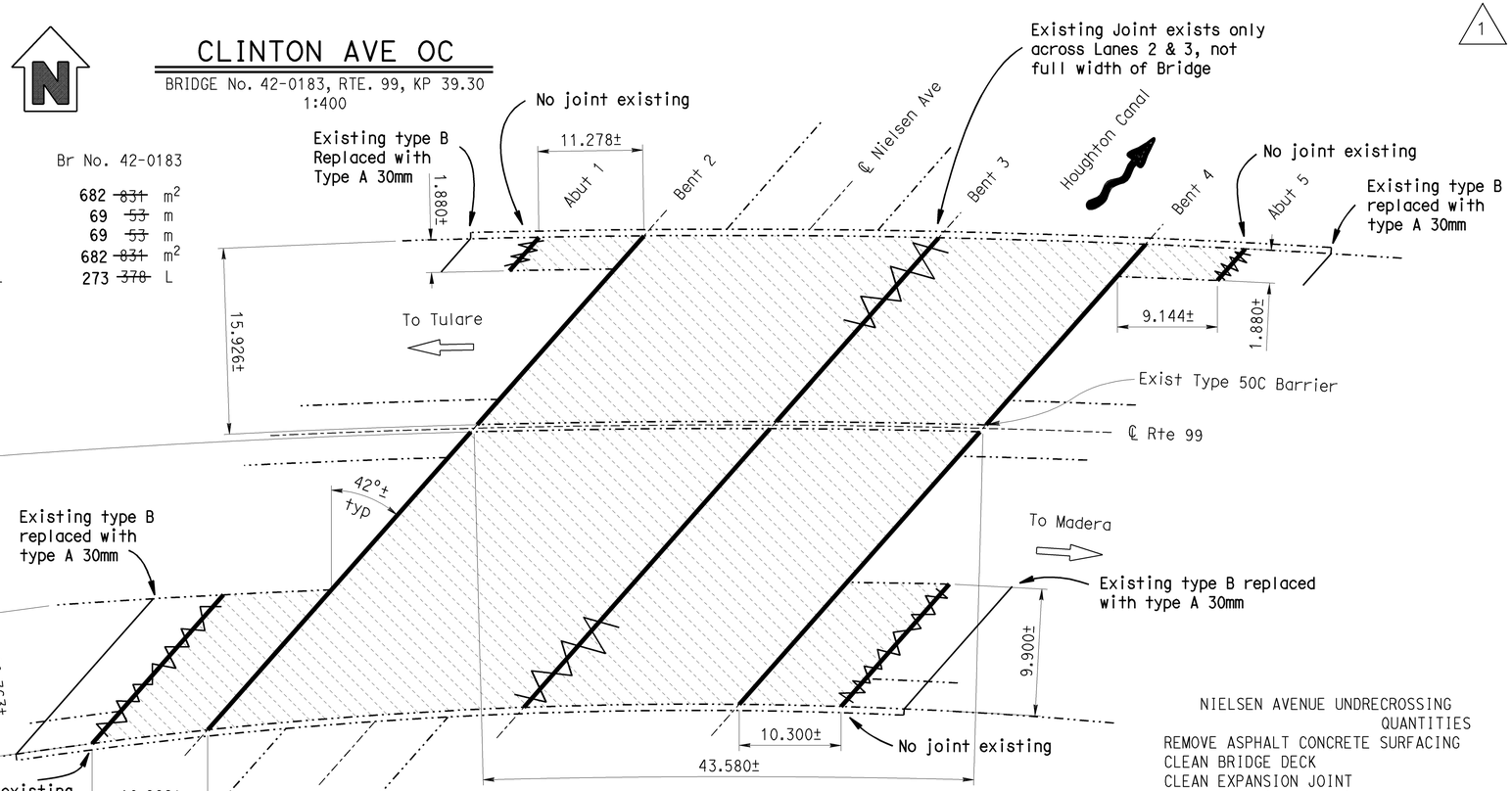
Indicates limits of clean and treat deck with high molecular weight methacrylate.

Indicates limits of remove existing 25mm± thick AC overlay, clean and treat deck with high molecular weight methacrylate.

Indicates limits of existing joint seal removal and placement of new joint seal.

CLINTON AVE OC

BRIDGE No. 42-0183, RTE. 99, KP 39.30
1:400



CLINTON AVENUE OVERCROSSING QUANTITIES	Br No. 42-0183	
CLEAN BRIDGE DECK	682 ~~831~~	m^2
CLEAN EXPANSION JOINT	69 ~~53~~	m
JOINT SEAL (MR 40 MM)	69 ~~53~~	m
TREAT BRIDGE DECK	682 ~~831~~	m^2
FURNISH BRIDGE DECK TREATMENT MATERIAL	273 ~~378~~	L

NIELSEN AVE UC

BRIDGE No. 42-0188, ROUTE 99, KP 35.63
1:250

NIELSEN AVENUE UNDRECROSSING QUANTITIES	Br No. 42-0188	
REMOVE ASPHALT CONCRETE SURFACING	2 123	m^2
CLEAN BRIDGE DECK	2 123	m^2
CLEAN EXPANSION JOINT	129 ~~207~~	m
JOINT SEAL (MR 30 mm)	129 ~~172~~	m
not used ~~JOINT SEAL (MR 15 mm)~~	37	m
TREAT BRIDGE DECK	2 123	m^2
FURNISH BRIDGE DECK TREATMENT MATERIAL	908 ~~965~~	L

Caltrans Metric	Michael J. Lee DESIGN ENGINEER — STRUCTURE MAINTENANCE DESIGN GENERAL PLAN & DETAIL SHEET (METRIC) (REV. 10/2/05)	DESIGN	BY Matt Lee	CHECKED Tim Powell	
		DETAILS	BY Seth Evans	CHECKED Tim Powell	
		QUANTITIES	BY Matt Lee	CHECKED Tim Powell	
		LAYOUT	BY Seth Evans	CHECKED Matt Lee	
		SPECIFICATIONS	BY Karla Meier	PLANS AND SPECS COMPARED Karla Meier	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

CU 06244
EA 0C4101

BRIDGE NO. Varies
KILOMETER POST Various

ROUTE 99 BRIDGES (TREAT DECK)
GENERAL PLAN NO. 1

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): ~~4-11-06~~ ~~9-27-06~~ 12-7-06

SHEET 1 OF 3

USERNAME => bmiller DATE PLOTTED => 21-DEC-2007 TIME PLOTTED => 09:59
FILE => 06-0c4101_01gp1.dgn

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	19.0/39.3	11R1	11

REGISTERED CIVIL ENGINEER — 11/20/06

2-26-07
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MATTHEW W. LEE — No. C 56698 — Exp. 6-30-07 — CIVIL — STATE OF CALIFORNIA

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To get to the Caltrans web site, go to: http://www.dot.ca.gov

CONTRACT NO: 06-0C4104
TRANSFER DATE: 12-21-2007
FIELD CORRECTION DATE: 11-13-2007
CORRECTIONS TRANSFERED BY: BEM
FIELD CORRECTIONS BY: Victor Diaz

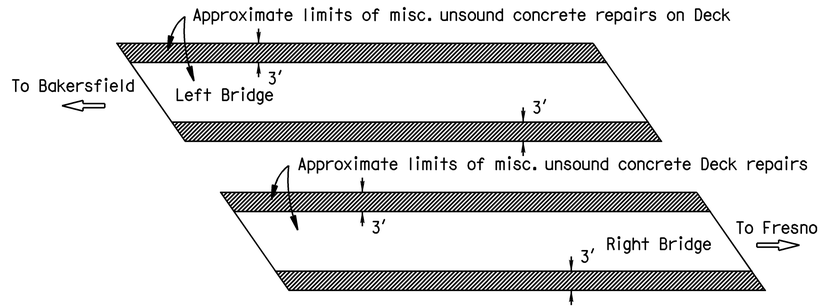
AS BUILT CORRECTIONS

DECK RESURFACING WORK DESCRIPTION

QUANTITIES

ROUTE	KP	BRIDGE NAME	BRIDGE NUMBER	LENGTH	ROADWAY WIDTH	SHOULDER WIDTH		WORK REQUIRED			CLEAN BRIDGE DECK	TREAT BRIDGE DECK	FURNISH BRIDGE DECK TREATMENT MATERIAL (LOW ODOR)	REMOVE EPOXY GRIT SURFACING
						LEFT	RIGHT	REPLACE JOINT SEALS	REMOVE OVERLAY	CLEAN AND TREAT BRIDGE DECK WITH METHACRYLATE				
				(m)	(m)	(m)	(m)				(m^2)	(m^2)	(L)	(m^2)
99	19.05	Adams Ave OC	42 0203	99.092	9.754	1.219	1.219	YES	NO	~~YES~~ YES	936 ~~966~~	936 ~~966~~	414 ~~435~~	N/A
99	25.52	Central Ave OC	42 0207	84.734	9.756	1.219	1.219	NO	NO	YES	826	826	376	N/A
99	26.63	South Calwa OH	42 0208L	78.029	14.935	2.438	1.524	YES	YES	YES	1165	1165	~~530~~ 531	1165
99	26.63	South Calwa OH	42 0208R	66.446	14.935	2.438	1.524	YES	YES	YES	992	992	~~451~~ 450	992
99	35.61	Clinton Ave OC	42 0183	See General Plan				YES	NO	YES		See General Plan		
99	39.30	Nielsen Ave UC	42 0188	See General Plan				YES	YES	YES		See General Plan		

1 → As per CCO # 3

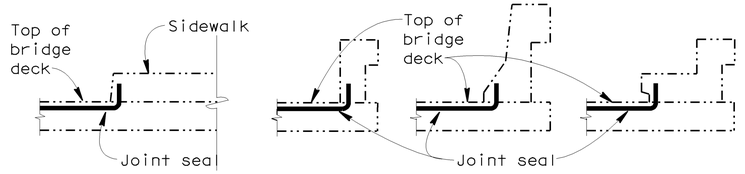


SOUTH CALWA OH

BR 42-0208L/R
NO SCALE

JOINT SEAL TABLE

BRIDGE NUMBER	LOCATION		MINIMUM "MR" (mm)	APPROXIMATE LENGTH (m)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (mm)
42 0203	Abut 1	BW	40	13.1	NO	229
	Abut 5	BW	40	13.1	NO	229
42 0208L	Abut 1	PN	30	21.7	NO	305
	Abut 5	PN	30	21.7	NO	305
42 0208R	Abut 1	PN	30	21.7	NO	305
	Abut 4	PN	30	21.7	NO	305
42 0183	Abut 1	BW	40	25.7	NO	229
	Span 3	H	40	8.8	NO	229
	Abut 3	BW	40	27.5	NO	229
42 0188	Abut 1	BW	15	~~17.9~~ 0	NO	356
	Bent 2	BW	30	56.8	NO	~~1219~~ 305
	Bent 3	B	30	~~56.8~~ 19.4	YES	203
	Bent 4	BW	30	56.8	NO	~~1219~~ 305
	Abut 5	BW	15	~~18.6~~ 0	NO	~~396~~ 305

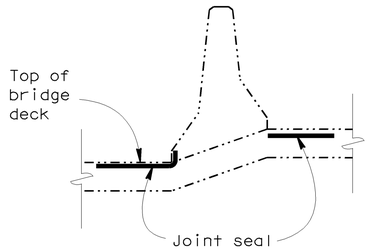


SIDEWALK — BARRIER RAIL

JOINT SEAL AT LOW SIDE OF DECK

Notes: Details shown for illustration purposes only.

For use only where deck joint matches the sidewalk, curb or barrier rail joint.



At Bridge No. 42-0188

LEGEND:
BW = Abutment backwall
PN = Paving notch
H = Hinge
B = Bent

REGISTERED PROFESSIONAL ENGINEER — MICHAEL J LEE — No. C42447 — Exp. 3-31-08 — CIVIL — STATE OF CALIFORNIA

MARK	DATE	REVISION(S) DESCRIPTIONS	DES	CHK	DET
1	8-23-07	CHANGE QUANTITIES ADAM AVE TABLE	MJL	TP	DK

REGISTERED CIVIL ENGINEER: Michael J Lee — DATE: 9-07-07

Caltrans Metric

	BY	CHECKED
DESIGN	Matt Lee	Tim Powell
DETAILS	Seth Evans	Tim Powell
QUANTITIES	Matt Lee	Tim Powell

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

CU 06244
EA 0C4101

BRIDGE NO. Varies
KILOMETER POST Various

ROUTE 99 BRIDGES (TREAT DECK)

JOINT SEAL TABLE

STRUCTURE MAINTENANCE DESIGN
GENERAL PLAN & DETAIL SHEET
(METRIC) (REV. 10/2/05)

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): ~~4-11-06~~ ~~9-27-06~~ 12-7-06

SHEET 3 OF 3

FILE => 06-0c4101_03gp3.dgn

USERNAME => bmiller DATE PLOTTED => 21-DEC-2007 TIME PLOTTED => 10:38

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	19.0/39.3	10S	11

8-07-07
REGISTERED CIVIL ENGINEER

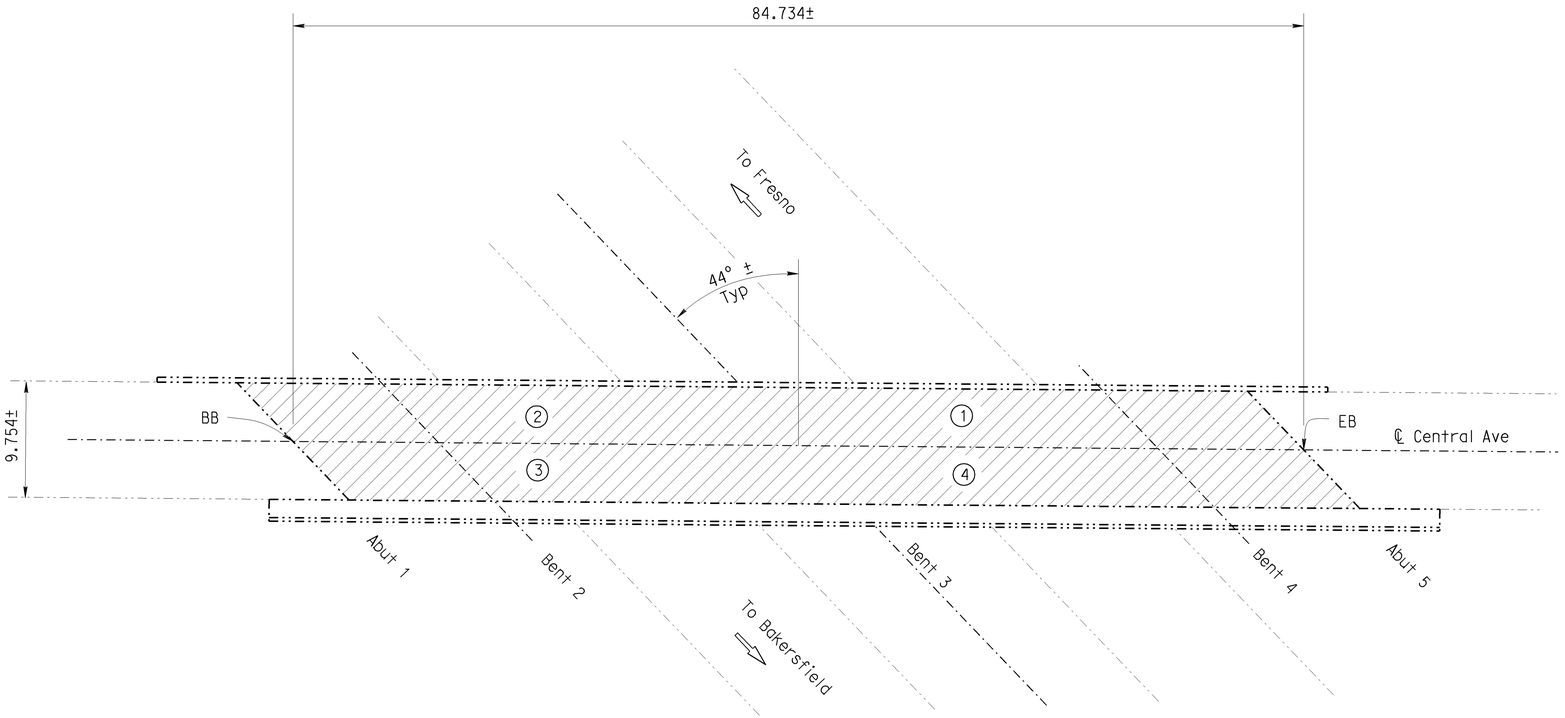
REGISTERED PROFESSIONAL ENGINEER
MATTHEW W. LEE
No. C 56698
Exp. 6-30-07
CIVIL
STATE OF CALIFORNIA

PLANS APPROVAL DATE

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AS BUILT CORRECTIONS
CORRECTIONS TRANSFERED BY: BEM
FIELD CORRECTIONS BY: Victor Diaz
TRANSFER DATE: 12-21-2007
FIELD CORRECTION DATE: 11-15-2007
CONTRACT NO: 06-0C4104



CENTRAL AVENUE OVERCROSSING

BRIDGE NO. 42-0207, RTE. 99, KP 25.52
1:250

NOTES: (APPLY TO THIS SHEET ONLY)

Indicates limits of clean and treat existing bridge deck as designated in the "DECK TREATMENT TABLE".

Contractor shall take 3 ea 76 mm ø x 127 mm deep cores in each quardrant at locations designated by the Engineer. Fill cored holes with rapid-set concrete patch.

DECK TREATMENT TABLE

LOCATION	MANUFACTURER	MATERIAL NAME
①	UNITEX	BRIDGE SEAL CA
②	LIQUID CONCRETE	URE-KOTE R-60
③	ChemCo Systems	CCS Coating, Epoxy Healer Sealer
④	Any Manufacturer that meets the Caltrans Deck Treatment specification	Caltrans specification High Molecular Weight Methacrylate

CONTRACT CHANGE ORDER NO. 4
SHEET 1 OF 1

SUPPLEMENTAL SHEET

Caltrans Metric

Michael J. Lee
DESIGN ENGINEER
STRUCTURE MAINTENANCE DESIGN GENERAL PLAN & DETAIL SHEET (METRIC) (REV. 10/2/05)

DESIGN	BY Matt Lee	CHECKED Tim Powell
DETAILS	BY D. kish	CHECKED Tim Powell
QUANTITIES	BY Matt Lee	CHECKED Tim Powell
LAYOUT	BY D. kish	CHECKED Matt Lee
SPECIFICATIONS	BY Karla Meier	PLANS AND SPECS COMPARED Karla Meier

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

CU 06244
EA 0C4101

BRIDGE NO. Varies
KILOMETER POST Various

ROUTE 99 BRIDGES (TREAT DECK)
GENERAL PLAN NO. 2

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 8-07-07

SHEET 2 OF 3

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USERNAME => bmiller DATE PLOTTED => 21-DEC-2007 TIME PLOTTED => 09:59

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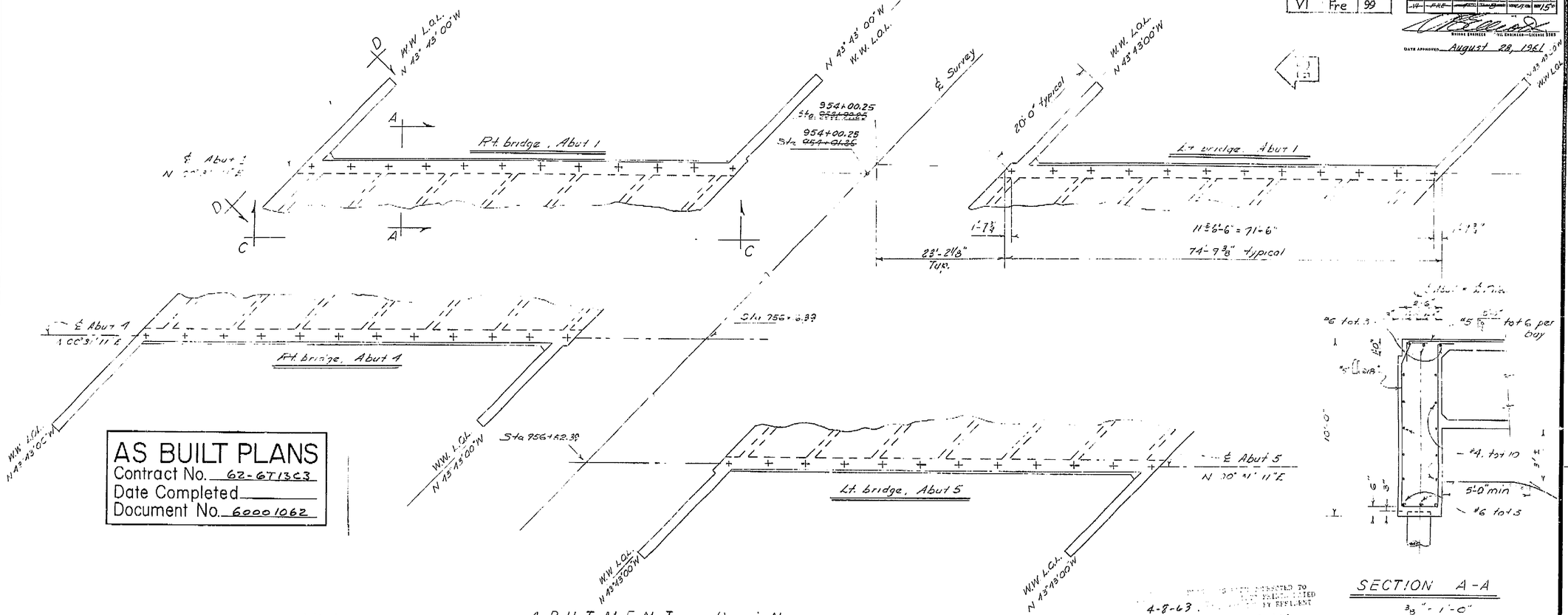
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7	CALIF.		183	424

VI Fre 99

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
12	ORA.			178	1515

BRIDGE ENGINEER — CIVIL ENGINEER—License 5585

DATE APPROVED August 28, 1961

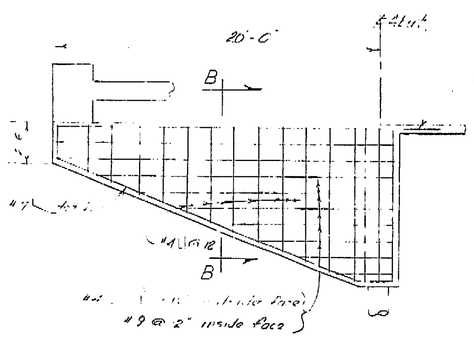


AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

4-8-63. SUBJECT TO FIELD CORRECTION BY RESIDENT

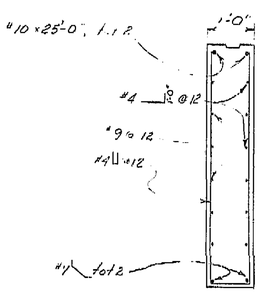
SECTION A-A
3/8" = 1'-0"

ABUTMENT PLAN
1/8" = 1'-0"

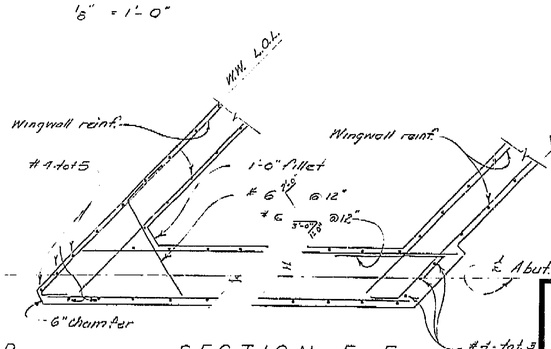


ELEVATION D-D
1/4" = 1'-0"

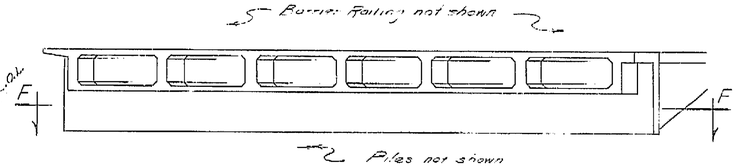
Abut 1, Ft. bridge, Lt. WW shown, other abutments similar.



SECT. B-B
5/4" = 1'-0"



SECTION F-F
3/8" = 1'-0"



ELEVATION C-C
1/8" = 1'-0"

Elevation CC is typical for all abutm...

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer
Chief Designer

DESIGN	By L.O. Ricci	Checked ED Berry	
DETAILS	By T. Suyetsugu	Checked ED Berry	
QUANTITIES	By Quakes, Inc.	Checked DP Pollock	
SPECIFICATIONS	By	Plans and Spec. Completed	

Approval Recommended by
Engineer of Design
Civil Engr. License No. 8439

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH CALWA OVERHEAD

ABUTMENT DETAILS

SCALE As Noted | BRIDGE 12-208 R/L | FILE | DRAWING C-6135-4

Disregard prints bearing earlier numbers → PREL. DRAWING No. P- 673 - 4-23

183

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 4-13-72 SIGNATURE ____ TITLE ____

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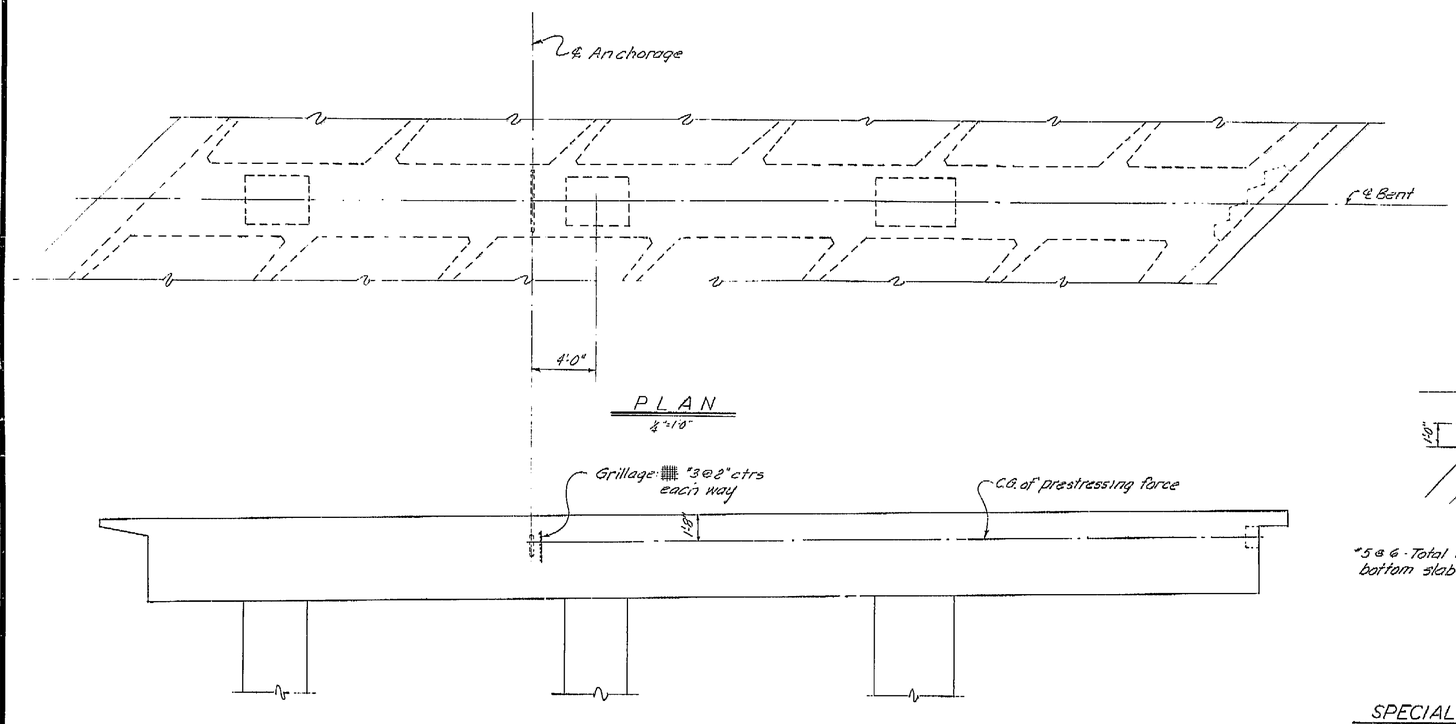
SCALE 1"= 50' 0 200 MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM 400 600 SCALE 1"= 50' 0 SCALE 1"= 20' 100 MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM 200 SCALE 1"= 20' 300

U-006-2(6) F-006-2(5)

FED. ROAD DIV. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.		186	424

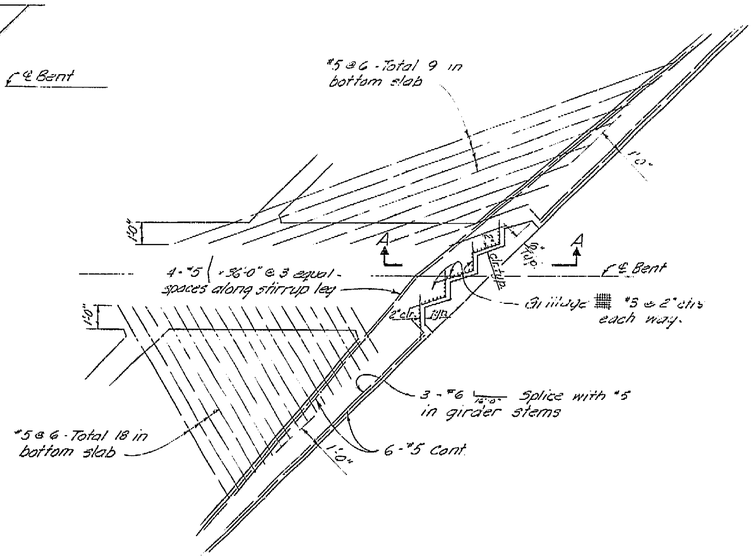
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	99	B		15

DATE APPROVED August 20, 1961



PLAN
¼"=1'-0"

ELEVATION
¼"=1'-0"



SPECIAL REINFORCEMENT AT RIGHT EXTERIOR GIRDER
⅜"=1'-0"

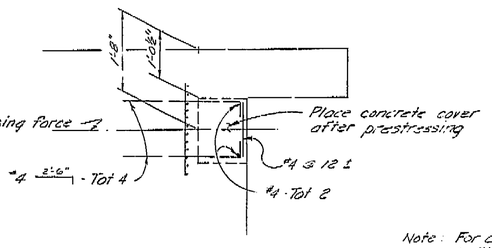
PRESTRESSING NOTES

Working Force = 785,000 lbs. (The force remaining after all losses including those due to creep and shrinkage of concrete and creep of steel have occured).
The loss in stress in the prestressing steel due to shrinkage and creep and sequence stressing shall be assumed to be 24,000 p.s.i..
In addition to the 24,000 p.s.i. loss noted above, Provision shall be made for losses due to friction, anchorage take up and other losses peculiar to the system of prestressing used.

Concrete : f'c = 3,000 p.s.i. minimum ultimate at 28 days
f'ci = 3,000 p.s.i @ time of stressing

Prestressing Steel : See "Special Provisions."

Stressing Procedure: Approximately one-third of the prestressing force shall be applied before the top slab is placed by stressing units nearest the center of the cap. After the top slab is in place, these units shall be restressed.



SECTION A - A
¾"=1'-0"

Note: For details not shown see "Bent 3 Left Bridge - Details I" sheet.

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

4-8-63 DATE: 11-63

BRIDGE DEPARTMENT			
DESIGN SECTION 2			
Project Designer: E. L. Tyler			
Chief Designer: W. J. Mastovich			
DESIGN	By E.D. Berry 9/60	Checked	
DETAILS	By K.C. Blechinger 9/60	Checked	
QUANTITIES	By	Checked D.P. Pollock 11/60	
SPECIFICATIONS	By	Plans and Specs. Compared	
Approved Recommended by:		Civil Engr. License No.	Date

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH CALWA OVERHEAD

BENT 3 LEFT BRIDGE-DETAILS II

SCALE: AS NOTED | BRIDGE 42-208R | FILE | DRAWING C-6733-7

Disregard prints bearing earlier numbers → PREL. DRAWING NO. P-6735 | 75-33

186

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE ____ SIGNATURE ____ TITLE ____

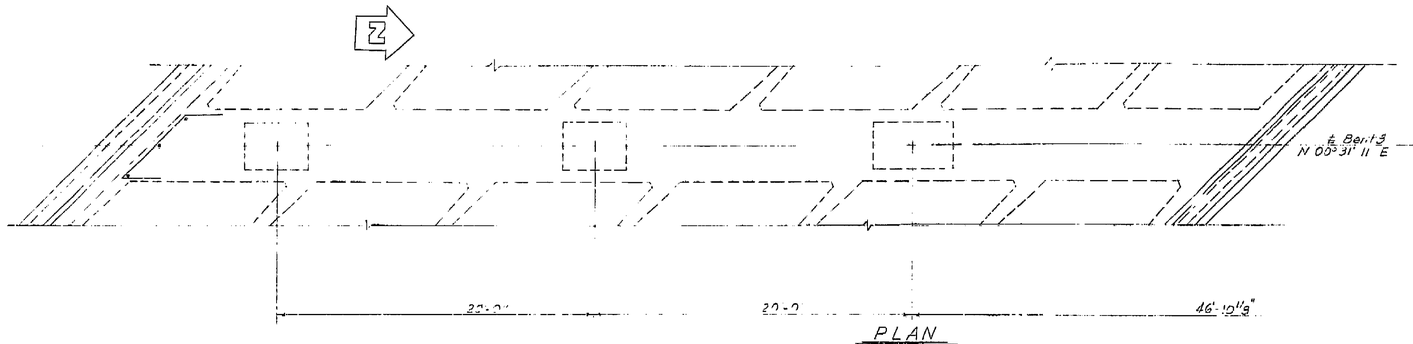
MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"= 50'
SCALE 1"= 20'
ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.		185	424

U-006-2(6) F-006-2(5)

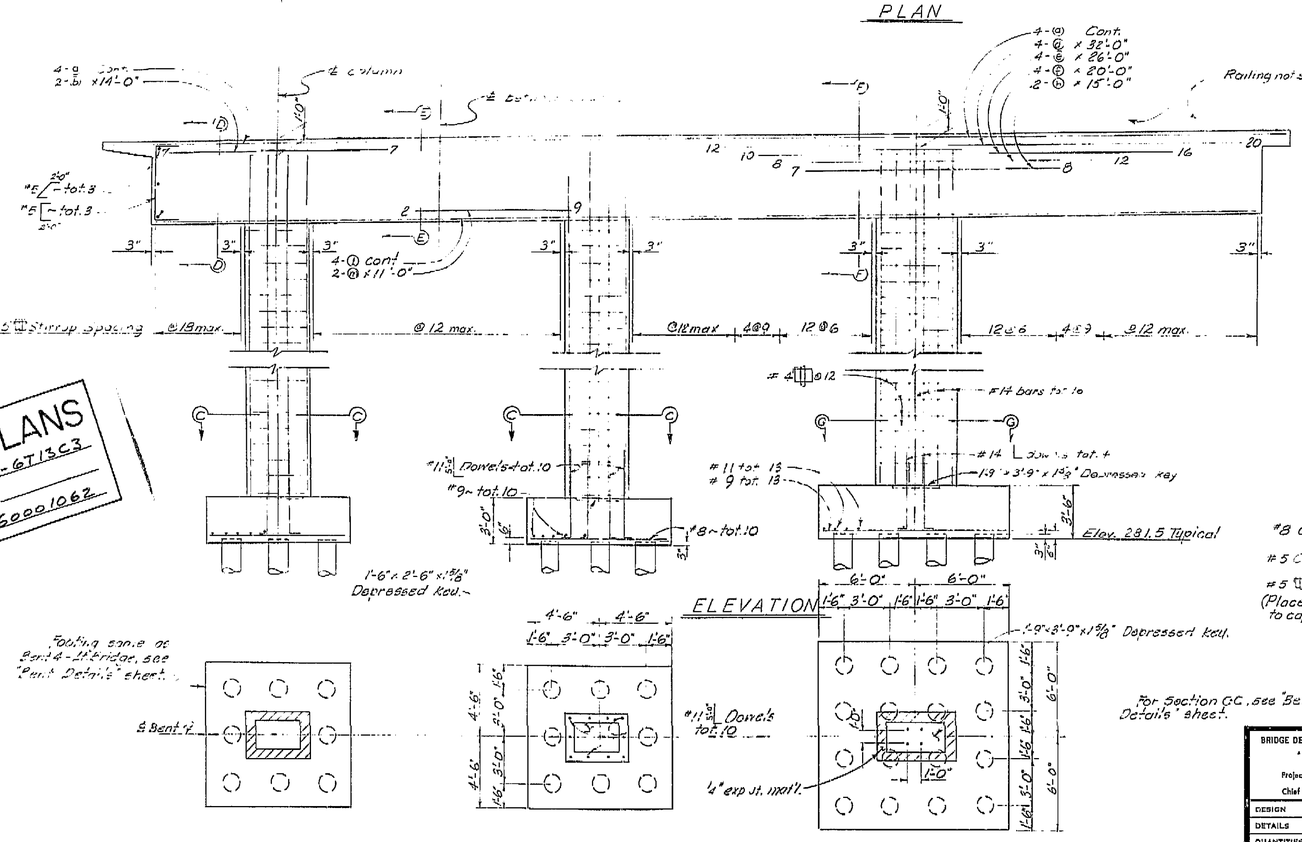
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VI	Fre	99			

Date Approved August 28, 1961



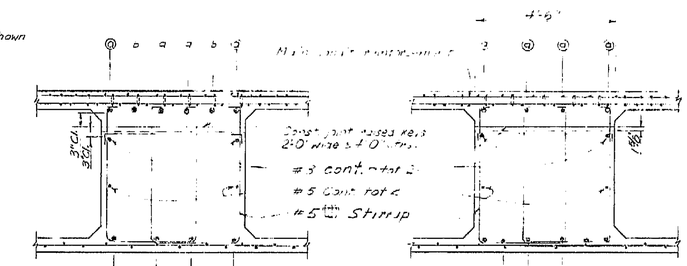
PLAN

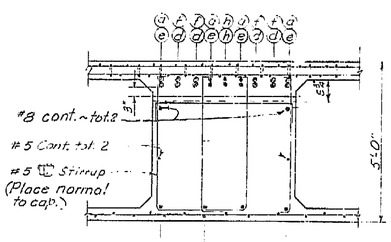
NOTES
For legend and general notes see Bent Details sheet
All dims are ℄ of brgs. unless noted otherwise
℄ slopes are ⊥ to ℄ brgs. Pedestal slopes are ⊥ to ℄ Bent

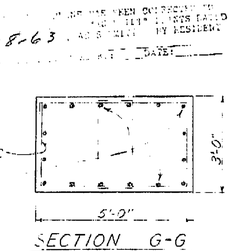


ELEVATION

FOOTING PLAN







4-8-63 DATE

AS BUILT PLANS
Contract No. 62-671303
Date Completed
Document No. 60001062

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer
Chief Designer W. J. Quick

DESIGN	By E.D. Berry 7/60	Checked J. F. Hallett 11/60
DETAILS	By L. W. Krug 5/60	Checked W. J. Quick 11/60
QUANTITIES	By Ray Tek 7/60	Checked D. P. Pollock 7/60
SPECIFICATIONS	By	Plans and Revs. Completed

Approval Recommended by J. F. Hallett Engineer of Design
Civil Engr. License No. 8466

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH CALWA OVERHEAD

BENT 3 LEFT BRIDGE-DETAILS I

SCALE	BRIDGE	FILE	DRAWING
1" = 1'-0" or as noted	42-208 R2		C-6735-6

Disregard prints bearing earlier numbers

PREL. DRAWING No. P- 6735 | 5 | 19 | 25 | 32 | 6/3

417

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-12-72 SIGNATURE [illegible] TITLE [illegible]

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"= 50' 0 200 400 600
SCALE 1"= 50' 0 300
SCALE 1"= 20' 0 50 100
MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"= 20' 0 50 100 200 300
ClibPDF - www.fastio.com

FED. ROAD SYS. No.	STATE	F. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
7	CALIF.		184	424

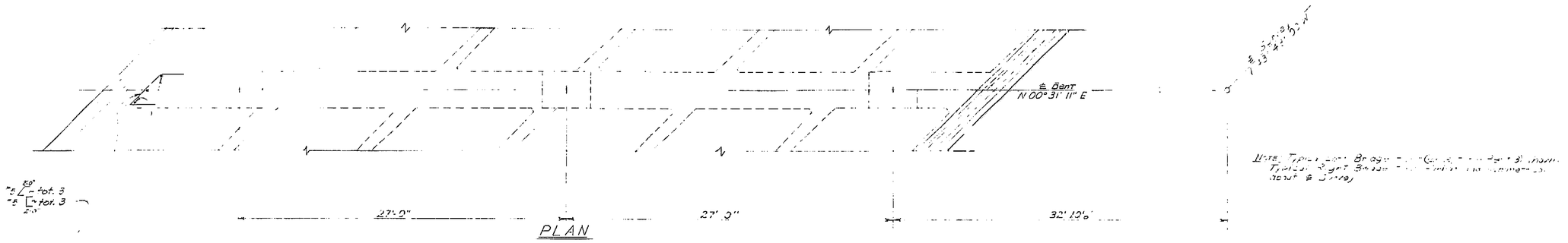
11-006-2(6) F-006-2(5)

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
11	Fre	99			15

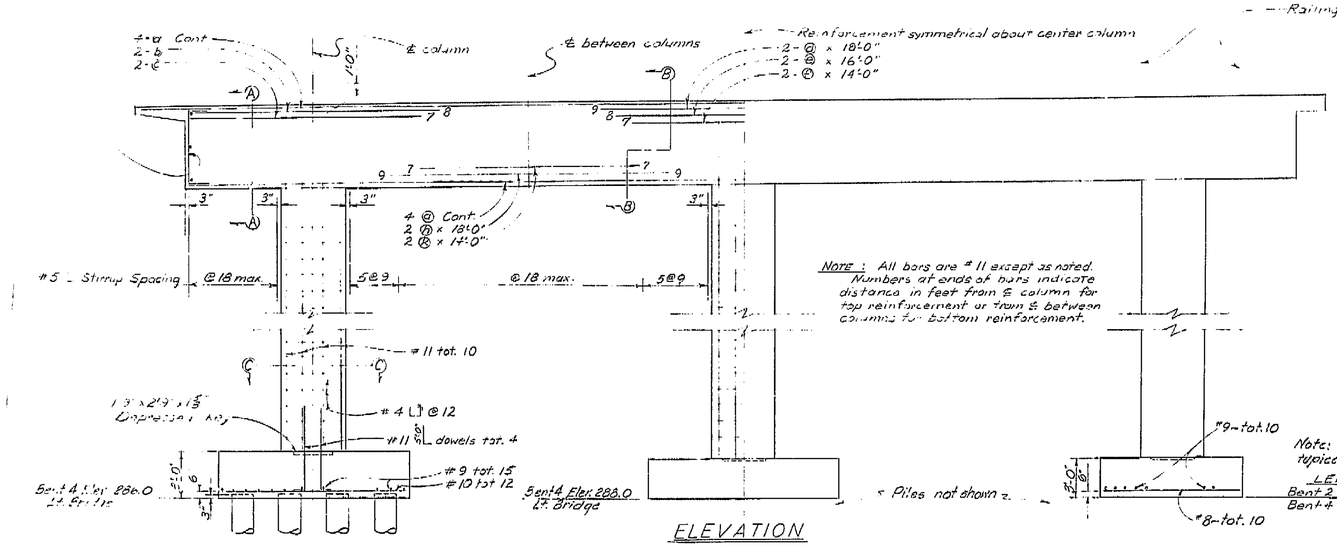
RIDGE ENGINEER CIVIL ENGINEER—LICENSE 5382

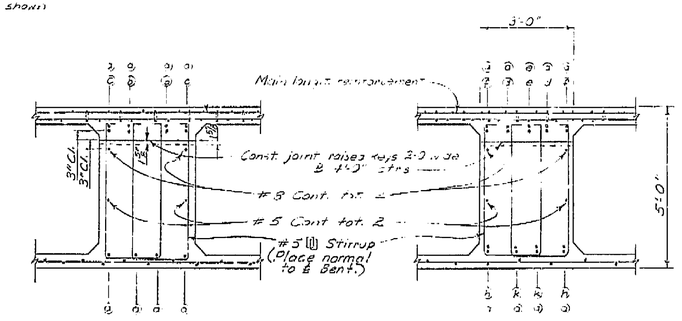
DATE APPROVED August 28, 1961

AS BUILT PLANS
Contract No. 62-671303
Date Completed
Document No. 6000 1062

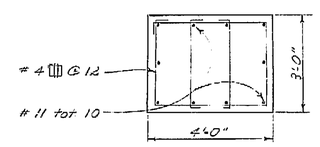


Note: Typical Left Bridge ... Right Bridge ... about ℄ Bent.





For Bent 3 ... see Sht. 3 ... Left Bridge Details ...



BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer E. C. Tatum
Chief Designer W. H. Quintrall

DESIGN	By L. D. Ricci 4-60	Checked E. D. Berry 4/60	
DETAILS	By L. D. Ricci 4-60	Checked E. D. Berry 4/60	
QUANTITIES	By [illegible] 4/60	Checked D. P. Pollock 4/60	
SPECIFICATIONS	By	Plans and Rems. Compared	

Approval Recommended by R. L. Hutchinson Engineer of Design Civil Engr. License No. 8439

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH CALWA OVERHEAD

BENT DETAILS

SCALE	BRIDGE	FILE	DRAWING
1" = 1'-0" & as noted	42-208 R		C-6735-5

Disregard prints bearing earlier numbers → PREL. DRAWING No. P- 6735 5 24 3/61

416

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE ... SIGNATURE ... TITLE ...

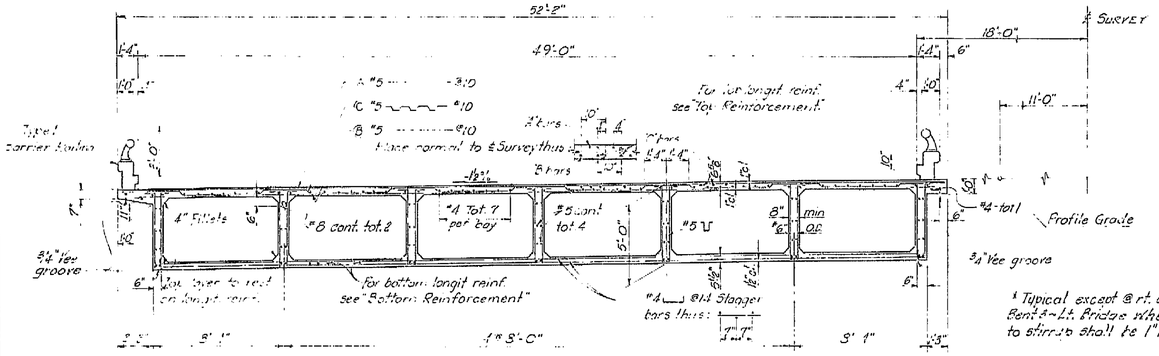
ClibPDF - www.fastio.com
MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"= 50' 0 200 400 600
SCALE 1"= 20' 0 100 200 300

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			187	424

V-006-2(6) F-006-2(5)

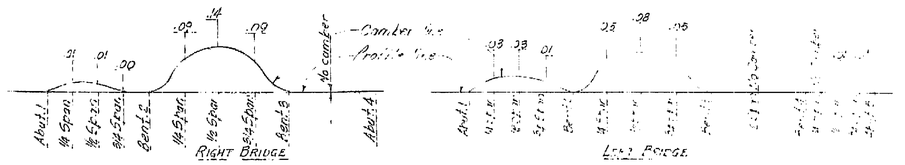
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	99			

DATE APPROVED August 28, 1961



TYPICAL SECTION

1/4" = 1'-0"



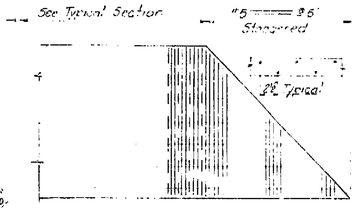
CAMBER DIAGRAM

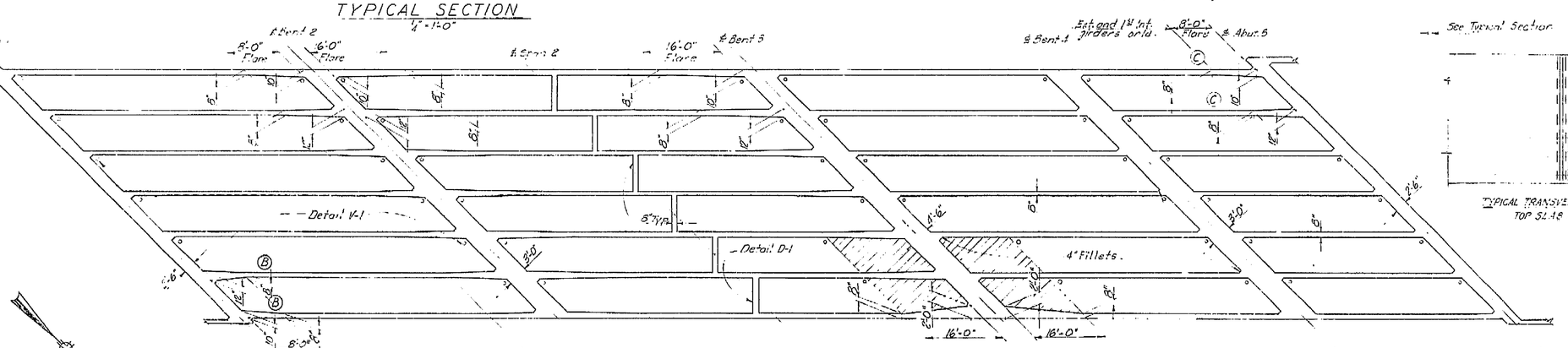
No Scale

(Total girder deflection due to dead loads)

Note: The total deflection will be reached about 4 years after falsework removal. For values at time of falsework removal, divide those shown by 4. The amount of camber for construction will be determined by the Engineer.

* Typical except @ rt. exterior girder Bent 2 - Lt. Bridge where cover to stirrups shall be 1" min and 4" max.

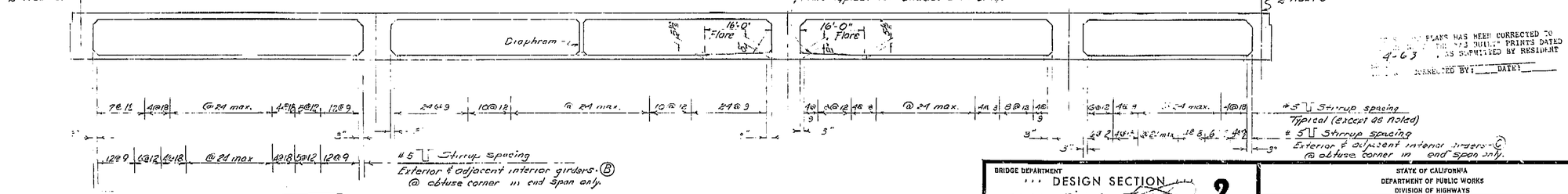




LEFT BRIDGE GIRDER LAYOUT

No scale

, Flare typical for stacked area only.



LEFT BRIDGE LONGITUDINAL SECTION

No scale

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

187

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer: Earl F. Taylor
Chief Designer: W.O. Hardwick

DESIGN	W.O. Rice 2-60	Checked	E.D. Berry 10-60
DETAILS	[illegible]	Checked	E.D. Berry 10-60
QUANTITIES	[illegible]	Checked	D.P. Pollock 11-60
SPECIFICATIONS	By		Plans and Revns. Prepared

Approval Recommended by: [signature] Engineer of Design
Chief and Principal Asst. Engineer No. 6838

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH CALWA OVERHEAD

TYPICAL SECTION & GIRDER LAYOUT I

SCALE	BRIDGE	FILE	DRAWING
As Noted	42-208 R/L		C-6735-B

Disregard prints bearing earlier numbers → PREL. DRAWING No. P-6734 | 7 | 26 | 34 | 37

419

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

ClibPDF - www.fastfo.com
SCALE 1"= 50' 0 100 200 MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM 300 400 500 600 SCALE 1"= 50' 0 700 SCALE 1"= 20' 50 100 MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM 200 SCALE 1"= 20' 50 300

U-006-2(6) F-006-2(5)

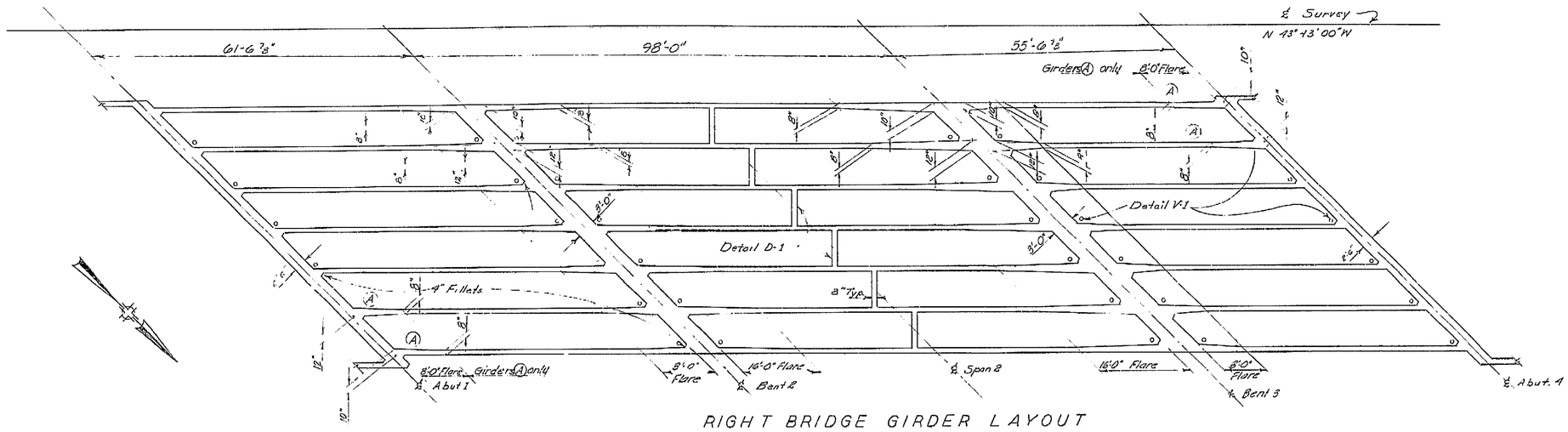
FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
7	CALIF.		188	424

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
11	Fre	99			415

VI | Fre | 99

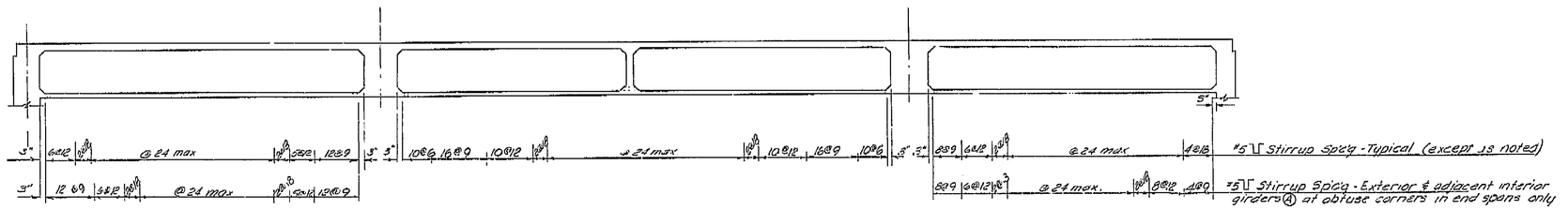
BRIDGE ENGINEER — CIVIL ENGINEER — LICENSE 8335

DATE APPROVED August 28, 1961



RIGHT BRIDGE GIRDER LAYOUT

No Scale



RIGHT BRIDGE LONGITUDINAL SECTION

No Scale

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

188

AS BUILT PLANS HAVE BEEN CORRECTED TO REFLECT FIELD CHANGES AS SUBMITTED BY RESIDENT ENGINEER DATED ____ DATE ____

BRIDGE DEPARTMENT			
DESIGN SECTION 2			
Project Designer: Chief Bridge Engineer			
Chief Designer: W. J. Shattock			
DESIGN	By E.D. Berry 9/60	Checked A.A. Anderson 11/60	
DETAILS	By T. Sugetsugu 9/60	Checked C.C. Tolman 11/60	
QUANTITIES	By Kay Ray 11/60	Checked B.P. Pollock 11/60	
SPECIFICATIONS	By	Plans and Specs. Completed	
Approval Recommended by: Engineer of Design		Civil Engr. License No. 8439	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH CALWA OVERHEAD

GIRDER LAYOUT II

SCALE None	BRIDGE 48-208 R	FILE	DRAWING C-6735-9

Disregard prints bearing earlier numbers → PREL. DRAWING No. P- 6735 | 32 | 17 | 27 | 36 | 38 | 420

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-12-73 SIGNATURE _____ TITLE _____

MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM
SCALE 1"= 50' SCALE 1"= 20'

ClibPDF - www.fastio.com

FED. ROAD SYS. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
7	CAL.			194	424

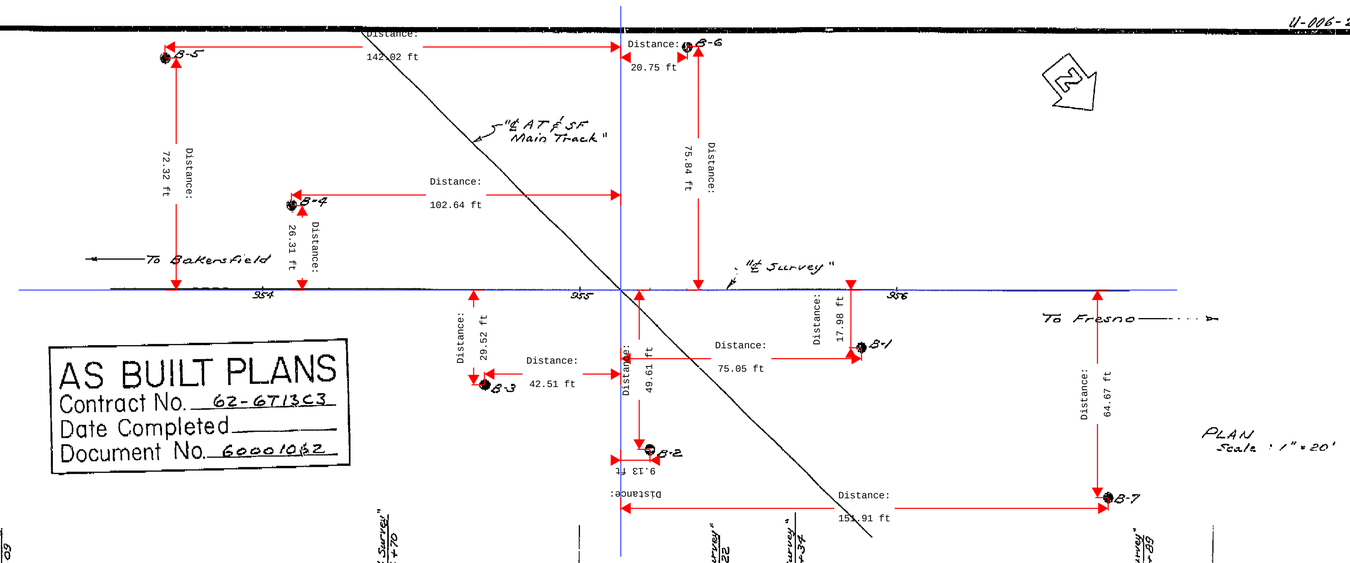
U-006-2(6) F-006-2(5)

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	Fre	41	Conn 180	99	154

DATE APPROVED August 28, 1961

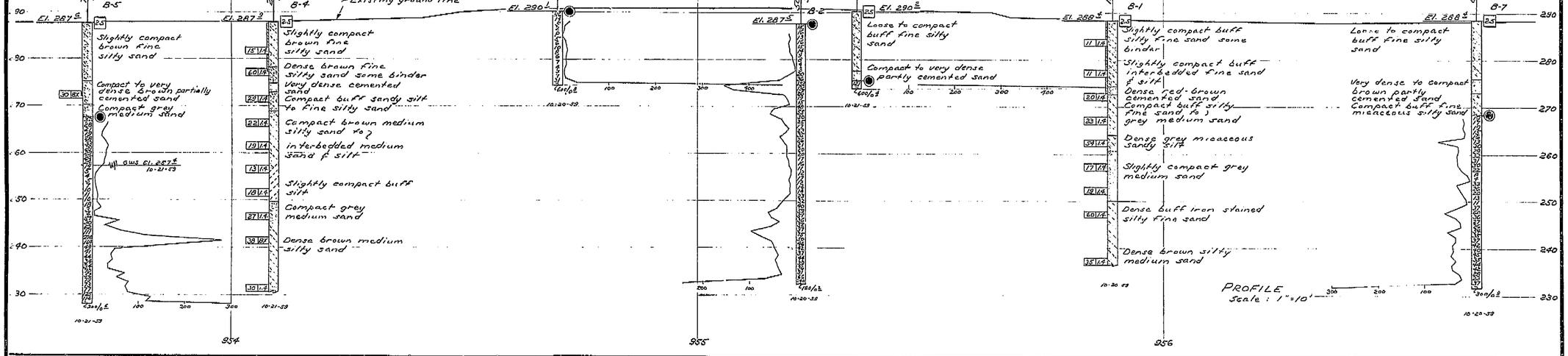
AS BUILT PLANS
Contract No. 62-671363
Date Completed
Document No. 6000162

BM #93.3 RR spike in TP S/L
185' Lt "E Survey" 953+50
Elev. 289.96



PLAN
Scale : 1" = 20'

BRIDGE DEPARTMENT



PROFILE
Scale : 1" = 10'

FIELD STUDY	H. Ellsaesser 10-53
DRAWN	H. M. Hearty 7-8-60
CHECKED	H. R. Hager 7-20

Approval Recommended by: Gates & Gayhart Consulting Engineers — Maurice K. Gates Jr. Civil Engineer — License No. 5085

CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS

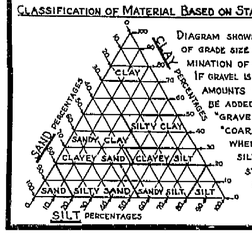


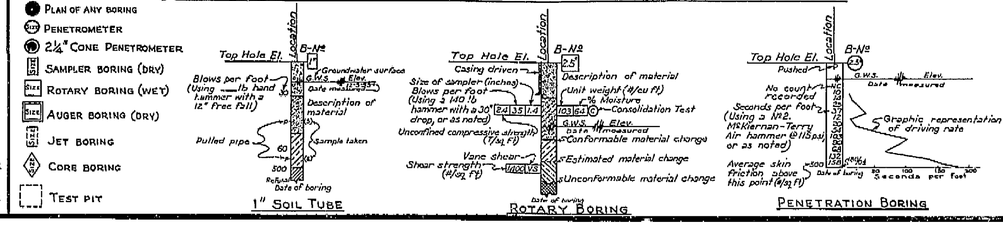
DIAGRAM SHOWING THE BASIS FOR ESTIMATES OF GRADE SIZE DISTRIBUTION USED IN DETERMINATION OF CLASS NAMES.
IF GRAVEL IS PRESENT IN APPRECIABLE AMOUNTS THE TERM "GRAVELLY" MAY BE ADDED TO THE CLASS NAME, VIZ. "GRAVELLY SAND." THE TERMS "COARSE", "MEDIUM" AND "FINE" WHEN USED TO DESCRIBE SAND, SILT AND GRAVEL REFER TO STANDARD GRADE SIZE LIMITS.

LEGEND OF EARTH MATERIALS

- GRAVEL
- SAND
- SILT
- CLAY
- SANDY CLAY OR CLAYEY SAND
- SANDY SILT OR SILTY SAND
- SILTY CLAY OR CLAYEY SILT
- PEAT AND/OR ORGANIC MATTER
- FILL MATERIAL
- IGNEOUS ROCK
- SEDIMENTARY ROCK
- METAMORPHIC ROCK

LEGEND OF BORING OPERATIONS

- PLAN OF ANY BORING
- PENETROMETER
- 2½" CONE PENETROMETER
- SAMPLER BORING (DRY)
- ROTARY BORING (WET)
- AUGER BORING (DRY)
- JET BORING
- CORE BORING
- TEST PIT



NOTES

Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH CALWA OVERHEAD

LOG OF TEST BORINGS

SCALE As Noted | BRIDGE 42-205 R/L | FILE E-42 | DRAWING D-6735-15

PR-6735-6

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

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MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

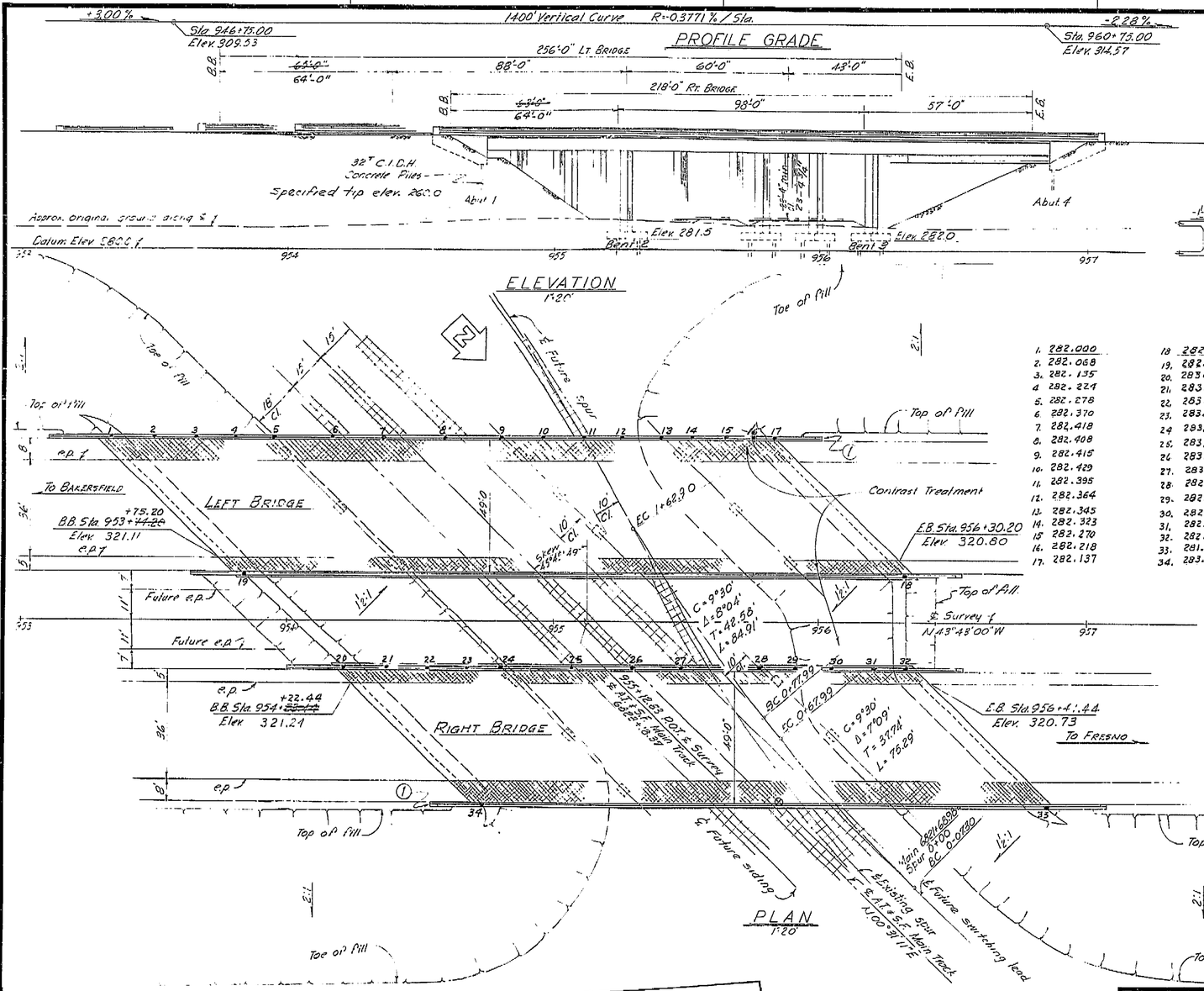
FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
7	CALIF.		180	424

U-006-2(6) F-006-2(5)

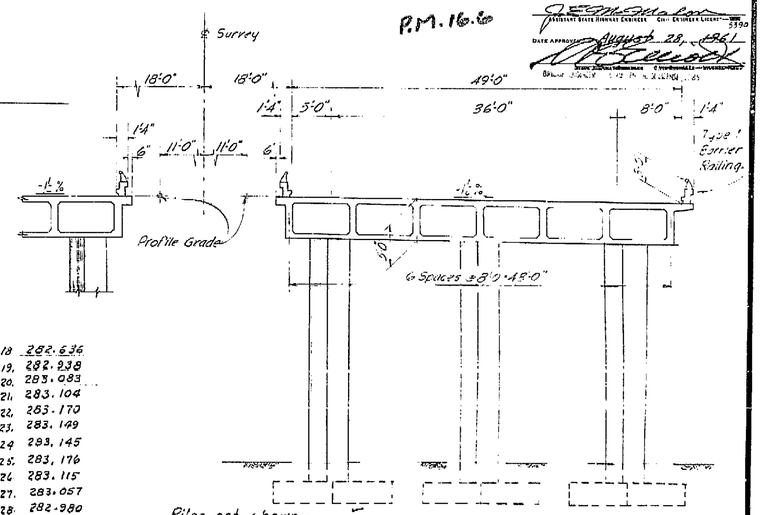
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	99			

P.M. 16.6

DATE APPROVED August 28, 1963



1.	282.000	18.	282.636
2.	282.068	19.	282.938
3.	282.135	20.	283.083
4.	282.224	21.	283.104
5.	282.278	22.	283.170
6.	282.370	23.	283.149
7.	282.418	24.	283.145
8.	282.408	25.	283.176
9.	282.415	26.	283.115
10.	282.429	27.	283.057
11.	282.395	28.	282.980
12.	282.364	29.	282.908
13.	282.345	30.	282.807
14.	282.323	31.	282.682
15.	282.270	32.	282.590
16.	282.218	33.	281.504
17.	282.137	34.	283.393



TYPICAL SECTION
3/8" = 1'-0"

INDEX TO PLANS

SHEET No.	TITLE
1.	General Plan
2.	Grid Elevation Plan
3.	Foundation Plan
4.	Abutment Details
5.	Bent Details
6.	Bent 3 Left Bridge-Details I
7.	Bent 3 Left Bridge-Details II
8.	Typical Section & Girder Layout I
9.	Girder Layout II
10.	Left Bridge Girder Reinforcement
11.	Right Bridge Girder Reinforcement
12.	Standard Details No 1
13.	Barrier Railing Sheet 1
14.	Barrier Railing Sheet 2
15.	Log of Test Borings

Note: Route Change (VI-Fre-99)

APPROXIMATE QUANTITIES

*STRUCTURE EXCAVATION (BRIDGE)	1,120 C.Y.
*STRUCTURE BACKFILL (BRIDGE)	650 C.Y.
16" C.I.D.H. CONCRETE PILING	5,796 L.F.
PRESTRESSING CAST-IN-PLACE CONCRETE	LUMP SUM
*CLASS "A" CONCRETE (BRIDGE)	2,120 C.Y.
*BAR REINFORCING STEEL (BRIDGE)	520,000 LBS.
CONTRAST TREATMENT	685 S.Y.
BARRIER RAILING (TYPE 1)	1,097 L.F.

*FINAL QUANTITIES

4-8-63 J.W. Beck

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

(1) Indicates location for painting Bridge Number and year constructed.

℄ Indicates location of minimum vertical clearance.

LIVE LOADING: H20-S16-44 f ALTERNATIVE

For General Notes see "Foundation Plan"

Contract # 62-6T13C3-F

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer
Chief Designer

DESIGN	By L.D. RICCI 7/60	Checked ED Berry 10/60	
DETAILS	By Y. Nakayama 7/60	Checked ED Berry 10/60	
QUANTITIES	By	Checked	
SPECIFICATIONS	By	Plans and Blues Completed	

Approval Recommended by
Engineer of Bridges — Civil Engr. License No. 5439

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH CALWA OVERHEAD
LOCATED ABOUT 2.5 MILES
SOUTH OF THE CITY LIMIT OF FRESNO

GENERAL PLAN

SCALE: As Noted | BRIDGE 42-208½ | FILE | DRAWING C-6795-1

Disregard prints bearing earlier numbers

PREL. DRAWING No. P- 6795 -X 15 15 20

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE ____ SIGNATURE ____ TITLE ____

SCALE 1"=50' 0 100 200 300 400 500 600 700 MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"=20' 0 50 100 150 200 MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"=20' 50 300
ClibPDF - www.fastio.com

Revision: 9-22-60
Made #8 bar cont. in Detail J-1.
E. C.

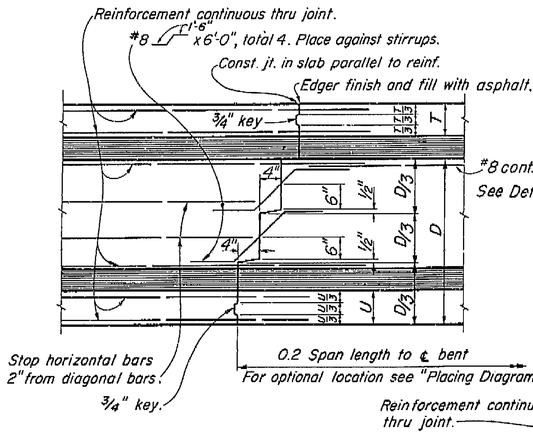
FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			191	422

U-006-2(6) F-006-2(5)

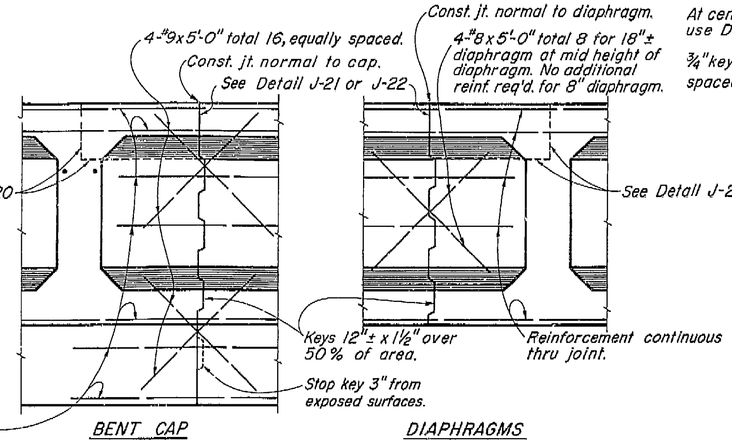
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	99			

DATE APPROVED August 28, 1961

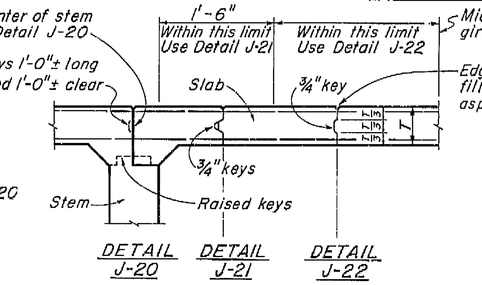
VI | Fre | 99



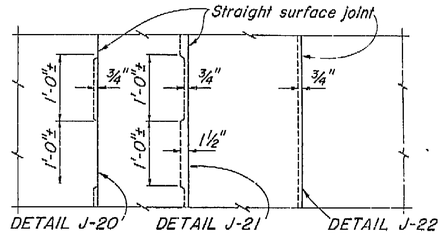
TRANSVERSE GIRDER CONSTRUCTION JOINTS
DETAIL J-3



BENT CAP
LONGITUDINAL CONSTRUCTION JOINTS
DIAPHRAGMS
DETAIL J-4

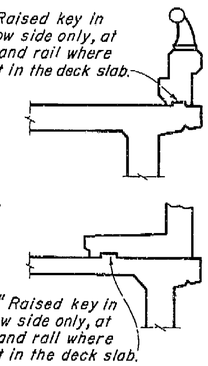


DETAIL J-20 DETAIL J-21 DETAIL J-22



DECK SLAB
LONGITUDINAL CONSTRUCTION JOINTS

Note: Longitudinal construction joints in slab, if required, are to be located at edge of traffic lanes except as approved by the Engineer.

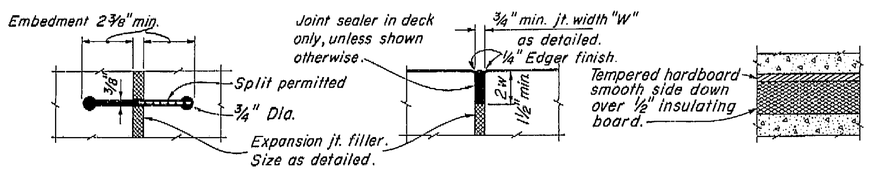


CURB AND SIDEWALK EXPANSION JOINT
DETAIL C-1

THIS SET OF PLANS HAS BEEN CORRECTED TO CONFORM TO THE "AS BUILT" PRINTS DATED _____, AS SUBMITTED BY RESIDENT ENGINEER.

CORRECTED BY: _____ DATE: _____

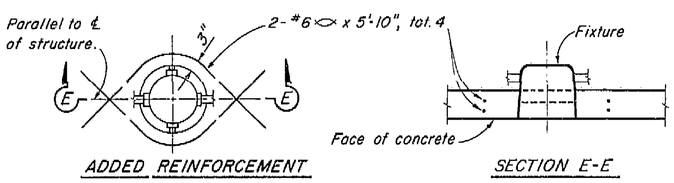
AS BUILT PLANS
Contract No. 62-6T1353
Date Completed _____
Document No. 60001062



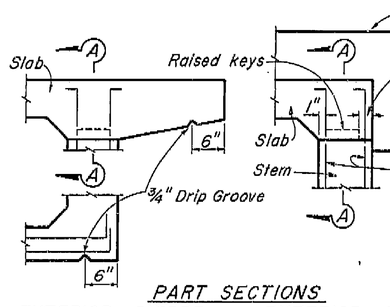
RUBBER WATERSTOP
DETAIL W-1

SEALED EXPANSION JOINT
DETAIL L-1

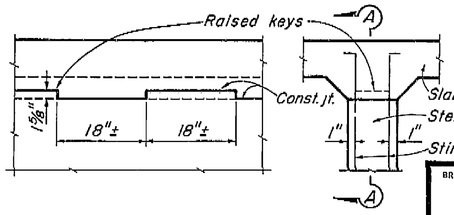
DETAIL M-1



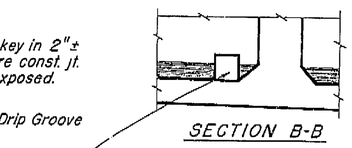
ADDED REINFORCEMENT
SECTION E-E
RECESSED SOFFIT LIGHT
DETAIL F-1

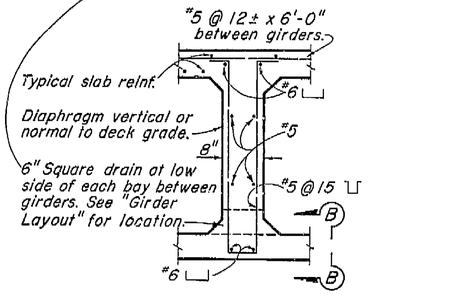


PART SECTIONS
EXTERIOR GIRDER WITH SLAB CANTILEVER.
EXTERIOR GIRDER WITH CURB

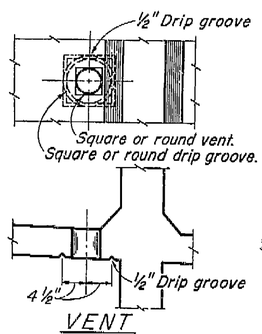


SECTION A-A
PART SECTION INTERIOR GIRDER
KEY-GIRDER STEM TO SLAB
DETAIL J-5





INTERMEDIATE DIAPHRAGM SECTION
DETAIL D-1



VENT
DETAIL V-1

Note:
5" ϕ Vent in lower slab.
Min. of two vents per span in each bay between girders. One vent to be located at low point of span and other vent to be located at opposite end of span @ 1'-6" from face of Abutment or Bent. See "Girder Layout."

STANDARD DRAWING
Submitted: W. B. O'Kelly
DESIGN
DETAILS
QUANTITIES
SPECIFICATIONS
Approved and Recommended for Adoption: W. B. O'Kelly
Date Approved: 6729

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer: Geo. F. Wilson
Chief Designer: W. J. Gutcher

DESIGN	By L. D. Ricci 11/60	Checked E. D. Berry 11/60
DETAILS	By R. Nemerson 11/60	Checked E. D. Berry 11/60
QUANTITIES	By Ray Ashley 11/60	Checked D. P. Pollock 11/60
SPECIFICATIONS	By	Checked (Plans and Specs Engineer)

Approval Recommended by _____ Engineer of Design — Final and Structural Engr. Estimate No. 5439

9/60
STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH CALWA OVERHEAD

STANDARD DETAILS NO. 1 (BOX GIRDER)

SCALE NONE | BRIDGE 42-208 L/R | XS-16-22 FILE | DRAWING C-6735-12

PREL. DRAWING No. P-6735 | 30 | 423

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50'
SCALE 1" = 20'
ClibPDF - www.fastio.com

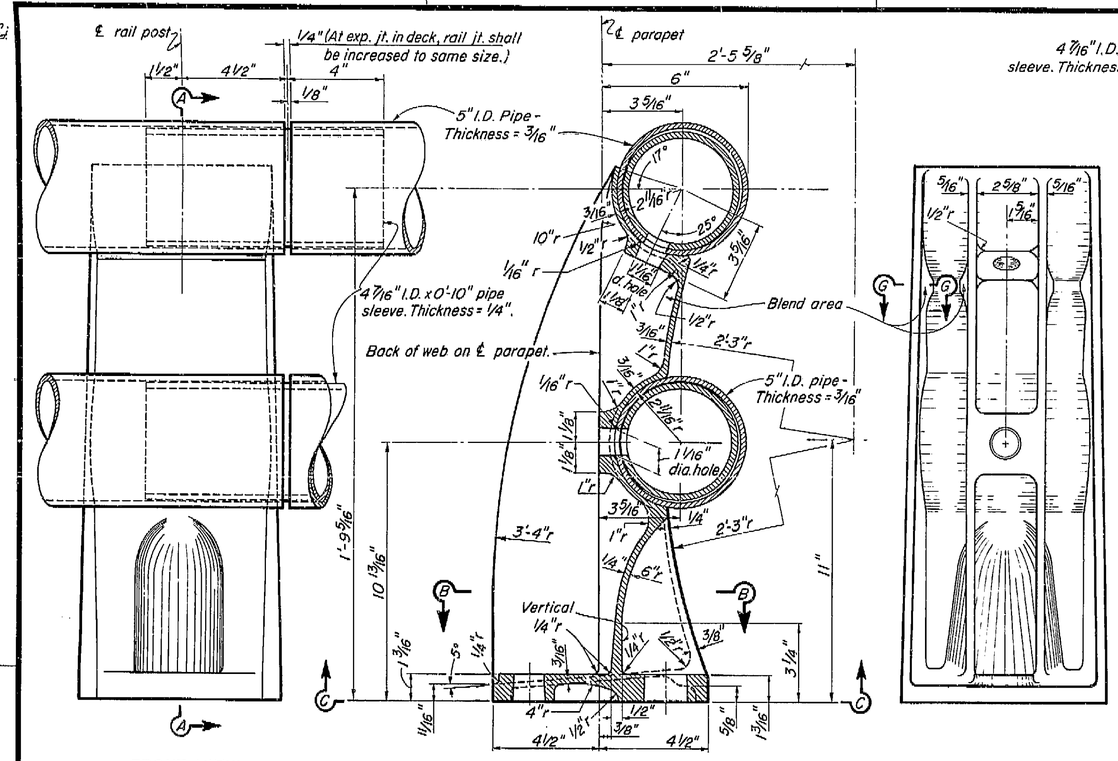
cv. - Added 1/4"r on ection A-A & D-D. dded 2 3/4" long dim; Rail Connection"del. 1-60 RFK

VI	Fre	99
F-006-2(5)		U-006-2(6)

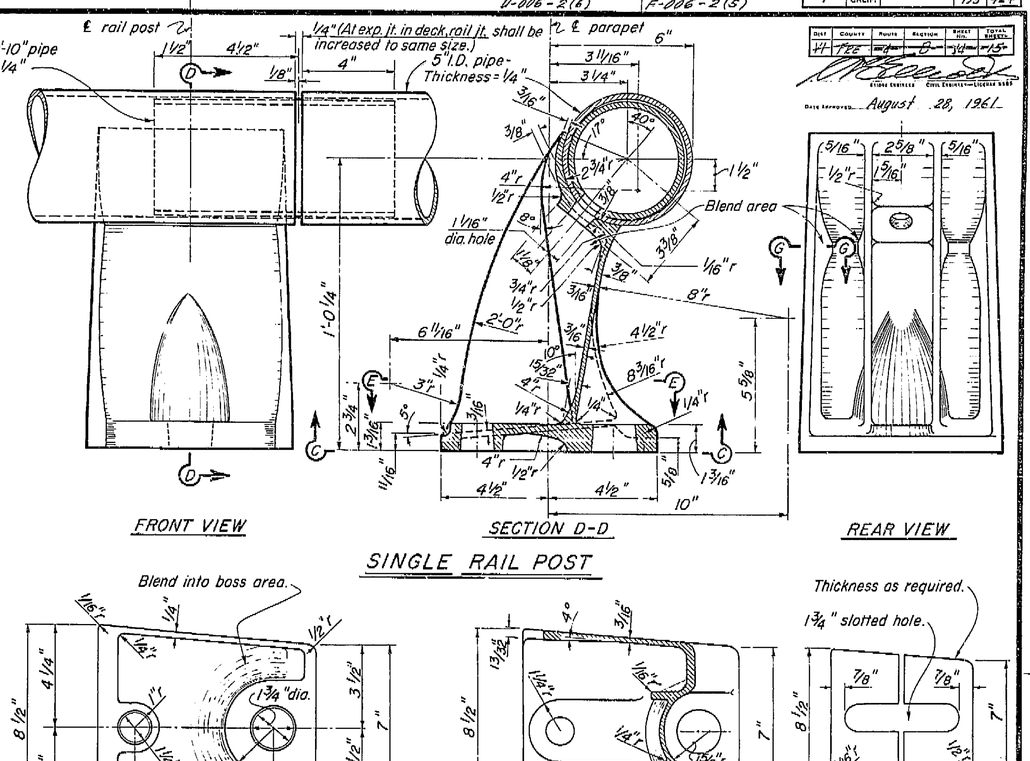
FED. ROAD DIV. NO	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.		193	424

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	99	B	3/4	15

August 28, 1961



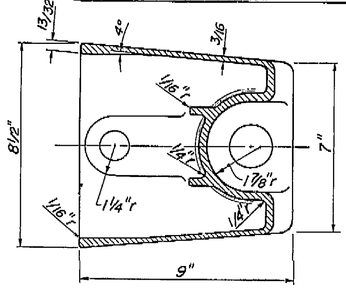
FRONT VIEW — SECTION A-A — REAR VIEW



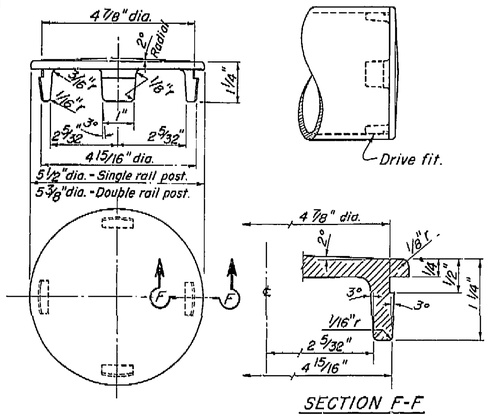
FRONT VIEW — SECTION D-D — REAR VIEW

SINGLE RAIL POST

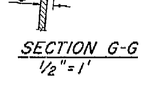
DOUBLE RAIL POST



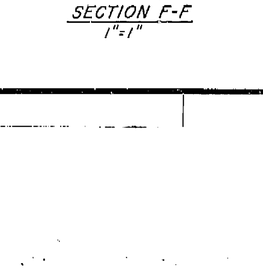
SECTION B-B



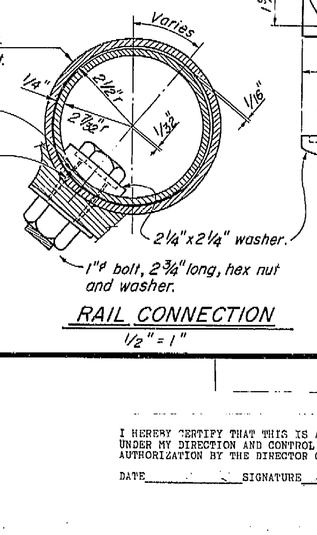
RAIL CAP
1/2" = 1'



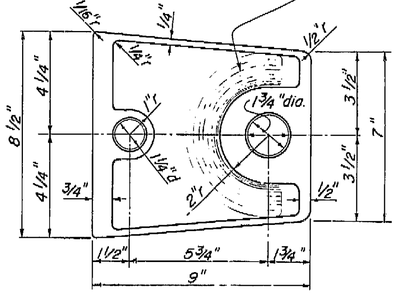
SECTION G-G
1/2" = 1'



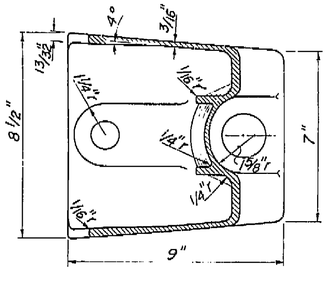
SECTION F-F
1" = 1'



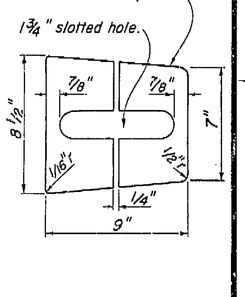
RAIL CONNECTION
1/2" = 1'



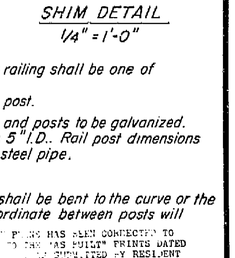
SECTION C-C



SECTION E-E



SHIM DETAIL
1/4" = 1'-0"



Notes:

1. At the option of the contractor, material for the railing shall be one of the following:
   a. Aluminum pipe rail and cast aluminum post.
   b. Steel pipe rail and cast steel post. Rail and posts to be galvanized. Steel pipe rail shall be 3/16" thick with 5" I.D.. Rail post dimensions shall be revised as necessary to fit the steel pipe.
2. Shims are to be of asbestos sheet packing.
3. For railing on a horizontal curve the pipe rail shall be bent to the curve or the spacing of posts adjusted so that the middle ordinate between posts will not exceed 1'.

AS BUILT PLANS HAS BEEN CONNECTED TO THIS "AS BUILT" PRINTS DATED [illegible] AS SUBMITTED BY RESIDENT ENGINEER

AS BUILT BY: DATE:

AS BUILT PLANS
Contract No. 62-6T1363
Date Completed
Document No. 60001062

STANDARD DRAWING

Approved by	Director of Public Works	Date	Nov. 1960
Recommended by	Chief, Division of Highways	Date	Nov. 1960
Approved by	Chief, Bridge Department	Date	Nov. 1960
Prepared by	Chief, Design Section	Date	Nov. 1960
Drawing No.			6724

DESIGN	By	J. RICCI	1/61
	Checked	E.D. Berry	1/61
DETAILS	By	J. RICCI	1/61
	Checked	E.D. Berry	1/61
QUANTITIES	By	Roy A. Tye	1/61
	Checked	O.P. Pollock	1/61

BRIDGE DEPARTMENT
DESIGN SECTION
Section Supervisor W.J. Quintrall

11/60

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH CALWA OVERHEAD

BARRIER RAILING SHEET 2

Except as noted SCALE 3/8" = 1" | BRIDGE 42-208 & 42-208 R | XS-9-71 FILE | DRAWING C-6735-14

Disregard prints bearing earlier numbers

PREL. DRAWING No. P- 6735 40

425

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE SIGNATURE TITLE

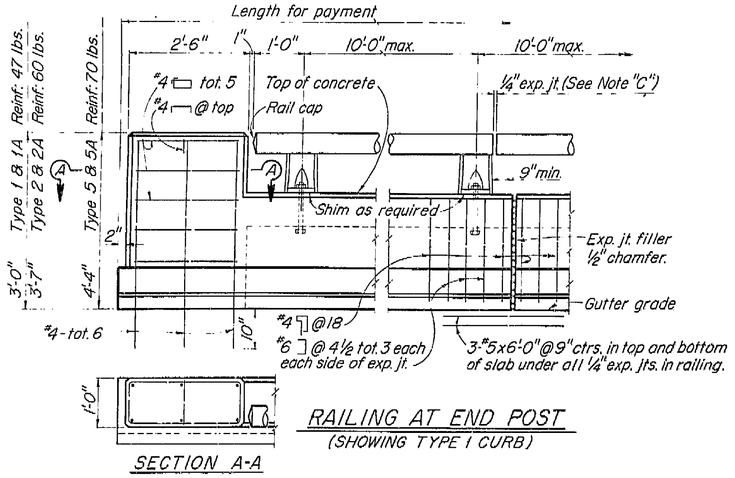
MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50'
SCALE 1" = 20'
ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SH. NO.	TOTAL SHEETS
7	CALIF.		192	424

U-006-2(6) F-006-2(5)

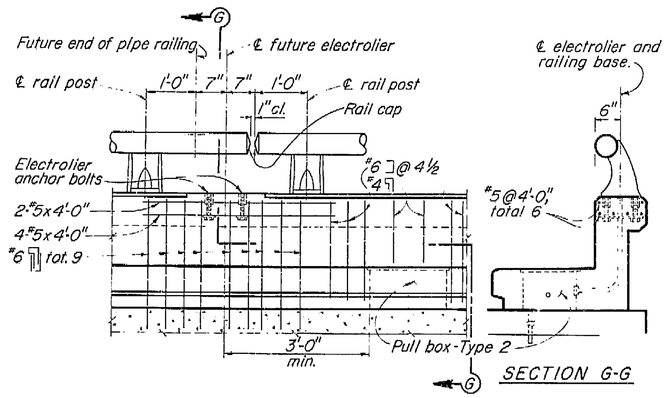
Dist.	County	Route	Section	Sheet No.	Total Sheets
VI	Fre	-4	-B	-13	15.

August 28, 1961



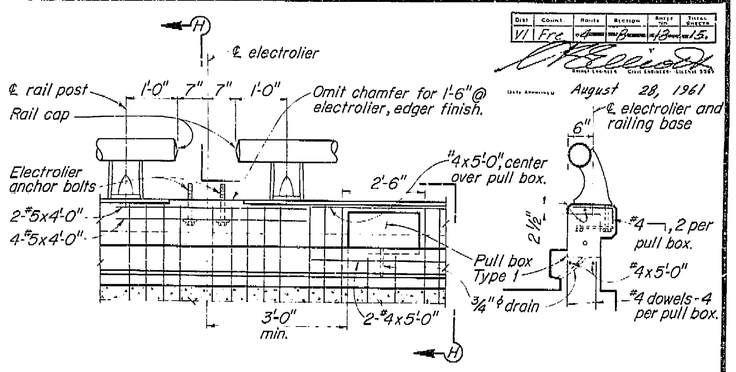
SECTION A-A

RAILING AT END POST
(SHOWING TYPE 1 CURB)



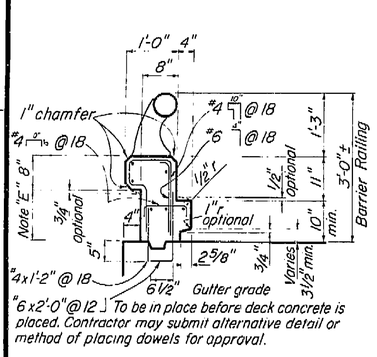
SECTION G-G

RAILING CLOSURE AT ELECTROLIER
(SHOWING TYPE 2 CURB)

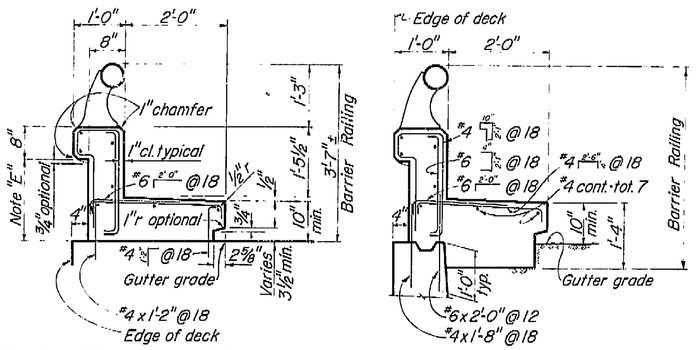


SECTION H-H

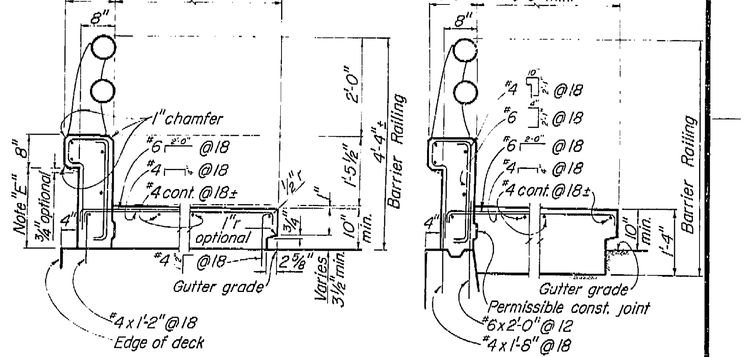
RAILING AT ELECTROLIER
(SHOWING TYPE 1 CURB)



"6x2'-0" @12 To be in place before deck concrete is placed. Contractor may submit alternative detail or method of placing dowels for approval.



Note: Type 1A and 2A are similar to Type 1 and 2 except as noted.



TYPE 1
Conc. 1.61 cu. ft./lin. ft.
Reinf. 11.8 lbs./lin. ft.

TYPE 1A
Conc. 1.61 cu. ft./lin. ft.
Reinf. 12.0 lbs./lin. ft.

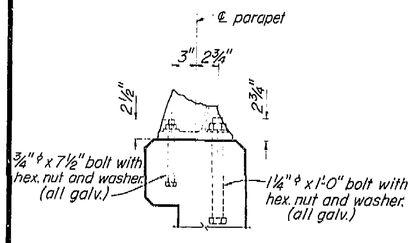
TYPE 2
Conc. 3.43 cu. ft./lin. ft.
Reinf. 14.7 lbs./lin. ft.

TYPE 2A
Conc. 4.30 cu. ft./lin. ft.
Reinf. 17.3 lbs./lin. ft.

TYPE 5
Conc. 6.10 cu. ft./lin. ft. — For 5'-0" width
Reinf. 17.2 lbs./lin. ft.
Conc. 0.84 cu. ft./lin. ft. — Per additional ft. (width)
Reinf. 2.1 lbs./lin. ft.

TYPE 5A
Conc. 8.35 cu. ft./lin. ft.
Reinf. 19.7 lbs./lin. ft.
Conc. 1.34 cu. ft./lin. ft.
Reinf. 2.1 lbs./lin. ft.

TYPICAL CURB AND RAIL SECTIONS



RAIL POST ANCHOR BOLT DETAIL
Scale: 1½" = 1'-0"

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

Note:
A. Railing shall conform to horizontal and vertical alignment.
B. Posts shall be normal to railing.
C. Curb and wall exp. jts. to be located at all deck joints, at ℄ piers or bents and at uniform spacing (40' max.) between those specified. Joint size to be ¼" min. and increased to match deck joints.
D. Construct 3" deep x 12" wide overflow scupper 2" above deck at low points in grade.
E. Dimension will vary with cross-slope of deck.
F. Walls are to be backfilled before railing is placed.
G. Clearance to reinforcing steel in curb and railing to be 1".

THIS SET OF PLANS HAS BEEN CORRECTED TO CONFORM TO AS BUILT PRINTS DATED 2-8-62 AS SUBMITTED BY RESIDENT
CORRECTED BY ____ DATE ____

BRIDGE DEPARTMENT		
DESIGN SECTION		
Section Supervisor	K. J. Jurkovich	
DESIGN	By / Checked	L. D. Ricci 1/61 / E. D. Berry 1/61
DETAILS	By / Checked	L. D. Ricci 1/61 / E. D. Berry 1/61
QUANTITIES	By / Checked	Jay Mitze 1/61 / O. R. Pollock 1/61

10/60 STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS

SOUTH CALWA OVERHEAD

BARRIER RAILING SHEET 1

Except as noted | SCALE 3/4" = 1'-0" | BRIDGE 42-208 R/L | XS-9-63 FILE | DRAWING C-6735-13

Disregard prints bearing earlier numbers → PREL. DRAWING NO. P-1735 | 39

424

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

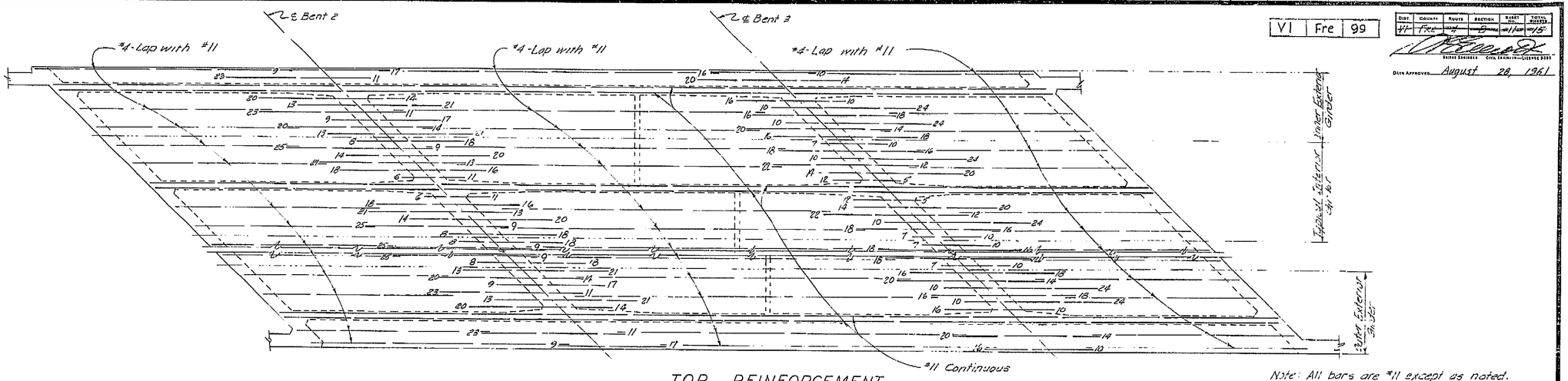
MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50' 0 100 200 300 400 500 600
SCALE 1" = 30' 0 30 60 90 120 150 180
SCALE 1" = 20' 0 20 40 60 80 100 120
MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 20' 0 100 200 300
ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.		190	424

U-006-2(6) F-006-2(5)

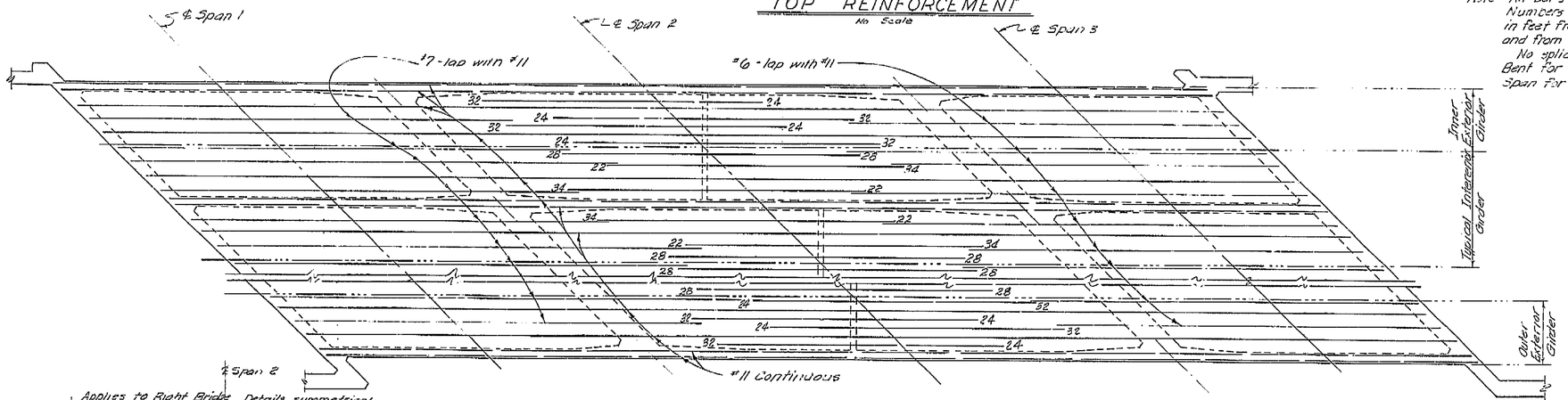
DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	Fre	99			

Date Approved August 28, 1961

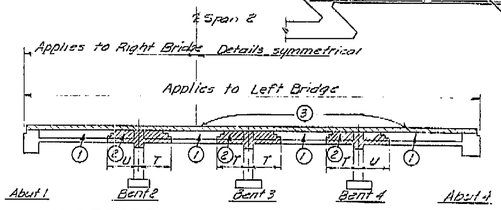


TOP REINFORCEMENT
No Scale

Note: All bars are #11 except as noted.
Numbers at ends of bars indicate distance in feet from ℄ Bent for Top Reinforcement and from ℄ Span for Bottom Reinforcement.
No splicing of #11 bars permitted near ℄ Bent for Top Reinforcement or near ℄ Span for Bottom Reinforcement.



BOTTOM REINFORCEMENT
No Scale



SUPERSTRUCTURE PLACING DIAGRAM

Numbers (1) and (2) indicate sequence of placing bottom slab and girder stem concrete. (2) may be placed simultaneously with (1) when approved by the Engineer, and provided that the (1) sections are placed in adjoining spans.
Top slab concrete (3) shall be placed separately from (1) and (2). (3) may be placed continuously or in parts as approved by the Engineer, however the only joints permitted shall be located within 2'0" of the girder joints between (1) and (2).
T = 1/5 span length
U = 1/4 span length
For any deviation from the above the contractor shall submit a diagram to the Engineer.

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

4-5-63

BRIDGE DEPARTMENT			
DESIGN SECTION 2			
Project Designer E. L. Tudor			
Chief Designer W. O. Quintrell			
DESIGN	by E.D. Berry 9/60	Checked	
DETAILS	by K.C. Blechinger 9/60	Checked	
QUANTITIES	by [illegible] 11/60	Checked D.P. Pollock 11/60	
SPECIFICATIONS	by	Plans and Notes Prepared	
Approval Recommended by [illegible] Engineer of Design		Civil Engr. License No. 8438	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH CALWA OVERHEAD

RIGHT BRIDGE GIRDER REINFORCEMENT

SCALE: AS NOTED | BRIDGE 42-208R_L | FILE | DRAWING C-6735-11

Disregard prints bearing earlier numbers

PREL. DRAWING No. P-6735 | 14 | 29 | 36

422

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-12-72 SIGNATURE [illegible] TITLE [illegible]

ClibPDF - www.fastio.com

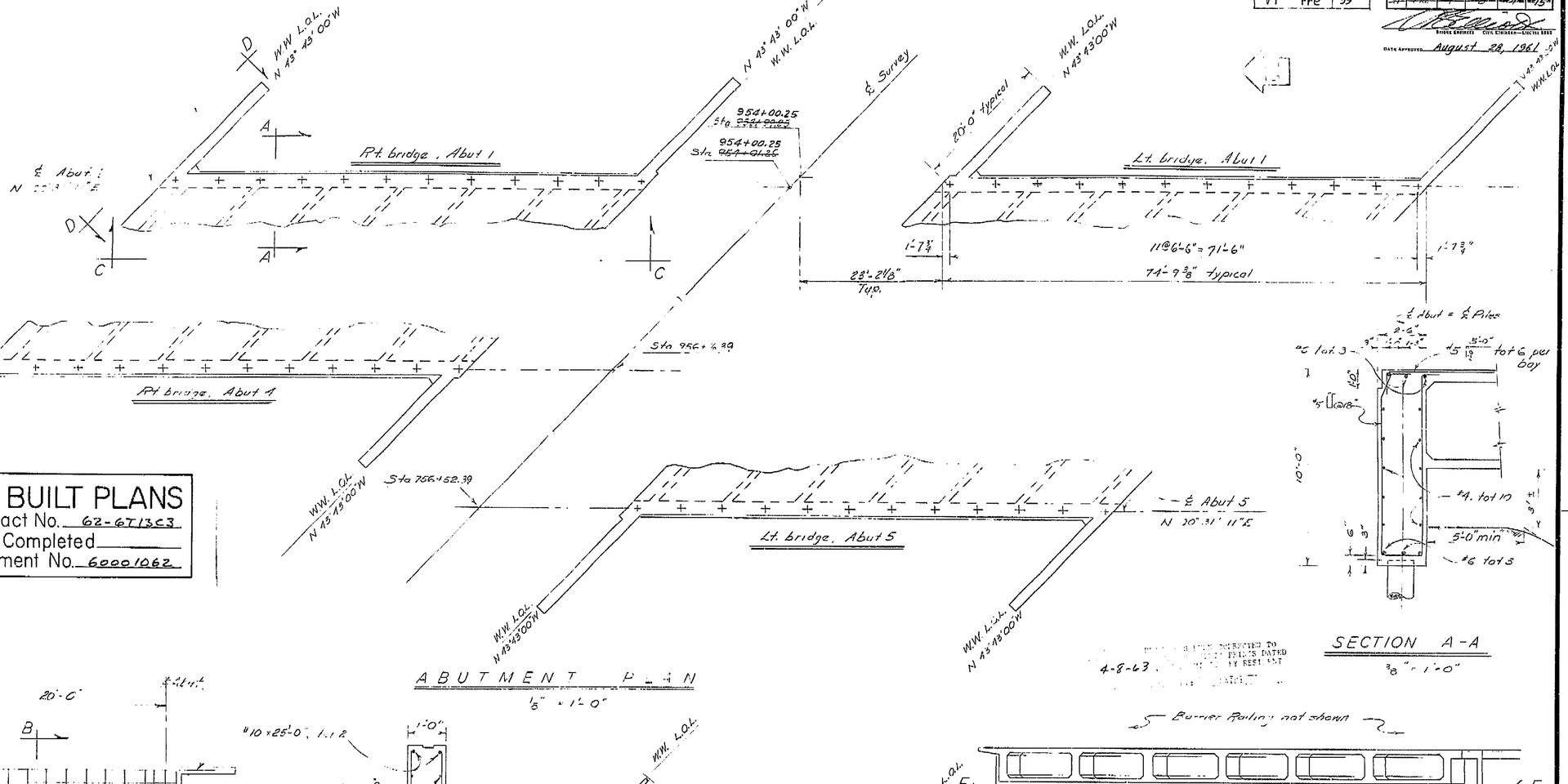
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FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.		183	424

U-006-2(6) F-006-2(5)

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	Fre	99			

DATE APPROVED August 28, 1961



BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer E. P. Stevens
Chief Designer W. J. Jurkiewicz

DESIGN	By L. S. Ricci '63	Checked ED Berry '60	
DETAILS	By T. Suyetsugu 8/63	Checked ED Berry '60	
QUANTITIES	By Zavalla, Hlr	Checked DP Pollock '60	
SPECIFICATIONS	By	Plans and Spec. Compared	

Approval Recommended by Rod Hartshorn, Engineer of Design — Civil Engr. License No. 8439

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH CALWA OVERHEAD

ABUTMENT DETAILS

SCALE As Noted | BRIDGE 12-2018 8/4 | FILE | DRAWING C-6135-4 1

Disregard prints bearing earlier numbers → PREL. DRAWING No. P- 6735 7/23

183

415

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-12-73 SIGNATURE [illegible] TITLE [illegible]

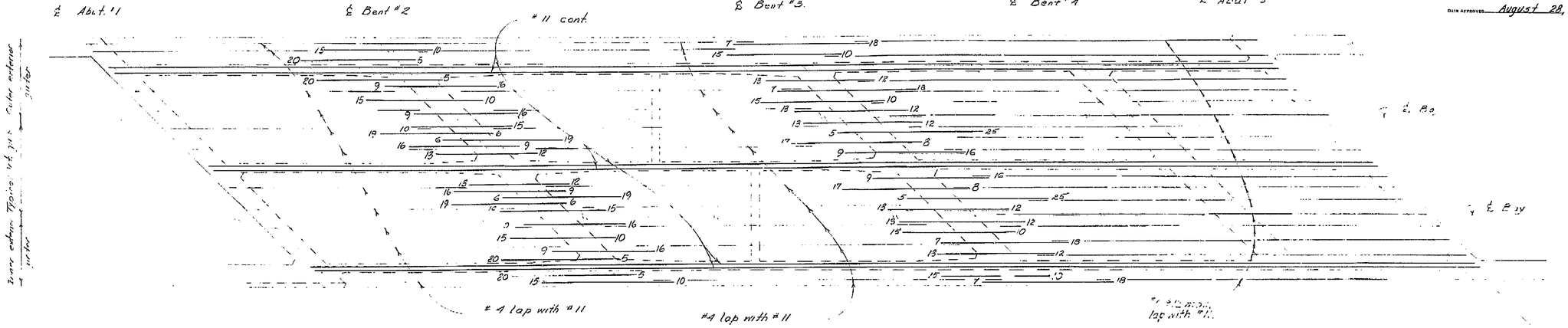
ClibPDF - www.fastio.com
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SCALE 1"= 20' 0 50 100 MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM 200 SCALE 1"= 20' 50 300

U-006-2(6) F-006-2(5)

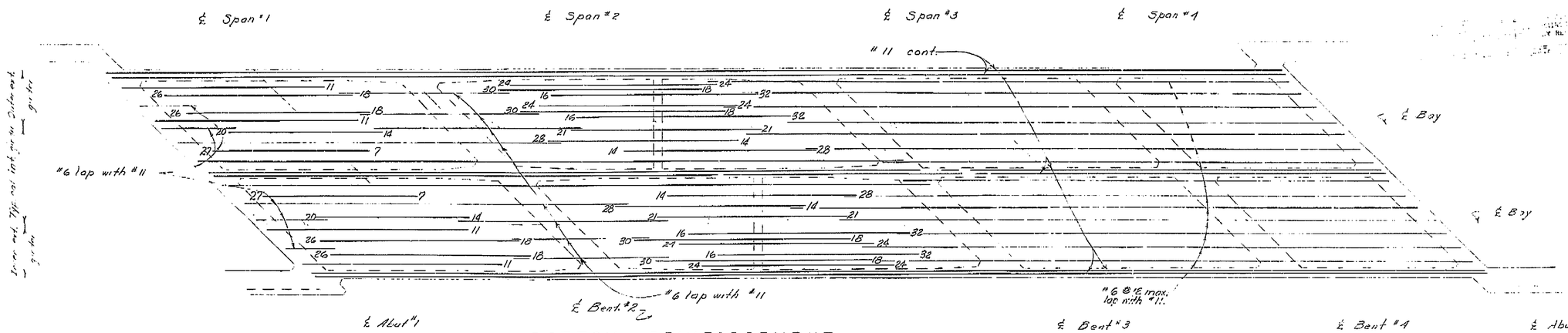
FED. ROAD DIST. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.		189	424

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	99			

DATE APPROVED August 28, 1961



TOP REINFORCEMENT



BOTTOM REINFORCEMENT

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

189

Note:
All bars are #11 except as noted. Numbers at ends of bars indicate distance in feet from ℄ bent for Top Reinforcement or from ℄ span for Bottom Reinforcement.

No splicing of #11 bars permitted near ℄ bent in Top Reinforcement or near ℄ span in Bottom Reinforcement.

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer
Chief Designer W. J. Goldsworthy

DESIGN	By L. O. Rice '60	Checked E. D. Berry 10/60	
DETAILS	By K. Swenson '60	Checked E. D. Berry 10/60	
QUANTITIES	By Ray A. Dr. 11/60	Checked D. P. Pollock 11/60	
SPECIFICATIONS	By	Plans and Proj. Engineer	

Approval Recommended by
Engineer of Design
Civil Engr. License No. 8438

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH CALWA OVERHEAD

LEFT BRIDGE GIRDER REINFORCEMENT

SCALE None | BRIDGE 42-208 R | FILE | DRAWING C-6735-10

Disregard prints bearing earlier numbers → PREL. DRAWING No. P-6735 S 28

421

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE ____ SIGNATURE ____ TITLE ____

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"= 50'
SCALE 1"= 20'
ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.		181	424

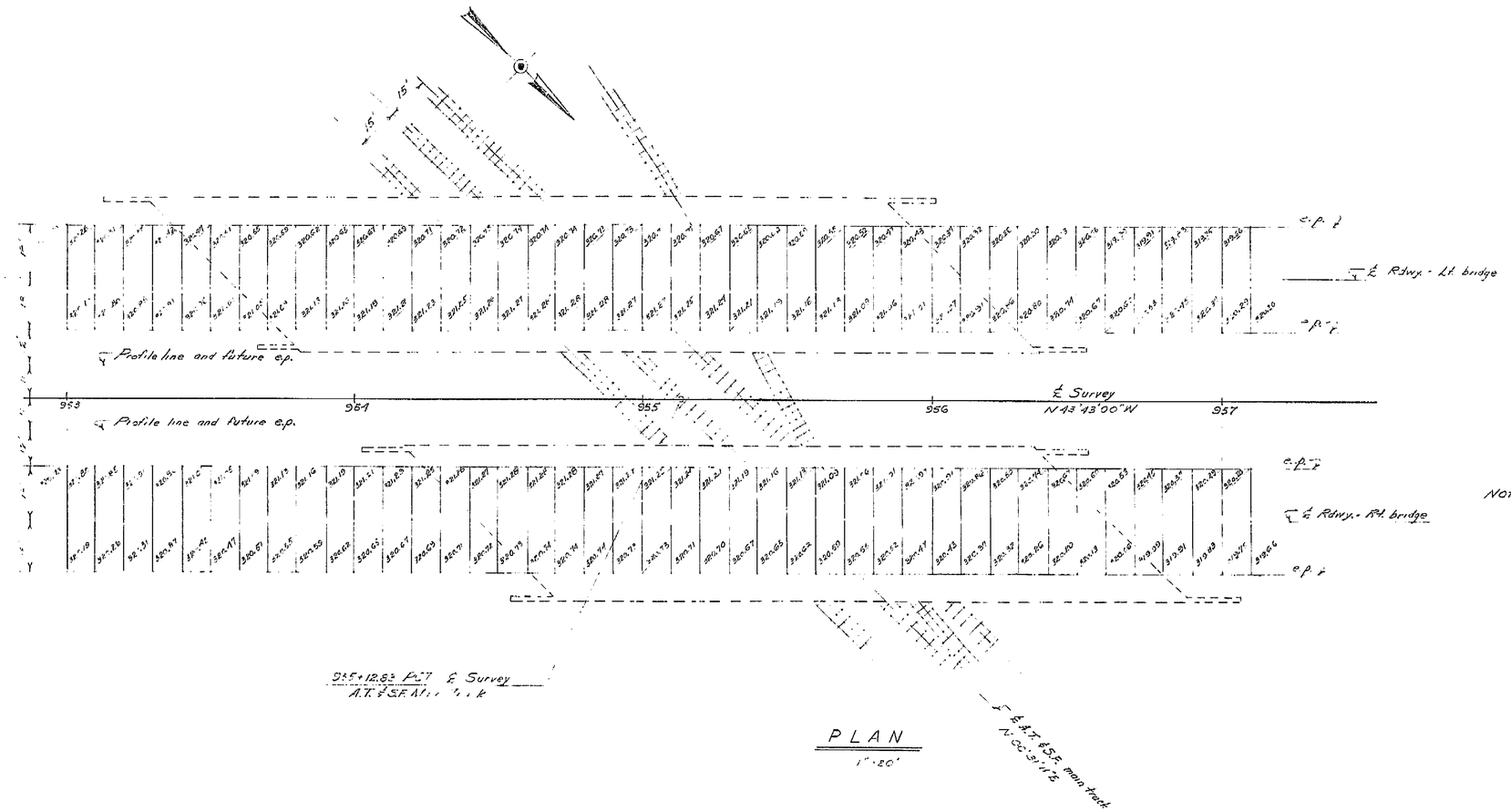
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	99		2	15

H-006-2(6) F-006-2(5)

VI | Fre | 99

STATE CONTROL—LICENSE EXPIRES

DATE APPROVED August 28, 1961



PLAN

1"=20'

NOTE: Elevations are figured from profile line at 10' stations along ℄ Survey

These elevations do not include camber

AS BUILT PLANS
Contract No. 62-671363
Date Completed
Document No. 60001062

181

BRIDGE DEPARTMENT			
DESIGN SECTION 2			
Project Designer: [illegible]			
Chief Designer: W. J. Quatermain			
DESIGN	By L.D.I. 1-60	Checked E.D. Berry 1/60	
DETAILS	By J. Suyat. 1960	Checked E.D. Berry 1/60	
QUANTITIES	By [illegible] 1-60	Checked W.W. Paddock 1/60	
SPECIFICATIONS	By	Plans and Rpts. Prepared	
Approved Recommended by: [illegible] Engineer of Design		Civil Engr. License No. 8459	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH CALWA OVERHEAD

GRID ELEVATION PLAN

SCALE As noted | BRIDGE 42-208 3/4 | FILE | DRAWING C-6[illegible]-2

Disregard prints bearing earlier numbers

PREL. DRAWING No. P- 6735 8 21

413

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE [illegible] SIGNATURE [illegible] TITLE [illegible]

ClibPDF - www.fastio.com

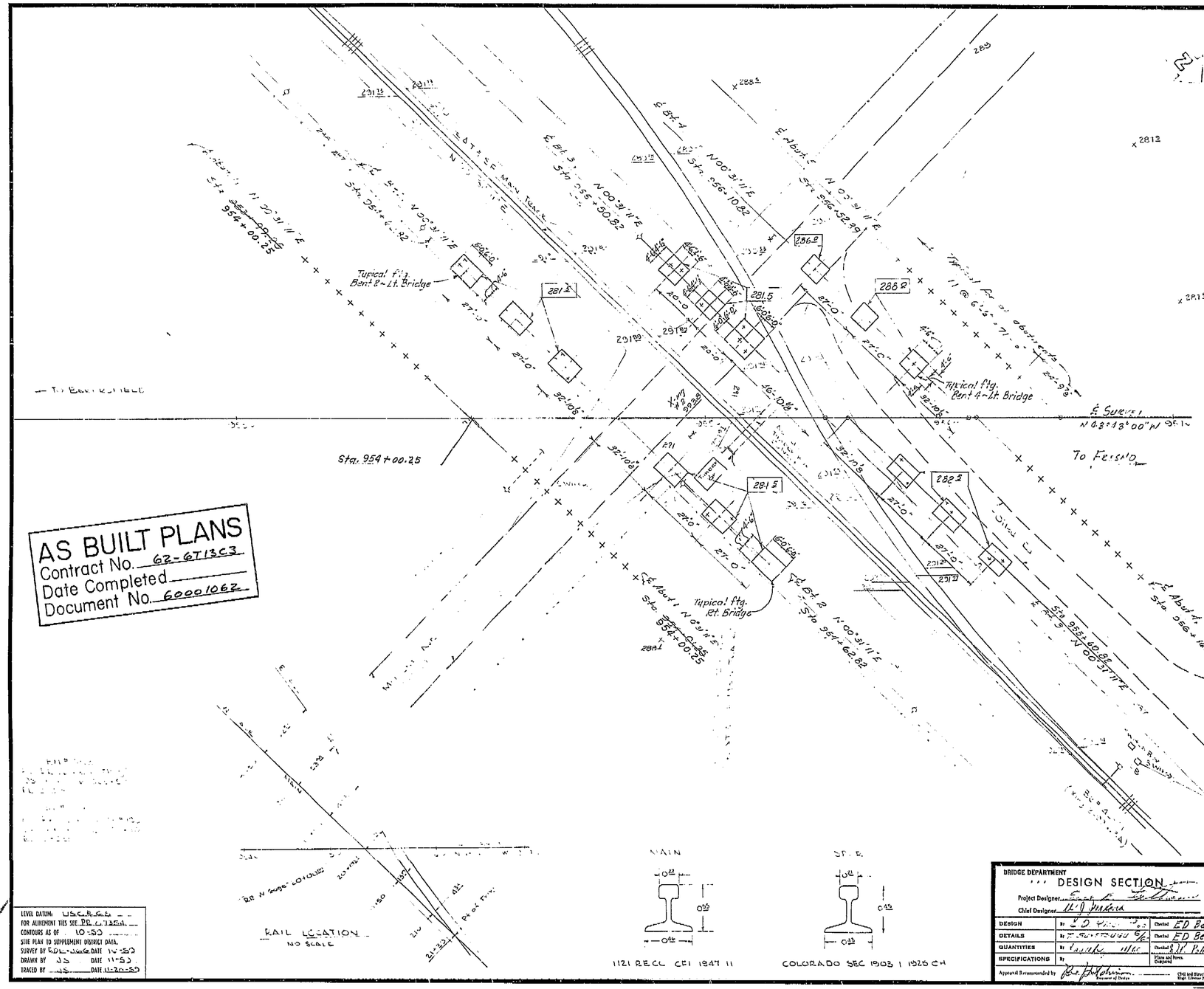
SCALE 1"= 50' 0 200 400 600 MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"= 20' 0 100 200 300 MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			182	424

U-006-2(6) F-006-2(5)

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	99		135	

Date Approved: August 28, 1961



+ Indicates vertical piles

288.2 Indicates bottom of footing elevation.

Note
For pile layout of Bent footings, see "Bent Details" and "Bent 3 - Left Bridge Details."

GENERAL NOTES

SPECIFICATIONS:

DESIGN: A.A.S.H.O. DATED 1957 WITH REVISIONS AND AS SUPPLEMENTED BY BRIDGE PLANNING AND DESIGN MANUAL.

CONSTRUCTION: STANDARD SPECIFICATIONS, DIVISION OF HIGHWAYS, DATED JANUARY 1960 AND THE SPECIAL PROVISIONS.

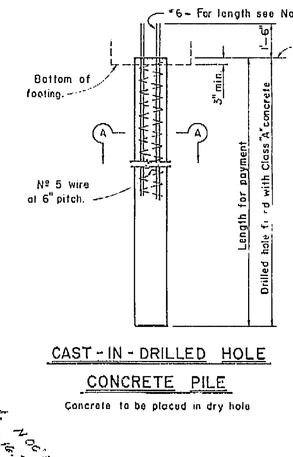
LIVE LOADING: H20-S16-44 AND ALTERNATIVE

UNIT STRESSES:

REINFORCED CONCRETE: F_S = 20,000 P.S.I., N = 10

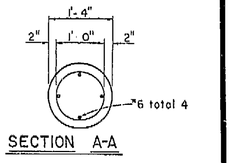
F_C = 1,200 P.S.I.

PILE LOADING: 32 TONS TYPE: CONCRETE (C.I.D.H.)



Note F
The #6 bars shall extend a minimum of 12'-0" below the lowest of the following:
1. Bottom of footing.
2. Top of final ground surface.
3. Top of original ground surface when piles are drilled through fill.

CAST - IN - DRILLED HOLE CONCRETE PILE
Concrete to be placed in dry hole



SECTION A-A

AS BUILT PLANS
Contract No. 62-671363
Date Completed
Document No. 60001062

182

LEVEL DATUM: USC&GS
FOR ALIGNMENT TIES SEE DR. 6735-1
CONTOURS AS OF 10-59
SITE PLAN TO SUPPLEMENT DISTRICT DATA.
SURVEY BY F.D.L. - J.S.C. DATE 10-59
DRAWN BY JS DATE 11-59
TRACED BY JS DATE 11-20-59

BRIDGE DEPARTMENT
DESIGN SECTION
Project Designer E. C. Berry
Chief Designer W. J. Burnett

DESIGN	By L. D. Yee	Checked	E. D. Berry 1/60
DETAILS	By T. Sugimoto	Checked	E. D. Berry 1/60
QUANTITIES	By [illegible]	Checked	W. J. Burnett 1/60
SPECIFICATIONS	By	Plans and Revs. Completed	

Approved Recommended by [signature] Chief and Structural Engineer Bridges
Approved [signature] Engineer of Design

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH CALWA OVERHEAD

FOUNDATION PLAN

SCALE 1" = 20' | BRIDGE 42-2.5% | FILE 42 | DRAWING C-6735-3

PREL. DRAWING NO. P. 6735 | 14 | 22 | DR 6735-3 414

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-12-72 SIGNATURE [signature] TITLE DR ENGR

SCALE 1" = 50' 200 MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM 400 600 SCALE 1" = 50' 0 SCALE 1" = 20' 20 MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1" = 20' 300
ClibPDF - www.fastio.com

California Department of Transportation
Division of Maintenance

Structure Maintenance and Investigations

BRIDGE

INSPECTION

RECORDS

INFORMATION

SYSTEM

The requested documents have been generated by BIRIS.

These documents are the property of the California Department of Transportation and should be handled in accordance with Deputy Directive 55 and the State Administrative Manual.

Records for “Confidential” bridges may only be released outside the Department of Transportation upon execution of a confidentiality agreement.

CONTRACT NO. 06-0C4104
TRANSFER DATE: 12-21-2007
FIELD CORRECTION DATE: 11-15-2007
CORRECTIONS TRANSFERED BY: REM
FIELD CORRECTIONS BY: Victor Diaz

AS BUILT CORRECTIONS

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	19.0/39.3	10R1	11

Matthew W. Lee 11/20/06
REGISTERED CIVIL ENGINEER

2-26-07
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MATTHEW W. LEE — No. C 56698 — Exp. 6-30-07 — CIVIL — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

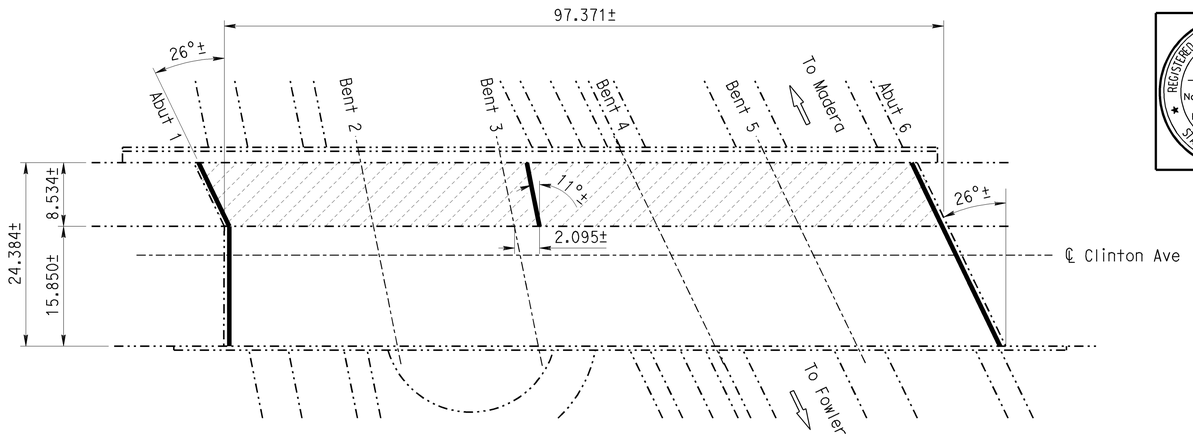
To get to the Caltrans web site, go to: http://www.dot.ca.gov

REGISTERED PROFESSIONAL ENGINEER — MICHAEL J LEE — No. C42447 — Exp. 3-31-08 — CIVIL — STATE OF CALIFORNIA

MARK	DATE	REVISION(S) DESCRIPTIONS	DES	CHK	DET
3	8-08-07	CHANGE SHEET NUMBERS	MJL	TP	DK
2	8-08-07	CHANGED NAME GENERAL PLAN NO. 1	MJL	TP	DK
1	8-08-07	ADDED SUPPLEMENTAL SHEET	MJL	TP	DK

REGISTERED CIVIL ENGINEER: Michael J. Lee DATE: 9-07-07

CONTRACT CHANGE ORDER NO. ____
SHEET ___ OF ___



STANDARD PLANS DATED JULY 2004

SHEET No.	TITLE
A10A	ACRONYMS AND ABBREVIATIONS (A-L)
A10B	ACRONYMS AND ABBREVIATIONS (M-Z)
RSP B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 50 mm)

INDEX TO PLANS

SHEET No.	TITLE
1	GENERAL PLAN NO. 1
2	GENERAL PLAN NO. 2
3	JOINT SEAL TABLE

NOTES: (APPLY TO ALL SHEETS)

Indicates existing.

THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

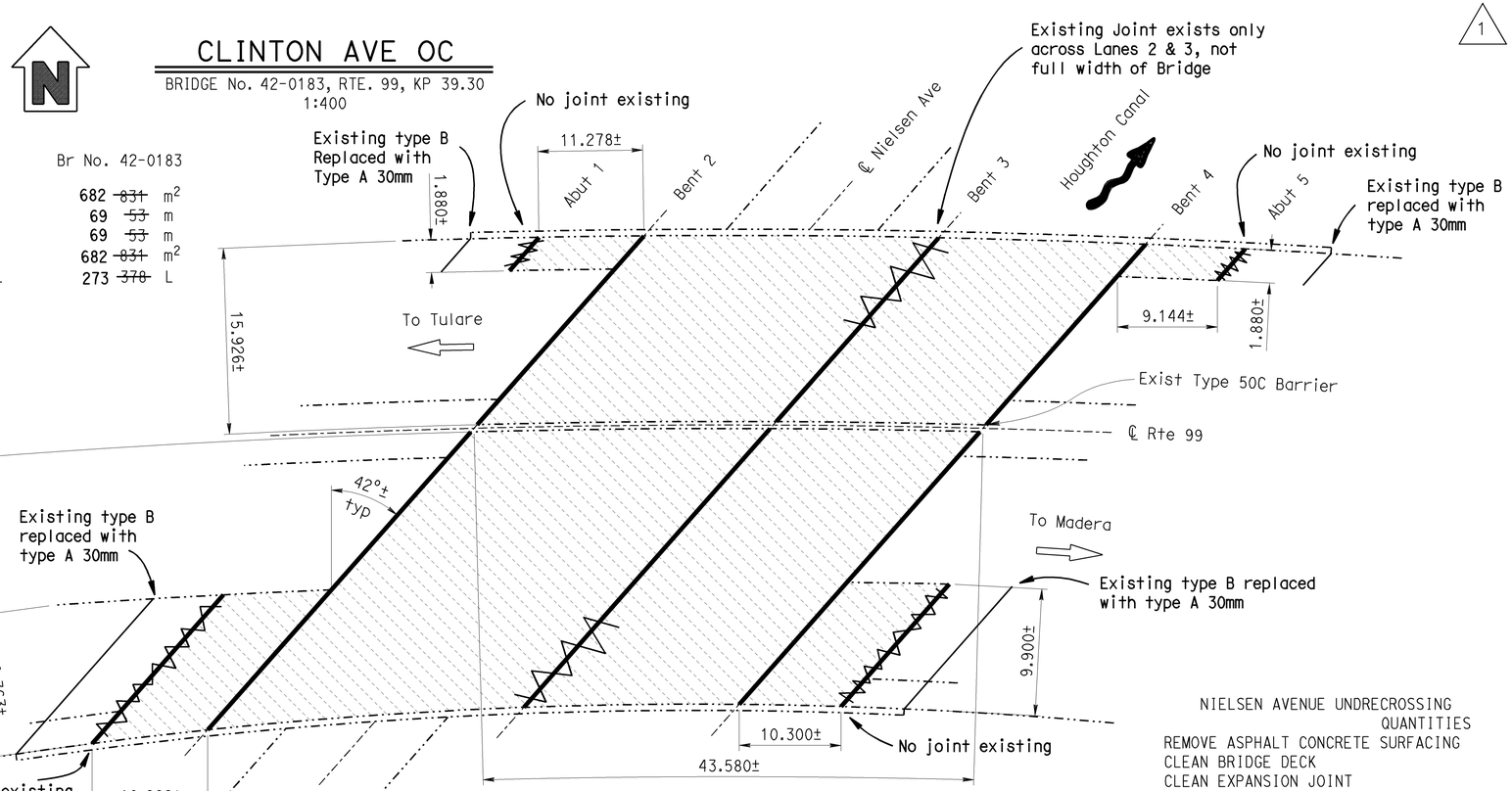
Indicates limits of clean and treat deck with high molecular weight methacrylate.

Indicates limits of remove existing 25mm± thick AC overlay, clean and treat deck with high molecular weight methacrylate.

Indicates limits of existing joint seal removal and placement of new joint seal.

CLINTON AVE OC

BRIDGE No. 42-0183, RTE. 99, KP 39.30
1:400



CLINTON AVENUE OVERCROSSING QUANTITIES	Br No. 42-0183	
CLEAN BRIDGE DECK	682 ~~831~~	m^2
CLEAN EXPANSION JOINT	69 ~~53~~	m
JOINT SEAL (MR 40 MM)	69 ~~53~~	m
TREAT BRIDGE DECK	682 ~~831~~	m^2
FURNISH BRIDGE DECK TREATMENT MATERIAL	273 ~~378~~	L

NIELSEN AVE UC

BRIDGE No. 42-0188, ROUTE 99, KP 35.63
1:250

NIELSEN AVENUE UNDRECROSSING QUANTITIES	Br No. 42-0188	
REMOVE ASPHALT CONCRETE SURFACING	2 123	m^2
CLEAN BRIDGE DECK	2 123	m^2
CLEAN EXPANSION JOINT	129 ~~207~~	m
JOINT SEAL (MR 30 mm)	129 ~~172~~	m
not used ~~JOINT SEAL (MR 15 mm)~~	37	m
TREAT BRIDGE DECK	2 123	m^2
FURNISH BRIDGE DECK TREATMENT MATERIAL	908 ~~965~~	L

Caltrans Metric	Michael J. Lee DESIGN ENGINEER — STRUCTURE MAINTENANCE DESIGN GENERAL PLAN & DETAIL SHEET (METRIC) (REV. 10/2/05)	DESIGN	BY Matt Lee	CHECKED Tim Powell	
		DETAILS	BY Seth Evans	CHECKED Tim Powell	
		QUANTITIES	BY Matt Lee	CHECKED Tim Powell	
		LAYOUT	BY Seth Evans	CHECKED Matt Lee	
		SPECIFICATIONS	BY Karla Meier	PLANS AND SPECS COMPARED Karla Meier	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

CU 06244
EA 0C4101

BRIDGE NO. Varies
KILOMETER POST Various

ROUTE 99 BRIDGES (TREAT DECK)
GENERAL PLAN NO. 1

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): ~~4-11-06~~ ~~9-27-06~~ 12-7-06

SHEET 1 OF 3

USERNAME => bmiller DATE PLOTTED => 21-DEC-2007 TIME PLOTTED => 09:59
FILE => 06-0c4101_01gp1.dgn

ClibPDF - www.fastio.com

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	19.0/39.3	11R1	11

REGISTERED CIVIL ENGINEER — 11/20/06

2-26-07
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MATTHEW W. LEE — No. C 56698 — Exp. 6-30-07 — CIVIL — STATE OF CALIFORNIA

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To get to the Caltrans web site, go to: http://www.dot.ca.gov

CONTRACT NO: 06-0C4104
TRANSFER DATE: 12-21-2007
FIELD CORRECTION DATE: 11-13-2007
CORRECTIONS TRANSFERED BY: BEM
FIELD CORRECTIONS BY: Victor Diaz

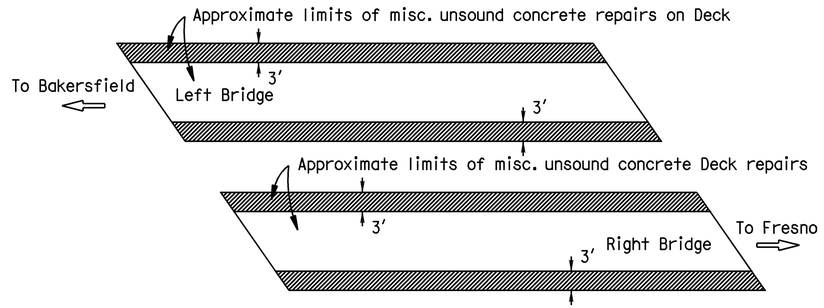
AS BUILT CORRECTIONS

DECK RESURFACING WORK DESCRIPTION

QUANTITIES

ROUTE	KP	BRIDGE NAME	BRIDGE NUMBER	LENGTH	ROADWAY WIDTH	SHOULDER WIDTH		WORK REQUIRED			CLEAN BRIDGE DECK	TREAT BRIDGE DECK	FURNISH BRIDGE DECK TREATMENT MATERIAL (LOW ODOR)	REMOVE EPOXY GRIT SURFACING
						LEFT	RIGHT	REPLACE JOINT SEALS	REMOVE OVERLAY	CLEAN AND TREAT BRIDGE DECK WITH METHACRYLATE				
				(m)	(m)	(m)	(m)				(m^2)	(m^2)	(L)	(m^2)
99	19.05	Adams Ave OC	42 0203	99.092	9.754	1.219	1.219	YES	NO	~~YES~~ YES	936 ~~966~~	936 ~~966~~	414 ~~435~~	N/A
99	25.52	Central Ave OC	42 0207	84.734	9.756	1.219	1.219	NO	NO	YES	826	826	376	N/A
99	26.63	South Calwa OH	42 0208L	78.029	14.935	2.438	1.524	YES	YES	YES	1165	1165	~~530~~ 531	1165
99	26.63	South Calwa OH	42 0208R	66.446	14.935	2.438	1.524	YES	YES	YES	992	992	~~451~~ 450	992
99	35.61	Clinton Ave OC	42 0183	See General Plan				YES	NO	YES		See General Plan		
99	39.30	Nielsen Ave UC	42 0188	See General Plan				YES	YES	YES		See General Plan		

1 → As per CCO # 3

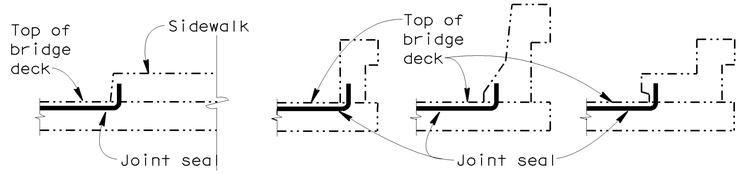


SOUTH CALWA OH

BR 42-0208L/R
NO SCALE

JOINT SEAL TABLE

BRIDGE NUMBER	LOCATION		MINIMUM "MR" (mm)	APPROXIMATE LENGTH (m)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (mm)
42 0203	Abut 1	BW	40	13.1	NO	229
	Abut 5	BW	40	13.1	NO	229
42 0208L	Abut 1	PN	30	21.7	NO	305
	Abut 5	PN	30	21.7	NO	305
42 0208R	Abut 1	PN	30	21.7	NO	305
	Abut 4	PN	30	21.7	NO	305
42 0183	Abut 1	BW	40	25.7	NO	229
	Span 3	H	40	8.8	NO	229
	Abut 3	BW	40	27.5	NO	229
42 0188	Abut 1	BW	15	~~17.9~~ 0	NO	356
	Bent 2	BW	30	56.8	NO	~~1219~~ 305
	Bent 3	B	30	~~56.8~~ 19.4	YES	203
	Bent 4	BW	30	56.8	NO	~~1219~~ 305
	Abut 5	BW	15	~~18.6~~ 0	NO	~~396~~ 305

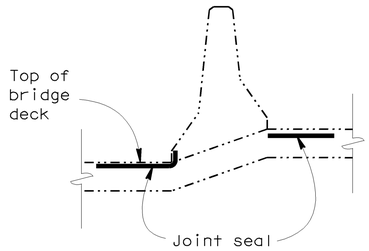


SIDEWALK — BARRIER RAIL

JOINT SEAL AT LOW SIDE OF DECK

Notes: Details shown for illustration purposes only.

For use only where deck joint matches the sidewalk, curb or barrier rail joint.



At Bridge No. 42-0188

LEGEND:
BW = Abutment backwall
PN = Paving notch
H = Hinge
B = Bent

REGISTERED PROFESSIONAL ENGINEER — MICHAEL J LEE — No. C42447 — Exp. 3-31-08 — CIVIL — STATE OF CALIFORNIA

MARK	DATE	REVISION(S) DESCRIPTIONS	DES	CHK	DET
1	8-23-07	CHANGE QUANTITIES ADAM AVE TABLE	MJL	TP	DK

REGISTERED CIVIL ENGINEER: Michael J Lee — DATE: 9-07-07

Caltrans Metric

	BY	CHECKED
DESIGN	Matt Lee	Tim Powell
DETAILS	Seth Evans	Tim Powell
QUANTITIES	Matt Lee	Tim Powell

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

CU 06244
EA 0C4101

BRIDGE NO. Varies
KILOMETER POST Various

ROUTE 99 BRIDGES (TREAT DECK)

JOINT SEAL TABLE

STRUCTURE MAINTENANCE DESIGN
GENERAL PLAN & DETAIL SHEET
(METRIC) (REV. 10/2/05)

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): ~~4-11-06~~ ~~9-27-06~~ 12-7-06

SHEET 3 OF 3

FILE => 06-0c4101_03gp3.dgn

USERNAME => bmiller DATE PLOTTED => 21-DEC-2007 TIME PLOTTED => 10:38

ClibPDF - www.fastio.com

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	19.0/39.3	10S	11

8-07-07
REGISTERED CIVIL ENGINEER

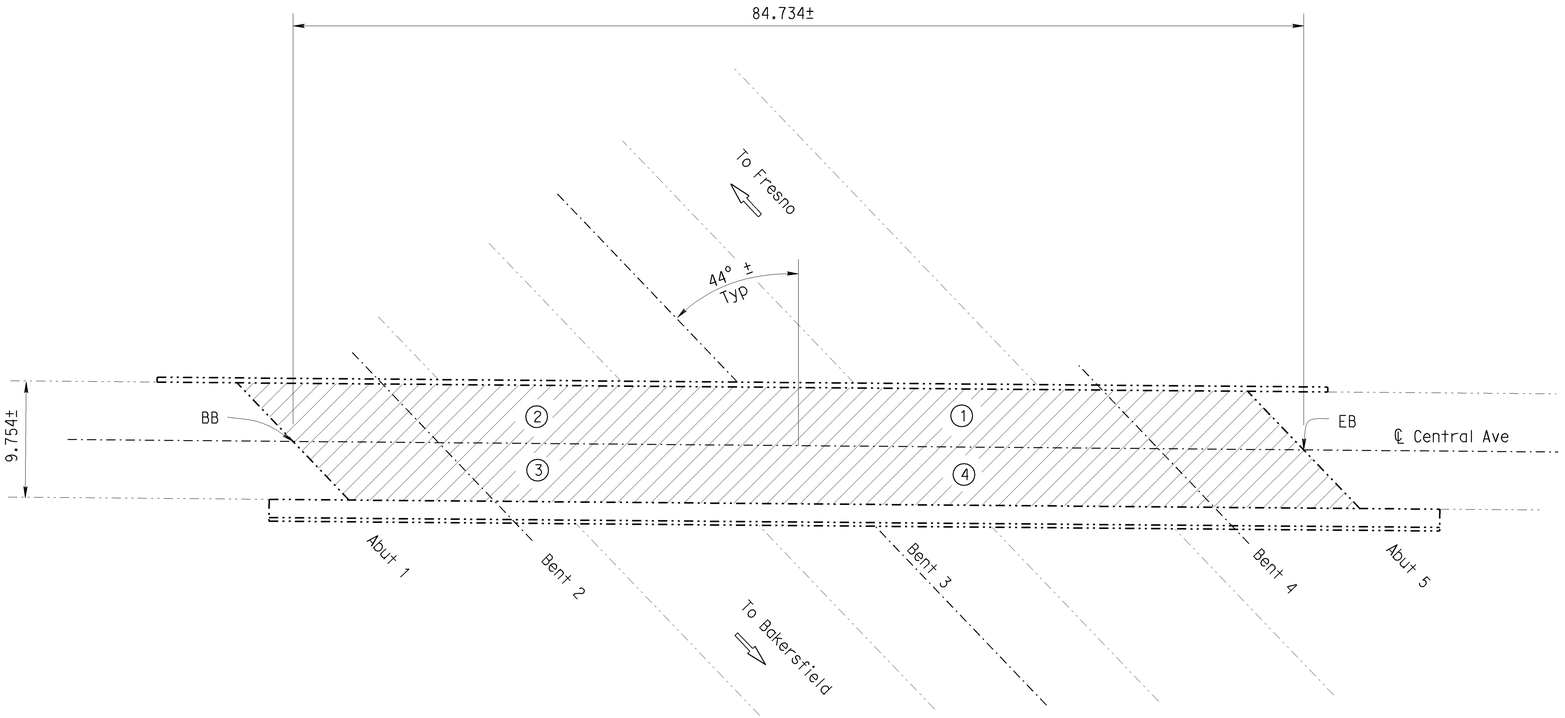
REGISTERED PROFESSIONAL ENGINEER
MATTHEW W. LEE
No. C 56698
Exp. 6-30-07
CIVIL
STATE OF CALIFORNIA

PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

The Caltrans web site is at www.dot.ca.gov

AS BUILT CORRECTIONS
CORRECTIONS TRANSFERED BY: BEM
FIELD CORRECTIONS BY: Victor Diaz
TRANSFER DATE: 12-21-2007
FIELD CORRECTION DATE: 11-15-2007
CONTRACT NO: 06-0C4104



CENTRAL AVENUE OVERCROSSING

BRIDGE NO. 42-0207, RTE. 99, KP 25.52
1:250

NOTES: (APPLY TO THIS SHEET ONLY)

Indicates limits of clean and treat existing bridge deck as designated in the "DECK TREATMENT TABLE".

Contractor shall take 3 ea 76 mm ø x 127 mm deep cores in each quardrant at locations designated by the Engineer. Fill cored holes with rapid-set concrete patch.

DECK TREATMENT TABLE

LOCATION	MANUFACTURER	MATERIAL NAME
①	UNITEX	BRIDGE SEAL CA
②	LIQUID CONCRETE	URE-KOTE R-60
③	ChemCo Systems	CCS Coating, Epoxy Healer Sealer
④	Any Manufacturer that meets the Caltrans Deck Treatment specification	Caltrans specification High Molecular Weight Methacrylate

CONTRACT CHANGE ORDER NO. 4
SHEET 1 OF 1

SUPPLEMENTAL SHEET

Caltrans Metric

Michael J. Lee
DESIGN ENGINEER
STRUCTURE MAINTENANCE DESIGN GENERAL PLAN & DETAIL SHEET (METRIC) (REV. 10/2/05)

DESIGN	BY Matt Lee	CHECKED Tim Powell
DETAILS	BY D. kish	CHECKED Tim Powell
QUANTITIES	BY Matt Lee	CHECKED Tim Powell
LAYOUT	BY D. kish	CHECKED Matt Lee
SPECIFICATIONS	BY Karla Meier	PLANS AND SPECS COMPARED Karla Meier

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

CU 06244
EA 0C4101

BRIDGE NO. Varies
KILOMETER POST Various

ROUTE 99 BRIDGES (TREAT DECK)
GENERAL PLAN NO. 2

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 8-07-07

SHEET 2 OF 3

FILE => 06-0c4101_02gp2.dgn

USERNAME => bmiller DATE PLOTTED => 21-DEC-2007 TIME PLOTTED => 09:59

ClibPDF - www.fastio.com

U-006-2(6) | P-006-2(5)

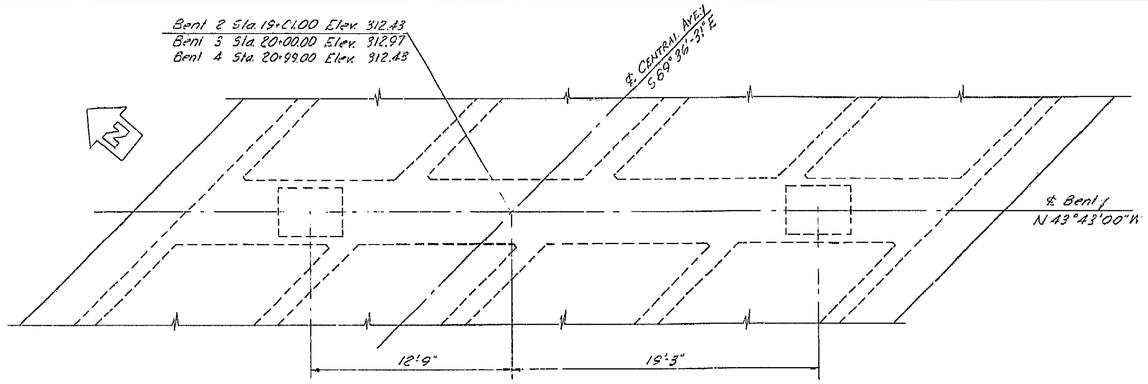
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7	CALIF.			172	424

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
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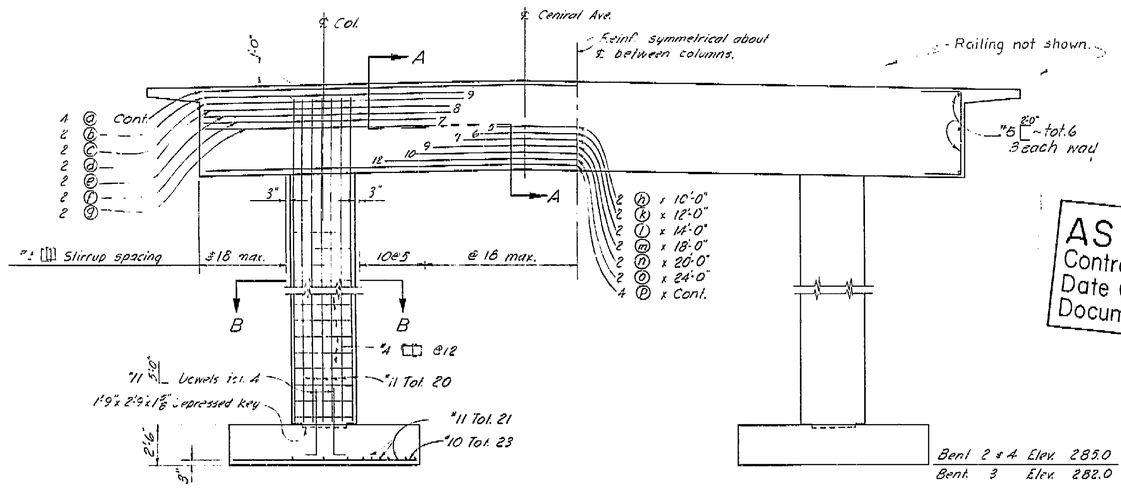
Y1 | Fre | 99

DATE APPROVED August 28, 1961

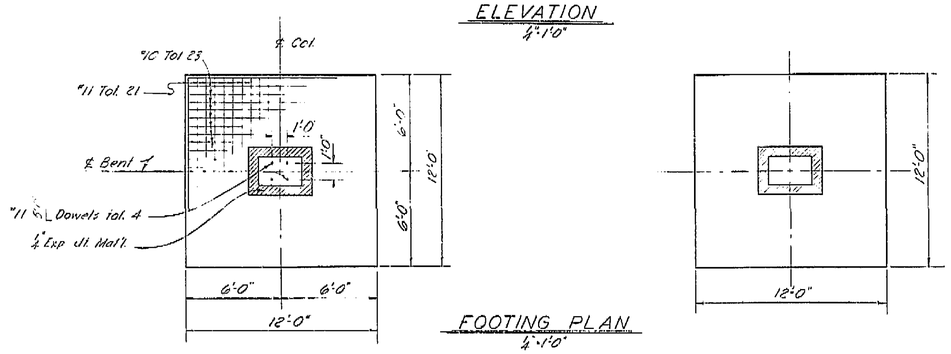
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Bent 3 Sta. 20+00.00 Elev. 312.97
Bent 4 Sta. 20+99.00 Elev. 312.43



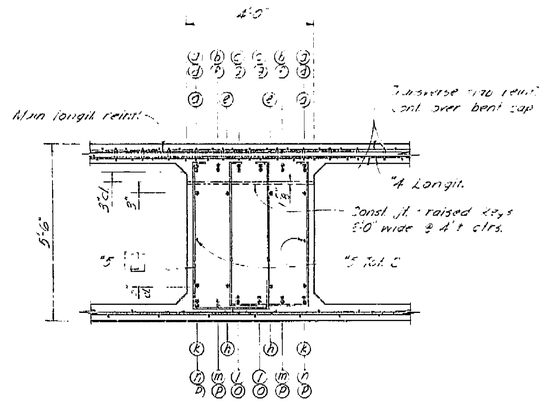
PLAN
4"=1'-0"



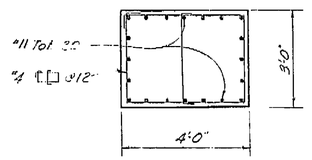
ELEVATION
4"=1'-0"



FOOTING PLAN
4"=1'-0"



SECTION A-A
½"=1'-0"



SECTION B-B
½"=1'-0"

Notes: All bars are "11 except as noted. Numbers at ends of bars indicate distance in feet from ℄ column for top reinf. or from ℄ between columns for bottom reinf.

AS BUILT PLANS
Contract No. 62-671363
Date Completed
Document No. 60001062

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer E. C. Lee
Chief Designer W. O. Overaa

DESIGN	By E.C. Lee 7/60	Checked W. A. Anderson 7/60
DETAILS	By Y. Nakayama 7/60	Checked W. A. Anderson 7/60
QUANTITIES	By E. C. Lee 8/60	Checked A. R. Pearson 9/60
SPECIFICATIONS	By	Plans and Revs. Completed

Approval Recommended by [signature] Chief Bridge Engineer, Office of Design — Civil and Structural Engineering Div. — 5458 831

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CENTRAL AVENUE OVERCROSSING

BENT DETAILS

SCALE: As Noted | BRIDGE 42-207 | FILE | DRAWING C-61.4-5

Disregard prints bearing earlier numbers → PREL. DRAWING No. P-673d | 8 | 14 | 24 | 6/61

172

409

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-12-72 SIGNATURE [signature] TITLE [illegible]

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SCALE 1"= 50'
SCALE 1"= 20'
ClibPDF - www.fastio.com

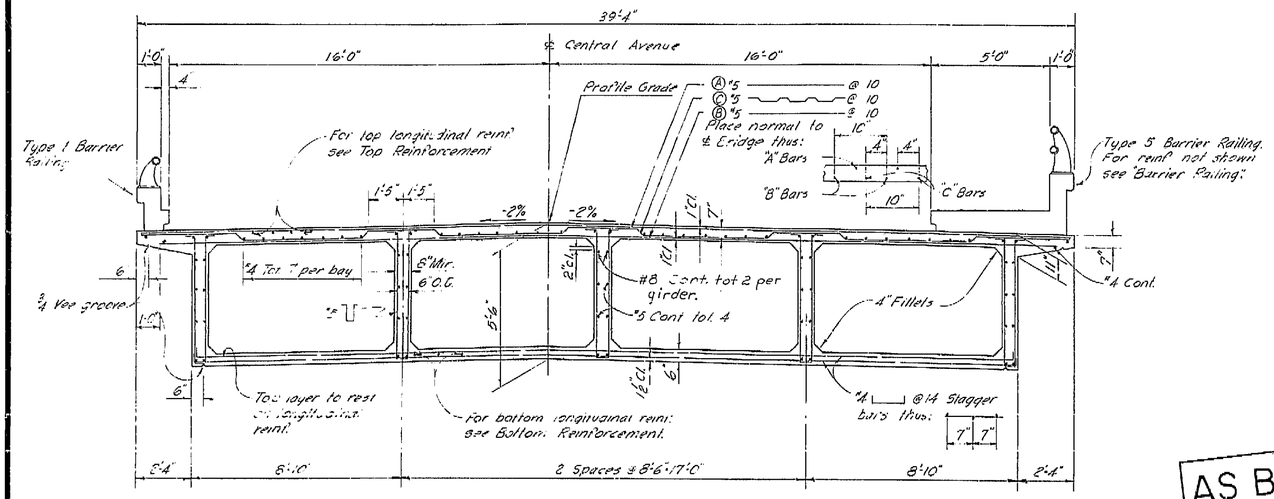
U-006-2(6) F-006-2(5)

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7	CALIF.		173	424

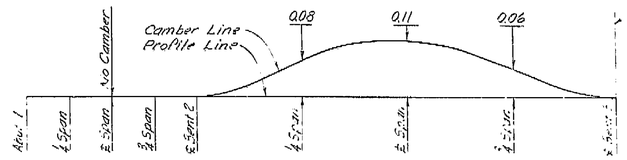
VI Fre 99

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	Fre	99			172

DATE APPROVED August 28, 1961

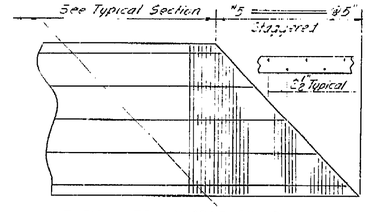


TYPICAL SECTION
3/8" = 1'-0"

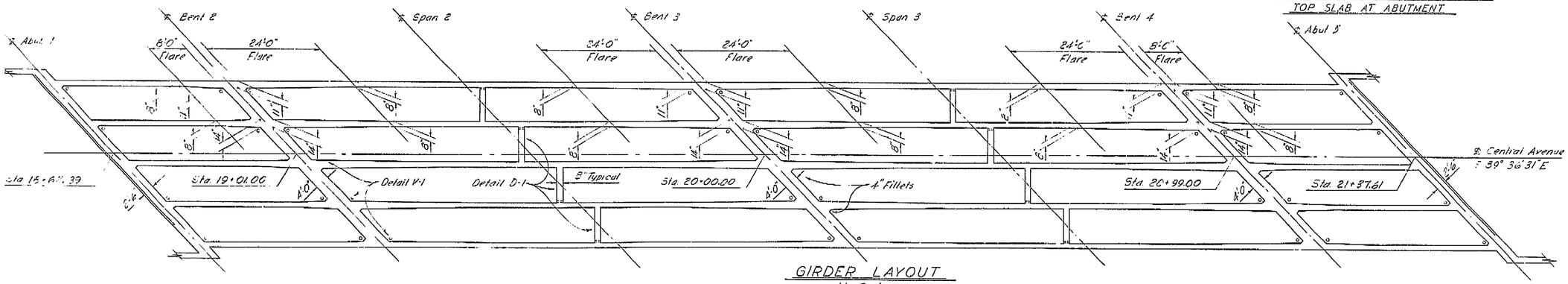


CAMBER DIAGRAM
No Scale
(Total girder deflection due to dead loads)

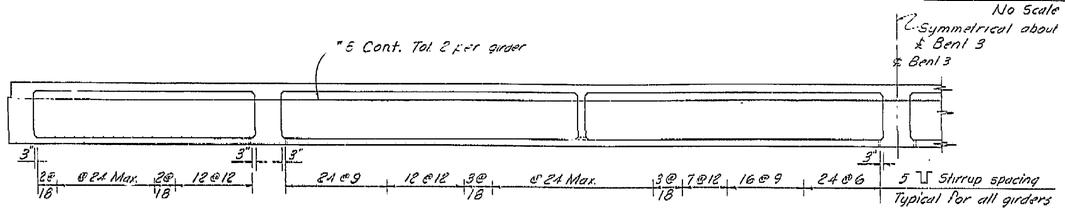
Notes:
The total deflection will be reached about 4 years after falsework removal. For values at time of falsework removal divide those shown by 4. The amount of camber for construction will be determined by the Engineer.



TYPICAL TRANSVERSE REINFORCEMENT
TOP SLAB AT ABUTMENT



GIRDER LAYOUT
No Scale



LONGITUDINAL SECTION
No Scale

AS BUILT PLANS
Contract No. 62-6T1363
Date Completed
Document No. 60001062

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer
Chief Designer

DESIGN	By	Checked	
DETAILS	By	Checked	
QUANTITIES	By	Checked	
SPECIFICATIONS	By	Plans and Specs Compared	

Approval Recommended by ____ Chief Engr. Licensed No. 5439

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CENTRAL AVENUE OVERCROSSING

TYPICAL SECTION & GIRDER LAYOUT

SCALE: As Noted | BRIDGE 42-207 | FILE | DRAWING C-6734-B

Disregard prints bearing earlier numbers → PREL. DRAWING No. P-6734 2 N N 25

405

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-11-72 SIGNATURE ____ TITLE ____

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"= 50' SCALE 1"= 50' SCALE 1"= 20' SCALE 1"= 20'
ClibPDF - www.fastio.com

U-006-2(4) F-006-2(5)

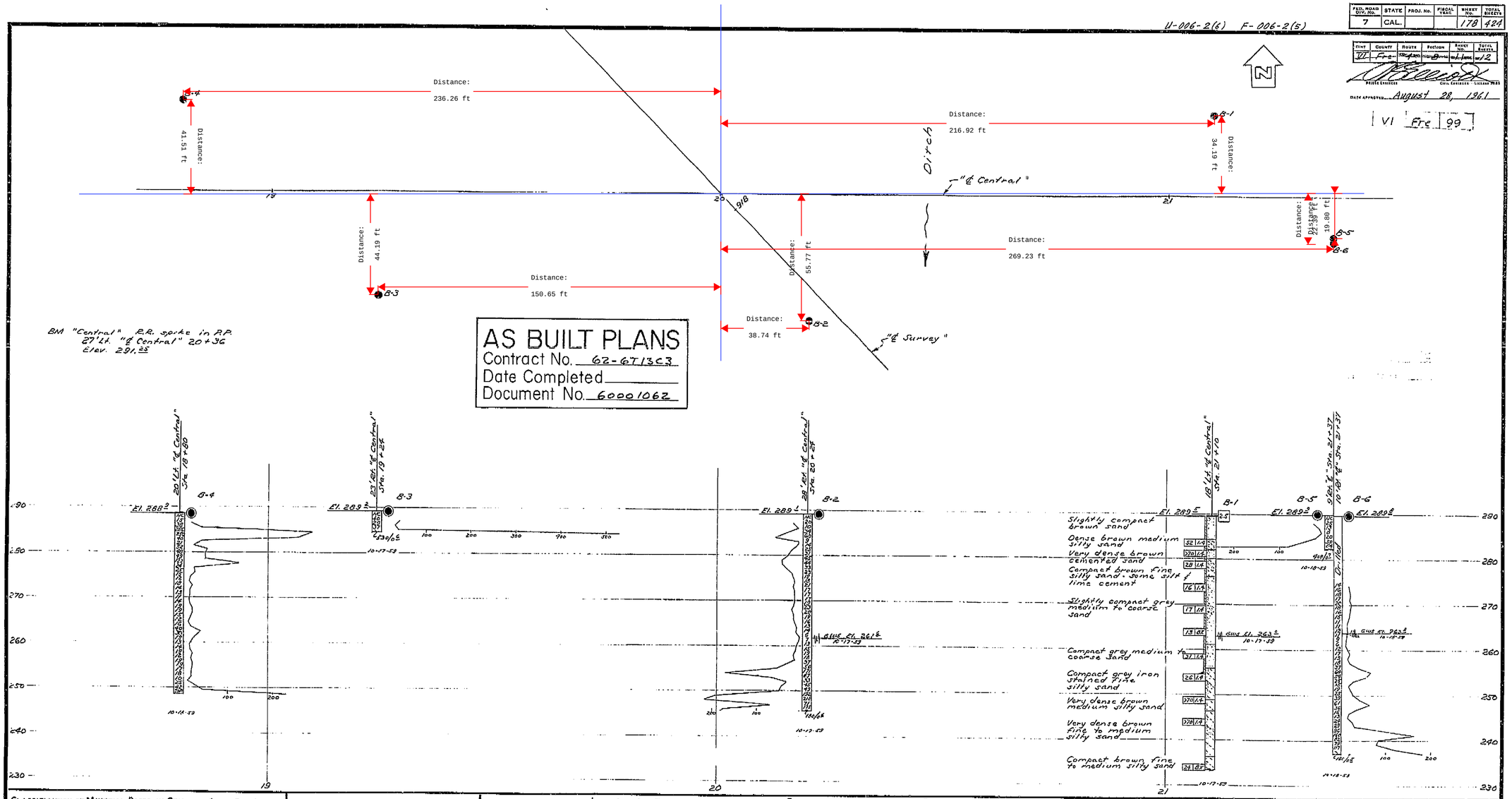
FED. ROAD DIV. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
7	CAL.			178	424

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	Fre	[illegible]	[illegible]	[illegible]	12

BRIDGE ENGINEER — CIVIL ENGINEER - LICENSE No.

DATE APPROVED August 28, 1961

VI Fre 99



AS BUILT PLANS
Contract No. 62-671363
Date Completed
Document No. 60001062

FIELD STUDY	N. E. Hoover
DRAWN	N. M. Hoover 11-18-59
CHECKED	N. E. Hoover 11-19-59

Approved Recommended by: [illegible] Bridge Engineer
[illegible] Civil Engineer - License No.

CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS

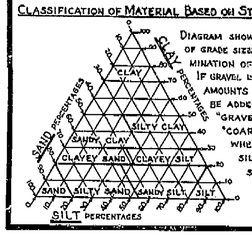


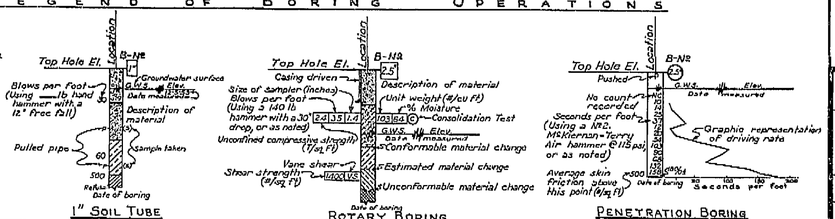
DIAGRAM SHOWING THE BASIS FOR ESTIMATES OF GRADE SIZE DISTRIBUTION USED IN DETERMINATION OF CLASS NAMES. IF GRAVEL IS PRESENT IN APPRECIABLE AMOUNTS THE TERM "GRAVELLY" MAY BE ADDED TO THE CLASS NAME, VIZ. "GRAVELLY SAND." THE TERMS "COARSE", "MEDIUM" AND "FINE" WHEN USED TO DESCRIBE SAND, SILT AND GRAVEL REFER TO STANDARD GRADE SIZE LIMITS.

LEGEND OF EARTH MATERIALS

- GRAVEL
- SAND
- SILT
- CLAY
- SANDY CLAY OR CLAYEY SAND
- SANDY SILT OR SILTY SAND
- SILTY CLAY OR CLAYEY SILT
- PEAT AND/OR ORGANIC MATTER
- FILL MATERIAL
- IGNEOUS ROCK
- SEDIMENTARY ROCK
- METAMORPHIC ROCK

LEGEND OF BORING OPERATIONS

- PLAN OF ANY BORING
- PEN PENETROMETER
- 2½" CONE PENETROMETER
- SAMP SAMPLER BORING (DRY)
- ROTA ROTARY BORING (WET)
- AUGE AUGER BORING (DRY)
- JET JET BORING
- CORE CORE BORING
- TEST PIT



NOTES

Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CENTRAL AVENUE OVERCROSSING

LOG OF TEST BORINGS

SCALE	BRIDGE	FILE	DRAWING
1" = 10'	42-207	6-42	C 6734-11

178

PR-6734-6

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

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SCALE 1" = 50' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1" = 50' SCALE 1" = 20' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1" = 20'

U-006-2(6) F-006-2(5)

FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.		168	424

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	FRE				

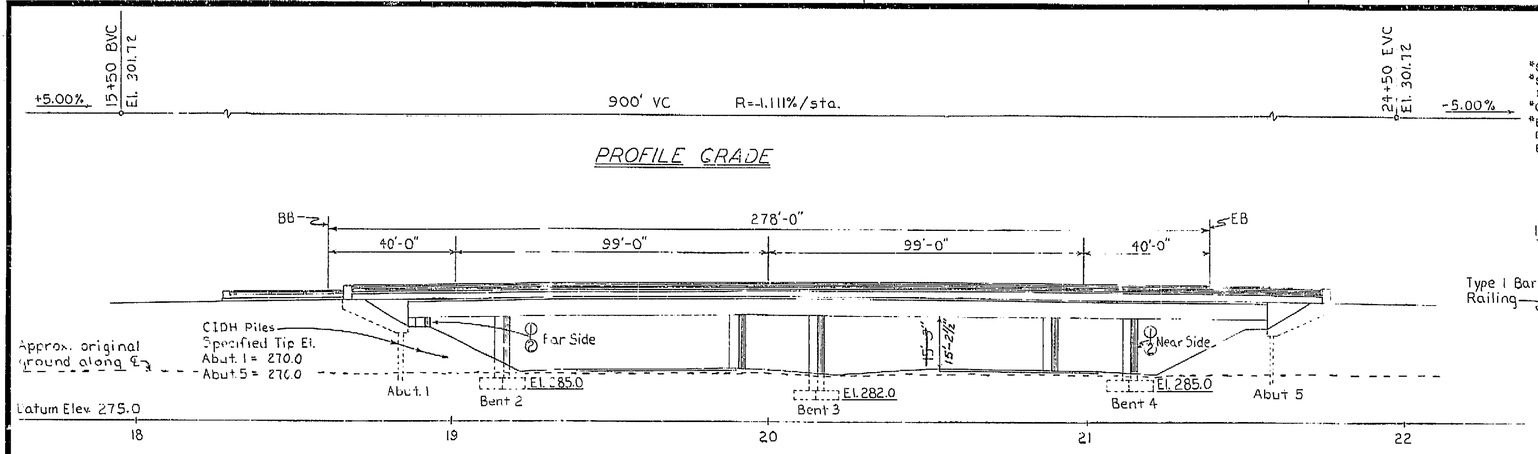
APPROXIMATE QUANTITIES P.M. 15.9

*STRUCTURE EXCAVATION (BRIDGE)	410 C.Y.
*STRUCTURE BACKFILL (BRIDGE)	200 C.Y.
16" C.I.D.H. CONCRETE PILING	505 L.F.
*CLASS "A" CONCRETE (BRIDGE)	950 C.Y.
*BAR REINFORCING STEEL (BRIDGE)	256,000 LBS.
BARRIER RAILING (TYPE 1)	315 L.F.
BARRIER RAILING (TYPE 5)	315 L.F.

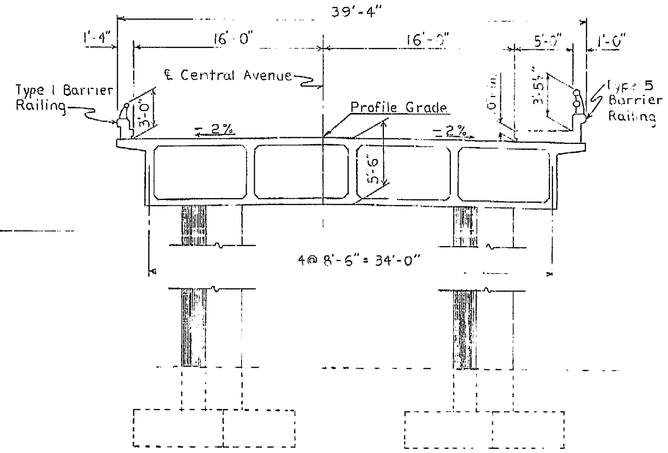
*FINAL QUANTITIES

August 28, 1961

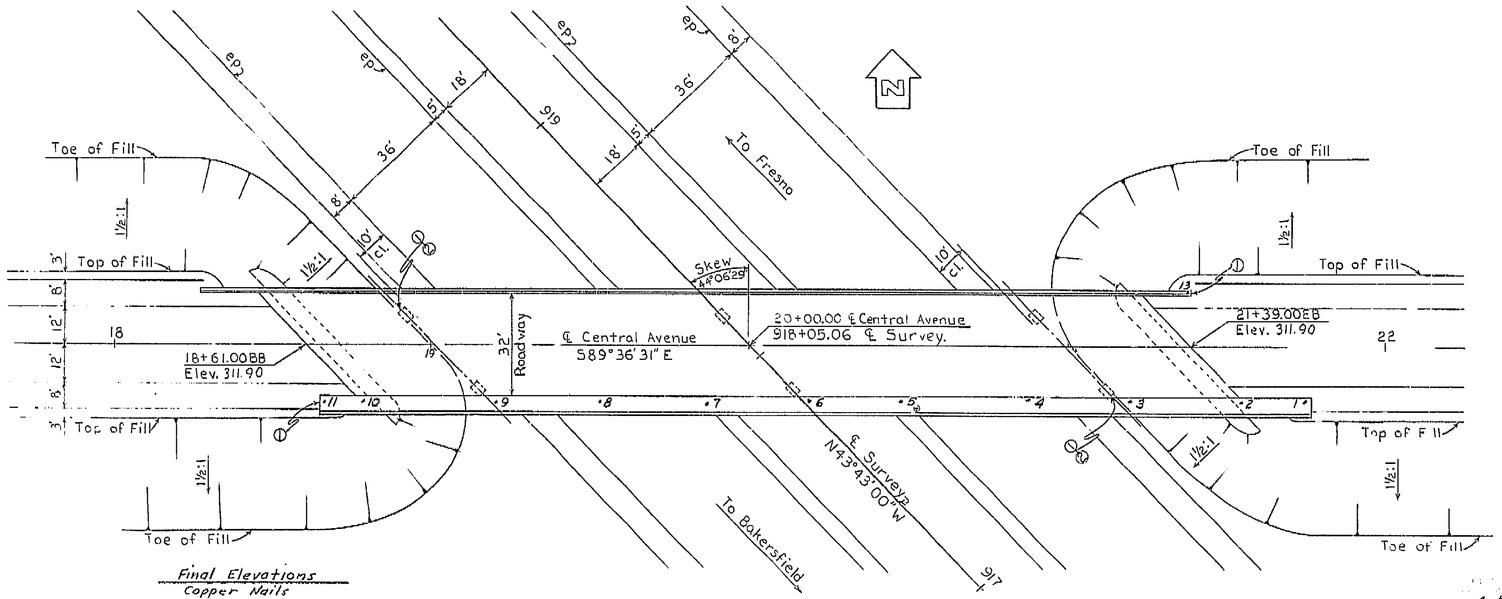
VI Fre 99



PROFILE GRADE



TYPICAL SECTION
3/16"=1'-0"



PLAN

Final Elevations
Copper Nails

1.	311.724	8.	313.349
2.	312.192	9.	313.108
3.	313.639	10.	312.262
4.	313.027	11.	312.397
5.	313.292	12.	314.040
6.	313.406	13.	314.561
7.	313.427		

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

① Indicates location for painting Bridge Number and year of construction.
② Indicates location for painting "Central Avenue OC".
⊕ Indicates location of minimum Vertical Clearance.

Live Loading: H20-S16-44 & Alternative.

INDEX TO PLANS

SHEET NO.	TITLE
1	General Plan
2.	10' Grid of Deck Elevations
3	Foundation Plan
4	Abutment Details
5.	Bent Details
6	Typical Section & Girder Layout
7	Girder Reinforcement
8.	Standard Details No. 1
9	Barrier Railing Sheet 1
10.	Barrier Railing Sheet 2
11.	Log of Test Borings
12	Lighting Plan

Note: Route change (VI-FRE-99)

Contract No. 62-6T13C3-F

4-5-63 J.W. Beck DJL 11-19-63

For General Notes see "Foundation Plan".

BRIDGE DEPARTMENT			
DESIGN SECTION 2			
Project Designer			
Chief Designer			
DESIGN	By RR	Ch.	Date 1/60
DETAILS	By KR	Checked	Date
QUANTITIES	By	Checked	Date
SPECIFICATIONS	By	Checked	Date
Approval Recommended by		Civil Engr. License No.	Date

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CENTRAL AVENUE OVERCROSSING
LOCATED ABOUT 3.1 MILES SOUTH OF THE SOUTH CITY LIMIT OF FRESNO

GENERAL PLAN

Except As Noted | SCALE 1"=20' | BRIDGE 42-207 | FILE | DRAWING C-6734-1 1

Disregard prints bearing earlier numbers → PREL. DRAWING No. P- 61-14 12 18 20 400

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-12 SIGNATURE TITLE

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MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"= 50' 0 100 200 300 400 500
SCALE 1"= 50' 600 700
SCALE 1"= 20' 0 50 100
MICROFILM STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"= 20' 100 150 200
SCALE 1"= 20' 50 300

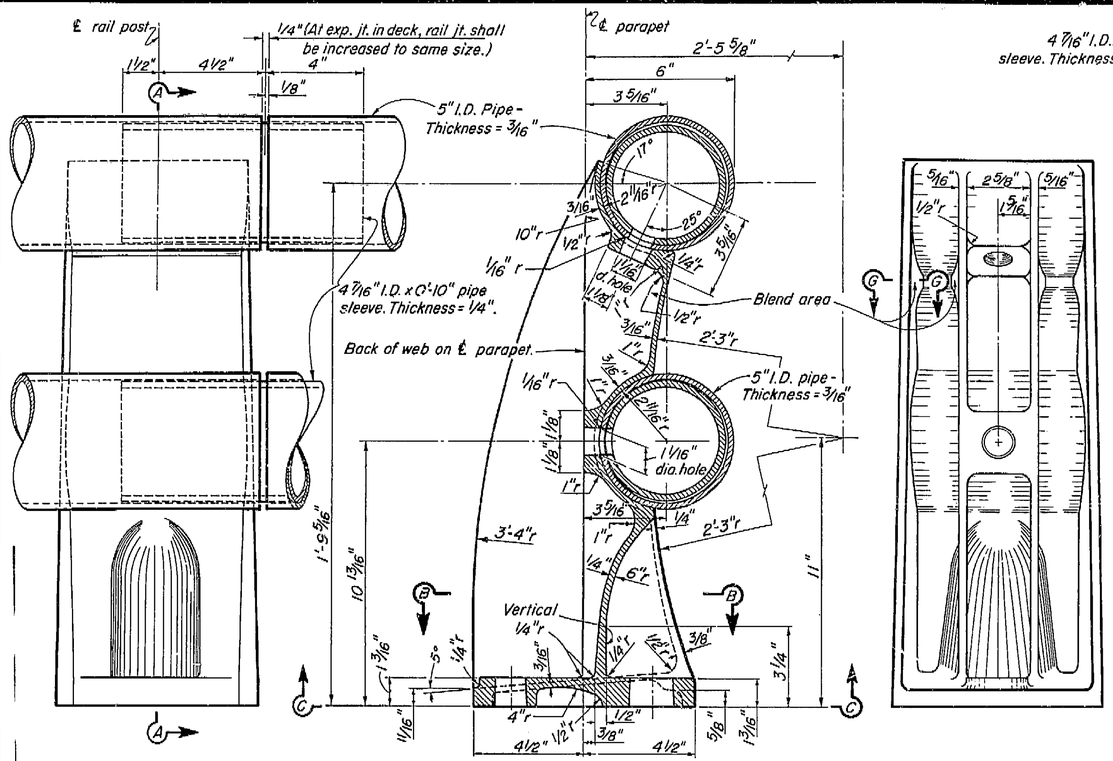
"Added ½"r at section A-A & D-D" ted 2¾" long dim. "Rail Connection" del. 60 RTK

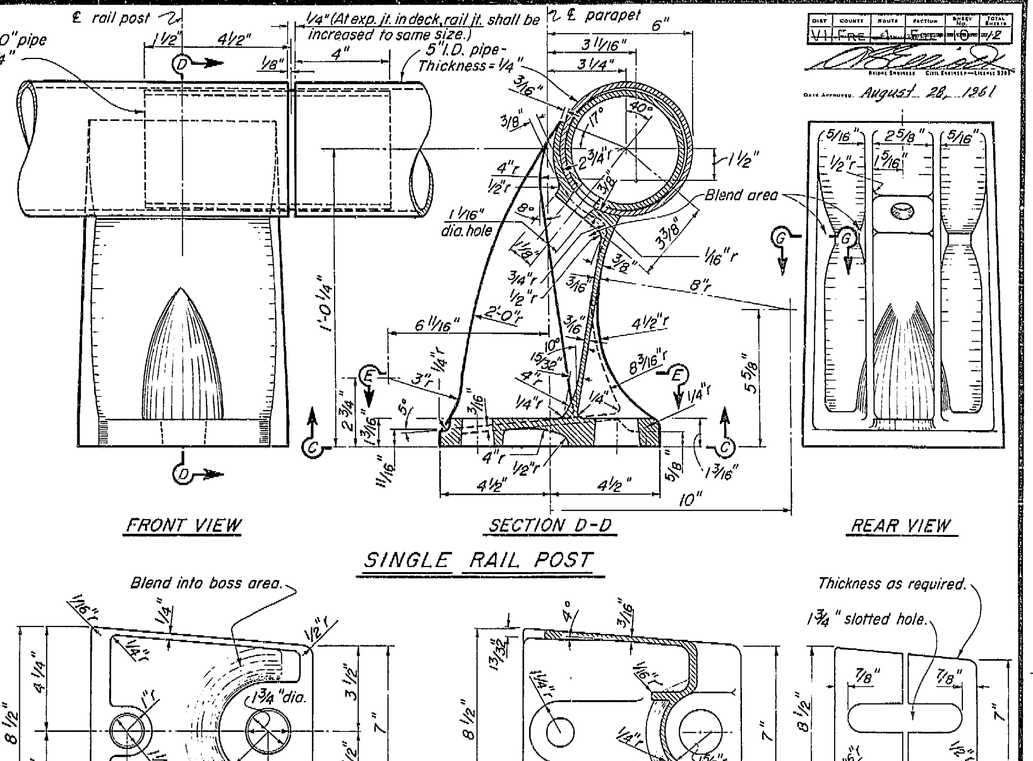
U-006-2(6) F-006-2(5)

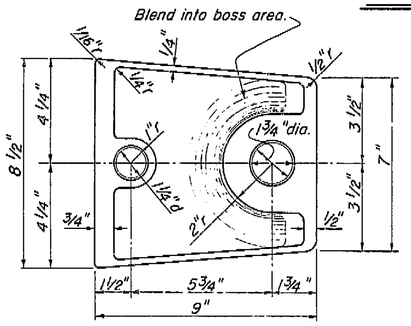
DIST	COUNTY	ROUTE	SECTION	SHEET NO	TOTAL SHEETS
VII	Fre	99			

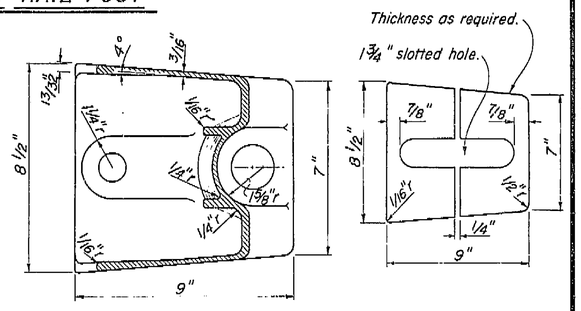
FED. ROAD DIV NO	STATE	F. A. PROJECT NO	SHEET NO	TOTAL SHEETS
7	CALIF.		177	424

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 6000062

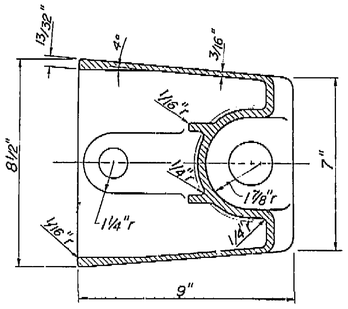




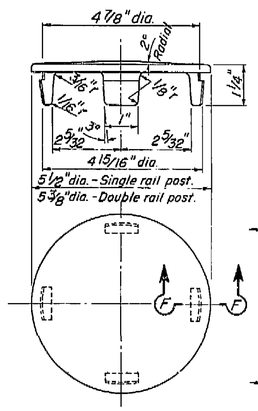




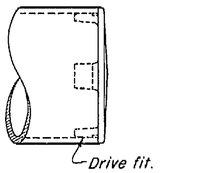
SHIM DETAIL
1/4" = 1'-0"

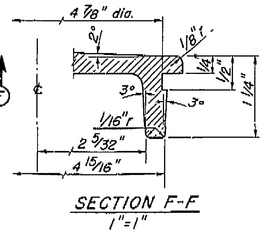


SECTION B-B

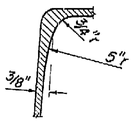


RAIL CAP
1/2" = 1"

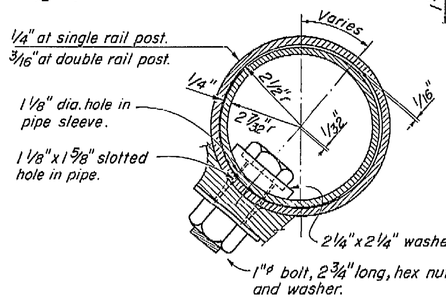




SECTION F-F
1"=1"



SECTION G-G
1/2" = 1'



RAIL CONNECTION
1/2" = 1"

Notes:

1. At the option of the contractor, material for the railing shall be one of the following:
   a. Aluminum pipe rail and cast aluminum post.
   b. Steel pipe rail and cast steel post. Rail and posts to be galvanized. Steel pipe rail shall be 3/16" thick with 5" I.D.. Rail post dimensions shall be revised as necessary to fit the steel pipe.
2. Shims are to be of asbestos sheet packing.
3. For railing on a horizontal curve the pipe rail shall be bent to the curve or the spacing of posts adjusted so that the middle ordinate between posts will not exceed 1".

THIS SHEET OF PLANS HAS BEEN [illegible] TO THE AS NOTED [illegible] AS SUPPLEMENTED [illegible] CONNECTED WITH [illegible]

BRIDGE DEPARTMENT		
DESIGN SECTION 2		
Section Supervisor	N J Gutierrez	
DESIGN	By R N Arnuska	12-60
	Checked M E Eidam	12-60
DETAILS	By R N Arnuska	12-60
	Checked M E Eidam	12-60
QUANTITIES	By C H B	
	Checked D R M	

11/60

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CENTRAL AVENUE OVERCROSSING

BARRIER RAILING SHEET 2

Except as noted
SCALE 3/8" = 1"

BRIDGE 12-207 | XS-9-71 FILE | DRAWING C-6734-10

Disregard prints bearing earlier numbers → PREL. DRAWING No. P-6734 29

419

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

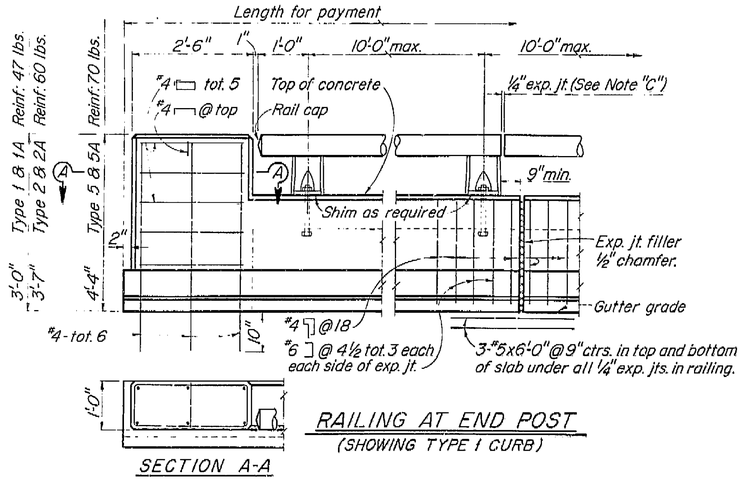
MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"= 50'
SCALE 1"= 20'
ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
7	CALIF.		176	424

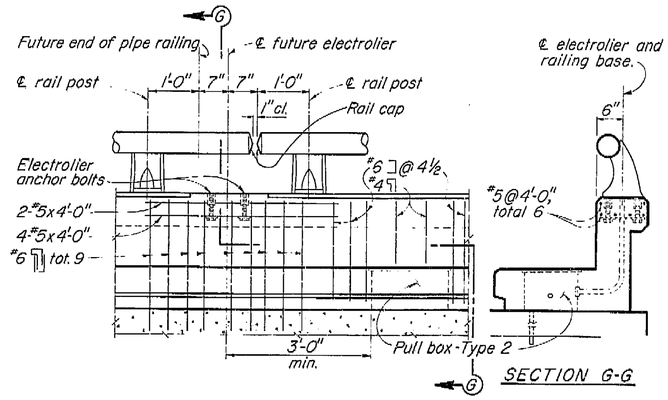
U-006-2(6) F-006-2(5)

VI Fre 99

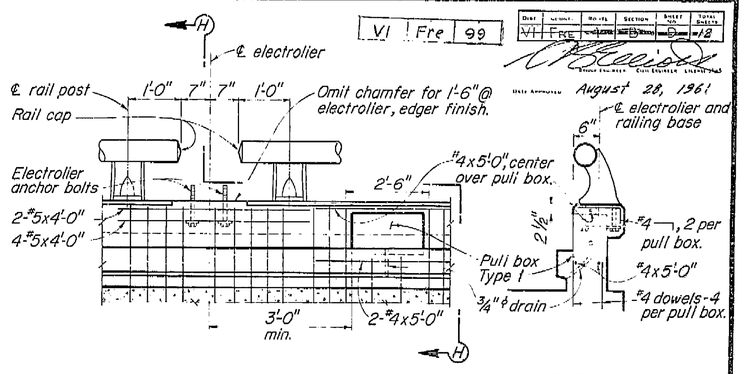
August 28, 1961



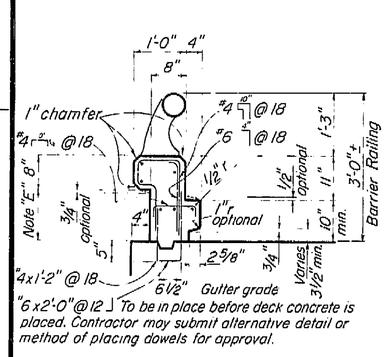
RAILING AT END POST
(SHOWING TYPE 1 CURB)



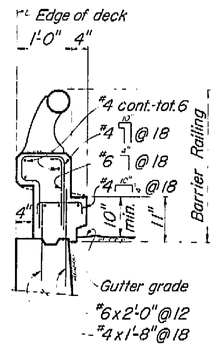
RAILING CLOSURE AT ELECTROLIER
(SHOWING TYPE 2 CURB)



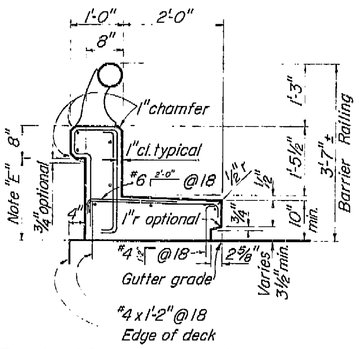
RAILING AT ELECTROLIER
(SHOWING TYPE 1 CURB)



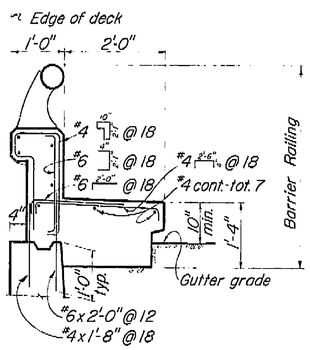
TYPE 1
Conc. 1.61 cu.ft./lin.ft.
Reinf. 11.8 lbs./lin.ft.



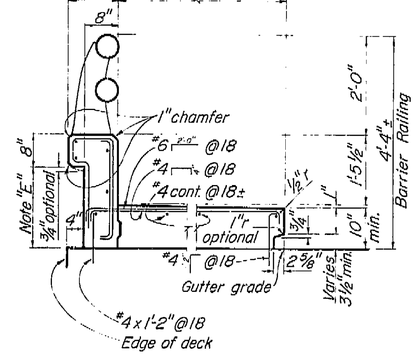
TYPE 1A
Conc. 1.61 cu.ft./lin.ft.
Reinf. 12.0 lbs./lin.ft.



TYPE 2
Conc. 3.43 cu.ft./lin.ft.
Reinf. 14.7 lbs./lin.ft.

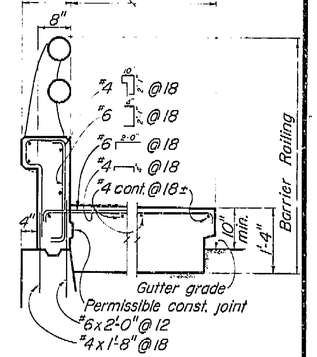


TYPE 2A
Conc. 4.30 cu.ft./lin.ft.
Reinf. 17.3 lbs./lin.ft.



TYPE 5

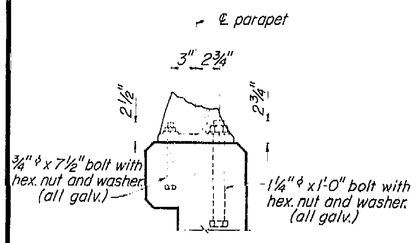
Conc. 6.10 cu.ft./lin.ft.	For 5'-0" width	Conc. 8.35 cu.ft./lin.ft.
Reinf. 17.2 lbs./lin.ft.		Reinf. 19.7 lbs./lin.ft.
Conc. 0.84 cu.ft./lin.ft.	Per additional ft.(width)	Conc. 1.34 cu.ft./lin.ft.
Reinf. 2.1 lbs./lin.ft.		Reinf. 2.1 lbs./lin.ft.



TYPE 5A

Note: Type 1A and 2A are similar to Type 1 and 2 except as noted.

TYPICAL CURB AND RAIL SECTIONS



RAIL POST ANCHOR BOLT DETAIL
Scale: 1½"=1'-0"

Note:
A. Railing shall conform to horizontal and vertical alignment.
B. Posts shall be normal to railing.
C. Curb and wall exp. jts. to be located at all deck joints, at ℄ piers or bents and at uniform spacing (40' max.) between those specified. Joint size to be ¼" min. and increased to match deck joints.
D. Construct 3" deep x 12" wide overflow scupper 2" above deck at low points in grade.
E. Dimension will vary with cross-slope of deck.
F. Walls are to be backfilled before railing is placed.
G. Clearance to reinforcing steel in curb and railing to be 1".

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

BRIDGE DEPARTMENT DESIGN SECTION		10/60	STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS
Section Supervisor: M.M. Jantzen		CENTRAL AVENUE OVERCROSSING	
DESIGN	By R.N. Amioka 12/60		
	Checked M.M. Kirkham 1/60	BARRIER RAILING SHEET 1	
DETAILS	By R.N. Amioka 12/60		
	Checked M.M. Kirkham 1/60		
QUANTITIES	By C.B.		
	Checked D.R.M.		

Except as noted | SCALE 3/4"=1'-0" | BRIDGE 42-207 | XS-9-63 FILE | DRAWING C-6734-9

Disregard prints bearing earlier numbers → PREL. DRAWING NO. P-6734 28

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"= 50' 0 100 200 300 400 500 600 700
SCALE 1"= 20' 0 50 100 200 50 300
ClibPDF - www.fastio.com

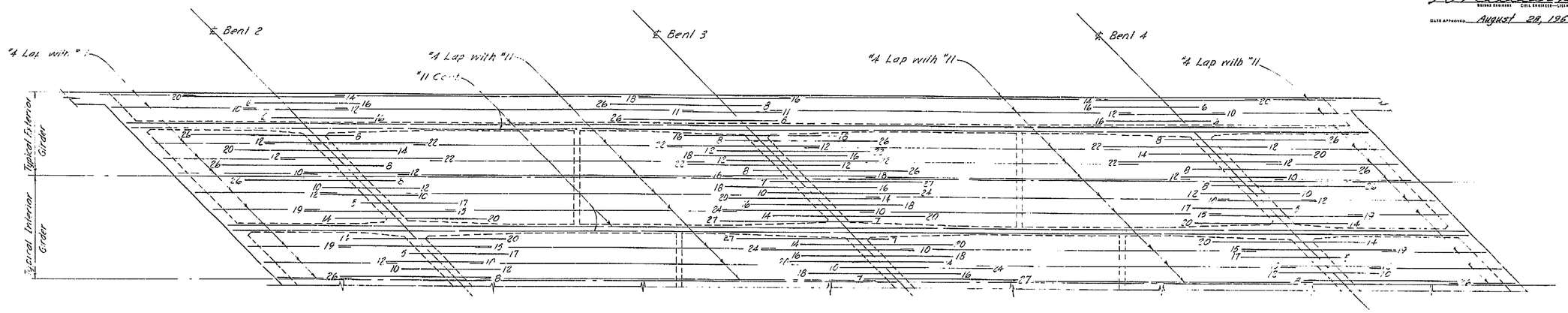
FED. ROAD DIS. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			174	424

U-006-2-(6) F-006-2(5)

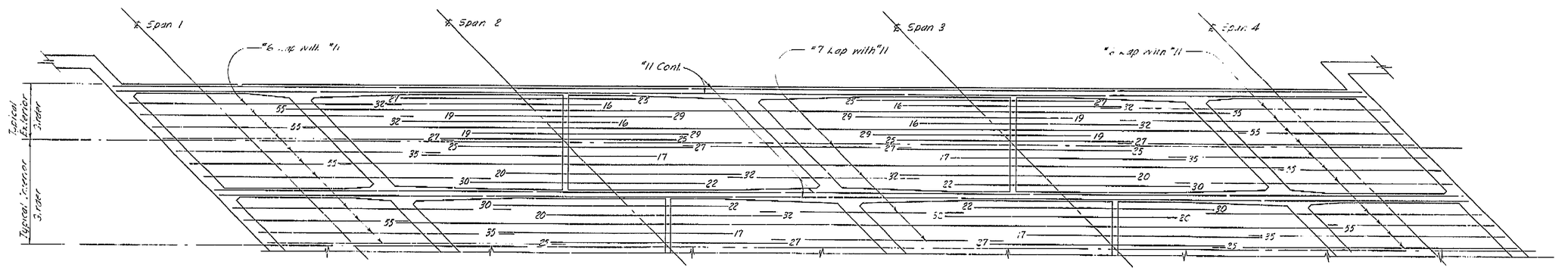
DIST.	COUNTY	ROUTE	REVISION	SHEET NO.	TOTAL SHEETS
VI	Fre	99		12	

VI Fre 99

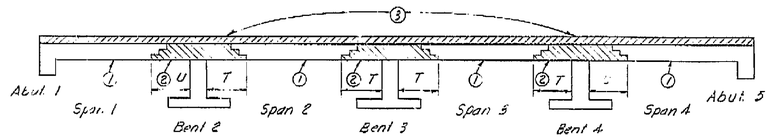
DATE APPROVED August 28, 1961



TOP REINFORCEMENT



BOTTOM REINFORCEMENT



BOX GIRDER SUPERSTRUCTURE PLACING DIAGRAM

Numbers ① and ② indicate sequence of placing bottom slab and girder stem concrete. ② may be placed simultaneously with ① when approved by the Engineer, and provided that the T sections are placed in adjoining spans.

Top concrete ③ shall be placed separately from ① and ②. ③ may be placed continuously or in parts as approved by the Engineer, however the only joints permitted shall be located within 2'-0" of the girder joints between ① and ②.

T = ⅕ Span length

U = ¼ Span length

For any deviation from the above the Contractor shall submit a diagram to the Engineer.

Note: All bars are "11 except as noted. Numbers at ends of bars indicate distance in feet from ℄ Bent for Top Reinforcement or from ℄ Span for Bottom Reinforcement.

No splicing of "11 bars permitted near ℄ Bent in Top Reinforcement or near ℄ Span in Bottom Reinforcement.

AS BUILT PLANS
Contract No. 62-GT13C3
Date Completed
Document No. 60001062

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer
Chief Designer

DESIGN	By R. H. Ono	2/60	Checked N. Nakami 4-60
DETAILS	By Y. Nakayama 3/60		Checked N. Nakami 4-60
QUANTITIES	By C. Bell	3/60	Checked A. Nelson 5-60
SPECIFICATIONS	By		Checked and Approved

Approved Recommended by Bridge Engineer
Civil and Structural Engr. License No. 6833

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CENTRAL AVENUE OVERCROSSING

GIRDER REINFORCEMENT

SCALE None | BRIDGE 42-207 | FILE | DRAWING C-6734-7

Disregard prints bearing earlier numbers

PREL. DRAWING No. P- 5734 X 18 42 26

406

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE SIGNATURE TITLE

ClibPDF - www.fastio.com

SCALE 1"= 50' 0 100 200 MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM 300 400 500 600 SCALE 1"= 50' 0 50 100 SCALE 1"= 20' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM 100 200 SCALE 1"= 20' 300

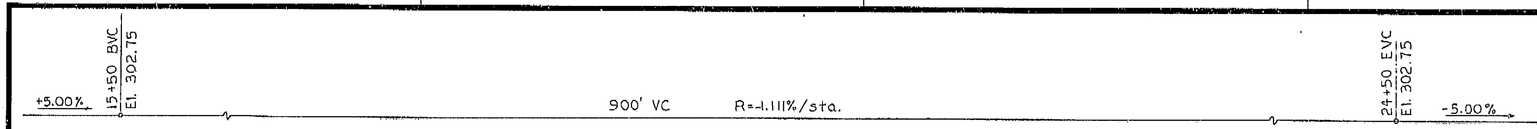
U-006-2(6) F-006-2(5)

FED. ROAD DIV. No.	STATE	F. A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.		179	424

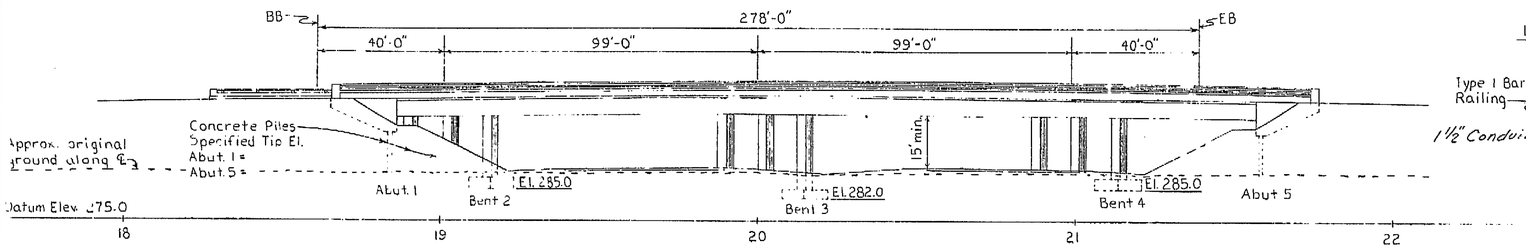
DIST.	COUNTY	ROUTE	SECTION	BRIDGE NO.	TOTAL SHEETS
VI	FRE	99	B	42-207	2

DISTRICT ENGINEER

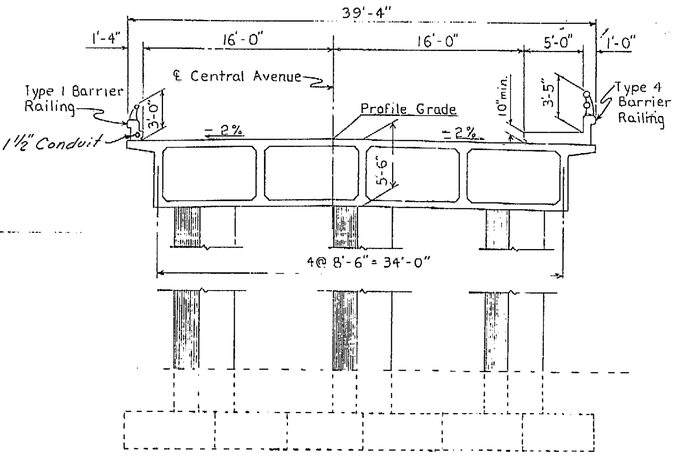
DATE APPROVED August 28, 1961



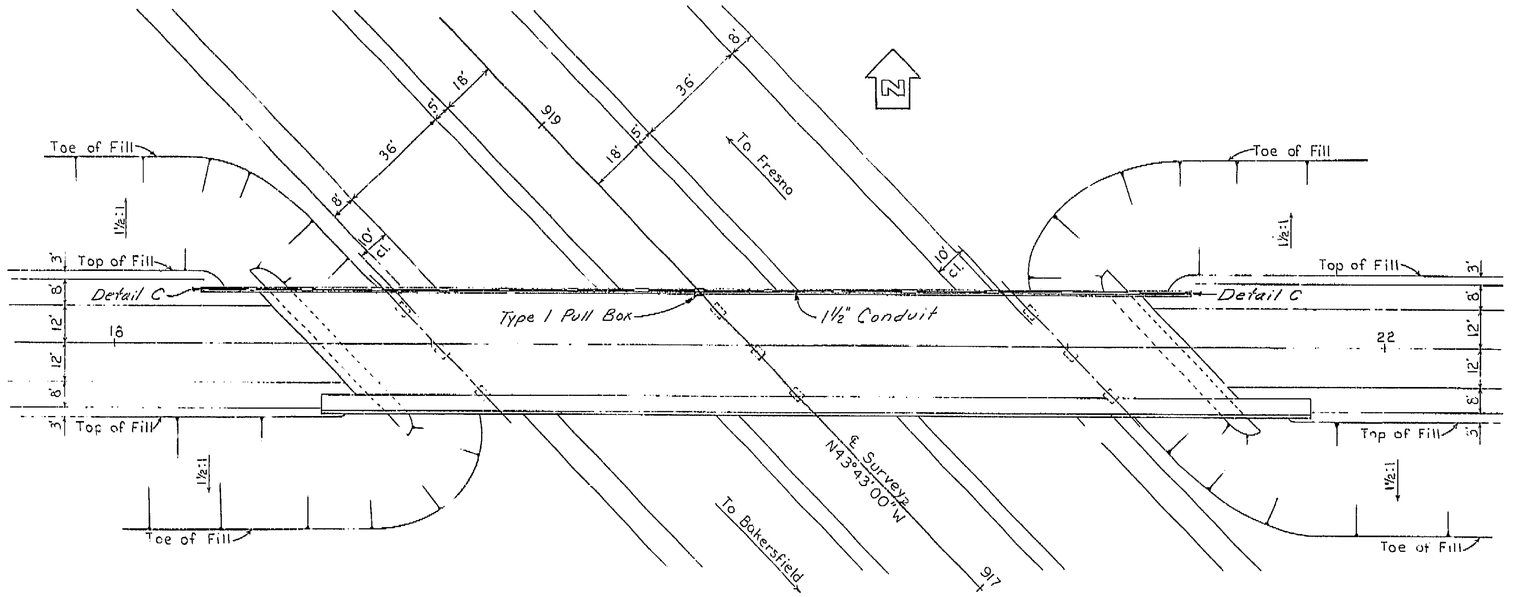
PROFILE GRADE



ELEVATION



TYPICAL SECTION
3/16"=1'-0"



Note: This plan accurate for highway lighting only.

For additional notes see Sheet No. ES-7-4

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

PLAN

179

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL RECOMMENDED BY	DATE
C. E. Schabel	4/61	E. D. Taylor	4/61		8/61

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer Earl E. Taylor
Chief Designer

DESIGN	W. R. Ramsha 1/60	Checked
DETAILS	W. R. Ramsha 1/60	Checked
QUANTITIES	By	Checked
ELECTRICAL	By	Plans and Estimate Complete

Approval Recommended by _____ Engineer of Bridges — Full Regr. License No. 8438

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CENTRAL AVENUE OVERCROSSING
LOCATED ABOUT 3.1 MILES SOUTH
OF THE SOUTH CITY LIMIT OF FRESNO

LIGHTING PLAN

Except As Noted SCALE 1"=20'	BRIDGE 42-207	FILE	DRAWING

Disregard prints bearing earlier numbers → PREL. DRAWING No. P. 6734 | 1

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

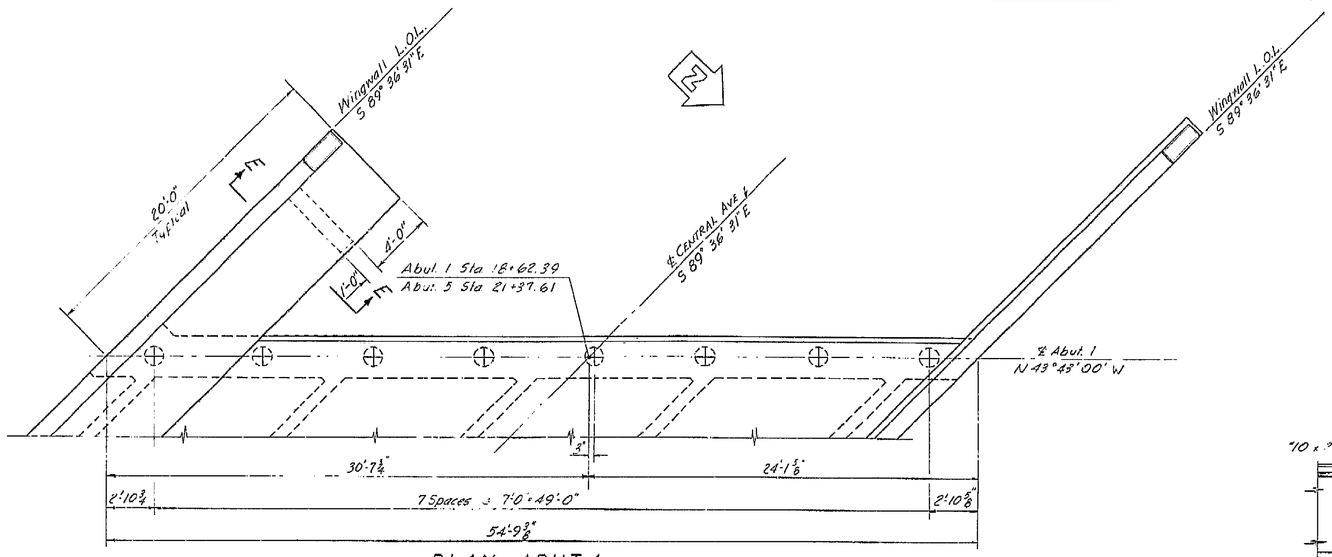
MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50'
SCALE 1" = 20'
ClibPDF - www.fastio.com

U-006-2(6) F-006-2(5)

FED. ROAD NOV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			171	424

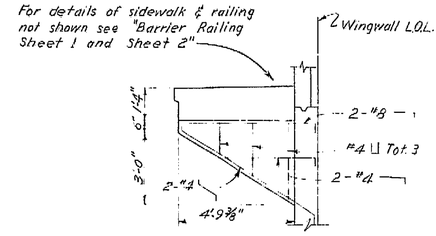
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	99			

DATE APPROVED August 28, 1961

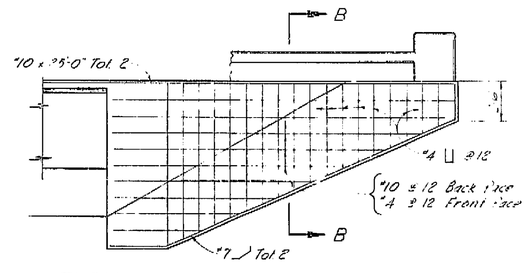


PLAN ABUT 1
¼"=1'-0"
Abut. 1 shown, Abut. 5 similar

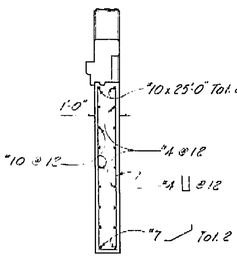
Note: For pile details see "Foundation Plan."

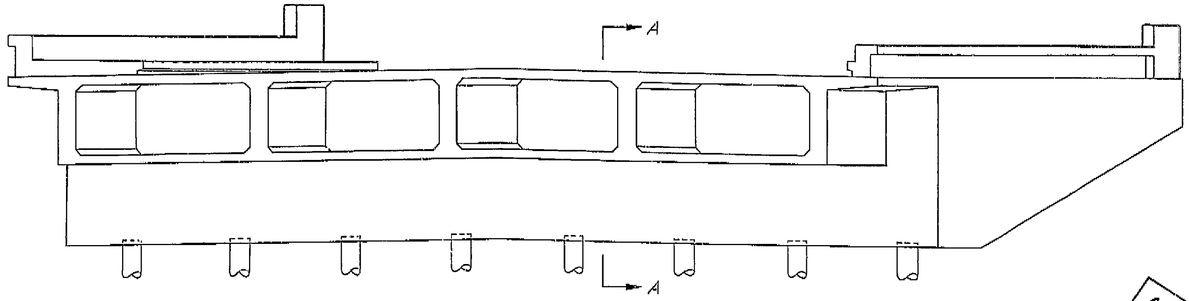


SECTION E-E
⅜"=1'-0"

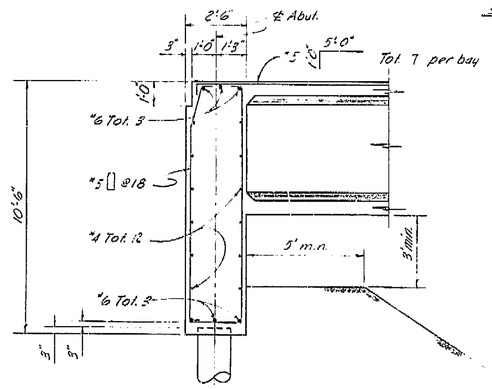


TYPICAL WINGWALL ELEVATION
¼"=1'-0"



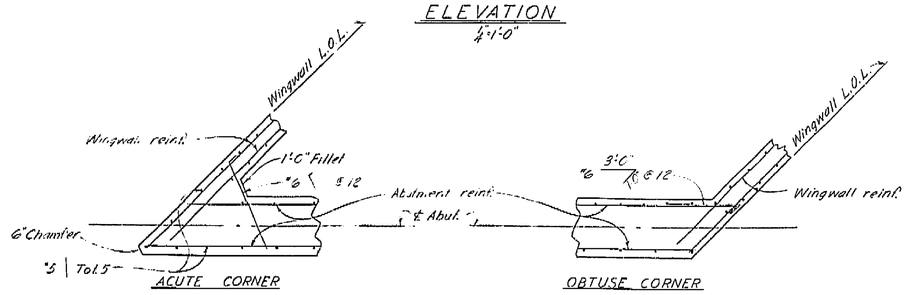


ELEVATION
¼"=1'-0"



SECTION B-B
⅜"=1'-0"

SECTION A-A
⅜"=1'-0"



ABUTMENT CORNER DETAILS
⅜"=1'-0"

AS BUILT PLANS
Contract No. 62-67363
Date Completed
Document No. 6666062

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer Earl C. Tillman
Chief Designer W.J. Gerwick

DESIGN	By K.C.N.	Checked W.P. Cochran	5/60
DETAILS	By Y. Nakayama	Checked W.P. Cochran	4/60
QUANTITIES	By	Checked L.J. Nielsen	5/60
SPECIFICATIONS	By	Checked Plans and Specs. Compared	
Approval Recommended by		Chief and Assistant Bridge Engineer	9459 9459

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CENTRAL AVENUE OVERCROSSING

ABUTMENT DETAILS

SCALE: As Noted | BRIDGE 42-207 | FILE | DRAWING C-6734-4

Disregard prints bearing earlier numbers → PREL. DRAWING No. P- 6734 | S | M | 75 | 23

171

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

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SCALE 1"= 50' 0 100 200 MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM 300 400 500 600 SCALE 1"= 50' 700 0 SCALE 1"= 20' 50 100 MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM 50 100 200 SCALE 1"= 20 300

Revision: 9-22-60
Made #8 bar cont.
on Detail J-1.
E.T.K.

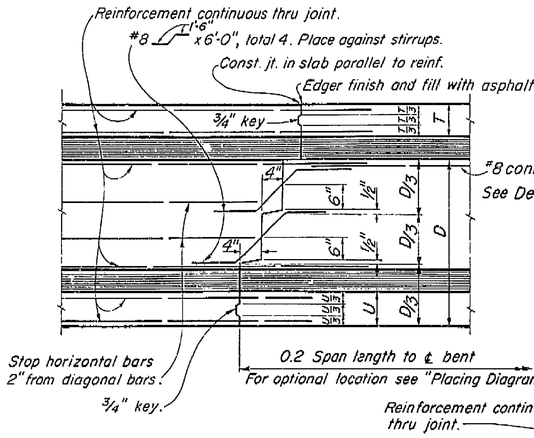
U-006-2(6) F-006-2(5)

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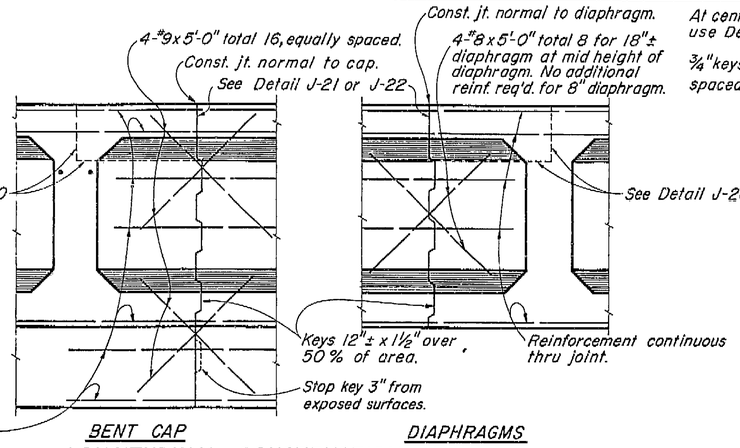
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	99	B	12	12

DATE APPROVED August 28, 1961

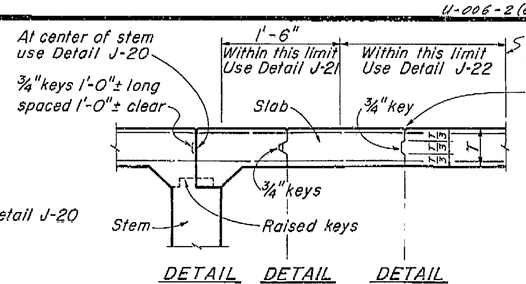
VI | Fre | 99



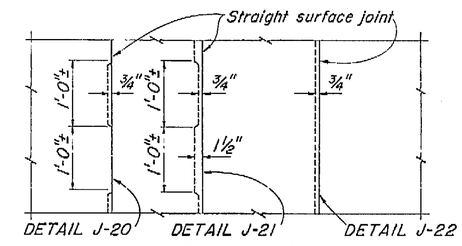
TRANSVERSE GIRDER CONSTRUCTION JOINTS
DETAIL J-3



BENT CAP LONGITUDINAL CONSTRUCTION JOINTS / DIAPHRAGMS
DETAIL J-4

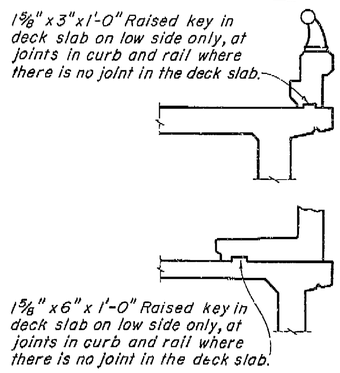


DETAIL J-20 | DETAIL J-21 | DETAIL J-22

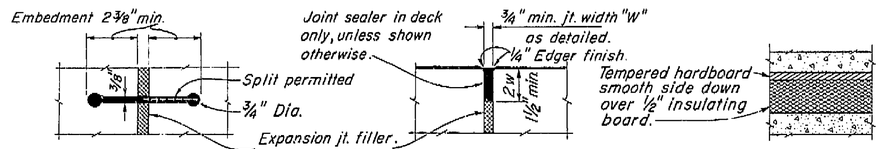


DECK SLAB
LONGITUDINAL CONSTRUCTION JOINTS

Note: Longitudinal construction joints in slab, if required, are to be located at edge of traffic lanes except as approved by the Engineer.

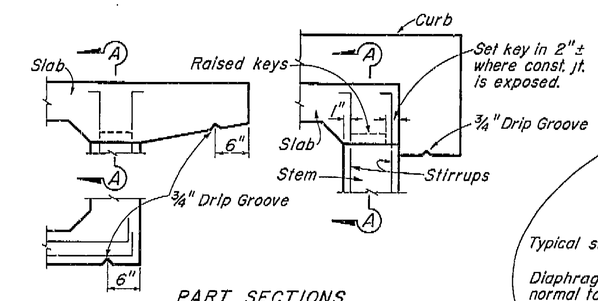


CURB AND SIDEWALK EXPANSION JOINT
DETAIL C-1



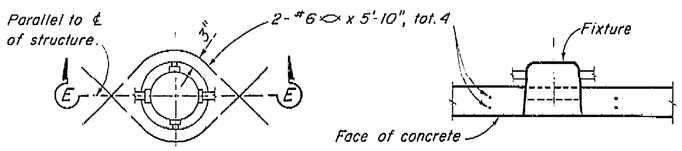
RUBBER WATERSTOP
DETAIL W-1

SEALED EXPANSION JOINT
DETAIL L-1

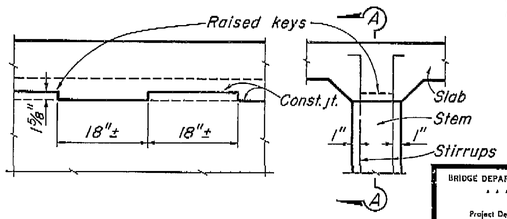


PART SECTIONS
EXTERIOR GIRDER WITH SLAB CANTILEVER
EXTERIOR GIRDER WITH CURB

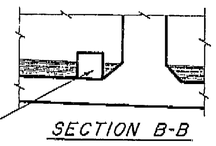
DETAIL M-1



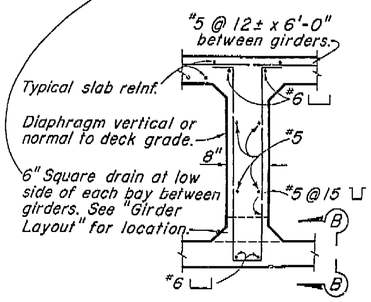
ADDED REINFORCEMENT
SECTION E-E
RECESSED SOFFIT LIGHT
DETAIL F-1



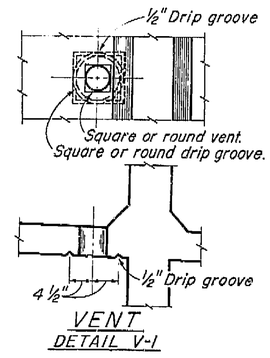
SECTION A-A
PART SECTION INTERIOR GIRDER
KEY-GIRDER STEM TO SLAB
DETAIL J-5



SECTION B-B



INTERMEDIATE DIAPHRAGM SECTION
DETAIL D-1



VENT
DETAIL V-1

Note:
5" ϕ Vent in lower slab.
Min. of two vents per span in each bay between girders. One vent to be located at low point of span and other vent to be located at opposite end of span @ 1'-6" from face of Abutment or Bent. See "Girder Layout."

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

STANDARD DRAWING
Approved: W. S. O'Hara
Design Details
Approved: Bill J. Price
Dec. 1960

BRIDGE DEPARTMENT		
DESIGN SECTION 2		
Project Designer: [illegible]		
Chief Designer: W. J. Price		
DESIGN	by R. N. Amuka 12-60	Checked [illegible]
DETAILS	by R. N. Amuka 12-60	Checked [illegible]
QUANTITIES	by E	Checked D.R.M.
SPECIFICATIONS	by	Plans and Form Prepared
Approval Recommended by: [illegible] Approved Design		Civil and Structural Engr. License No. 5319

9/60

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CENTRAL AVENUE OVERCROSSING

STANDARD DETAILS NO. 1 (BOX GIRDER)

SCALE NONE | BRIDGE 42-207 | XS-16-22 FILE | DRAWING C-6734-B

PREL. DRAWING No. P-6734 17

THE BOX OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED [illegible], AS SUBMITTED BY RESIDENT ENGINEER
TRACINGS CORRECTED BY: DATE:

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE SIGNATURE TITLE

ClibPDF - www.fastio.com

MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM
SCALE 1"= 50' 0 200 400 600
SCALE 1"= 50' 0 300
SCALE 1"= 20' 0 100
SCALE 1"= 20' 0 200 300

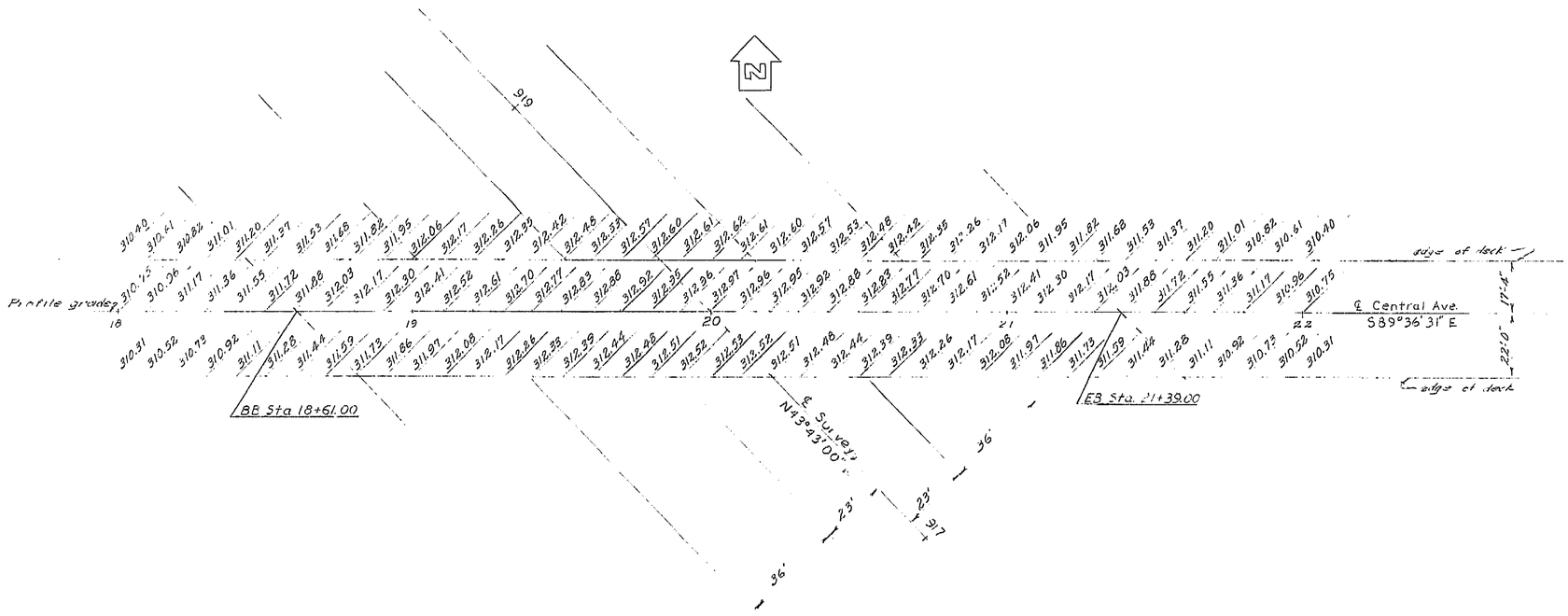
FED. ROAD DIV. No.	STATE	F. A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.		169	424

U-006-2(6) F-006-2(5)

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	Fre	99		169	424

Bridge Engineer — City Engineer — License 2903

Date Approved August 28, 1961



Note: These elevations do not include camber.
Elevations are shown at 10' stations along and normal to ℄ Central Avenue.

169

AS BUILT PLANS
Contract No. 62-671363
Date Completed
Document No. 60001062

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer
Chief Designer M.J. Gerlach

DESIGN	By N.B. Kovari 8/60	Checked D.N. Amodeo 8/60	
DETAILS	By A.B. Kirsch 8/60	Checked D.N. Amodeo 8/60	
QUANTITIES	By [illegible] 8/60	Checked [illegible] 8/60	
SPECIFICATIONS	By	Plans and Specs. Completed	

Approval Recommended by [illegible] Engineer of Design Civil Engr. License No. 5439

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CENTRAL AVENUE OVERCROSSING

10' GRID OF DECK ELEVATIONS

SCALE	BRIDGE 42-207	FILE	DRAWING C-6734-2

Disregard prints bearing earlier numbers → PREL. DRAWING No. P-6734 21

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE [illegible] SIGNATURE [illegible] TITLE [illegible]

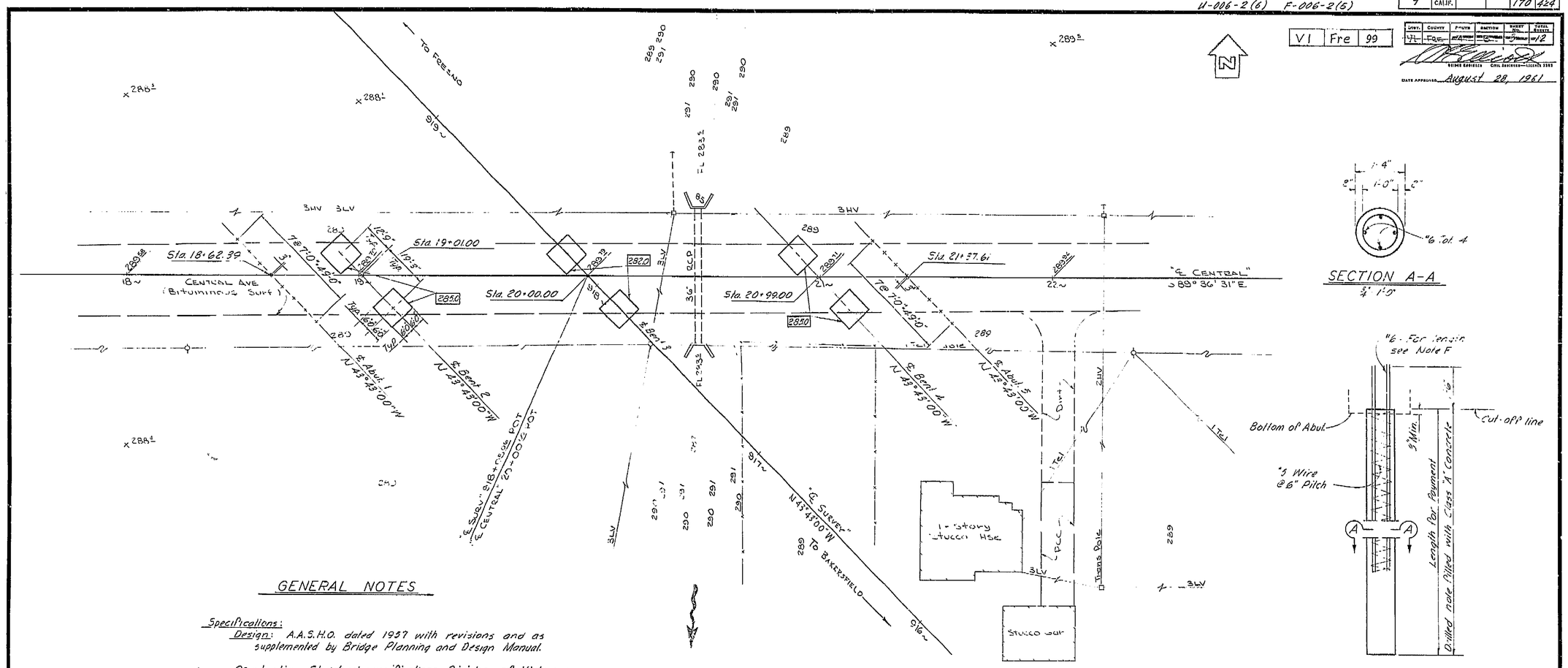
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ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
7	CALIF.			170	424

U-006-2(6) F-006-2(5)

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	Fre	99		1/2	

DATE APPROVED August 28, 1961



SECTION A-A
3/4" 1'-0"

CAST IN DRILLED HOLE CONCRETE PILE
3/4"=1'-0"
Concrete to be placed in dry hole

GENERAL NOTES

Specifications:
Design: A.A.S.H.O. dated 1957 with revisions and as supplemented by Bridge Planning and Design Manual.

Construction: Standard specifications, Division of Highways, dated January 1960 and the Special Provisions

Live Loading: H20-S16-44 and Alternative.

Unit Stresses:
Reinforced concrete:
f_s = 20,000 psi N=10
f_c = 1,200 psi

Footing Pressure: 3 Tons psf @ Bents.

Pile loading: 32 Tons Type Concrete

Notes: 0000 Indicates bottom of footing elevation.

Note F: The #6 bars shall extend a minimum of 3' below the lowest of the following:
1. Bottom of footing.
2. Top of final ground surface.
3. Top of original ground surface when piles are drilled through fill.

EM Central
F1-KK chisel in PP 21' Lt
& Central 20+36
EL 291.262

TBM "A"
Set KK spike in TP 9"
dia Rt & Central 18+42'e
EL 291.93

LEVEL DATUM: USC&GS
FOR ALIGNMENT SEE: PR 6734-A
CONTOURS AS OF 10-50
SITE PLAN TO SUPPLEMENT DISTRICT DATA.
SURVEY BY JGG DATE 10-50
DRAWN BY JGG DATE 10-50
TRACED BY JS DATE 12-4-50

AS BUILT PLANS
Contract No. 62-6T1363
Date Completed
Document No. 60001062

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer Earl E. Anderson
Chief Designer M. J. Underhill

DESIGN	by F.E.N. Date 2/60	Checked M.J.U. Date 2/61
DETAILS	by Y. Nakayama 2/60	Checked E.E.A. Date 2/61
QUANTITIES	by C.H.A. Date 2/61	Checked J.J.A. Date 3/61
SPECIFICATIONS	by	Plans and Specs. Compared

Approval Recommended by R. W. Hutchinson, Engineer of Design
Civil and Structural Asst. Director No. 5435

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CENTRAL AVENUE OVERCROSSING

FOUNDATION PLAN

Except as Noted SCALE: 1"=20' | BRIDGE 42-207 | FILE 1-1/2 | DRAWING C-6734-3

PREL. DRAWING NO. P-6734 X N 22

PR 6734-5

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-12-72 SIGNATURE [illegible] TITLE [illegible]

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SCALE 1"=50' 0 200 400 600
SCALE 1"=20' 0 100 200 300

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California Department of Transportation
Division of Maintenance

Structure Maintenance and Investigations

BRIDGE

INSPECTION

RECORDS

INFORMATION

SYSTEM

The requested documents have been generated by BIRIS.

These documents are the property of the California Department of Transportation and should be handled in accordance with Deputy Directive 55 and the State Administrative Manual.

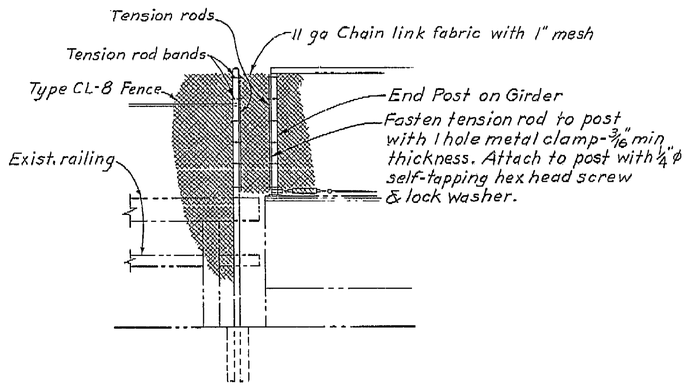
Records for “Confidential” bridges may only be released outside the Department of Transportation upon execution of a confidentiality agreement.

DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre./Mad.	99	17.3 / 11.1	15	24

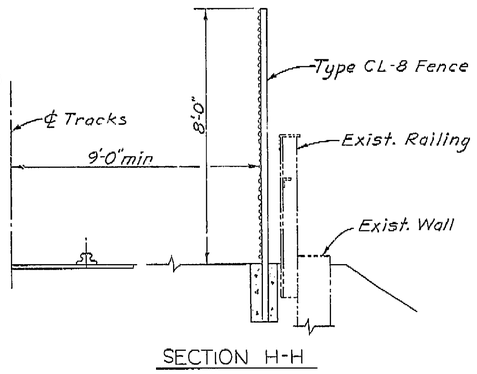
A.D. Hunkett — 8695
DESIGN SECTION SUPERVISOR — REGISTERED CIVIL ENGINEER NUMBER

DATE APPROVED December 31, 1973

AS BUILT PLANS
Contract No. 06-127904
Date Completed 12-73
Document No. 6 on 2092

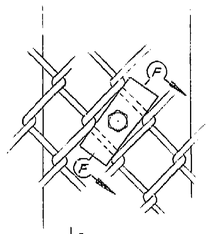


ELEVATION

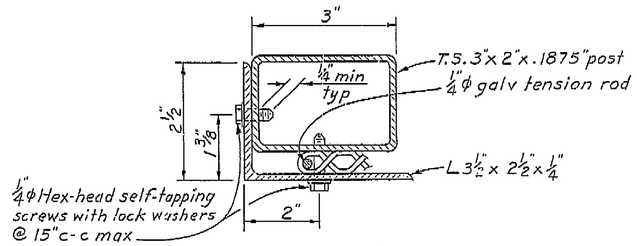


SECTION H-H

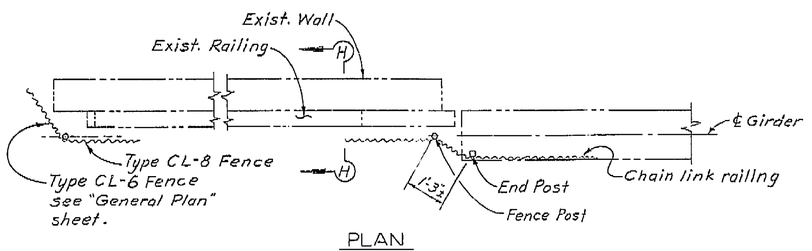
AS BUILT PLANS
Contract No. 06-12.7904
Date Completed 7-18-74
Document No. _____



SECTION F-F
FABRIC ATTACHMENT DETAIL



SECTION G-G



PLAN

TYPICAL CORNER DETAIL

RAILING MODIFICATION

DESIGN	By E. Lee	5-73	Checked	5-73
DETAILS	By PARTIN	5-73	Checked	5-73
QUANTITIES	By PARTIN	8-73	Checked	8-73

State of CALIFORNIA
DEPARTMENT OF TRANSPORTATION

BRIDGE DEPARTMENT
DESIGN SECTION 13
PROJECT ENGINEER Alex Bonnett

BRIDGE NO. 42-190
POST MILE 22.43

KERMAN BRANCH UNDERPASS
CHAIN LINK RAILING DETAILS-2

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06351
WO 127901

Disregard prints bearing earlier revision dates →

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 3 OF 3

15

HBD D 139

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 7-25-74 SIGNATURE [signature] TITLE Micrographic Supervisor

DA-53-75

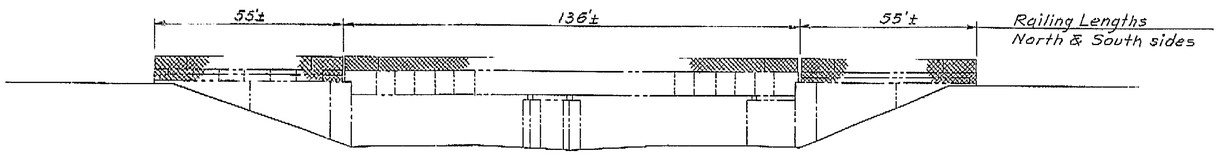
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DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre/Mad	99	17.3 / 11.1	13	24

BRIDGE ENGINEER — REGISTERED CIVIL ENGINEER NUMBER

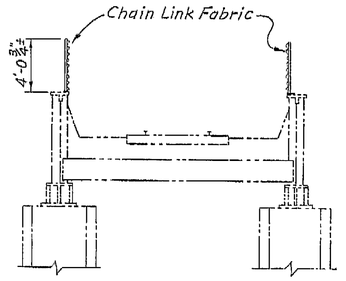
Dale F. Downing
ASSISTANT STATE HIGHWAY ENGINEER — REGISTERED CIVIL ENGINEER NUMBER

DATE APPROVED December 31 1973



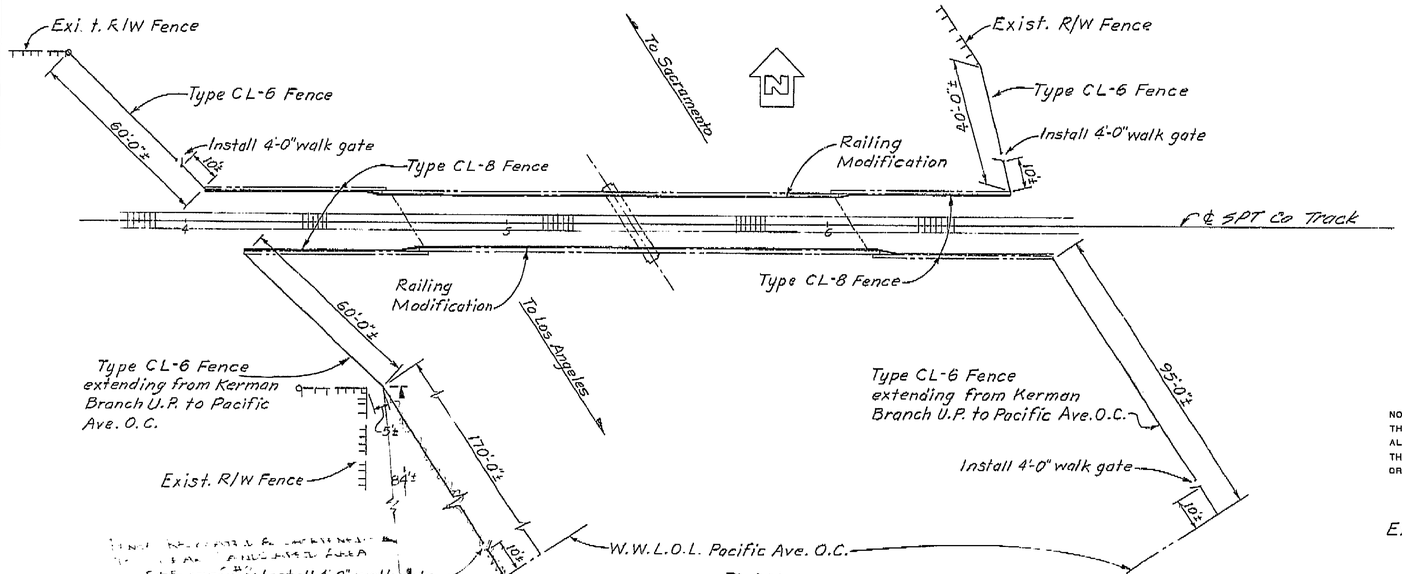
ELEVATION
No Scale

AS BUILT PLANS
Contract No. 06-127904
Date Completed 12-73
Document No. 6 am 2092



TYPICAL SECTION
No Scale

AS BUILT PLANS
Contract No. 06-127904
Date Completed 7-18-74
Document No. _____



PLAN
No Scale

INDEX TO PLANS

Sheet No.	Title
1	General Plan
2	Chain Link Railing Details - 1
3	Chain Link Railing Details - 2

Standard Plans Dated Jan., 1973
A78-6 Fences

NOTE:
THE CONTRACTOR SHALL VERIFY ALL DEPENDENT DIMENSIONS IN THE FIELD BEFORE ORDERING OR FABRICATING ANY MATERIAL.

APPROXIMATE QUANTITIES

MODIFY BRIDGE RAILING (LOCATION D)	272 LF
CHAIN LINK FENCE (TYPE CL-6)	410 LF
CHAIN LINK FENCE (TYPE CL-8)	220 LF
4' CHAIN LINK GATE (TYPE CL-6)	4 EA

Existing structure shown thus: —— - - - - ——

RAILING MODIFICATION

Submitted By		DESIGN	By E. Lee 5-73	Checked A Bowles 8-73	LIVE LOADING: HS 20-44 AND ALTERNATIVE
DESIGN SECTION SUPERVISOR — REGISTERED CIVIL ENGINEER NUMBER		DETAILS	By PARTIN 5-73	Checked A Bowles 8-73	LAYOUT By PARTIN 5-73 Checked A Bowles 8-73
Approval Recommended By		QUANTITIES	By PARTIN 8-73	Checked A Bowles 8-73	SPECIFICATIONS By J. Berkel 1/74 Plans and Specs Completed
DESIGN ENGINEER — REGISTERED CIVIL ENGINEER NUMBER					

State of CALIFORNIA
DEPARTMENT OF TRANSPORTATION

BRIDGE DEPARTMENT
DESIGN SECTION
PROJECT ENGINEER Joel Stanley

BRIDGE NO. 42-190
POST MILE 22.43

KERMAN BRANCH UNDERPASS
GENERAL PLAN

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06351
WO 127901

Disregard prints bearing earlier revision dates →

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 1 OF 3

13

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

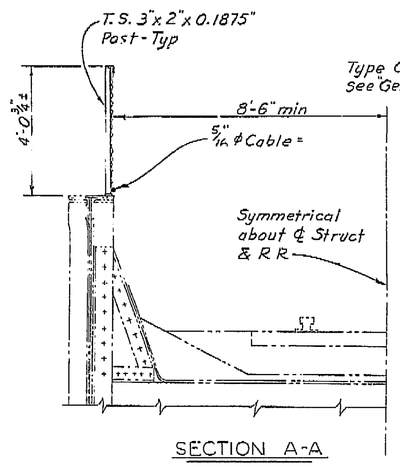
DATE 9-25-74 SIGNATURE Rick Mpactone TITLE Micrographics Supervisor

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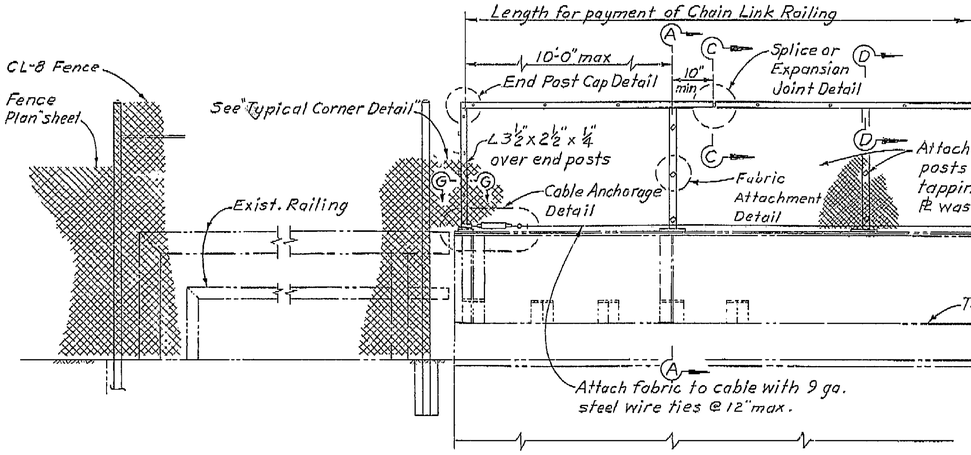
DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre.Mod	99	17.3 / 11.1	14	24

DIVISION SECTION-SUPERVISOR — REGISTERED CIVIL ENGINEER NUMBER 7695

DATE APPROVED December 31, 1973

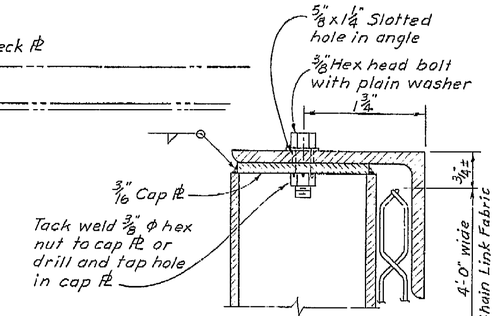


SECTION A-A

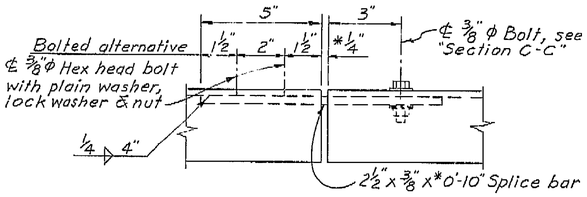


END POST — INTERMEDIATE PANEL

INSIDE ELEVATION

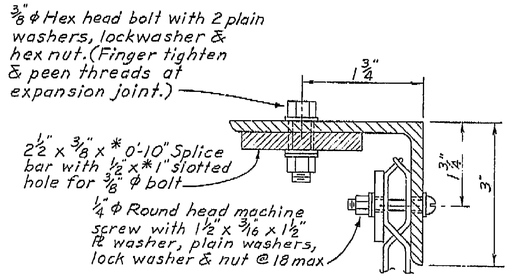


SECTION D-D

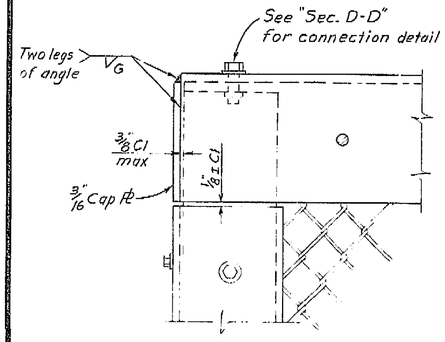


SPLICE OR EXPANSION JOINT DETAIL

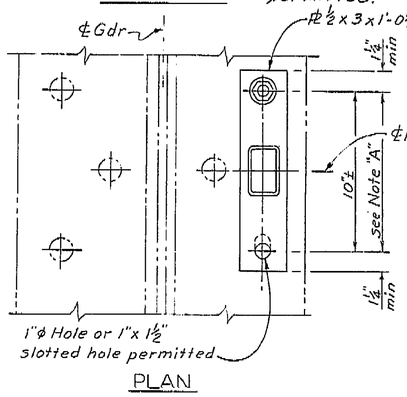
*Expansion joint same dimension as expansion joint in deck or wall. Increase slotted hole length & splice bar length correspondingly.



SECTION C-C



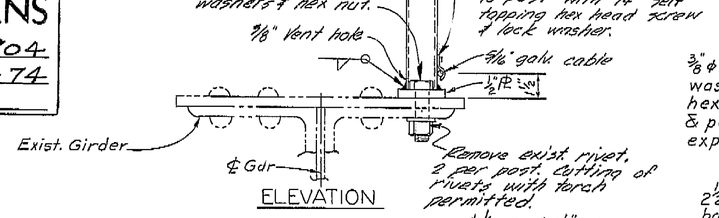
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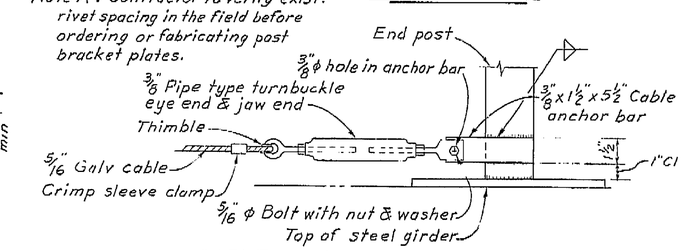
PLAN

Note "A": Contractor to verify exist. rivet spacing in the field before ordering or fabricating post bracket plates.

POST ANCHORAGE DETAILS



ELEVATION



CABLE ANCHORAGE DETAIL

RAILING MODIFICATION

	By		Checked		State of CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE DEPARTMENT DESIGN SECTION	BRIDGE NO. 42-190	KERMAN BRANCH UNDERPASS
DESIGN	E. Lee	5-73				PROJECT ENGINEER	POST MILE 22.43	CHAIN LINK RAILING DETAILS-1
DETAILS	PARTIN	5-73				CU 06351 WO 12790		
QUANTITIES	PARTIN	8-73						

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

Disregard prints bearing earlier revision dates →

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 2 OF 3

14

HDD D 139

AS BUILT PLANS
Contract No. 06-127904
Date Completed 7-18-74
Document No.

AS BUILT PLANS
Contract No. 06-127904
Date Completed 12-73
Document No.

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 9-25-74 SIGNATURE [signature] TITLE Micaela Symmes

DAS 4543-78

ClibPDF - www.fastio.com

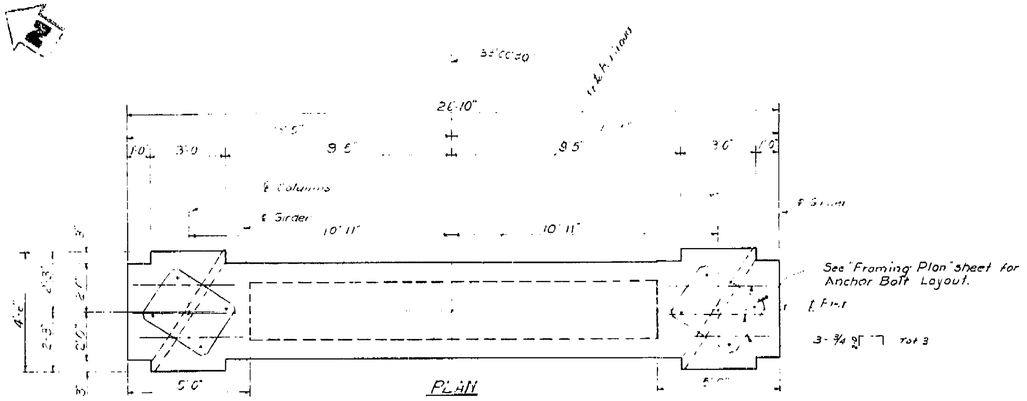
FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.	U-0198 (2)		137	162

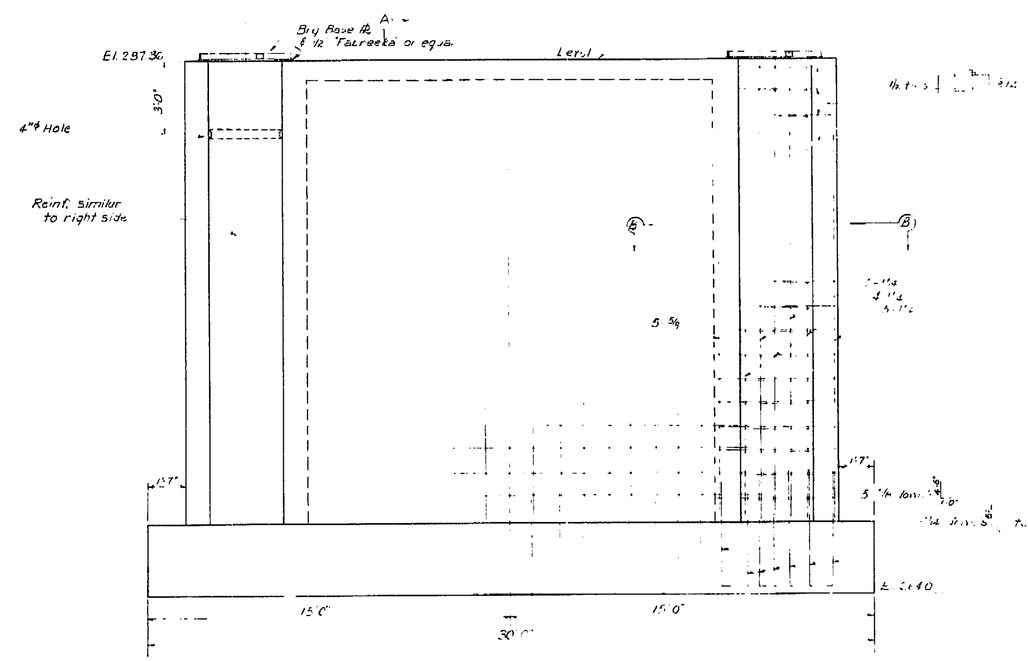
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
6		4		5	12

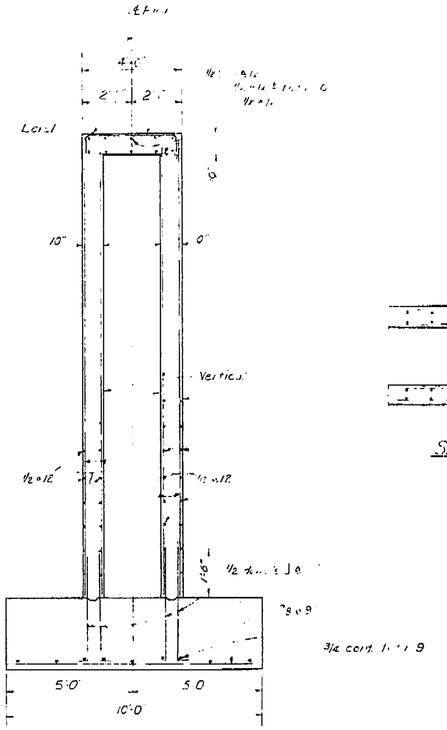
STATE ENGINEER — CIVIL ENGINEER — LICENSE 9583

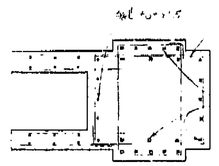
DATE APPROVED: February 28, 1955

BRIDGE DEPARTMENT









AS BUILT PLANS
Contract No 56-67C1
Date Completed
Document No 60000990

AS BUILT
NO CORRECTIONS BY
DATE 1-3-57

Submitted by					
DESIGN					
DETAILS					
QUANTITIES					
SPECIFICATIONS					

DESIGN — SECTION

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

KERMAN BRANCH UNDERPASS

PIER 2

DESIGN SECTION 8
PROJECT OF OTHER

SCALE: 3/8" = 1'-0"	BRIDGE 42-190	FILE	DRAWING C-3570-5

PREL. DRAWING No. P-3570

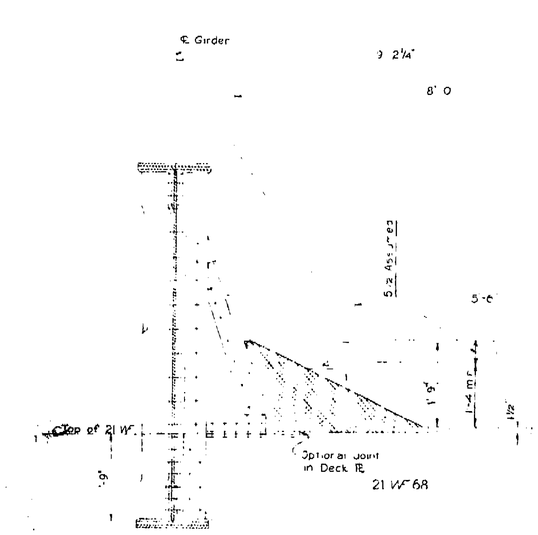
I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

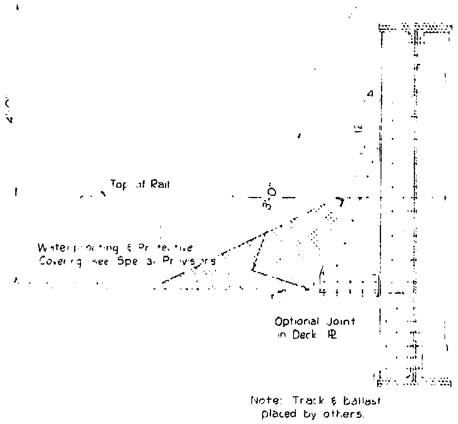
ClibPDF - www.fastio.com

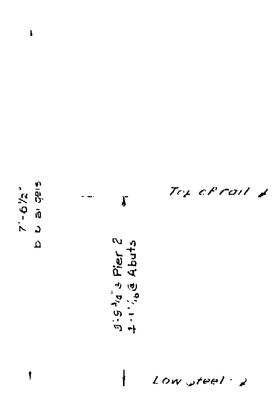
FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.	U-0734 (2)		139	162

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
11	Fre	-4	C	-6	12

DATE APPROVED February 28, 1955







TYPICAL SECTION
Scale 3/4"=1'-0"

GENERAL NOTES

SPECIFICATIONS:

DESIGN: A.A.S.H.O. DATED 1953 WITH SUBSEQUENT REVISIONS, AND BRIDGE DEPARTMENT SUPPLEMENT DATED 1953.
AMERICAN RAILWAY ENGINEERING ASSOCIATION, CURRENT ISSUE, FOR RAILROAD.

CONSTRUCTION: STANDARD SPECIFICATIONS, DIVISION OF HIGHWAYS, DATED APRIL 1954 AND THE SPECIAL PROVISIONS.
AMERICAN RAILWAY ENGINEERING ASSOCIATION, CURRENT ISSUE, FOR RAILROAD.

LIVE LOADING: COOPER'S E-72

UNIT STRESSES:
REINFORCED CONCRETE: F_s = 20,000 P.S.I., F_c = 1000 P.S.I., N = 10

STRUCTURAL STEEL: F_s = 18,000 P.S.I.

FOUNDATION PRESSURE:

ABUT. 1:	4	T.S.F. EL 270 OR BELOW
PIER 2:	4	T.S.F. EL. 264
ABUT. 3:	4	T.S.F. EL 268 TO EL. 269
WINGWALLS:	3	T.S.F. EL. 282 TO EL. 284
	2 1/2	T.S.F. EL. 272 TO EL. 282
	4	T.S.F. MAX BELOW EL. 272

REINFORCEMENT: EMBEDMENT IS CLEAR TO OUTSIDE OF BAR AND IS 2" TO MAIN REINFORCEMENT, EXCEPT AS NOTED. HOOKS IS FOUR DIAMETERS, EXCEPT AS NOTED.
BAR AREAS ARE BASED ON ROUNDS FOR LESS THAN 1" AND SQUARES FOR OVER 1".
WHERE REINFORCING BARS ARE SPLICED THEY SHALL HAVE A 20 DIAMETER LAP UNLESS OTHERWISE CALLED FOR ON THE PLANS.

ANY SPLICES IN THE MAIN MATERIAL OF STRESS CARRYING MEMBERS MUST BE MADE BY RIVETING IN ACCORDANCE WITH A.R.E.A. SPECIFICATIONS.

BRIDGE DEPARTMENT

DESIGN SECTION

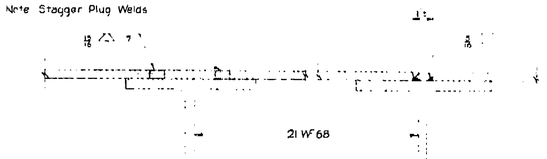
Submitted by Clare H. Kingman Jr. Date Jan. 31, 1955

	Drawn	Checked	Date
DESIGN	D.A.M.		3-54
DETAILS			
QUANTITIES			
SPECIFICATIONS			

Approved for Commission: [illegible] Date Submitted for Approval: 1-31-55

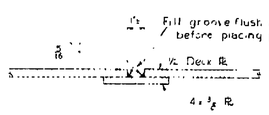
Bridge No. 56-368

Note Stagger Plug Welds

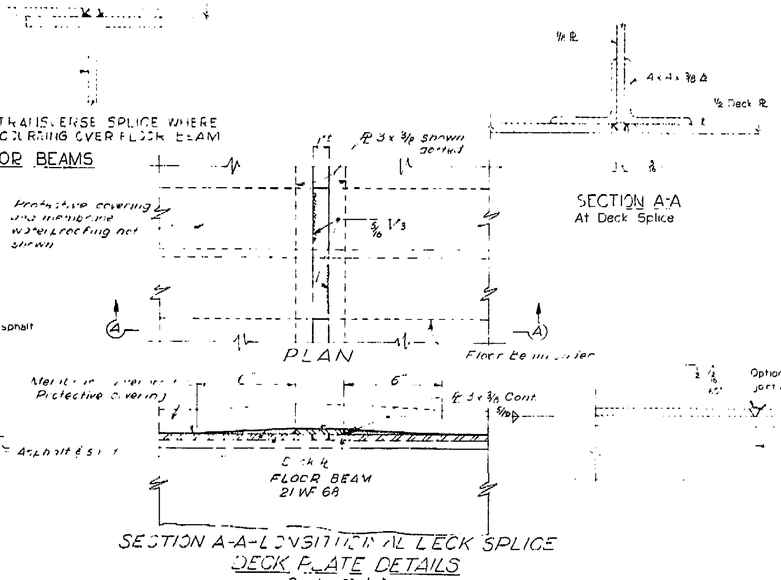


CONNECTION DECK PLATE TO FLOOR BEAM — TRANSVERSE SPLICE WHERE DECK PLATE OCCURRING OVER FLOOR BEAM

DETAILS AT FLOOR BEAMS



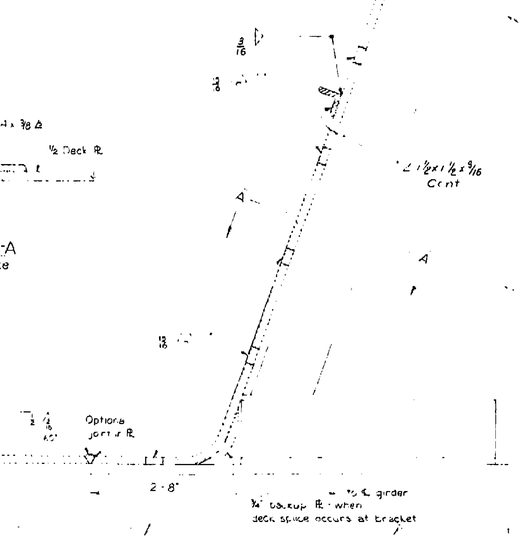
TRANSVERSE SPLICE BETWEEN BRACKET



SECTION A-A
At Deck Splice

PLAN

SECTION A-A-LONGITUDINAL DECK SPLICE
DECK PLATE DETAILS
Scale 3"=1'-0"



DETAILS AT BRACKETS
Scale 3"=1'-0"

AS BUILT PLANS
Contract No. 56-6TC1
Date Completed
Document No 60000990

AS BUILT
NO CORRECTIONS BY
DATE 1-31-55

DESIGN SECTION 8
PROJECT DESIGNER

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

KERMAN BRANCH UNDERPASS

TYPICAL SECTION

SCALE As Shown	BRIDGE 42-190	FILE	DRAWING C-3570-6

PREL. DRAWING No. P- 3570

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE [illegible] SIGNATURE [illegible] TITLE [illegible]

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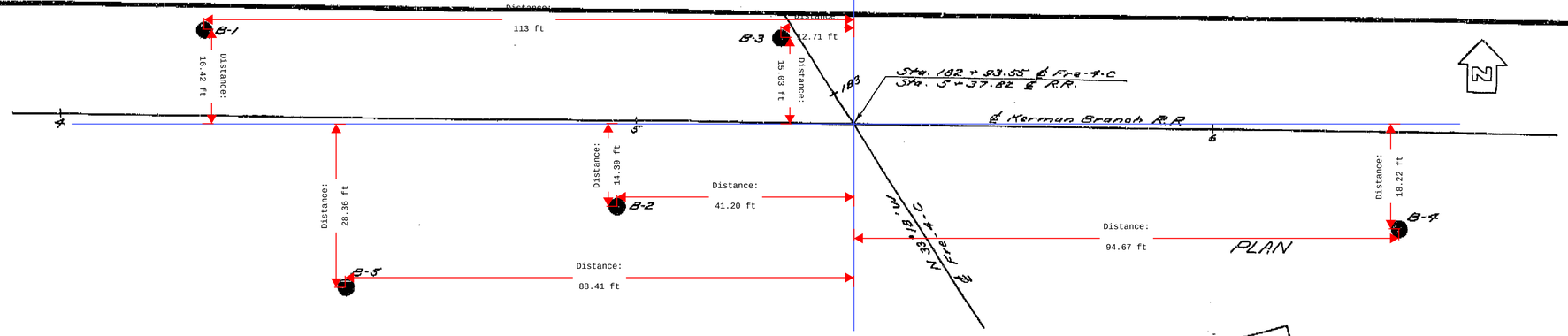
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2	CAL.	0-3570 (2)		144	162

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
11	Fre		Fre. C	12	12

99

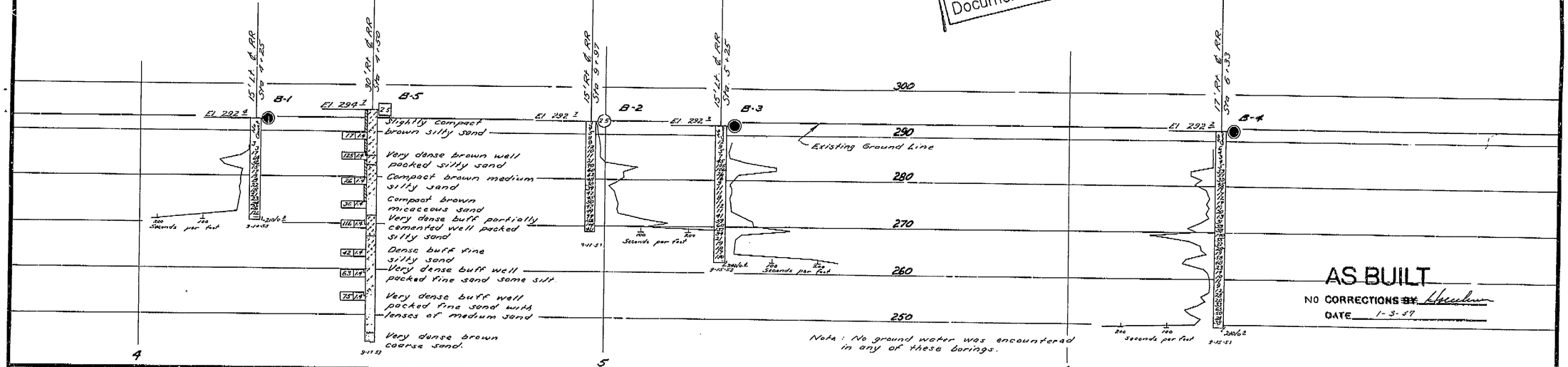
DISTRICT ENGINEER — CIVIL ENGINEER — LICENSE 5535

APPROVED February 28, 1955



AS BUILT PLANS
Contract No. 56-6TC1
Date Completed
Document No. 60000990

BM #D - RR Spike in PP
100' ± W of Intersection of ℄ Survey ℄ RR tracks @ NE corner of Cemetery · Elev 293 ±



FIELD STUDY	R. C. Hurst 9-15-53
DESIGNED	R. C. Hurst 10-27-53
CHECKED	R. C. Hurst 10-28-53
Approval Recommended by	Chief, Bridge Design
	C. A. Hurlbut Jr. Bridge Engineer

AS BUILT
NO CORRECTIONS ~~BY~~ Hurlbut
DATE 1-3-59

Classification of Material Based on Standard Grade Size Limits

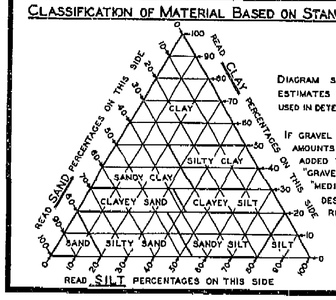


Diagram showing the basis for estimates of grade size distribution used in determination of class names

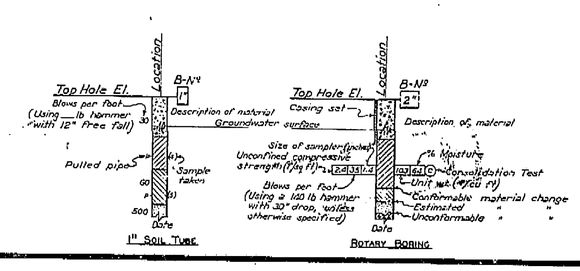
If gravel is present in appreciable amounts the term "gravelly" may be added to the class name, viz. "gravelly sand." The terms "coarse," "medium" and "fine" when used to describe gravel, sand and silt refer to standard grade size limits.

Legend of Earth Materials

- Gravel
- Sand
- Silt
- Clay
- Sandy Clay or Clayey Sand
- Sandy Silt or Silty Sand
- Silty Clay or Clayey Silt
- Peat and/or Organic Clay
- Filled Material
- Igneous Rock
- Sedimentary Rock
- Metamorphic Rock

Legend of Boring Operations

- Plan of any boring
- Penetrometer
- 2½" Cone penetrometer
- Sampler boring (dry)
- Rotary boring (wet)
- Auger boring (dry)
- Jet boring
- Core boring
- Test pit



Notes

The contractor's attention is directed to section 2, article (c) of the standard specifications and to the special provisions accompanying this set of plans. Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

Penetrometer borings having a rate of penetration measured in seconds per foot are driven with a N° 2 McKiernan-Terry air hammer at 115 psi.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

Kerman Branch Underpass

Log of Test Borings

SCALE: 1" = 10'	BRIDGE 42-190	FILE	DRAWING B-3570-12

REL. DRAWING NO. B-3570 [8] [56]

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE June 28, 1971 SIGNATURE [illegible] TITLE [illegible]

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FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.	0798 61		133	162

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	99	C	7	12

BRIDGE ENGINEER — CIVIL AND STRUCTURAL ENGINEER — LICENSE EXP.

DATE APPROVED February 28, 1955

DIRECTOR OF PUBLIC WORKS

BRIDGE DEPARTMENT

DESIGN 8 SECTION

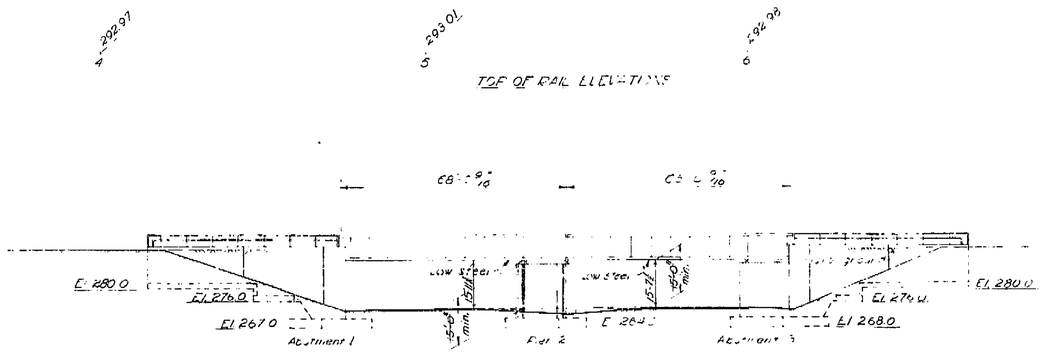
	By	Date	Checked
DESIGN	H. Dittrich	9-54	A. Hirschfeld
DETAILS	R. Ely	9-54	A. Hirschfeld
QUANTITIES	W.H. Wilkins	10-54	A. Hirschfeld
STRUCT. CALCS.	Wm. H. Wilkins	10-54	A. Hirschfeld

Approved Exceptions: Sec. 3.2, Sec. 3.3, Sec. 3.4, Sec. 3.5, Sec. 3.6, Sec. 3.8

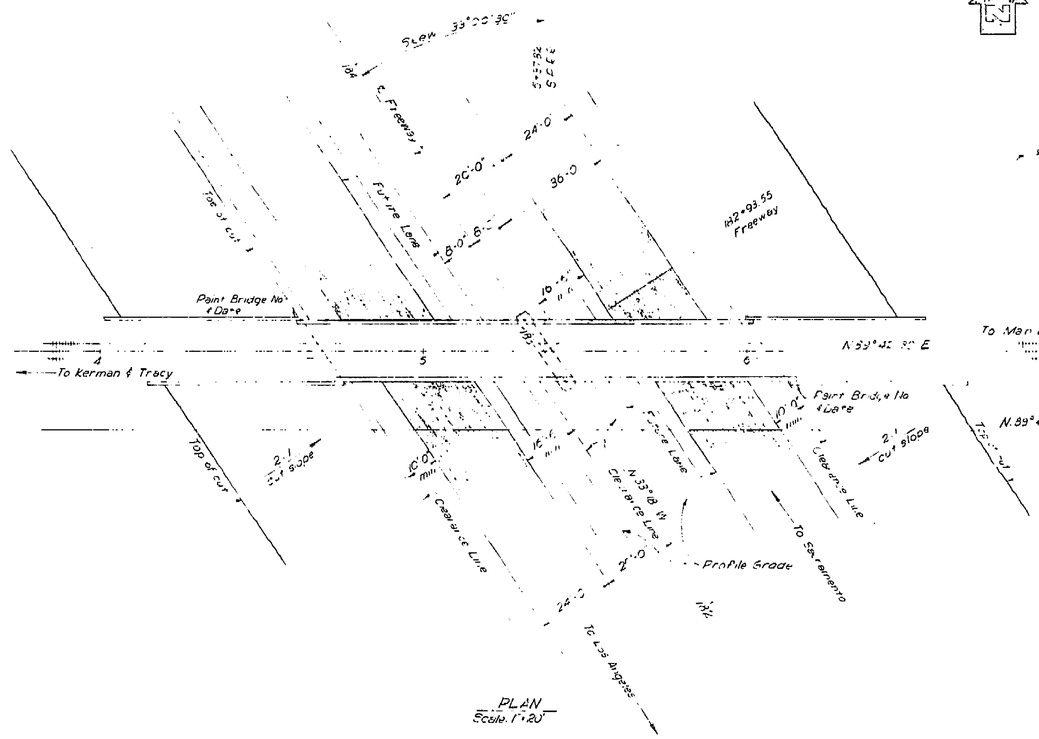
Submitted by Wm. H. Wilkins

Design Data: Live Load: Cooper's E72

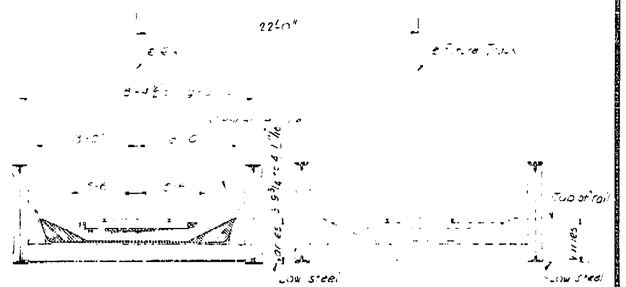
TOP OF RAIL ELEVATIONS



ELEVATION
Scale 1"=20'



PLAN
Scale 1"=20'



TYPICAL SECTION
Scale 1"=5'



AS BUILT

CORRECTIONS BY Stockton

DATE 1-3-57

INDEX TO PLANS

Sheet No.	Title
1	General Plan
2	Foundation Plan
3	Abutments
4	Abutment Details
5	Pier 2
6	Typical Section
7	Framing Plan
8	Girder Details
9	End Diaphragm Details
10	Bearing Details
11	Railing Details
12	Log of Test Borings

AS BUILT PLANS

Contract No. 56-67C1

Date Completed

Document No. 60000990

For General Notes see "Typical Section" sheet

DESIGN SECTION 8

PROJECT DESIGNER David M. Noguchi

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

KERMAN BRANCH UNDERPASS

Located about 0.1 mile outside the city limits of Fresno in Fresno County.

GENERAL PLAN

SCALE As shown	BRIDGE 42-190	FILE	DRAWING C-3570-1

PREL. DRAWING NO. P-3570 2 4 8 56 7 40 40

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DATE ____ SIGNATURE ____ TITLE ____

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FED. ROAD GOV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.	11-0194 (2)		141	162

DIST.	COUNTY	ROUTE	SECTION	POST MILE	TOTAL MILES
VI	Fre	-41-	C	-8-	11.2

DATE APPROVED February 28, 1958

BRIDGE DEPARTMENT

Edge of R. rounded & ground smooth

Top of conc

1/16 x 1 1/2 x 1 1/2 L

2 x 12 D.F. Buffer

1'-10"

Inv. R. 5" x 1'-3"

1/2" Weep H.

Top of concrete

2" x 8" D.F. Buffer

PARTIAL ELEVATION G-G

Similar Detail on Opposite Side

21 W 68

Diaph. R. 10" x 3/8

Stiffener ∠ 4 x 4 x 3/8

Diaphragm R. 3/8

∠ 4 x 4 x 3/8

Abut Face

SECTION A-A

℄ Beam Seat

9"

3 1/2"

3/4"

21 W 68

1/2" x 9" Fabric Pad "Fabreeka" or equal

Abut. Face

Steel trowel Concrete under pad to true grade

SECTION B-B

℄ Girder

E

2'-0 5/16"

2'-8"

1'-0"

1'-6"

G

2 Chamfer

Plant Mix Slope Transition 1:3 to 2:1

3 Ply Membrane Waterproofing black in corner as shown.

@ 2 1/2" x 1/2" Cont.

Plant Mix

1/2" Deck R.

Steel trowel concrete under deck R. to true grade

Asphalt-latex joint filler 1/2" wide strip of 15# roofing paper pressed into corner after first mopping of asphalt.

1/2" x 7" Mach. Bolt @ 2'-6" ± ctrs. 2" sq. x 1/8" R. washers, galv.

2" x 8" Treated D.F. Buffer

1'-6"

Membrane Waterproofing

SECTION C-C

21 W 68

1/2" Deck R.

Groove for waterstop

NOTE: Edge of 1/2" Deck R. rounded & ground smooth

2" Chamfer

Treated Douglas Fir Buffer

1'-10"

3 equal spaces @ 4'-11 1/16"

14'-0"

Top of concrete

3/16

2"x12" Treated D.F. Buffer

3/4" x 1'-0" Anchor Bolt - Cast in place, galv. Cut and finish with nut & peen

2" x 1" Slotted hole in 1/4" plate

Membrane Waterproofing

PARTIAL ELEVATION E-E

Typical Plant Mix slope

Top Conc

2" x 8" Treated Douglas Fir Buffer

2" x 12" Treated D.F. Buffer

2'-8"

2'-0 5/16"

1/2" x 7" Mach. Bolt @ 2'-6" ctrs, 2" sq x 1/8 R. Washers

PARTIAL ELEVATION D-D

21 W 68

1'-0"

3/16

5/16

6

3/4

8

9"

56°33'30"

2" x 1" Slotted hole

1'-0"

Abut Face

℄ Girder Brgs

END DIAPHRAGM PLAN

Scale 3/4" = 1'-0"

Abut Face

℄ Beam seat

℄ Girder

℄ Girder Bearing

1'-0"

END DIAPHRAGM DETAIL

2 1/2" Thrd.

2 1/2" x 9" x 1/4" R. Washers

2 1/2" Thrd

Sole R. 8" x 1" x 1'-10"

Masonry R. 8" x 1"

1/2" x 9" Fabric Pad "Fabreeka" or equal.

1'-0"

10"

1" hole

2" x 1" Slotted hole

1 1/4" holes in concrete and grout in bolts.

3/4" Swedged bolts

ANCHOR BOLT DETAIL

SECTION F-F

AS BUILT

CORRECTIONS BY Hendrickson

DATE 1-3-57

Submitted by Clive N. Bryant

DESIGN		
DETAILED		
QUANTITIES		
SPECIFICATIONS		

Approved Recommended for Approval

DESIGN 8 SECTION

AS BUILT PLANS
Contract No. 56-6TC1
Date Completed
Document No. 60000990

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

KERMAN BRANCH UNDERPASS

END DIAPHRAGM DETAILS

DESIGN SECTION 8

PROJECT DESIGNER Clive N. Bryant

SCALE	BRIDGE	FILE	DRAWING
1/8" = 1'-0" Unless noted	42-190		C-3570-9

PREL. DRAWING No. P-3570

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

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FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
7	CAL.	07-0134 (3)		140	162

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	41	C	8	

STATE ENGINEER — CIVIL ENGINEER—LATHAM SAAS

DATE APPROVED February 28, 1955

BRIDGE DEPARTMENT

NOTE Web splice to be used at the option of the contractor Location to be approved by the Engineer.

℄ Floor Beam and Splice

2-½ Rs

1¼ fill

WEB SPLICE

6"

VIEW C-C

SECTION D-D

End R ⅜x18 " " 7x4x⅜

8 7x4x⅜ Top Flg 3/4 Fills

8 7x4x⅜ Bott Flges - ⅜x7 Fls

C D

C D

ELEVATION

A

A

Max pitch indicated on Framing Plan

½ x 90 Web

8 7x4x⅜

¼ V 10

¾ fill

Pixel intermediate stiffener

N.S. 7x4x⅜ L ⅜ Fill

F.S. 7x4x⅜ L Crimped

2-4x4x⅜b

⅜ R

3

4'-1"

Back of to Top Floor Beam

Varies

SECTION A-A
KNEE BRACE

Welds

SECTION M-M SHEET #9

Notes:- Cutting of Ballast Plates & welding of additional plate to assure perfect bearing fit on P.C.C.

∠2 x 3 x ⅜

ELEV. F-F

R 10x¼

⅜ to 1'-3

⅜ to 3-12

-⅝ Round rivted bolts with tork washers - ¼ holes in ∠s

SECT. G-G

COVER PLATE DETAILS AT PIER

Sole ℞

Max. pitch indicated on Framing Plan

9"

⅛"

℄ Floor Beam

℄ Brg

21 WF 68

SECTION E-E

℄ Floor Beam

⅛"

8 x 8 x ⅝ ∠ Grind to fit

Sole ℞

℄ Brg

∠8x8x⅝ Grind to fit

10 x ¼ ℞

9" 8½" 9"

2'-2⅛"

℄ Pier

℄ Pins

∠2 x 3 x ⅜

NOTE: Welds for attaching Sole ℞s not shown.
Rivets interfering with Sole ℞s to be flush.

AS BUILT
CORRECTIONS BY Hamilton
DATE 1-3-57

AS BUILT PLANS
Contract No. 56-6TC1
Date Completed
Document No. 60000990

DESIGN SECTION 8
PROJECT DESIGNER Max A. M. Vogrich

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

KERMAN BRANCH UNDERPASS

GIRDER DETAILS

SCALE	BRIDGE	FILE	DRAWING
3/4"=1'-0"	42-190		C-3570-8

PREL. DRAWING No. P-3570

Submitted by	Date	Check'd	Date	Check'd	Date	Check'd	Date
DESIGN							
DETAILS							
QUANTITIES							
SPECIFICATIONS							

Special Recommendations

Filed in Office

DESIGN SECTION

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

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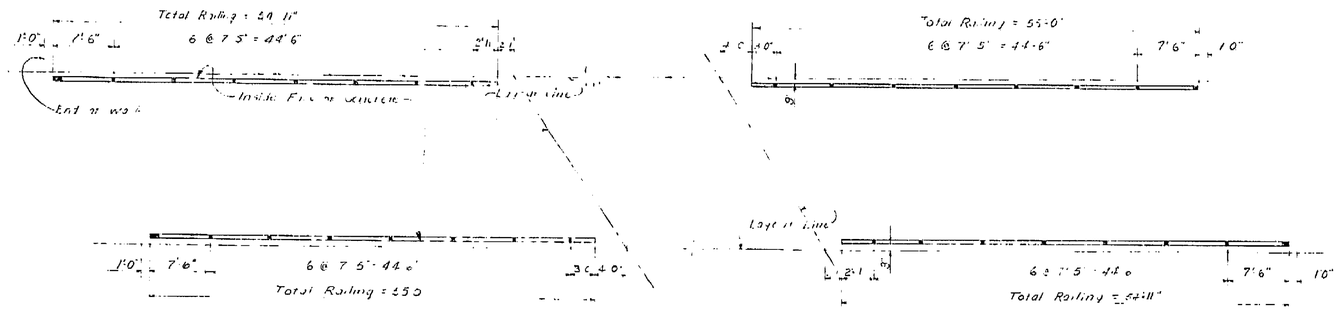
FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.	0137-1(2)		143	162

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VII	Fre.	---	Fre, C	11---	12--

BRIDGE ENGINEER — CIVIL ENGINEER — LIC. NO. 5568

DATE APPROVED February 28, 1955

BRIDGE DEPARTMENT

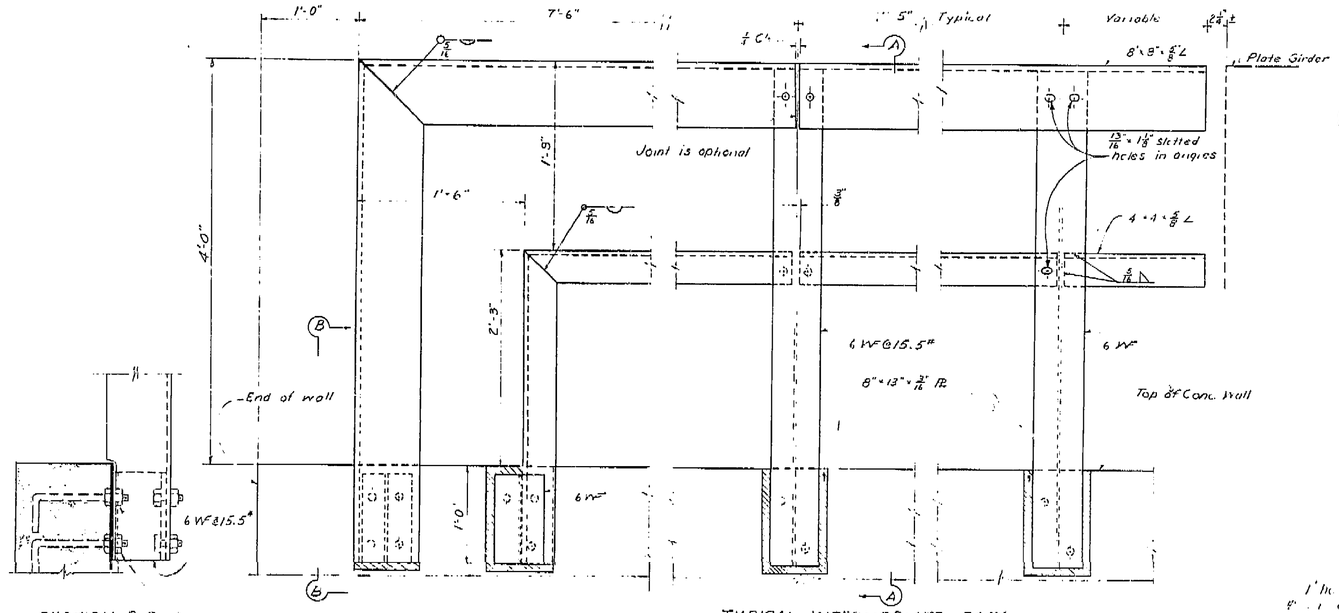


RAILING LAYOUT

Scale: 1/8" = 1'-0"

NOTE:
For painting see Special Provisions

All bolts ¾ dia. Use four washers for each nut. ¾"x5/16" washers shall be cut from rod. All welds to be smooth.



SECTION B-B
Scale: 1½"=1'-0"

TYPICAL INTERMEDIATE POST

SECTION A-A
Scale 1½"=1'-0"

ELEVATION RAILING DETAILS
Scale: 1½"=1'-0"

AS BUILT PLANS
Contract No. 56-67C.1
Date Completed
Document No. 60000990

AS BUILT
NO CORRECTIONS ~~BY~~ Hamilton
DATE 1-3-57

DESIGN SECTION 8
PROJECT DESIGNER Wm. J. M. Yeomans

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

KERMAN BRANCH UNDERPASS

RAILING DETAILS

SCALE	BRIDGE	FILE	DRAWING
As Shown	42-190		C-3570-11

PREL. DRAWING NO. P-3570

Submitted by	Date	Recommended by	Date
DESIGN			
DETAILS			
QUANTITIES			
SPECIFICATIONS			

Approved Recommended C.E. Chief Bridge Dept.

DESIGN SECTION

Clarence N. Stark

No.	Date	By	Revisions	Checked	Traced	Approved
1	7-5-55	D.M.N.	Add Fence Detail			
2	10-11-55	W.J.M.Y.	Add Fence Detail			
3	11-15-55	W.J.M.Y.	Add Fence Detail			

DIG out Boring 1954-362

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE ____ SIGNATURE ____ TITLE ____

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FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.	11 0734 (2)		139	162

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre.	-4	C	-7	12

DATE APPROVED: February 28, 1955

BRIDGE DEPARTMENT

Submitted by: Chas. H. Bignell
Checked: H. M. H. 2-24 | Detailed: J. Sanchez 2-24 | Traced: J. Sanchez 2-25
Checked: W. F. Cheney 2-25 | Quantities: W. F. Cheney 2-25
Specifications: [illegible] | Approved Recommended: [illegible]
Orig. and Revised Eng. Layouts: 55-268
Orig. and Revised Eng. Details: 55-268

56'-6 11/16" ℄ End Bearing to ℄ Pier
33 spaces @ 1'-11 7/8" = 65 7/16"
65 5/8 c.c. Brgs.

℄ End Bearing Abut. 1

18'-4½" c.c. girders
9'-2¼"
9'-2¼"

Diaphragms 4-L 4x4x⅜x1'-4"
1-R 16x⅜

R 10x⅜

Knee Braces

21 WF 68

℄ Girder Bearing

Note Span 2 similar to Span 1 by rotation

℄ End Bearing Abut 3

SPAN 1

SPAN 2

PLAN
Scale ¼"=1'-0"

Max. Rivet Pitch — Coverplate / Flange

7'-6½" c.c.

GIRDER DATA
Web 1-R 36x½
Flanges 4-L 8x8x¾
Coverplate 2-Rs 18x⅜ full length
Coverplate 2-Rs 8x⅜x34'-0"

-0.5% Girder Slope

ELEVATION A-A
No Scale

℄ Masonry ℄ Abut 1
El. Top Brg. ℄ 287.32
℄ End Bearing Abut 1
℄ Girder
El. ℄ Br., Pier 2 249.92
N 89°42'30"E
El. Top Brg. ℄ 287.32

1¼ Swedged anchor bolts
℄ Pier 2
℄ Railroad
El. ℄ Br., Pier 2 251.92

℄ Masonry ℄ Abut 3
El. Top Brg. ℄ 287.32
1¼ Swedged anchor bolts tot 6
℄ End Bearing Abut 3
℄ Girder
El. Top Brg. ℄ 287.32

ANCHOR BOLT LAYOUT
No Scale

STEEL NOTES

PLATE GIRDERS: Flange angles 8x8x¾ Web P. 90x½
Cover plates
18x⅜x31'-0" & 18x⅝ full length
Intermediate stiffener @ 7x4x⅜ crimped at outside girder face only

FLOOR BEAMS: 21 WF 68

RIVETS: All rivets ⅞

DESIGN DATA:
Live Load E-72 with 56.6% impact Unit D.L. one girder and ½ of deck = 2.61 ⅝

D.L. M	1430*	D.L. V.	86*
L.L.M+I.M.	4942*	L.L.V+I.V.	296*
Design M	5770*	Design V	382*

Floor Beam

D.L. M	24*	D.L. V.	5.5*
L.L.M+I.M.	183*	L.L.V+I.V.	26.7*
Design M	227*	Design V.	32.2*

MATERIAL
Structural Steel ASTM A-7-46
Rivets ASTM A-141-39
fs = 18,000 p.s.i.

AS BUILT PLANS
Contract No. 56-6TC1
Date Completed
Document No. 60000990

AS BUILT
NO CORRECTIONS BY Hendrickson
DATE 1-3-57

DESIGN SECTION 8
PROJECT DESIGNER Merrill Hagerman

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

KERMAN BRANCH UNDERPASS

FRAMING PLAN

SCALE As shown | BRIDGE 42-190 | FILE | DRAWING C-3570-7

PREL. DRAWING NO. P-3570

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE [illegible] SIGNATURE [illegible] TITLE [illegible]

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FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.	(1)3794 (6)		135	162

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fr.	[illegible]		-B	12

DATE APPROVED: February 28, 1955

BRIDGE DEPARTMENT

Expansion Joint See Detail M, "Abutment Details" sheet

2"ø Drain Hole 4'-10" from face of wall

El = 60.0

Spiral Reinforcement

4"ø Pipe

El. 2760

Concrete to be placed on undisturbed material

4"ø Pipe

El: 670 Abut 1
El: 674.30 Abut 3

DRAINAGE AND BACKFILL
No Scale

ELEVATION

ELEVATION E-E

58'0"

1/2" Expansion Joint

Wall Layout Line

1¼ @ 15, top & bottom

Typical reinf. Size Section C-C

2-1¼ @ 12

1¼ @ 15, top & bottom

Wall Layout Line

1" Expansion Joint

White strip

Typical reinf. Sz. Section B-B

1/2" Expansion Joint

PLAN

4+73.33 Abut 1
6+02.29 Abut 3

Face of Abutment = Abutment Layout Line

Rigging Anchor

3"x 2" Groove for waterstop

Abutment 1 shown. Abutment 3 similar.

See "Abutment Details" sheet for Sects B-B, C-C, D-D, E-E, G-G, H-H, J-J and K-K.

3"x 2" Groove for waterstop

5/8 cont total S.

Hip 35.110

RIGGING ANCHOR DETAIL
Scale: 1½"=1'0"
No Req'd - 4

3/4 cont 10"c/c 4
3-6"=5'0"
3/8 @ 13 x 7'0"
3/4 @ 10

El: 670 Abut 1
El 2680 Abut 3

SECTION A-A

AS BUILT
CORRECTIONS BY Houdeman
DATE 1-3-57

AS BUILT PLANS
Contract No. 56-6TC1
Date Completed
Document No. 60000990

DESIGN SECTION 8
PROJECT DESIGNER Mario M. Magnoli

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

KERMAN BRANCH UNDERPASS

ABUTMENTS

SCALE 1½"=1'0"	BRIDGE 42-190	FILE	DRAWING C [illegible]0-3

PREL. DRAWING No. P- 3570

DESIGN 8 SECTION

Submitted by Chas. A. Sandahl

	Date	Checked
DESIGN	11-24-54	[illegible]
DETAILS	11-24-54	[illegible]
QUANTITIES	11-24-54	[illegible]
SPECIFICATIONS	11-24-54	[illegible]

Approve for submission [illegible] Date [illegible]

Approved [illegible] Date [illegible]

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DATE [illegible] SIGNATURE [illegible] TITLE [illegible]

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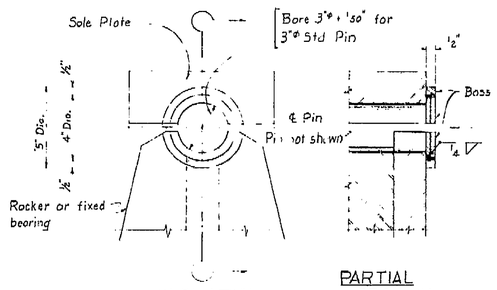
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7	CAL.	0-8198 (2)		142	162

DIST	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	41	C	10	12

Bruce Emanuel, Civil Engineer—License 9088

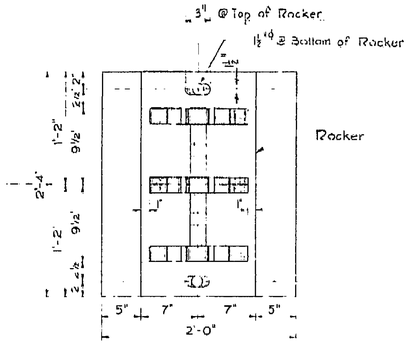
DATE APPROVED February 28, 1955

BRIDGE DEPARTMENT

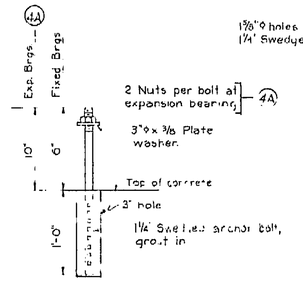


ELEVATION PARTIAL SECTION

③ BOSS DETAIL
Scale: 3"=1'-0"

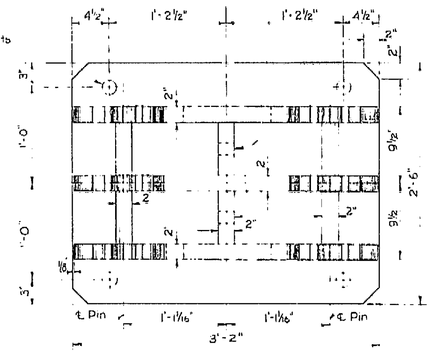


PLAN

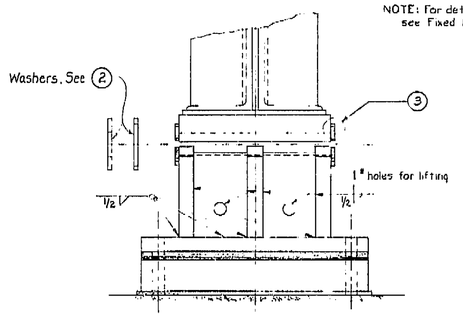


④ ANCHOR BOLT DETAIL
No Scale

④A AS NOTED

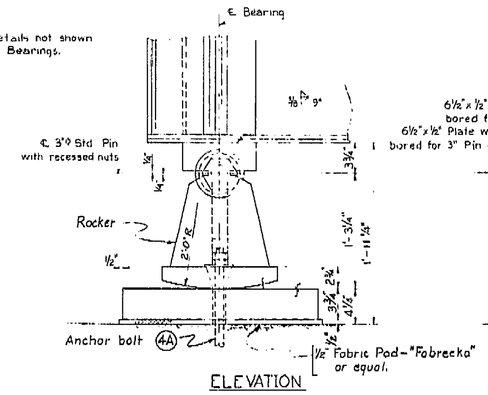


PLAN

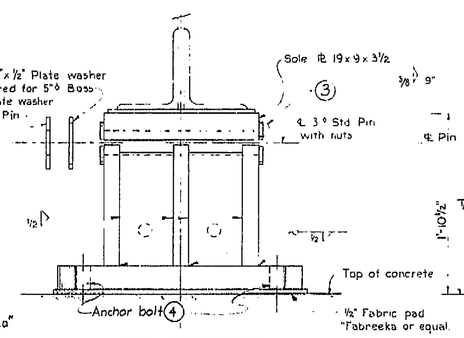


END ELEVATION

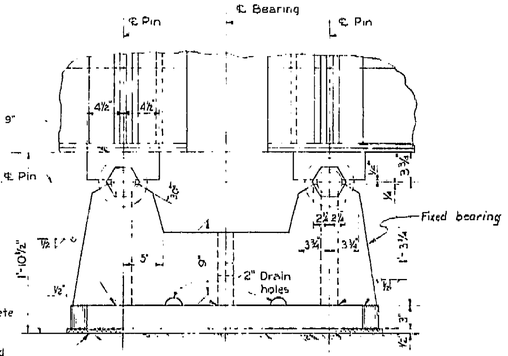
NOTE: For details not shown see Fixed Bearings.



ELEVATION



END ELEVATION



ELEVATION

① EXPANSION BEARING
(At Abutments Total 4 Req'd.)

② FIXED BEARINGS
(At Pier #2 Total 2 Req'd.)

NOTE:
Weldments to be stress-relief-annealed after all welding is completed.

	Submitted by	Date	Approved by	Date
DESIGN	O.M.M.	2-54		
DETAILS		2-54		
QUANTITIES		1-55		
SPECIFICATIONS		1-55		
Approved & Recommended for Construction			Bridge Engineer	

DESIGN SECTION

AS BUILT PLANS
Contract No. 56-6TC1
Date Completed
Document No. 60000990

AS BUILT
NO CORRECTIONS ~~BY~~ Necessary
DATE 1-3-57

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

KERMAN BRANCH UNDERPASS

BEARING DETAILS

DESIGN SECTION 8
PROJECT DESIGNER David M. Reynolds

1⅛"=1'-0" except as shown | BRIDGE 42-190 | FILE | DRAWING 0-3570: 10

PREL. DRAWING No. P 3570 | 16 | 21 | 22 | 24 | 67

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 3-22-57 SIGNATURE [illegible] TITLE Photographic Engineering Assistant

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FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.	U-3792 (2)		134	162

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	4	C	-2	

STATE ENGINEER — CHIEF, BRIDGE DEPARTMENT

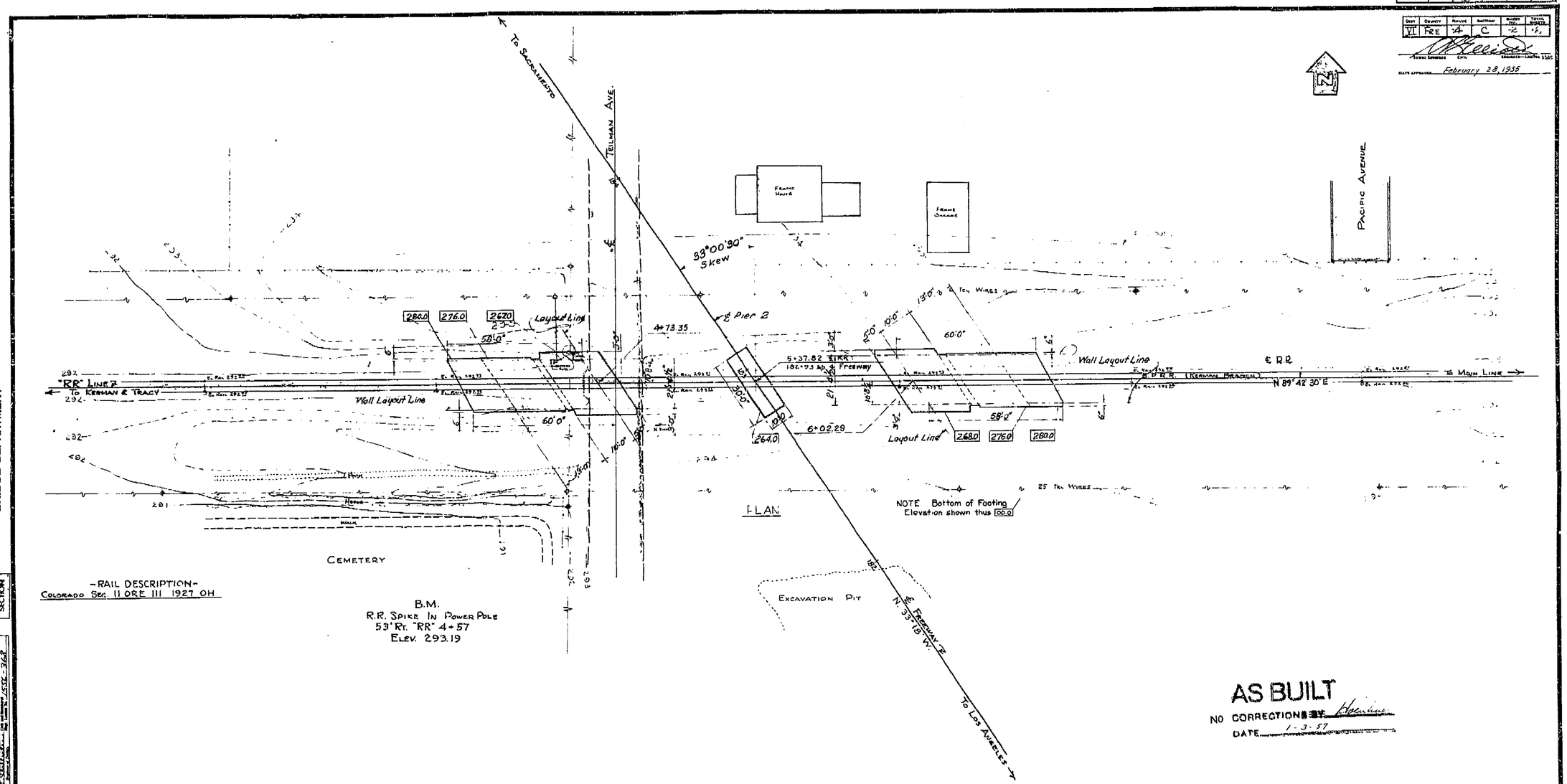
DATE APPROVED February 28, 1955

BRIDGE DEPARTMENT

DESIGN 8 SECTION

	By	Date	Checked
DESIGN	R. C. Mc Neil	3-56	
DETAILS	R. C. J. C.		
QUANTITIES	R. C. J. C.		
SPECIFICATIONS	R. C. Mc Neil		

Submitted by R. C. Mc Neil
Approved by Bridge Engineer
Approved for transmittal by State Bridge Engineer
Bridge No. 42-190 Contract No. 56-368



-RAIL DESCRIPTION-
Colorado Sec. 11 ORE 111 1927 OH

B.M.
R.R. Spike In Power Pole
53' Rt. "RR" 4+57
Elev. 293.19

AS BUILT
NO CORRECTIONS
DATE 1-3-57

AS BUILT PLANS
Contract No. 56-67C1
Date Completed
Document No. 60000990

DESIGN SECTION 8
PROJECT DESIGNER

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

KERMAN BRANCH UNDERPASS

FOUNDATION PLAN

SCALE 1" = 20 | BRIDGE 42-190 | FILE | DRAWING 3570-2

PREL. DRAWING NO. P-3570 8 5 6

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DATE _____ SIGNATURE _____ TITLE _____

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7	CAL.	11-019801 (2)		136	162

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	41	C	4	12

DATE APPROVED February 28, 1955

BRIDGE DEPARTMENT

1¼ @ 12 x 10'0" top & bottom

1¼ @ 12 x 12'0" top & bottom, total 3'

1¼ @ 12 top & bottom

Exp. Jt.

Limits of Type 25 Facing Paint

Batter ⅛ : 12

Type II reinforcement See Section A-A Alternate sheet

Exp. Jt.

1¼ @ 12 x 10'0" top & bottom

1¼ @ 12 x 10'0" top & bottom, total 3'

ABUTMENT PLAN

Scale: ¼" = 1'0"

Curb Line

10: 8¼"

3"

1'0"

Batter ⅛ : 12

Symm about ℄

10: 8¼"

1'6"

1¼ @ 15

5/8 : 12

5/8 @ 12

3"

1¼ @ 10

5/8 @ 12

3'-3"

2'0"

5/8 @ 12 x 3'0"

1¼ @ 6" @ 10'

4'-2"

1¼ Rad.

SECTION B-B

SECTION C-C

Exp Jt.
See Detail "M"

⅝ @ 18

⅝ @ 18

1" @ 8

1¼ @ 12

Total 6" (1" pad + 5" slope)

SECTION G-G

⅝ @ 18

⅝ @ 18

1" @ 8

2'0"

1" @ 9 - 4'6" Dowels in Footing

1¼ @ 6

⅝ @ 18

SECTION J-J

6"

3" Dia.

3" Exp Jt Filler

6" Rubber Waterstop

DETAIL "M"

Scale: 3" = 1'0"

1'-6"

5/8 @ 18

5/8 @ 18

SECTION D-D

Scale: ¾" = 1'0"

1¼ @ 12

⅝ @ 18

4" 10ga Pipe

⅝ @ 18 x 5'0" Dowels in Footing

1¼ @ 1

1" @ 8 - 3'0"

1" @ 8

1" @ 8

⅝ @ 18 - 13'0"

¾ @ 6" - 1'0" Total 7 (2" Invert Seat)

Exp Jt See Detail "M"

5/8 @ 18

SECTION F-F

Scale: ¾" = 1'0"

4'0" Normal

⅝ @ 12

1'-6"

Slab reinforcement

⅝ @ 18

5/8 @ 12

⅝ x 3'0" @ 12 Top of Footing

1'-6" Normal

9/4 Cont

SECTION K-K

Scale: ¾" = 1'0"

Note: See "Abutments" sheet for locations of Sections B-B C-C, D-D, F-F, G-G, H-H, J-J, & K-K

1¼ @ 6

⅝ @ 18

1¼ @ 12 x 5'0"

1" @ 9 - 4'6" Dowels in Footing

1" @ 8 - 2'0"

⅝ @ 18

⅝ @ 18

1'-0"

SECTION H-H

Scale: ¾" = 1'-0"

AS BUILT PLANS
Contract No. 56-6TC1
Date Completed
Document No. 60000990

AS BUILT
NO CORRECTIONS BY Hendricks
DATE 3-57

	Submitted by	Approved Recommended
DESIGN DETAILS	By D.M.W. 3-54	Chief, Bridge Design Engineer
QUANTITIES SPECIFICATIONS	By J.T. De Maio 1-55	Chief, Bridge Construction Engineer

Checked by C.M. Kinchloe

Date Submitted 3-6-54

Checked by R.E. Nelson

Date Submitted 3-6-54

Checked by [illegible]

Date Submitted 3-6-54

Checked by [illegible]

Date Submitted 3-6-54

Approved Recommended [illegible]

Chief, Bridge Design

Date Submitted 3-6-54

Chief, Bridge Construction

Date Submitted 3-6-54

Chief, Bridge Maintenance

Date Submitted 3-6-54

Chief, Bridge Maintenance

Date Submitted 3-6-54

Chief, Bridge Maintenance

California Department of Transportation
Division of Maintenance

Structure Maintenance and Investigations

BRIDGE

INSPECTION

RECORDS

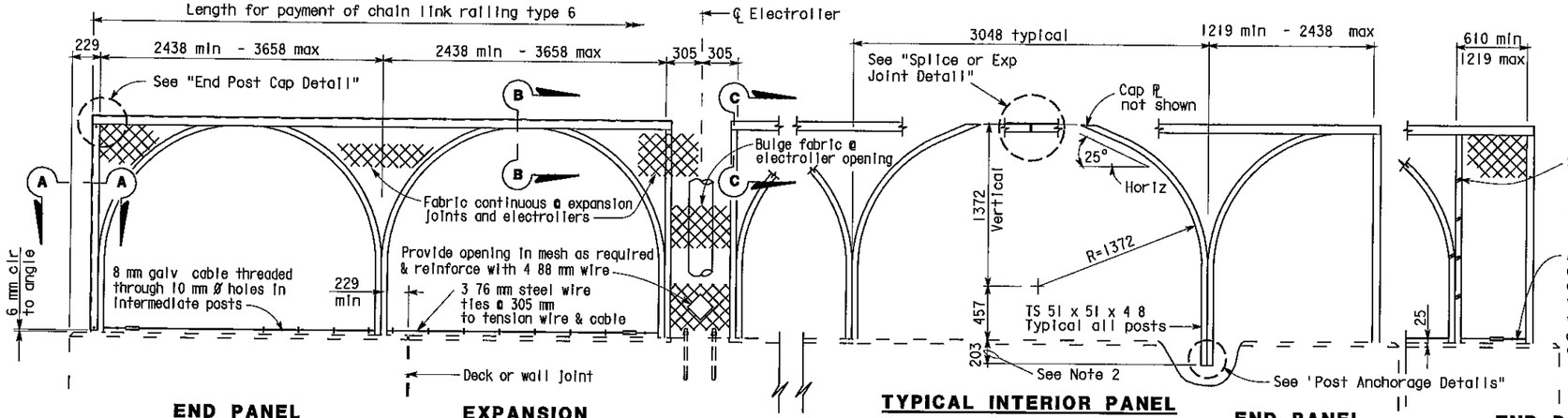
INFORMATION

SYSTEM

The requested documents have been generated by BIRIS.

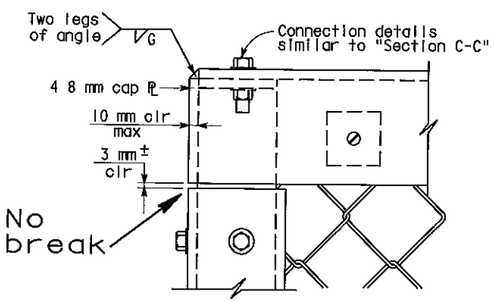
These documents are the property of the California Department of Transportation and should be handled in accordance with Deputy Directive 55 and the State Administrative Manual.

Records for “Confidential” bridges may only be released outside the Department of Transportation upon execution of a confidentiality agreement.

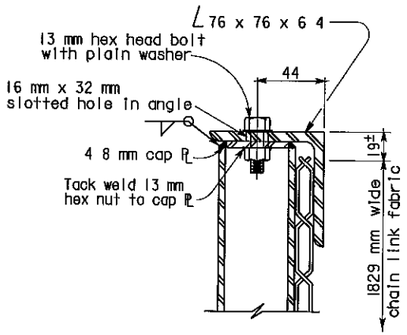


END PANEL 2438 mm - 3658 mm | **EXPANSION PANEL AT ELECTROLIER** | **TYPICAL INTERIOR PANEL** | **END PANEL 1219 mm - 2438 mm** | **END PANEL 610 mm - 1219 mm**

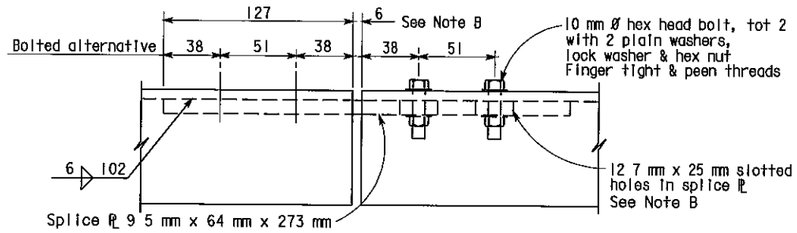
ELEVATION



END POST CAP DETAIL

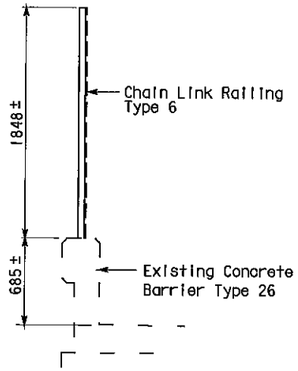


SECTION C-C

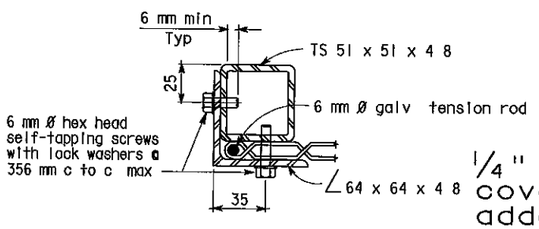


SPLICE OR EXPANSION JOINT DETAIL

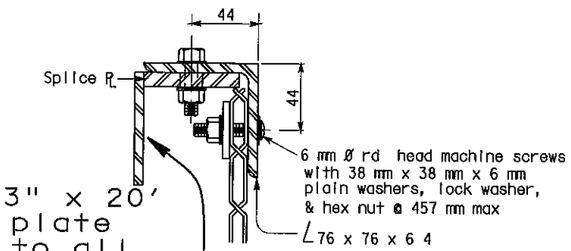
Note B Expansion joint same dimension as expansion joint in deck or wall Increase slotted hole length and splice ℙ length correspondingly



TYPICAL SECTIONS



SECTION A-A



SECTION B-B

NOTES

1. Horizontal angle shall be continuous over not less than two intermediate posts except that a shorter length is permitted at expansion joints, electrollers and other rail discontinuities
2. One post may be embedded 152 mm minimum to accomodate grade changes, otherwise fabricate post lengths as required
3. Curved posts may be rotated in plan within its post pocket to accomodate curved horizontal alignment
4. Straight posts and straight portions of curved posts shall be installed normal to bridge profile grade
5. Top horizontal angle shall be parallel to bridge profile grade and shall be shop bent to fit horizontal curves
6. When railing is on slope, fabric shall be placed parallel to slope
7. Alternative details may be submitted by Contractor for Engineer's approval
8. Railing assembly except chain link fabric shall be galvanized after fabrication
9. For details and reinforcement not shown, see "Concrete Barrier Type 25 or 26" sheet
10. See Bridge Plans for limits of Chain Link Railing Type 6 Mod
11. Provide thimbles at all cable loops
12. Chain link fabric to be 1829 mm wide with 25 mm mesh and with knuckled selvage top and bottom
13. When railing is placed on a horizontal alignment with a radius of 45 72 m or less, thread 8 mm cable through 10 mm Ø welded eye rods embedded 102 mm into the top of the concrete parapet and equally spaced to limit the middle ordinate distance between the 8 mm cable and the curve to 25 mm max
14. Splices and expansion joints shall be located at ℄ panel
15. Holes in posts for 8 mm cable and its anchorage may be field drilled and painted with zinc rich paint

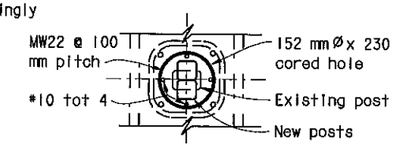
AS BUILT

MRC 1-3-03

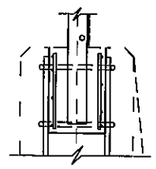
CORRECTIONS BY John Borquez

CONTRACT NO 06-440104

DATE 11-14-02



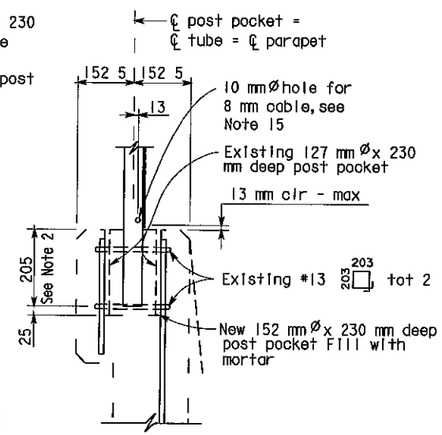
PLAN



SECTION

Detail omitted

POCKET DETAILS



POST ANCHORAGE DETAIL

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	130	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

DESIGN	BY D Acoba	5/00	CHECKED F Tannous	5/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY K Endow	5/00	CHECKED F Tannous	5/00	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE
QUANTITIES	BY D Acoba	5/00	CHECKED F Tannous	5/00	BRIDGE NO Various; KILOMETER POST Varies

ROUTE 99 BRIDGES

CHAIN LINK RAILING TYPE 6 MOD NO. 1

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV 10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE > nat61.dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/17/00 | 9/26/00 | 10/3/00

SHEET 8 OF 11

USERNAME mcarlson DATE PLOTTED > 03-JAN-2003 TIME PLOTTED => 12:11

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
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10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

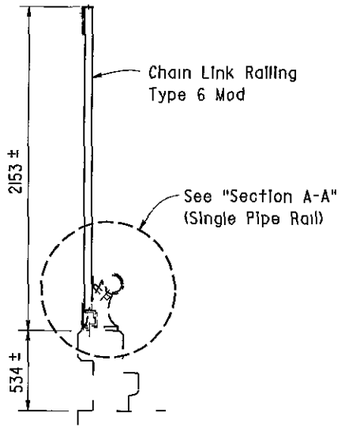
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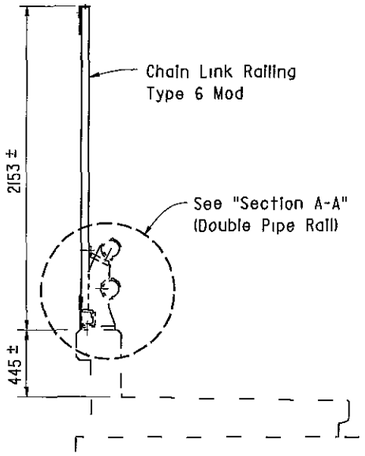
NO CORRECTIONS
AS BUILT

MRC 1-3-03

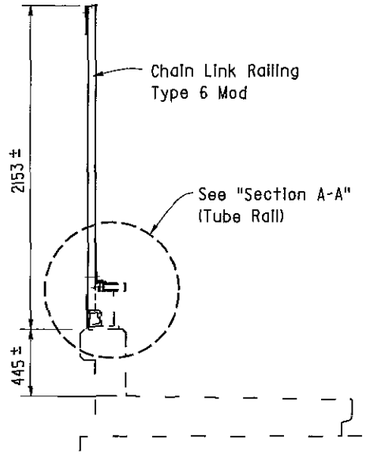
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02



TYPE 1



TYPE 5



TYPE 12

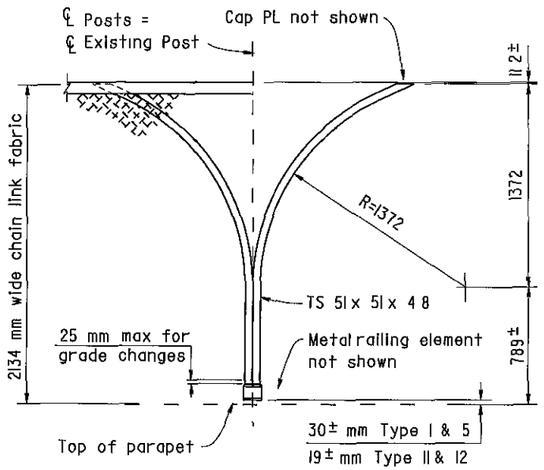
BARRIER RAILING SECTIONS

Existing chain link railing not shown

I 20

TYPE A
- NORTH AVE OC - 2 Locations
- CHURCH AVE OC - 4 Locations
- CALIFORNIA AVE OC - 4 Locations
- VENTURA ST OC - 4 Locations

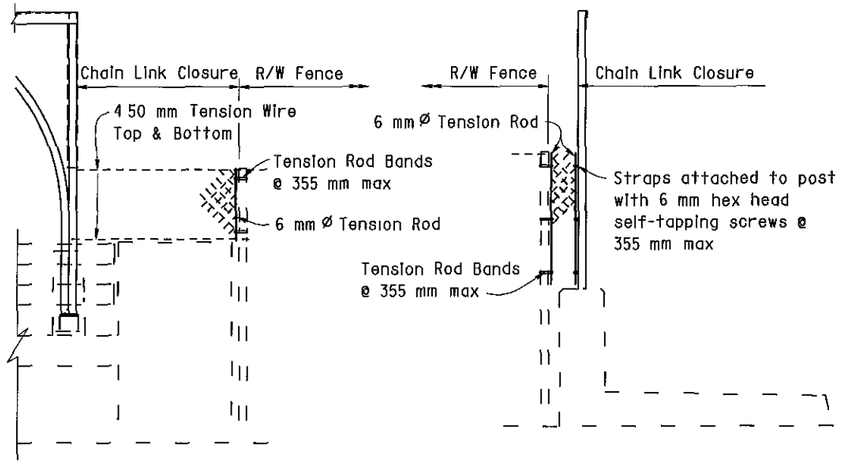
TYPE B
- KERN ST OC - 4 Locations
- TULARE ST OC - 4 Locations
- EL DORADO ST OC - 4 Locations



PART OUTSIDE ELEVATION

Note For details and notes not shown, see "Chain Link Railing Type 6 Mod No 1" sheet

I 10

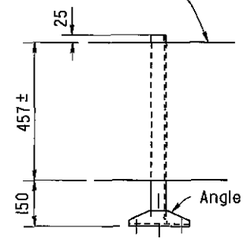


TYPE A TYPE B

R/W FENCE CONNECTION

I 10

Remove existing sign panels and reinstall on new post



TULARE ST OC

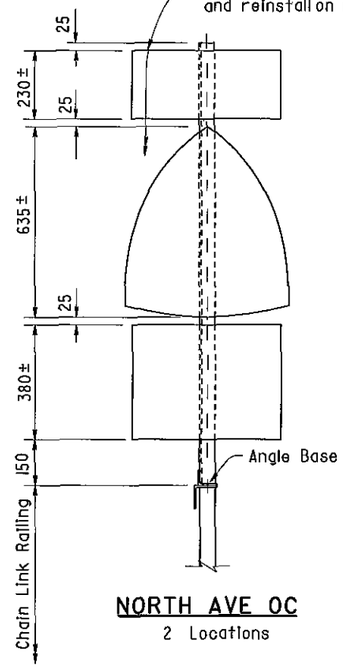
4 Loactions

Note

Reinstall signs at approximately the same location on chain link railing as existing

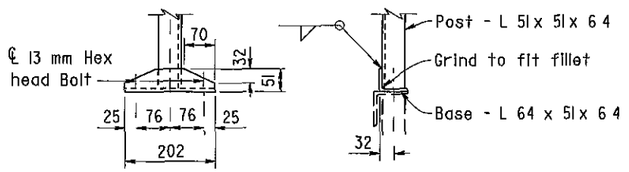
NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Remove existing sign panels and reinstall on new post



NORTH AVE OC

2 Locations



ANGLE BASE

Note

Hot dip galvanize sign post after fabrication
Field drilled holes to be painted with zinc rich paint

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

	BY		CHECKED	
DESIGN	D Acoba	5/00	F Tannous	5/00
DETAILS	K Endow	5/00	F Tannous	5/00
QUANTITIES	D Acoba	5/00	F Tannous	5/00

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
CHAIN LINK RAILING TYPE 6 MOD NO. 2

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE > nat62.dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/17/00 | 9/26/00 | 10/3/00

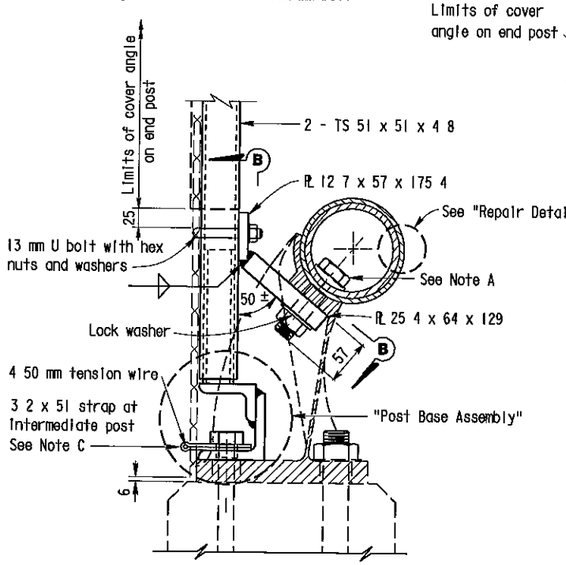
SHEET 9 OF 11

USERNAME => mcarlson DATE PLOTTED > 03-JAN-2003 TIME PLOTTED > 13:23

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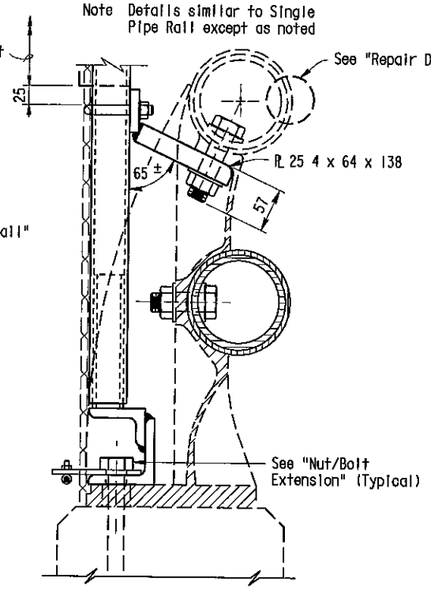
Note A

Replace existing bolt with 25 mm x 102 mm bolt



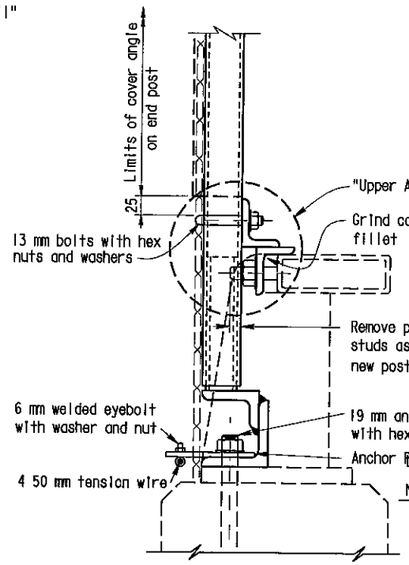
SECTION A-A (SINGLE PIPE RAIL)

Note Details similar to Single Pipe Rail except as noted



SECTION A-A (DOUBLE PIPE RAIL)

Note Details for Type 9 and Type 11 Metal Railing are similar, Type 11 not shown



SECTION A-A (TUBE RAIL)

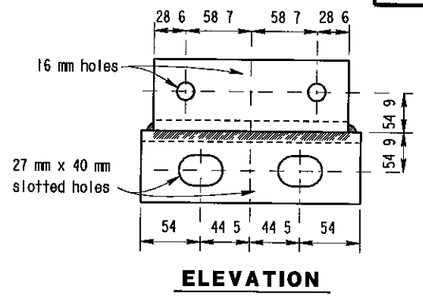
NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Note B

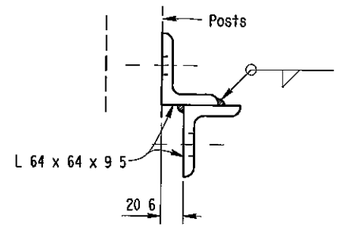
Paint all cut and ground surfaces with zinc rich paint

Note C

At intermediate posts only contractor has an alternate of 3 mm x 51 mm strap or 6 4 mm anchor plate with eyebolt



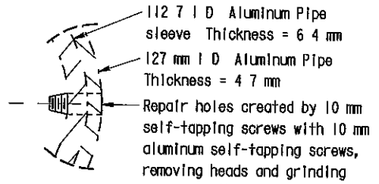
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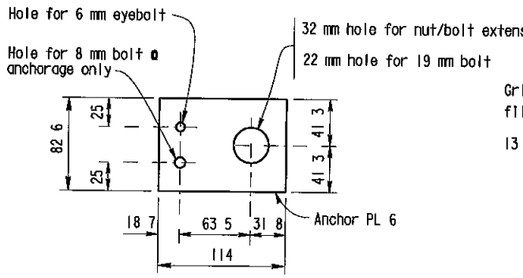
SIDE VIEW

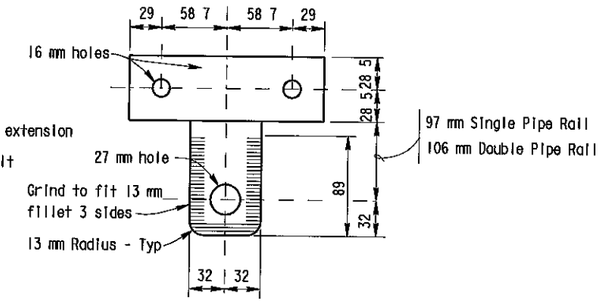
UPPER ANGLE BRACKET

ATTACHMENT DETAILS



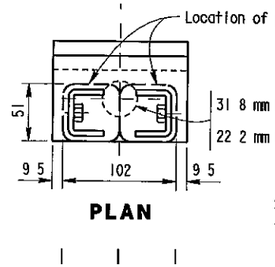
REPAIR DETAIL



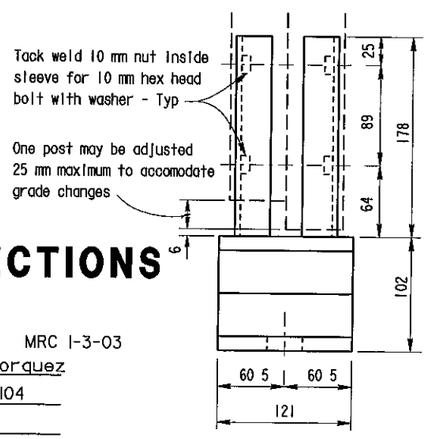


VIEW B-B

(Developed view of upper bracket)

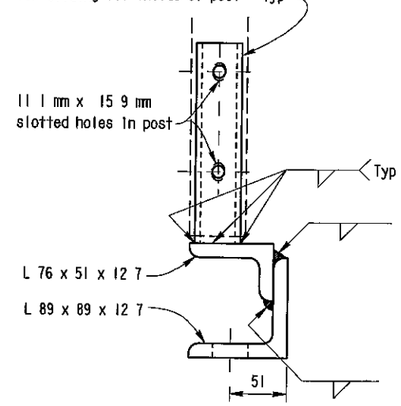


PLAN



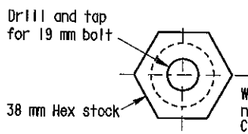
ELEVATION

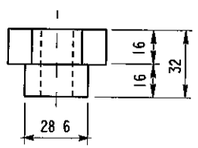
Sleeve formed from PL 4 7, bent thus ⊔ for sliding fit inside of post - Typ



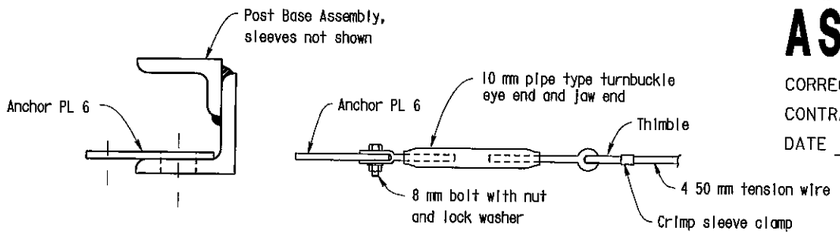
SIDE VIEW

POST BASE ASSEMBLY





NUT/BOLT EXTENSION



BOTTOM ANCHORAGE DETAIL

NO CORRECTIONS AS BUILT

MRC 1-3-03

CORRECTIONS BY John Borquez

CONTRACT NO 06-440104

DATE 11-14-02

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	132	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DIOSDADO ACOBA No 52003 Exp 12-31 02 CIVIL STATE OF CALIFORNIA

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DESIGN	BY D Acoba	5/00	CHECKED F Tannous	5/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY K Endow	5/00	CHECKED F Tannous	5/00	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE
QUANTITIES	BY D Acoba	5/00	CHECKED F Tannous	5/00	CU 06015 EA 440101

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
CHAIN LINK RAILING TYPE 6 MOD NO. 3

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

FILE > nat63 dgn

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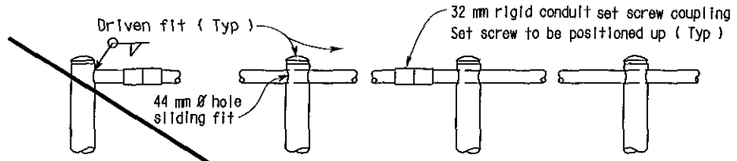
REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 7/17/00 9/26/00 10/3/00

SHEET 10 OF 11

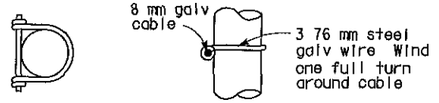
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END POST **INTERMEDIATE POSTS**



PLAN **ELEVATION**

DETAIL H

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
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10-3-00
REGISTERED ENGINEER - CIVIL

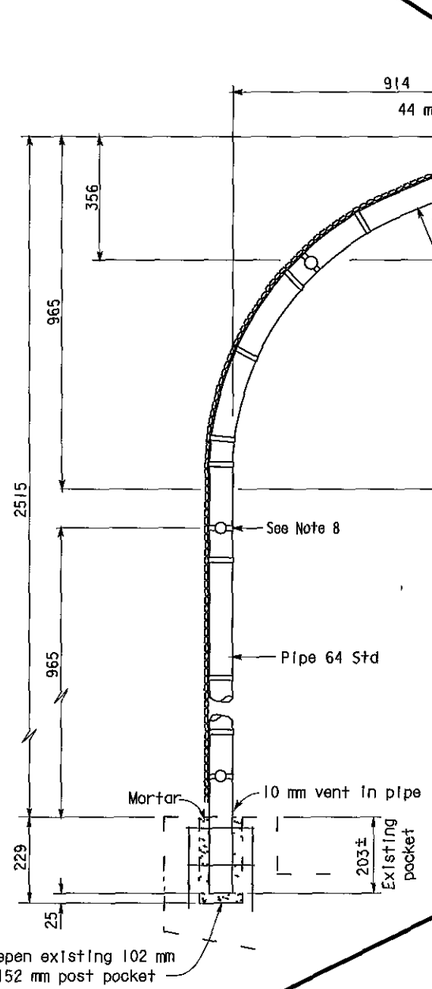
11-13-00
PLANS APPROVAL DATE

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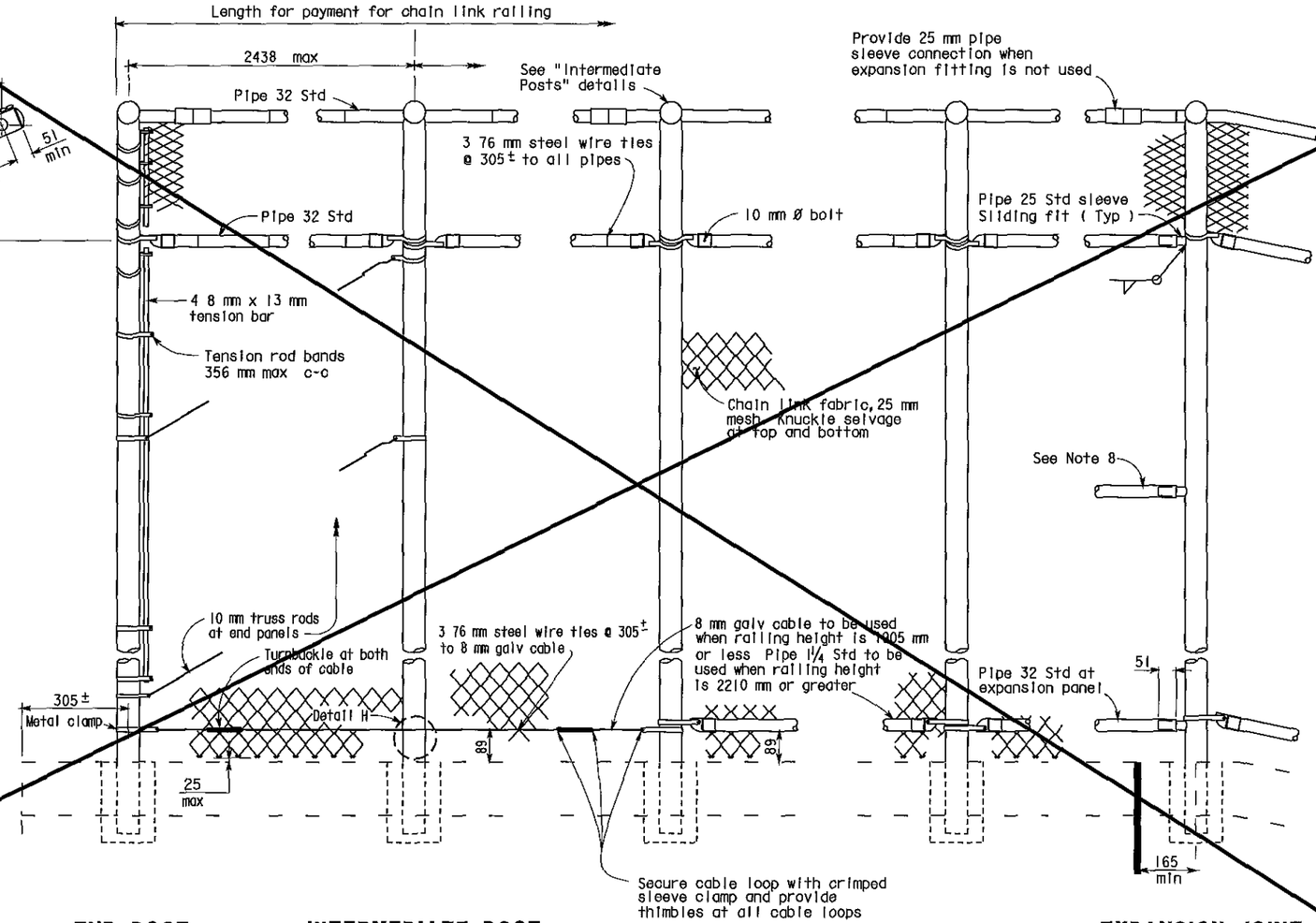
REGISTERED PROFESSIONAL ENGINEER
DIOSDADO ACOBA
No 52003
Exp 12 31 02
CIVIL
STATE OF CALIFORNIA

NOTES:

1 Railing assembly except chain link fabric to be galvanized after fabrication
2 Railing shall conform to horizontal and vertical alignment Posts shall be vertical Horizontal pipes shall be bent if radius is 45 72 m or less may be on 2 438 m chords If radius is over 45 72 m
3 Peen all 10 mm Ø bolts
4 When railing is on slope fabric shall parallel to slope
5 Alternative details may be submitted by Contractor for Engineer's approval
6 Additional pipe 32 std required on radius less than 45 72 m



TYPICAL POST DETAIL



END POST **INTERMEDIATE POST** **EXPANSION JOINT**

ELEVATION

Sheet Deleted

No Type 3 Modified Railing was used on this contract

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

SPECIAL DETAIL

NO SCALE
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

STANDARD DRAWING				
FILE NO XS 9 81	DESIGN BY R W BISHOP	CHECKED J HAMAGUCHI	APPROVAL RECOMMENDED BY	
DRAWING DATE Revised	DETAILS BY R YEE	CHECKED J HAMAGUCHI		
	SUBMITTED BY R W BISHOP		DESIGN SUPERVISOR	

DS OSD 2147A (METRIC) (REV 2/25/97)

1 Revised sheet - removed handrailing and electrical details and notes

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

CU 06105
EA 452001

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
CHAIN LINK RAILING TYPE 3 MOD 1

DISREGARD PRINTS BEARING EARLIER REVISION DATES
REVISION DATES (PRELIMINARY STAGE ONLY) 5/30/00 7/17/00 9/28/00 10/3/00

SHEET 11 OF 11

USERNAME > mgarlson
x5981 dgn
XS981 DGN

DATE PLOTTED > 03-JAN-2003 TIME PLOTTED > 13 32

ClibPDF - www.fastio.com

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Caltrans Metric

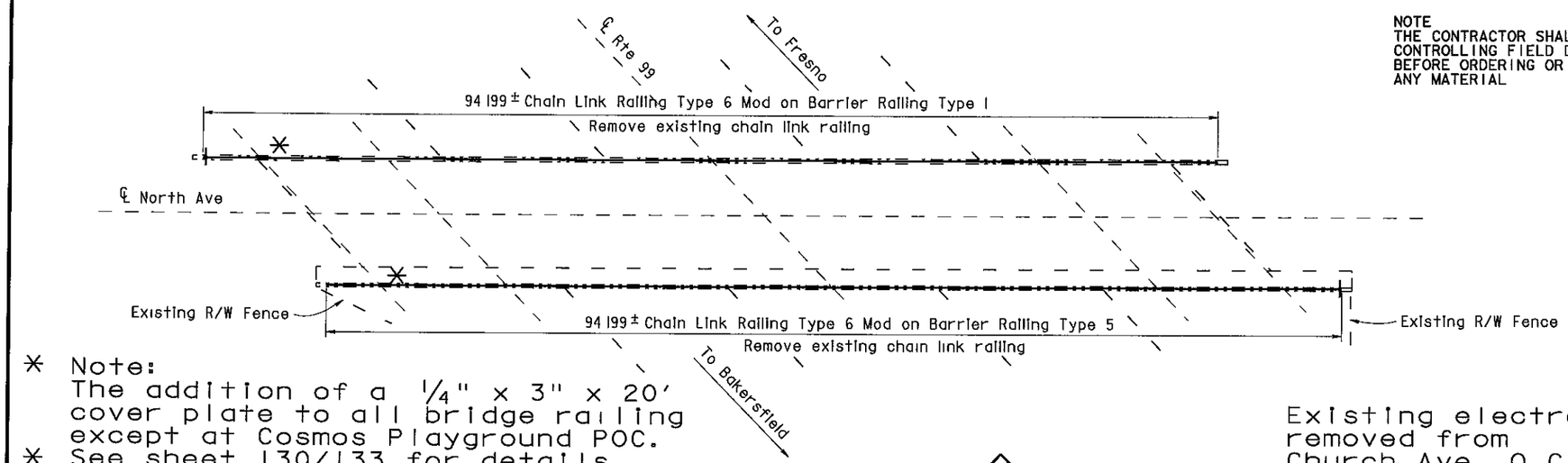
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06	Fre	99	23 3/50 7	123	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DIOSDADO ACOBA
No 52003
Exp 12-31-02
CIVIL
STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet



* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

NORTH AVENUE OC

Br No 42-0210, Fre, KP 27 8
1 250

Existing electroliers removed from Church Ave. O.C.

NOTES

— — Indicates existing

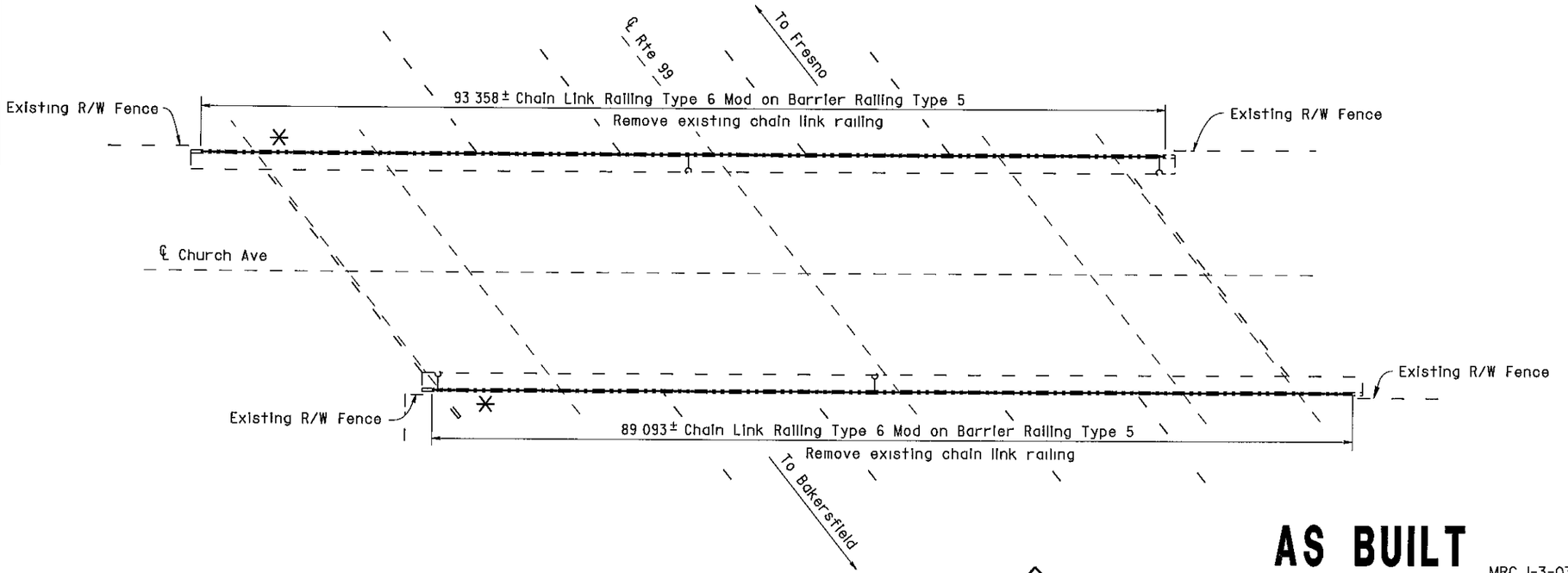
℄ Indicates approximate location of existing electrolier (To remain)

Indicates approximate location of remove and reinstall sign on new post

Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details

INDEX TO PLANS

SHEET NO	TITLE
1	GENERAL PLAN NO 1
2	GENERAL PLAN NO 2
3	GENERAL PLAN NO 3
4	GENERAL PLAN NO 4
5	GENERAL PLAN NO 5
6	GENERAL PLAN NO 6
7	GENERAL PLAN NO 7
8	CHAIN LINK RAILING TYPE 6 MOD NO 1
9	CHAIN LINK RAILING TYPE 6 MOD NO 2
10	CHAIN LINK RAILING TYPE 6 MOD NO 3
11	CHAIN LINK RAILING TYPE 3 MOD



CHURCH AVENUE OC

Br No 42-0214, Fre, KP 30 9
1 250

AS BUILT MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

NORTH AVENUE OC 42-0210
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION A	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	189 m

CHURCH AVENUE OC 42-0214
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION B	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	183 m

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED		BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00	LAYOUT	K Endow	4/00	D Acoba	4/00
DETAILS	K Endow	4/00	F Tannous	5/00				PLANS AND SPECS COMPARED	
QUANTITIES	D Acoba	5/00	F Tannous	5/00	SPECIFICATIONS	J Maroney	9/00	J Maroney	9/00

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 1

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 5/15/00 7/17/00 9/26/00 10/3/00

SHEET 1 OF 11

FILE -> nagpl.dgn

USERNAME -> mgarson DATE PLOTTED -> 02 JAN 2003 TIME PLOTTED -> 16:55

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	99	23 3/50 7	125	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

VENTURA STREET OC 42-0158K
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION E	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	78 m

VENTURA STREET OC 42-0158E
QUANTITIES

BRIDGE REMOVAL (PORTION) LOCATION F	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	122 m

VENTURA STREET OC 42-0158S
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION G	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	74 m

NOTES

— — Indicates existing

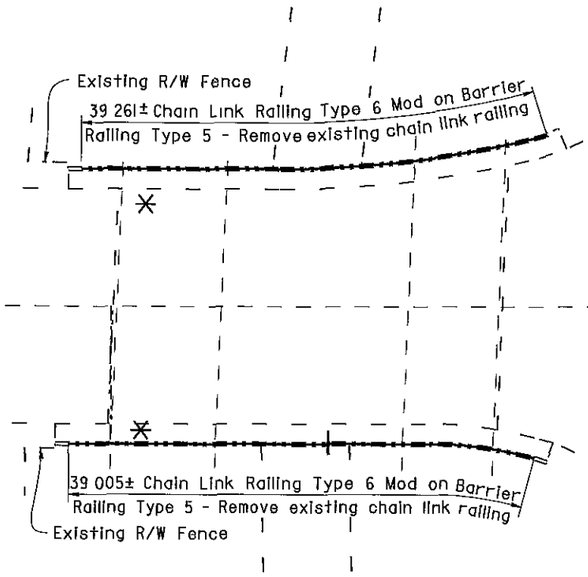
℄ Indicates approximate location of existing electroller (To remain)

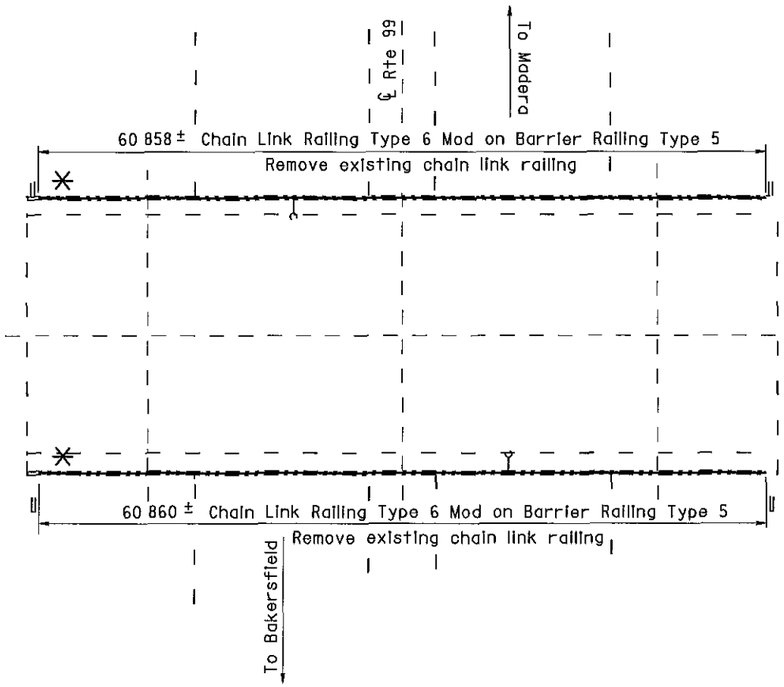
Indicates approximate location of remove and reinstall sign on new post

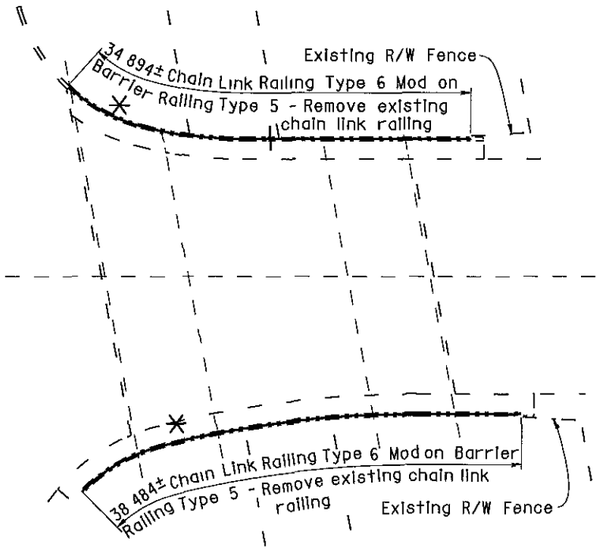
Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.







Br No 42-0158K

Bridges 42-0158K and 42-0158S were both painted with Color No. 20109 - "Deep red".

Br No. 42-0158E

VENTURA STREET OC

Fre, KP 32 5
I 250

AS BUILT
MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

Br No 42-0158S

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

	BY		CHECKED			BY		CHECKED			
DESIGN	D Acoba	4/00	F Tannous	5/00	LAYOUT	K Endow	4/00	D Acoba	4/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE
DETAILS	K Endow	4/00	F Tannous	5/00				PLANS AND SPECS COMPARED			
QUANTITIES	D Acoba	5/00	F Tannous	5/00	SPECIFICATIONS	J Maroney	9/00	J Maroney	9/00		

Michael J Lee 10/3/00
DESIGN ENGINEER

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE => nagp3.dgn

BRIDGE NO Various
KILOMETER POST Varies

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/17/00 | 9/28/00 | 10/1/00

ROUTE 99 BRIDGES
GENERAL PLAN NO. 3

SHEET 3 OF 11

USERNAME => mcarlson DATE PLOTTED => 03 JAN 2003 TIME PLOTTED => 08 32

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	129	133

10/3/00
REGISTERED CIVIL ENGINEER

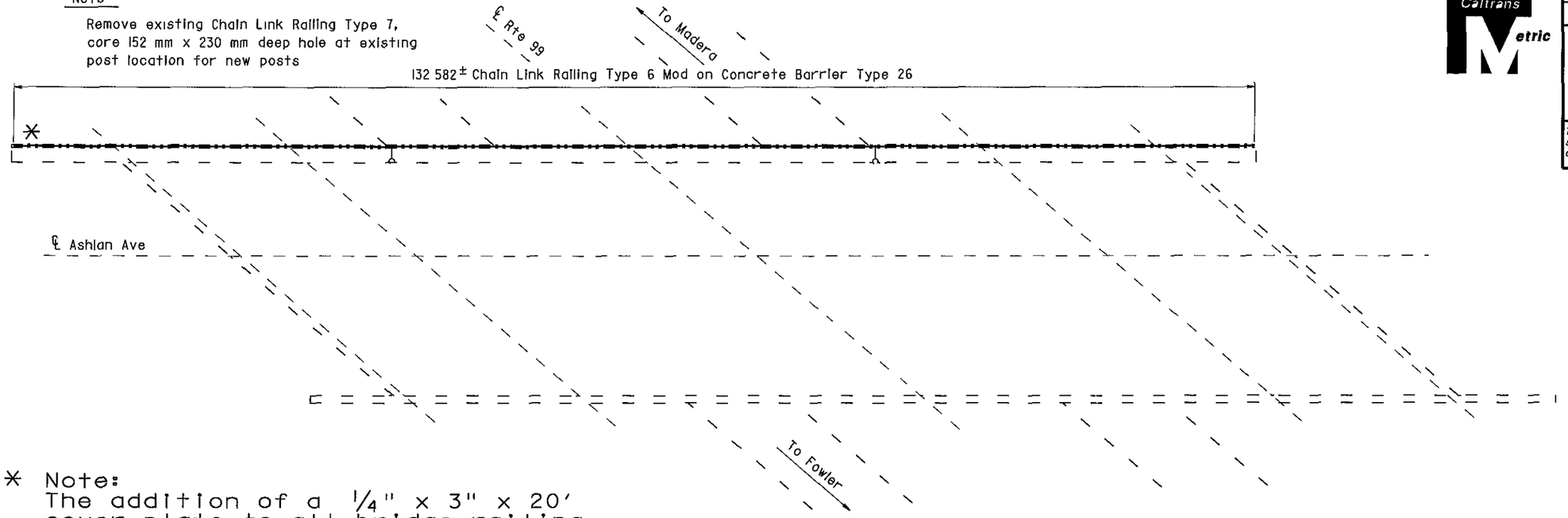
11-13-00
PLANS APPROVAL DATE

DIOSDADO ACOBA No 52003 Exp 12-31-02 CIVIL STATE OF CALIFORNIA

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Note

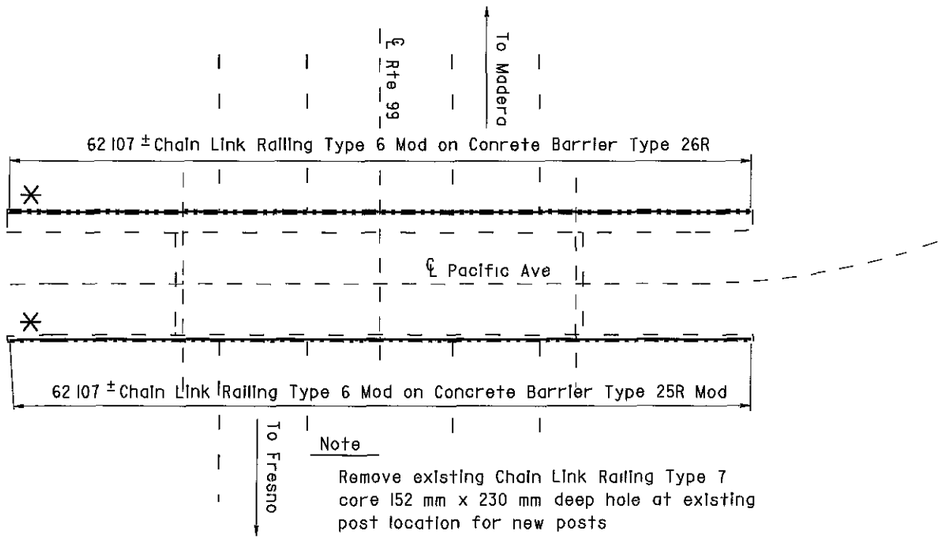
Remove existing Chain Link Railing Type 7, core 152 mm x 230 mm deep hole at existing post location for new posts



* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

ASHLAN AVENUE OC

Br No 42-0140, Fre, KP 42 8
1 250



Note

Remove existing Chain Link Railing Type 7 core 152 mm x 230 mm deep hole at existing post location for new posts

PACIFIC AVENUE OC

Br No 42-0189, Fre, KP 36 0
1 250

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

NOTES

— — Indicates existing

℄ ↓ Indicates approximate location of existing electrolier (To remain)

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

ASHLAN AVENUE OC 42-0140
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION O	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	133 m

PACIFIC AVENUE OC 42-0189
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION P	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	124 m

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

DESIGN	BY D Acoba 4/00	CHECKED F Tannous 5/00	LAYOUT	BY K Endow 4/00	CHECKED D Acoba 4/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE
DETAILS	BY K Endow 4/00	CHECKED F Tannous 5/00					
QUANTITIES	BY D Acoba 5/00	CHECKED F Tannous 5/00	SPECIFICATIONS	BY J Maroney 9/00	PLANS AND SPECS COMPARED J Maroney 9/00		

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 7

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE => nagp7.dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 5/15/00 7/17/00 9/26/00 10/3/00

SHEET 7 OF 11

USERNAME -> mgarrison DATE PLOTTED => 03 JAN 2003 TIME PLOTTED => 11:45

ClibPDF - www.fastio.com

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	128	133

10/3/00
REGISTERED CIVIL ENGINEER

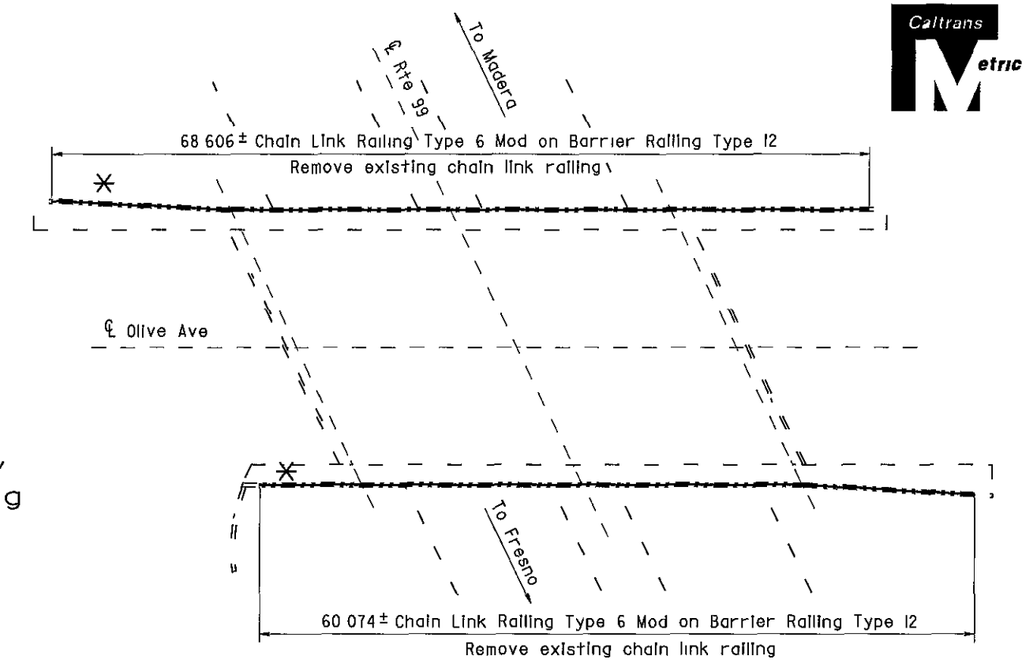
11-13-00
PLANS APPROVAL DATE

DIOSDADO ACOBA No 52003 Exp 12-31 02 CIVIL STATE OF CALIFORNIA REGISTERED PROFESSIONAL ENGINEER

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.



OLIVE AVENUE OC

Br No 42-0187, Fre, KP 37 5
1 250

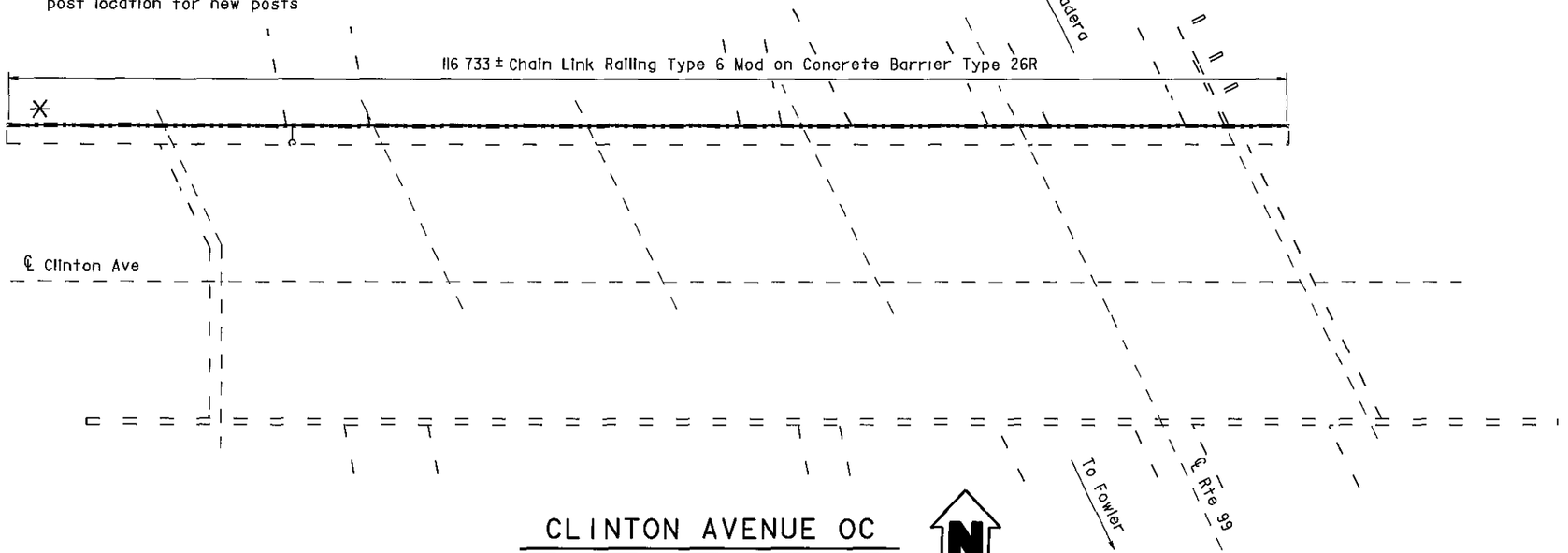
NOTES

— — Indicates existing

℄ Indicates approximate location of existing electrolier (To remain)

Note

Remove existing Chain Link Railing Type 7 core 152 mm x 230 mm deep hole at existing post location for new posts



CLINTON AVENUE OC

Br No 42-0183, Fre, KP 39 3
1 250

OLIVE AVENUE OC 42-0187
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION M	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	129 m

CLINTON AVENUE OC 42-0183
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION N	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	116 m

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED		BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00	LAYOUT	K Endow	4/00	D Acoba 4/00
DETAILS	K Endow	4/00	F Tannous	5/00				
QUANTITIES	D Acoba	5/00	F Tannous	5/00	SPECIFICATIONS	J Maroney	9/00	PLANS AND SPECS COMPARED J Maroney 9/00

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 6

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE => nagp6.dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/17/00 | 9/26/00 | 10/3/00

SHEET 6 OF 11

USERNAME => mcarlson DATE PLOTTED => 03 JAN-2003 TIME PLOTTED => 08 53

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	127	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

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FRESNO STREET OC 42-0170
QUANTITIES

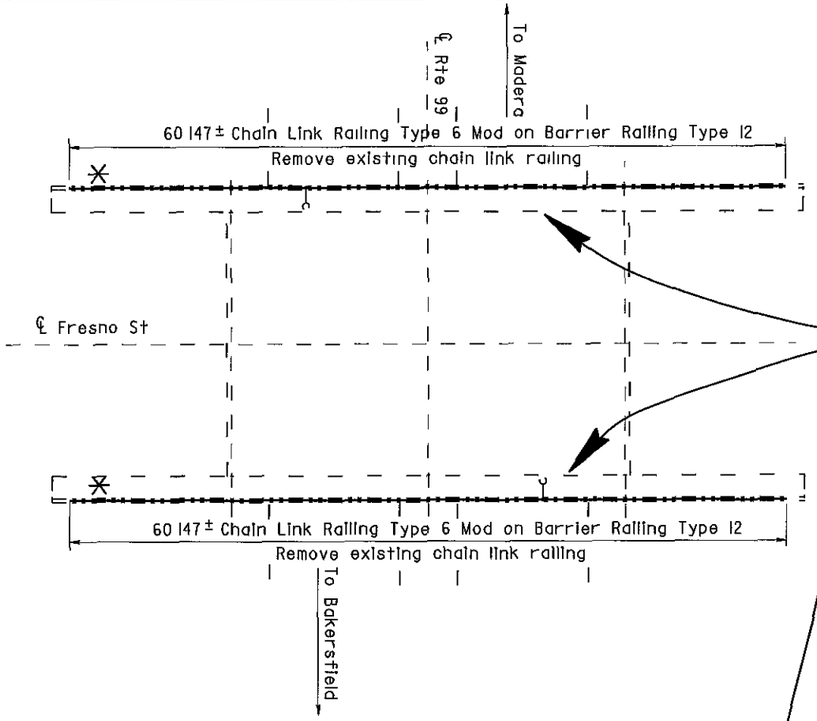
BRIDGE REMOVAL (PORTION), LOCATION J	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	120 m

EL DORADO STREET OC 42-0184
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION K	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	122 m

BELMONT AVENUE OC 42-0186
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION L	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	138 m



Handrail added to Fresno St. and Belmont Ave. OC

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

NOTES

— — Indicates existing

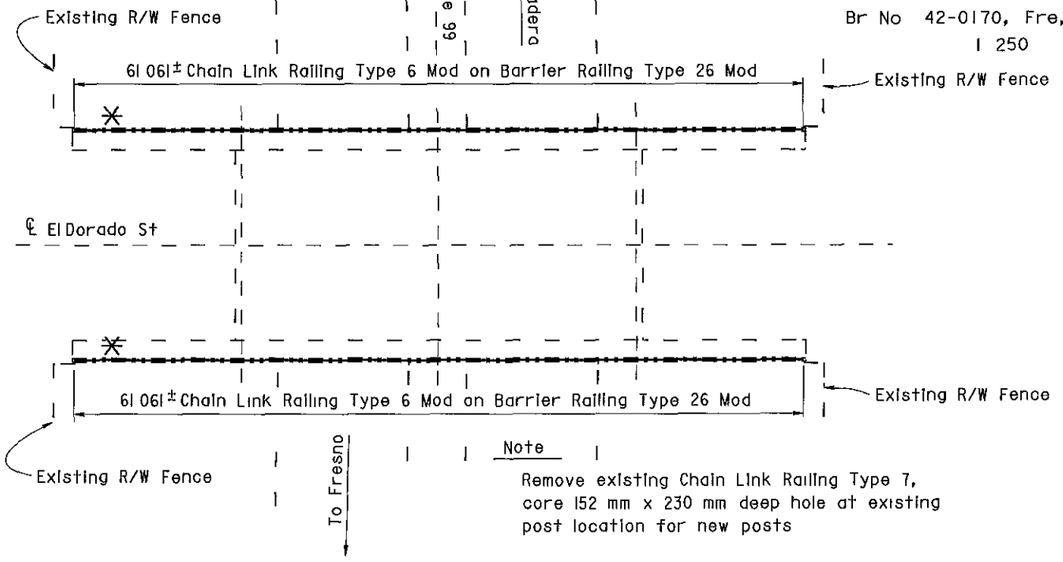
℄ Indicates approximate location of existing electrolier (To remain)

Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

FRESNO STREET OC

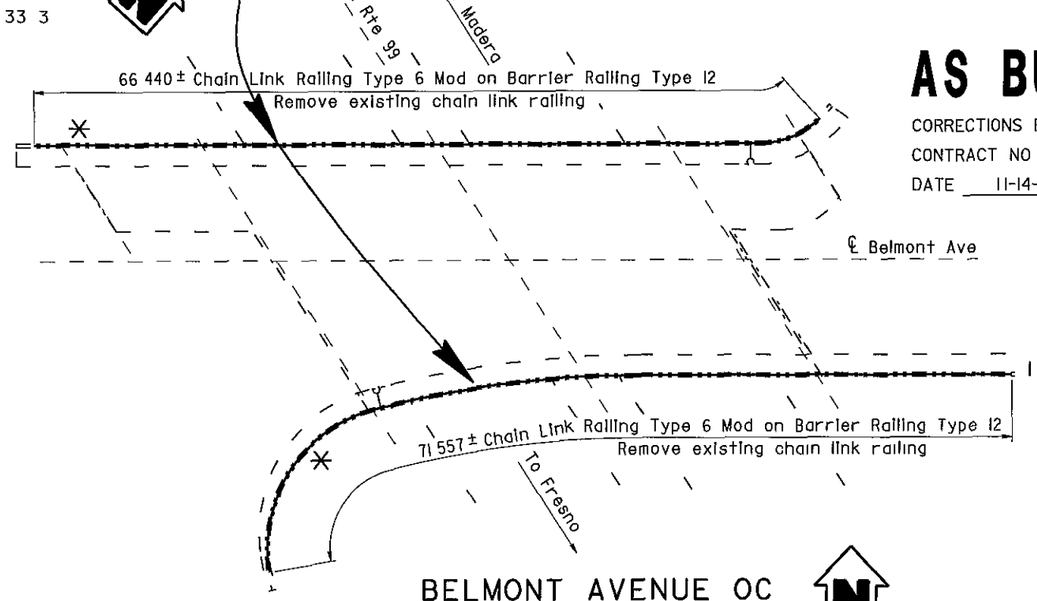
Br No 42-0170, Fre, KP 33 3
1 250



Note
Remove existing Chain Link Railing Type 7, core 152 mm x 230 mm deep hole at existing post location for new posts

EL DORADO STREET OC

Br No 42-0184, Fre, KP 34 6
1 250



BELMONT AVENUE OC

Br No 42-0186, Fre, KP 36 5
1 250

AS BUILT
MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED		LAYOUT	BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00		K Endow	4/00	D Acoba	4/00
DETAILS	K Endow	4/00	F Tannous	5/00				PLANS AND SPECS COMPARED	
QUANTITIES	D Acoba	5/00	F Tannous	5/00	SPECIFICATIONS	J Maroney	9/00	J Maroney	9/00

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

CU 06015
EA 440101

FILE => nogp5.dgn

BRIDGE NO	Various
KILOMETER POST	Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 5

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)									
5/15/00	7/17/00	9/26/00	10/3/00						

SHEET 5 OF 11

USERNAME => marison DATE PLOTTED => 03-JAN 2003 TIME PLOTTED => 06 50

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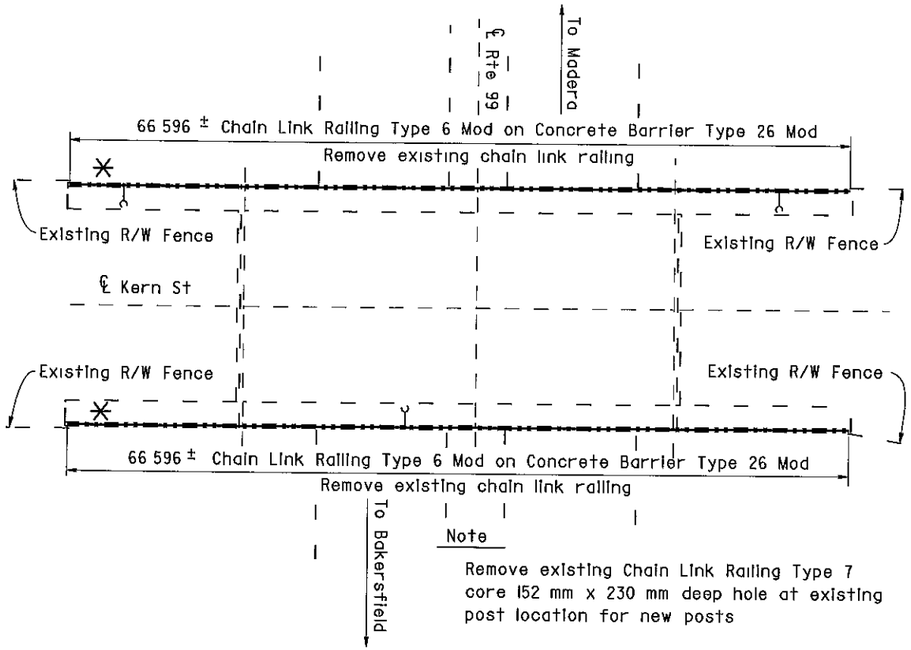
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	126	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet



Note

Remove existing Chain Link Railing Type 7 core 152 mm x 230 mm deep hole at existing post location for new posts

KERN STREET OC

Br No 42-0159, Fre, KP 33 0
1 250

KERN STREET OC 42-0159
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION H	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	133 m

TULARE STREET OC 42-0169
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION I	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	166 m

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

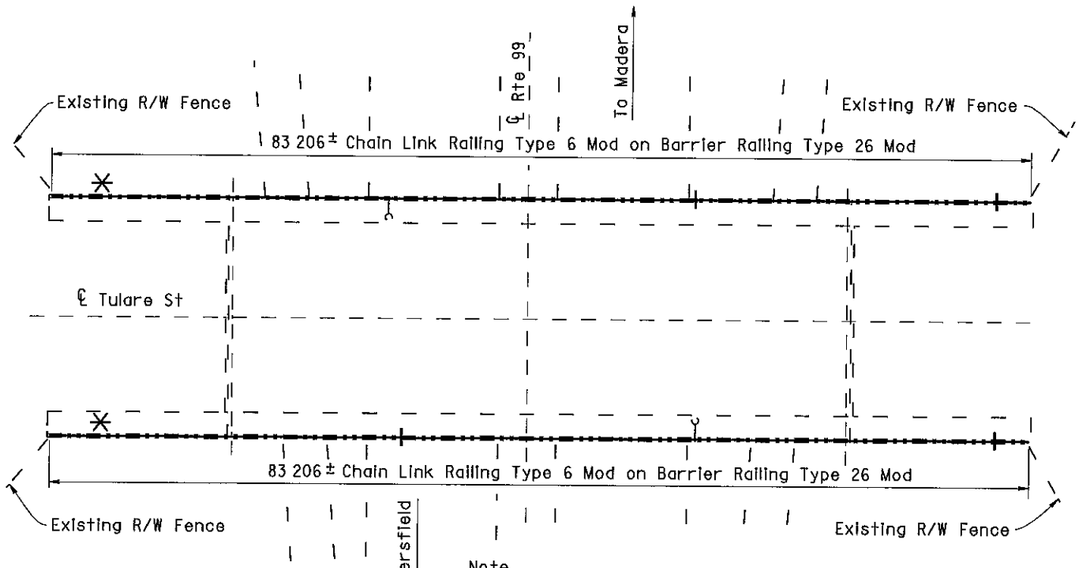
NOTES

— — Indicates existing

℄ Indicates approximate location of existing electrolier (To remain)

Indicates approximate location of remove and reinstall sign on new post

Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details



Note

Remove existing Chain Link Railing Type 7 core 152 mm x 230 mm deep hole at existing post location for new posts

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

TULARE STREET OC

Br No 42-0169, Fre, KP 33 2
1 250

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00 DESIGN ENGINEER	DESIGN	BY D Acoba 4/00	CHECKED F Tannous 5/00	LAYOUT	BY K Endow 4/00	CHECKED D Acoba 4/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE	BRIDGE NO Various
	DETAILS	BY K Endow 4/00	CHECKED F Tannous 5/00						KILOMETER POST Varies
	QUANTITIES	BY D Acoba 5/00	CHECKED F Tannous 5/00	SPECIFICATIONS	BY J Maroney 9/00	PLANS AND SPECS COMPARED J Maroney 9/00		CU 06015 EA 440101	DISREGARD PRINTS BEARING EARLIER REVISION DATES

ROUTE 99 BRIDGES
GENERAL PLAN NO. 4

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 7/17/00 9/26/00 10/3/00

SHEET 4 OF 11

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

FILE > nagp4 dgn

USERNAME > mcarlson DATE PLOTTED > 03-JAN-2003 TIME PLOTTED => 08:38

ClibPDF - www.fastio.com

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	124	133

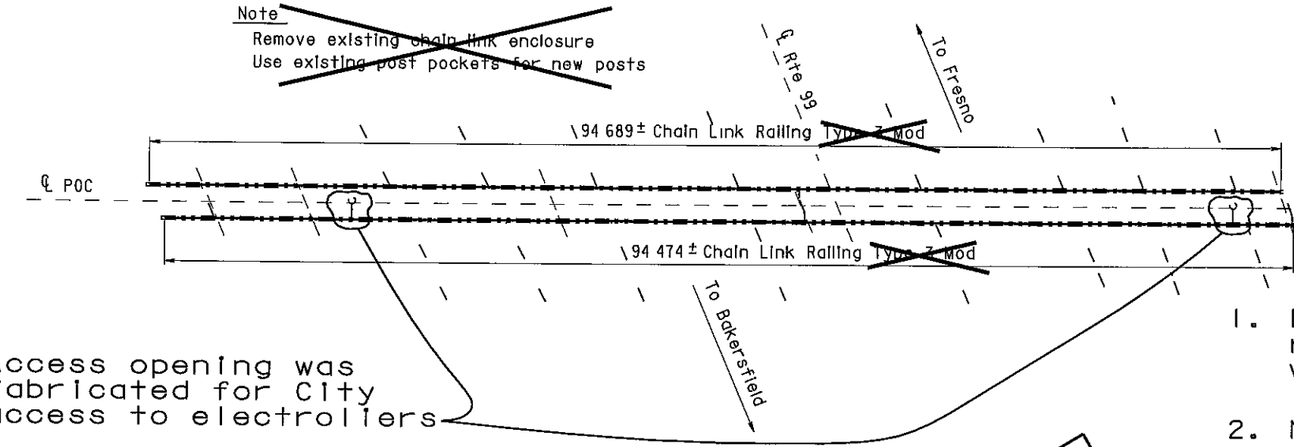
10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

Note
Remove existing chain link enclosure
Use existing post pockets for new posts



COSMOS PLAYGROUND POC

Br No 42-0215, Fre, KP 31 2
1 250

1. Existing chain link railing remained and was painted.
2. New 1" mesh was installed and replaced the old 2" mesh.
3. Existing electroliers remained.

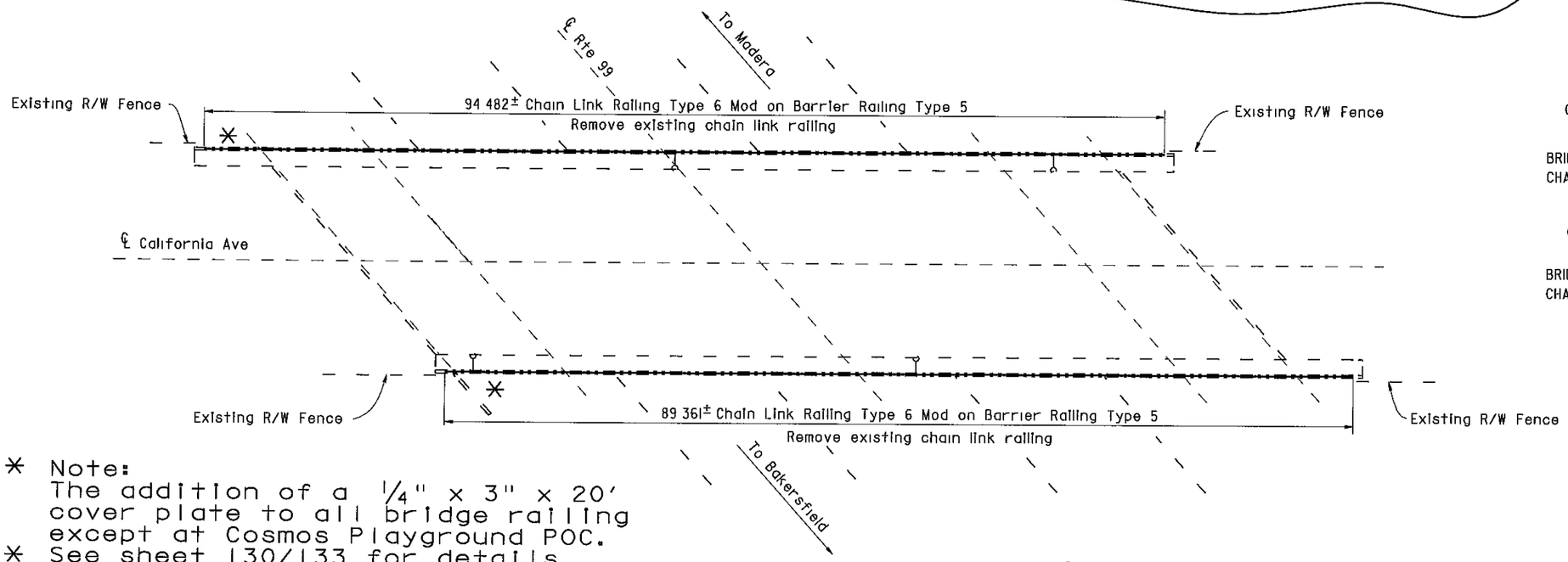
NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

NOTES

— — Indicates existing

℄ Indicates approximate location of existing electroliter (To remain)

Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details



COSMOS PLAYGROUND POC 42-0215
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION C	LUMP SUM
CHAIN LINK RAILING (TYPE 3 MODIFIED)	209 m

CALIFORNIA AVENUE OC 42-0217
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION D	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	184 m

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

CALIFORNIA AVENUE OC

Br No 42-0217, Fre, KP 32 0
1 250

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borguez
CONTRACT NO 06-440104
DATE 11-14-02

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00
DETAILS	K Endow	4/00	F Tannous	5/00
QUANTITIES	D Acoba	5/00	F Tannous	5/00
LAYOUT	K Endow	4/00	D Acoba	4/00
SPECIFICATIONS	J Maroney	9/00	J Maroney (PLANS AND SPECS COMPARED)	9/00

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

CU 06015
EA 440101

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 2

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/12/00 | 9/26/00 | 10/3/00

SHEET 2 OF 11

FILE -> nagp2.dgn

USERNAME -> morrison DATE PLOTTED -> 03 JAN 2003 TIME PLOTTED -> 08:15

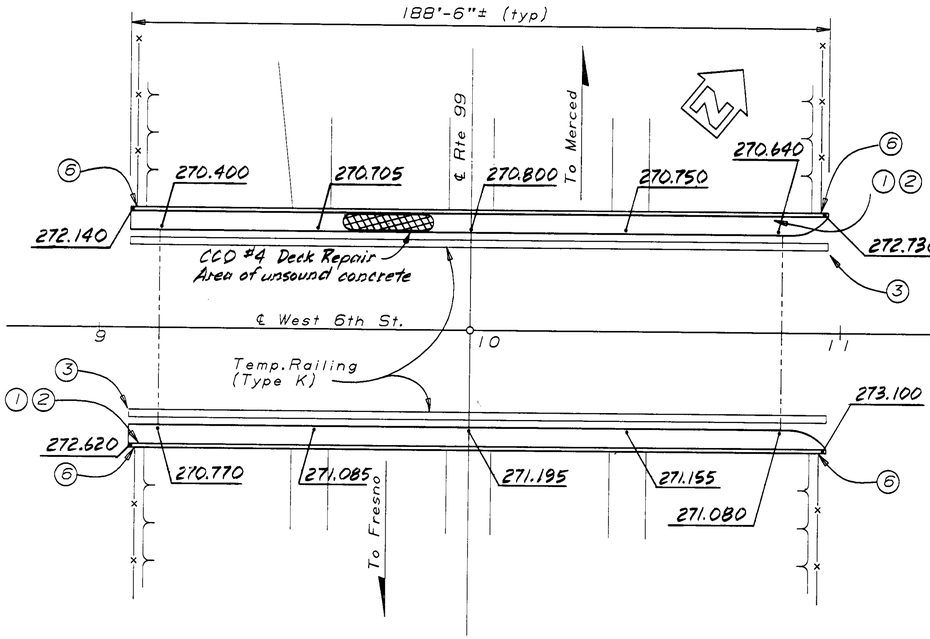
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	17	39

REGISTERED ENGINEER - CIVIL

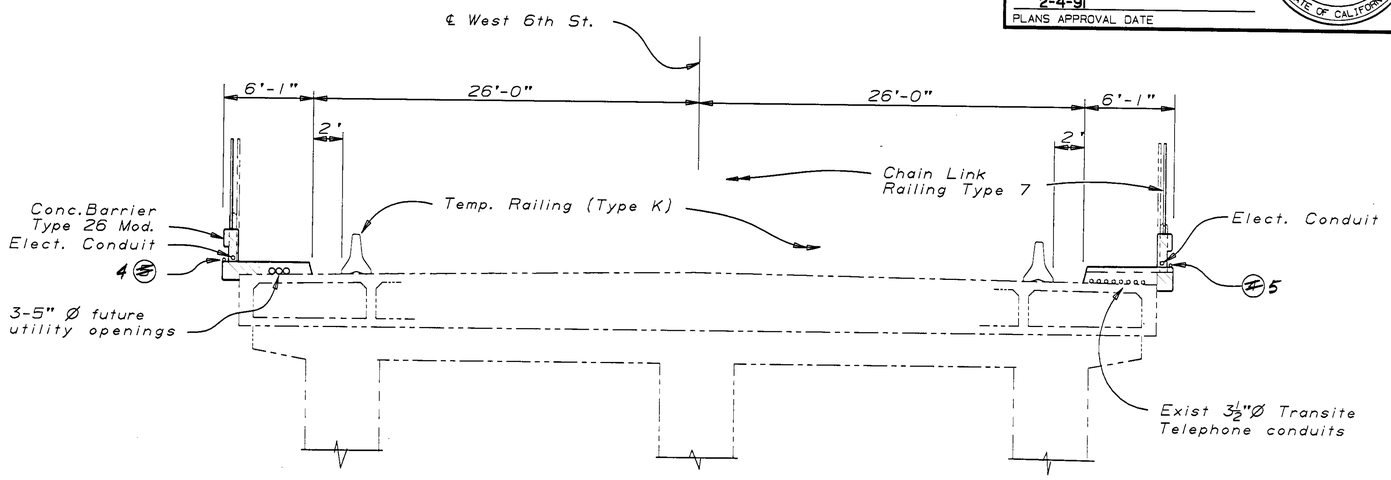
REGISTERED PROFESSIONAL ENGINEER
GARY JOE
No. 36652
Exp. 6-30-90
CIVIL
STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE



PLAN

1" = 20'



TYPICAL SECTION

1"=5'

AS BUILT
DOS 12/8/92
CORRECTIONS BY J. Abercrombie
CONTRACT NO. 06-282204
DATE 8-3-92

APPROXIMATE QUANTITIES

TEMPORARY RAILING (TYPE K)	400 LF
RESET 2 ~~1½"~~ SUPPLY LINE (BRIDGE)	LUMP SUM
BRIDGE REMOVAL (PORTION), LOCATION B	LUMP SUM
REFINISH BRIDGE DECK	169 SQFT

FINAL PAY QUANTITIES

CHAIN LINK RAILING (TYPE 7)	377 LF
CONCRETE BARRIER (TYPE 26 MODIFIED)	377 LF

Notes:

1. Paint "West 6th Street Overcrossing", and year constructed.
2. Paint "Br. No. 41-48".
3. Temporary Crash Cushion Modules, see "Road Plans."
4. Remove existing 2½"Ø water supply line prior to construction and reinstall after barrier rail is complete. Provide temporary water supply line during construction.
5. Remove existing electrical conduit prior to construction. Provide temporary electrical conduit during construction.
6. Remove end post of existing Right of Way Fence prior to construction. Replace and reconnect end post and Fence after Barrier Rail is complete.

Indicates limits of existing Structure removal.

Indicates existing structure.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

WEST SIXTH STREET OVERCROSSING

I M Stoki 12-90
DESIGN ENGINEER

DESIGN	BY D. Ross 9-90	CHECKED G. Joe 9-90	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
DETAILS	BY Flo Callen 5-90	CHECKED G. Joe 9-90	LAYOUT	BY D. Ross 9-90	CHECKED G. Joe 9-90
QUANTITIES	BY D. Ross 9-90	CHECKED S. Maan 9-90	SPECIFICATIONS	BY R. J. Cochrane	PLANS AND SPECS COMPARED R. J. Cochrane

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 9

CU 06200
EA 282201

BRIDGE NO.	41-48
POST MILE	10.3

CONCRETE BARRIER REPLACEMENT
GENERAL PLAN NO. 2

DS OSD 2138 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 5-15-90 | 8-10-90 | 9-7-90 | 9-13-90 | 9-27-90 | 10-1-90 | 10-3-90 | 11-5-90 | 11-26-90

SHEET	OF
2	24

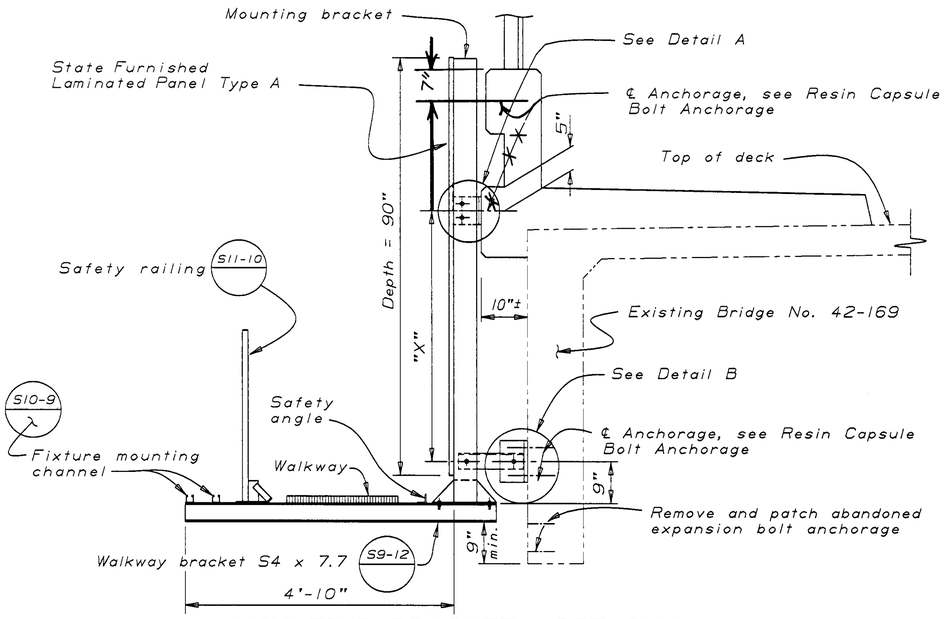
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	37	39

REGISTERED ENGINEER - CIVIL

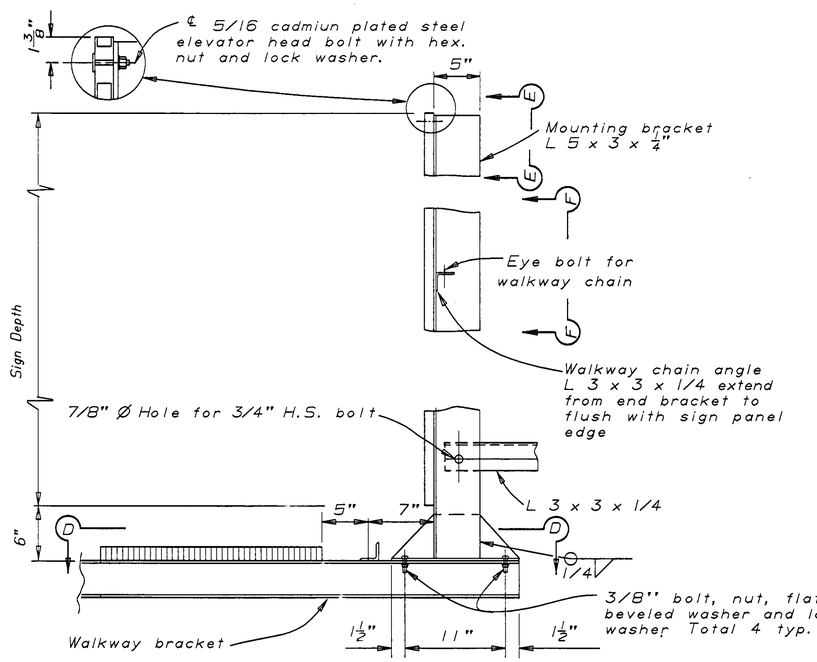
REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE

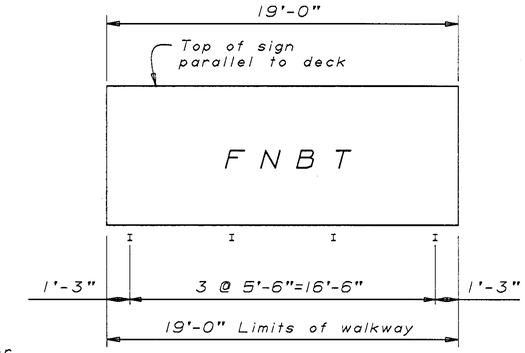


MOUNTING BRACKET ASSEMBLY

$\frac{3}{4}$"=1'-0"



MOUNTING BRACKET ANGLE DETAIL



MOUNTING BRACKET ASSEMBLY SPACING

Notes:

1. For details not shown see "Standard Plans".
2. The exterior mounting bracket to face outward to accomodate the walkway chain angle.
3. Contractor to provide anchor bolt layout before anchor bolts are placed.
4. For "X", "Y" and "Z" dimensions see table on "Sign Details No. 1" sheet.

---------- Denotes existing structure

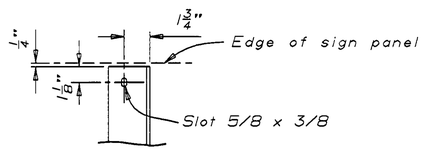
W.A.R 3-11-93
CORRECTED: J. ABERCROMBIE
CONTRACT NO. 06-282204
DATE 8-3-92

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

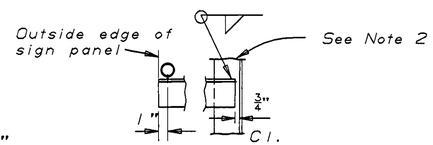
DETAIL A

DETAIL B

SECTION D-D



VIEW E-E

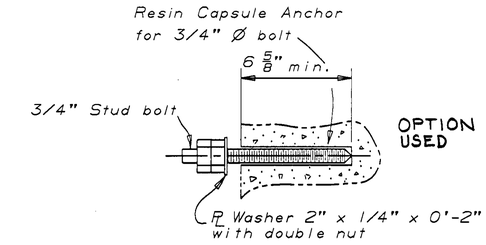


VIEW F-F

PLATE WASHER

For all slotted holes

ALTERNATIVE CIP BOLT ANCHORAGE



RESIN CAPSULE BOLT ANCHORAGE

Note: Resin capsule anchorage is subject to approval of Engineer. Installation procedures shall comply with manufacturer's instructions.

TULARE ST. OVERCROSSING

DESIGN	BY D. Ross 9-90	CHECKED G. Joe 9-90	STATE OF CALIFCRNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9	BRIDGE NO. 42-169
DETAILS	BY D.A. SANDERSON 7-90	CHECKED G. Joe 9-90			POST MILE 20.6
QUANTITIES	BY D. Ross 9-90	CHECKED S. Maan 9-90		CU 06200 EA 282201	

CONCRETE BARRIER REPLACEMENT
SIGN DETAILS NO. 2

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)									SHEET	OF
7-5-90	8-14-90	9-12-90	9-14-90	9-28-90	10-16-90				22	24

ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	38	39

REGISTERED ENGINEER - CIVIL

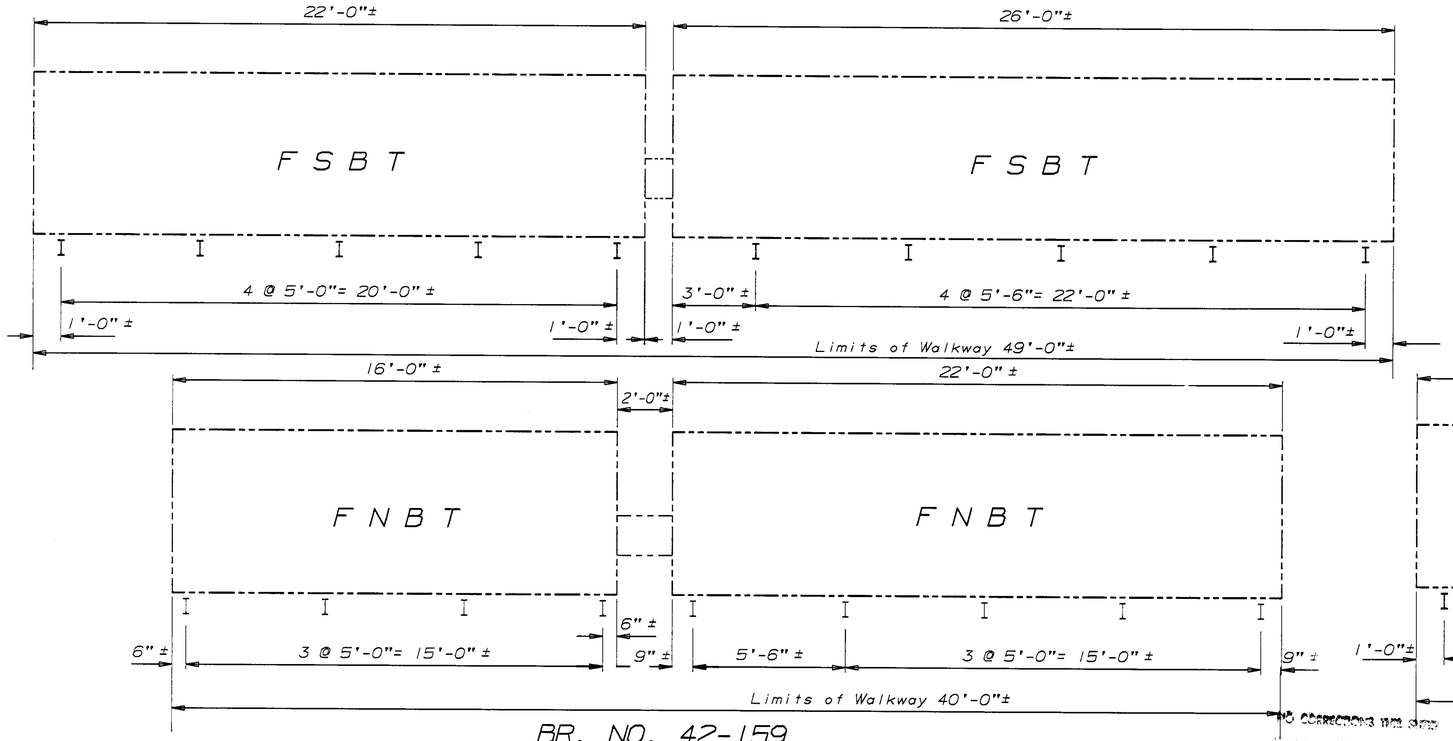
REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

Note: Top of signs parallel to deck.

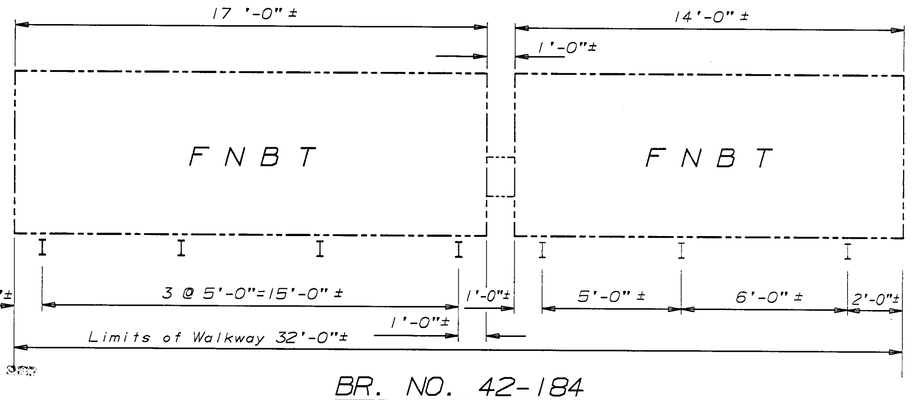
— — — — Indicates existing structure.



BR. NO. 42-159

KERN ST. OVERCROSSING

$\frac{3}{8}$"= 1'-0"



BR. NO. 42-184

EL DORADO ST. OVERCROSSING

$\frac{3}{8}$"= 1'-0"

NO CORRECTIONS WITH STAMP

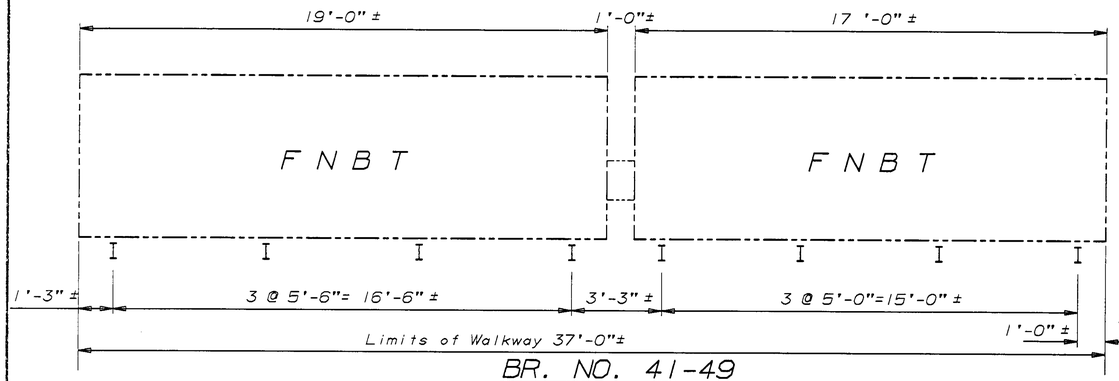
AS BUILT

W.A.O.R. 3-11-93

CORRECTED J. ABERCROMBIE

CONTRACT NO. 06-282204

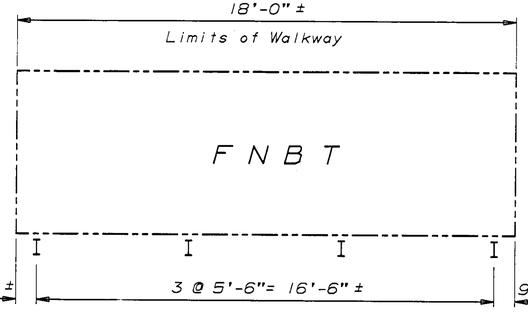
DATE 8-3-92



BR. NO. 41-49

WEST YOSEMITE AVE. OVERCROSSING

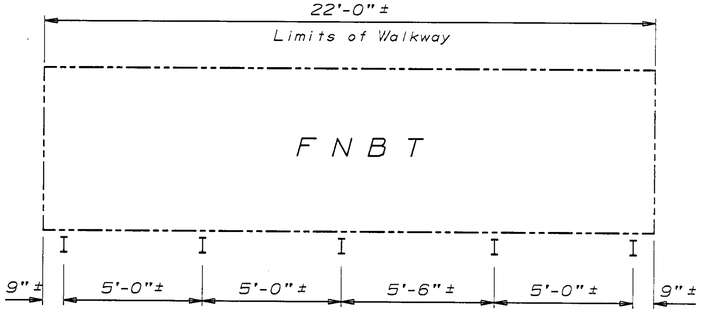
$\frac{3}{8}$"= 1'-0"



BR. NO. 41-46

SOUTH MADERA OVERCROSSING

$\frac{3}{8}$"= 1'-0"



BR. NO. 42-189

PACIFIC AVE. OVERCROSSING

$\frac{3}{8}$"= 1'-0"

DESIGN	BY D. Ross 9-90	CHECKED G. Joe 9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9	BRIDGE NO. Various / POST MILE
DETAILS	BY Mus D. Pagalla 9-90	CHECKED G. Joe 9-90			
QUANTITIES	BY D. Ross 9-90	CHECKED S. Maan 9-90			

CONCRETE BARRIER REPLACEMENT

SIGN DETAILS NO. 3

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 9-5-90 | 9-27-90 | 10-5-90

SHEET 23 OF 24

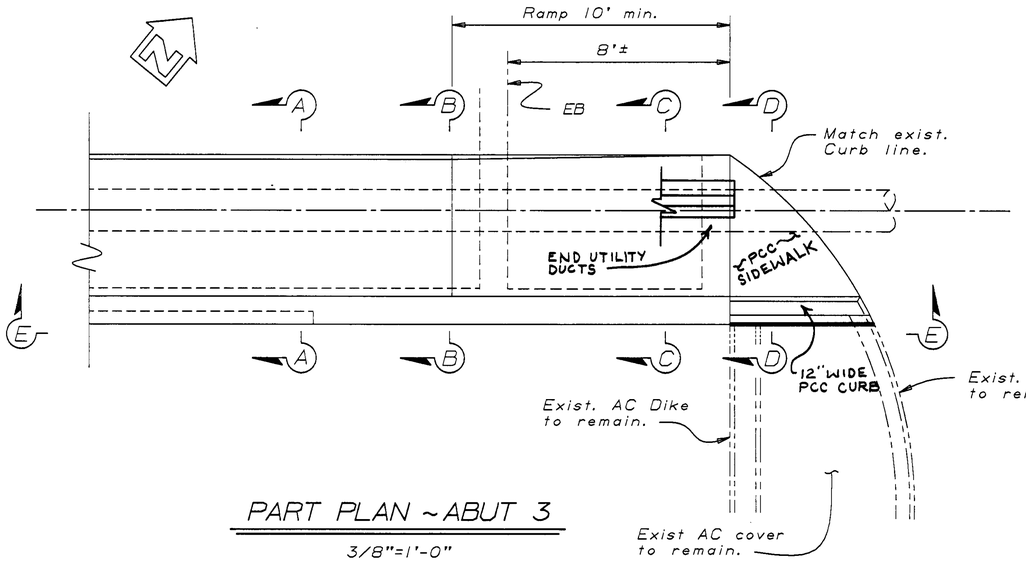
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	31	39

REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

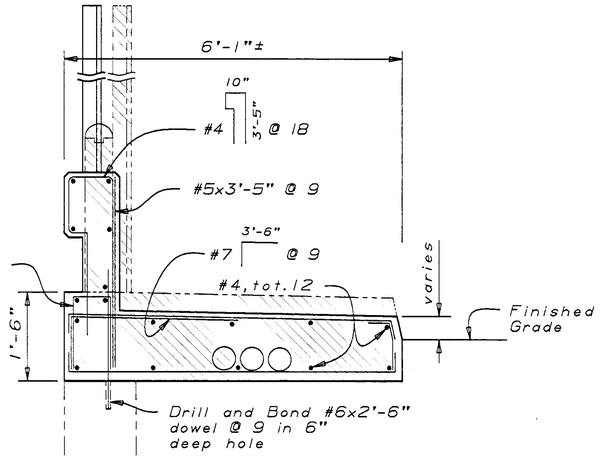
2-4-91
PLANS APPROVAL DATE



PART PLAN ~ ABUT 3

3/8"=1'-0"

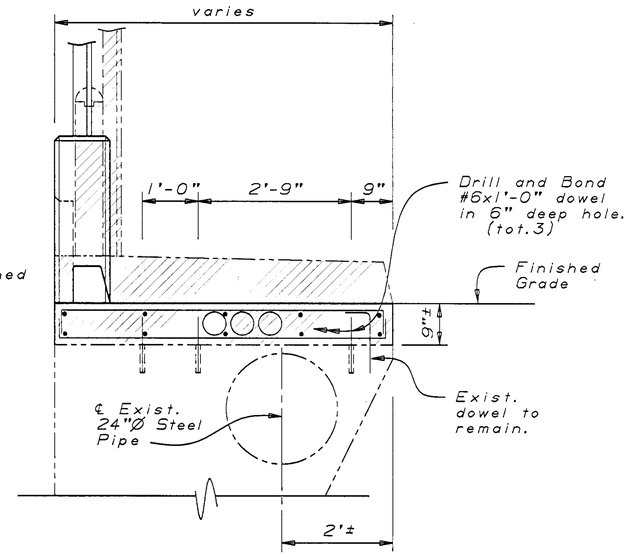
For Sections A-A and B-B, see "Barrier Details No. 7 " sheet.



SECTION C-C

3/4"=1'-0"

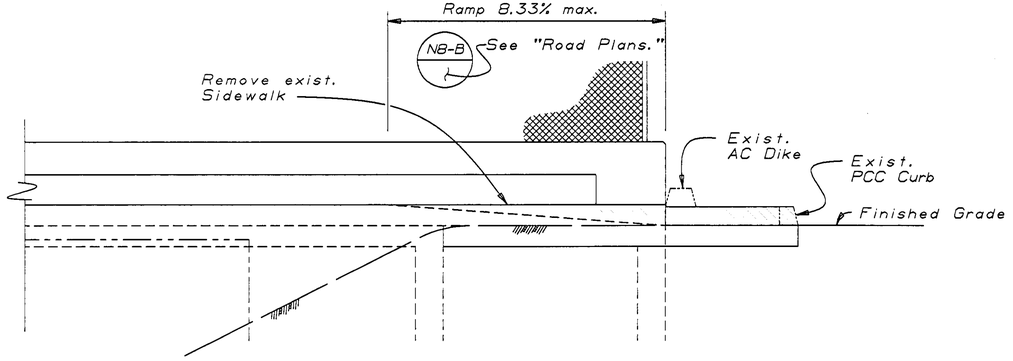
For details not shown, see "Typical Section" on "Barrier Details No. 7 " sheet.



VIEW D-D

3/4"=1'-0"

For details not shown see Section C-C



ELEVATION E-E

3/8"=1'-0"

W.A.R. 3-11-93
CORRECT J. ABERCROMBIE
CONTRACT NO. 06-282204
DATE 8-3-92

Notes:

Indicates limits of existing Structure removal.

---——--- Indicates existing structure.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

WEST FOURTH STREET OVERCROSSING

	BY		CHECKED	
DESIGN	D. Ross	9-90	G. Joe	9-90
DETAILS	L. Good	9-90	G. Joe	9-90
QUANTITIES	D. Ross	9-90	S. Maan	9-90

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 9

BRIDGE NO.	CONCRETE BARRIER REPLACEMENT
41-50	
POST MILE	BARRIER DETAILS NO. 8
11.0	

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): ~~9-28-90~~ ~~9-28-90~~ 10-1-90 10-16-90

SHEET 16 OF 24

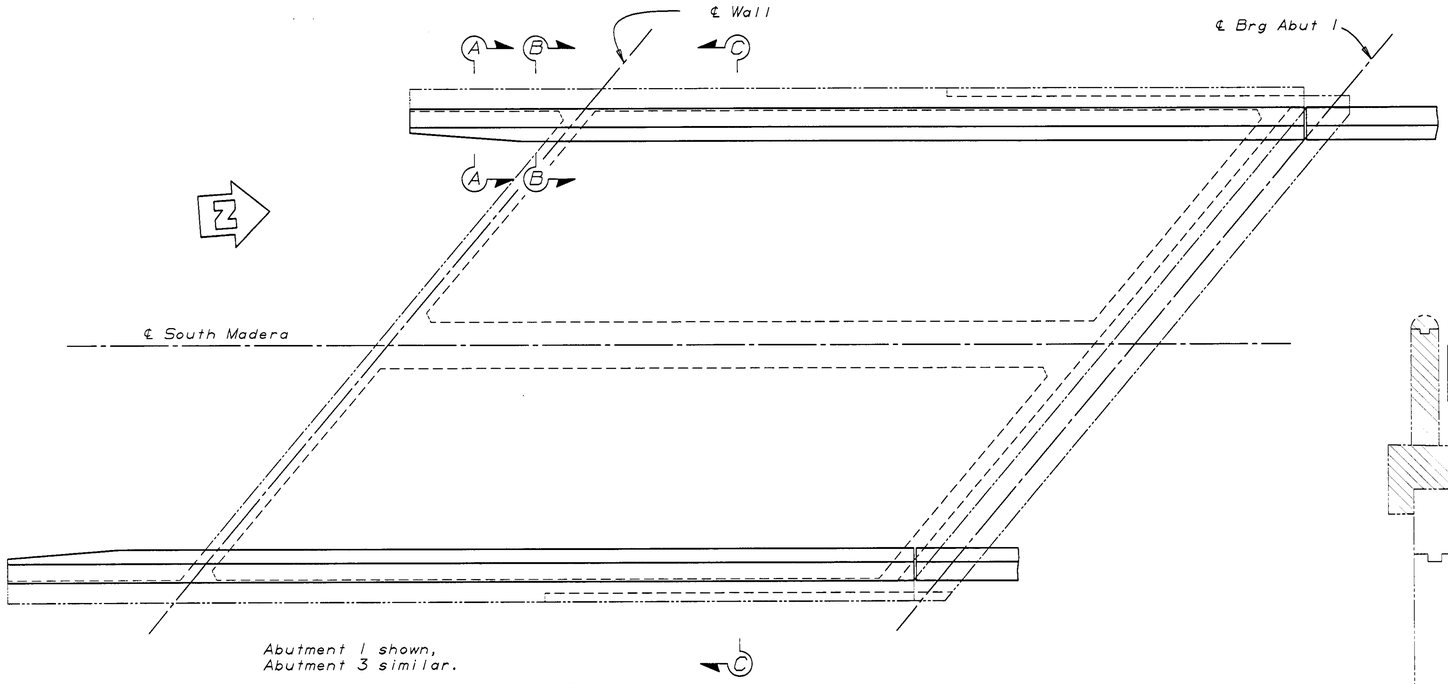
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	24	39

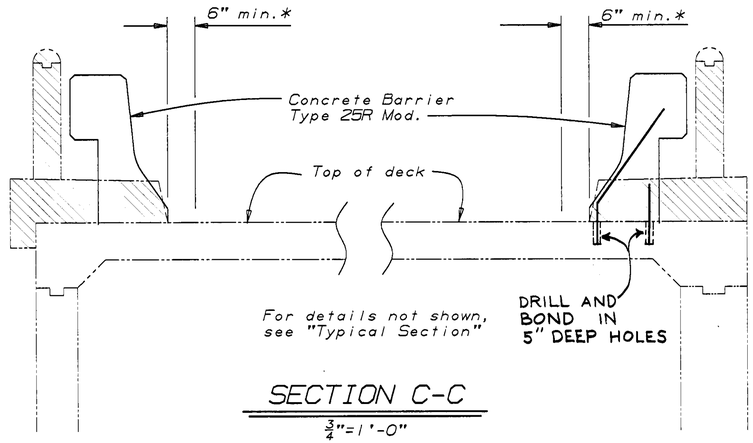
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

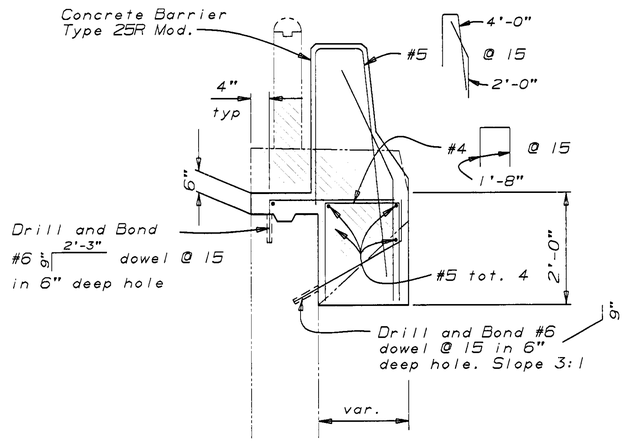
2-4-91
PLANS APPROVAL DATE



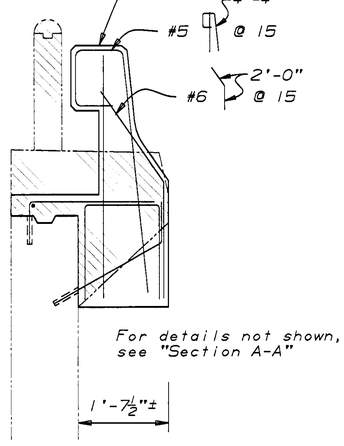
PLAN
1/4"=1'-0"



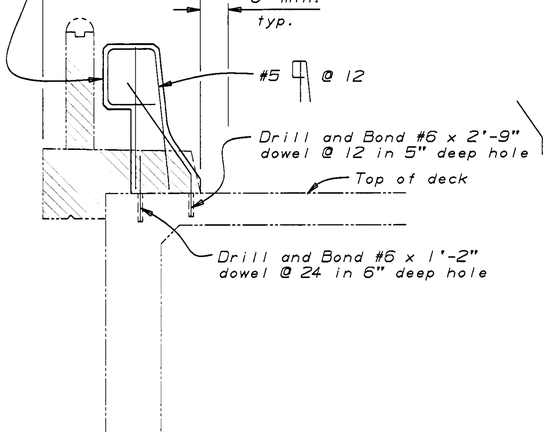
SECTION C-C
3/4"=1'-0"



SECTION A-A
3/4"=1'-0"



SECTION B-B
3/4"=1'-0"



TYPICAL SECTION
3/4"=1'-0"

AS BUILT
W.A.R 3-11-93
CORRECTED BY J. ABERCROMBIE

CONTRACT NO. 06-282204

DATE 8-3-92

Notes:

* Limits of refinishing bridge deck.

For details and reinf. not shown see "Concrete Barrier Type 25R" sheet.

Indicates limits of existing Structure removal.

Indicates existing structure.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

SOUTH MADERA OVERCROSSING

DESIGN	BY D. ROSS 9-90	CHECKED G. JOE 9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9	BRIDGE NO. 41-46K
DETAILS	BY D.A. SANDERSON 9-90	CHECKED G. JOE 9-90			POST MILE 9.7
QUANTITIES	BY D. ROSS 9-90	CHECKED S. MAAN 9-90			

CONCRETE BARRIER REPLACEMENT
BARRIER DETAILS NO. 1

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 5-8-90 | 9-7-90 | 10-3-90 | 10-4-90 | 10-8-90 | 11-28-90

SHEET 9 OF 24

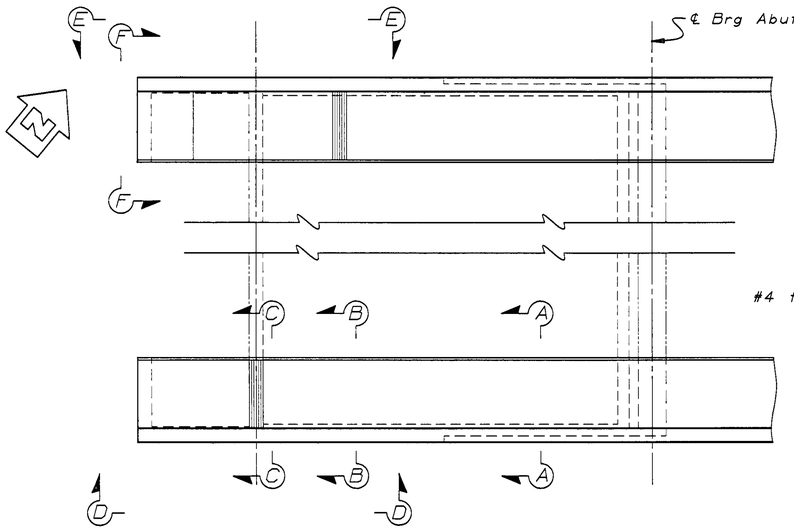
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	25	39

REGISTERED ENGINEER - CIVIL

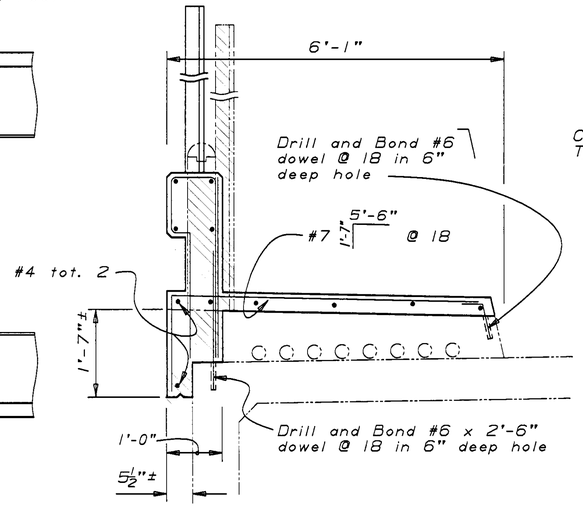
REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE



PLAN - ABUTMENT 1

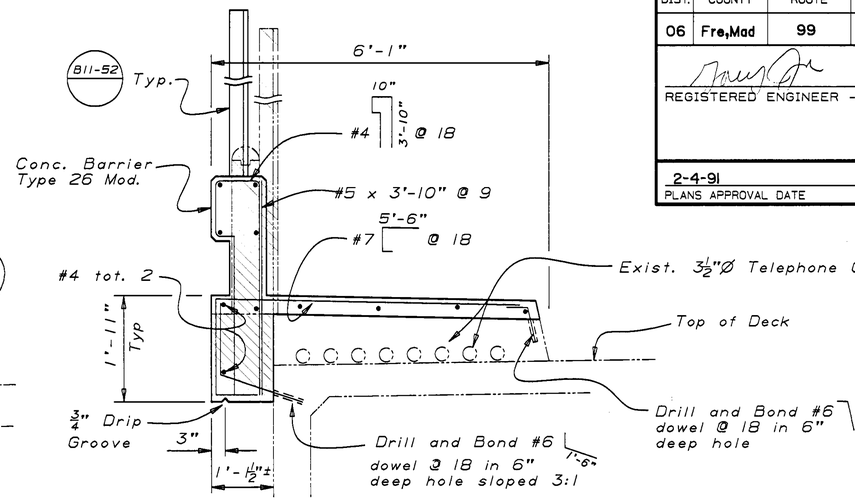
$\frac{3}{16}$"=1'-0"



SECTION A-A

$\frac{3}{4}$"=1'-0"

For details not shown see "Typical Section - Rt. Side"



TYPICAL SECTION - RT. SIDE

B11-54

$\frac{3}{4}$"=1'-0"

(LOOKING BACK ON STATION)

Notes:

For Elevations D-D & E-E see "Barrier Details No. 4" sheet

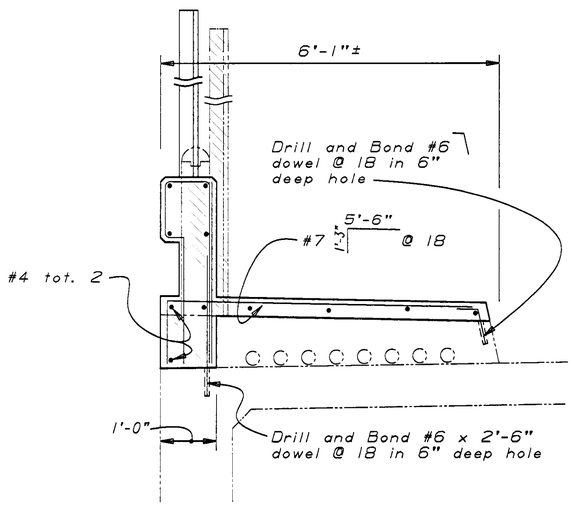
For Elevation F-F see "Barrier Details No. 3" sheet.

* Limits of refinishing bridge deck.

—·—·— Indicates existing structure.

▨ Indicates limits of existing Structure removal

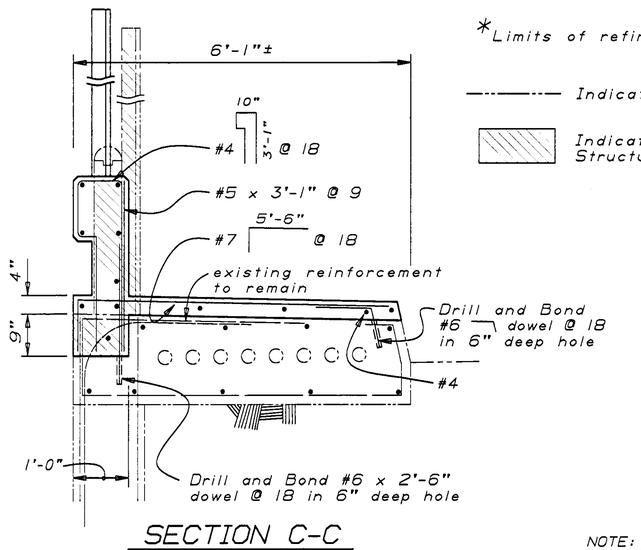
NO CORRECTIONS NEEDED
AS BUILT
W.A.R 3-11-93
CORRECTED BY J. ABERCROMBIE
CONTRACT NO. 06-282204
DATE 8-3-92



SECTION B-B

$\frac{3}{4}$"=1'-0"

For details not shown see "Typical Section - Rt. Side"

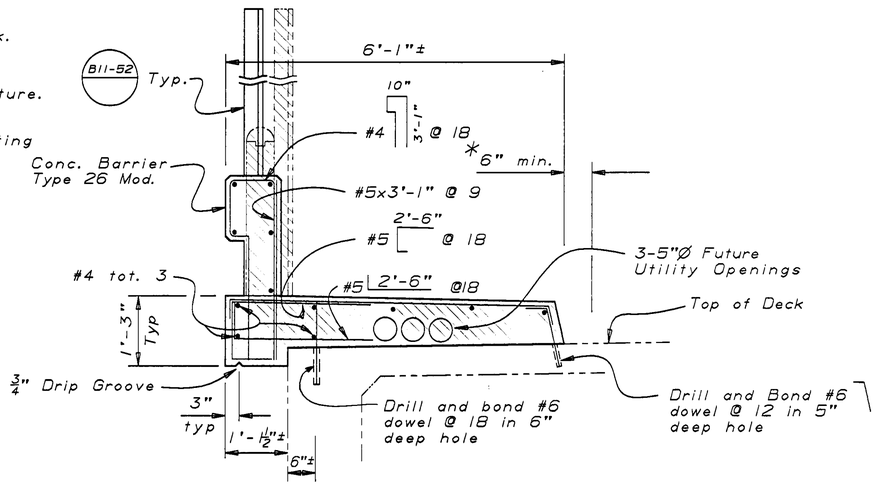


SECTION C-C

$\frac{3}{4}$"=1'-0"

For details not shown see "Typical Section - Rt. Side"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



TYPICAL SECTION - LT. SIDE

$\frac{3}{4}$"=1'-0"

WEST SIXTH STREET OVERCROSSING

DESIGN	BY D. ROSS	9-90	CHECKED G. JOE	9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9	BRIDGE NO. 41-48
DETAILS	BY D.A. SANDERSON	9-90	CHECKED G. JOE	9-90			POST MILE 10.3
QUANTITIES	BY D. ROSS	9-90	CHECKED S. MAAN	9-90			

CONCRETE BARRIER REPLACEMENT
BARRIER DETAILS NO. 2

DS 05D 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 9-28-90 | 10-1-90 | 10-2-90 | 10-4-90 | 12-3-90

SHEET 10 OF 24

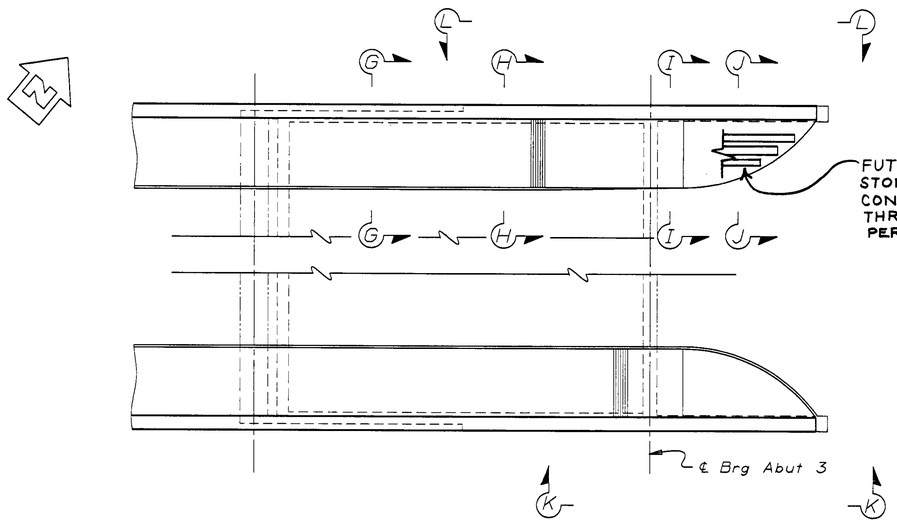
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	26	39

REGISTERED ENGINEER - CIVIL

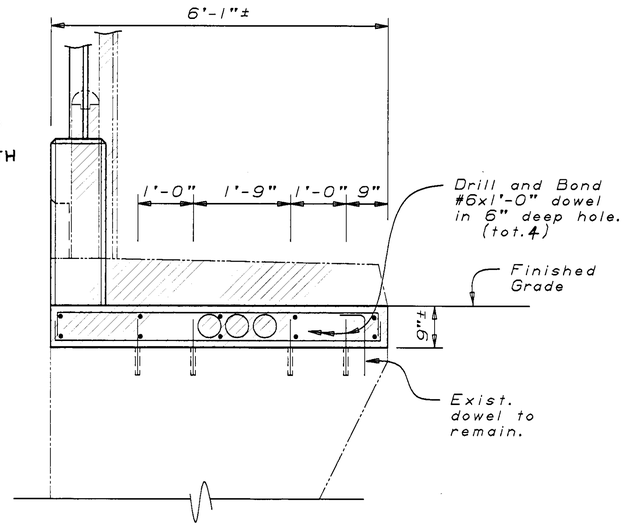
REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE



PLAN - ABUTMENT 3

$\frac{3}{16}$"=1'-0"



For details not shown see "Section I-I"

ELEVATION F-F

$\frac{3}{4}$"=1'-0"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

For Elevations K-K & L-L see "Barrier Details No. 4" sheet

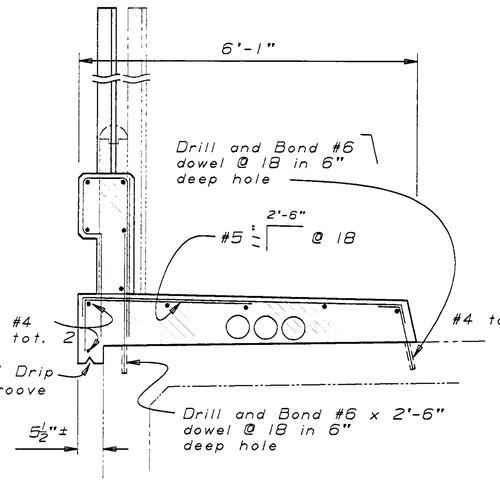
Indicates limits of existing Structure removal.

Indicates existing structure

AS BUILT
W.A.R 3-10-93
CORRECTED BY J. ABERCROMBIE

CONTRACT NO. 06-282204

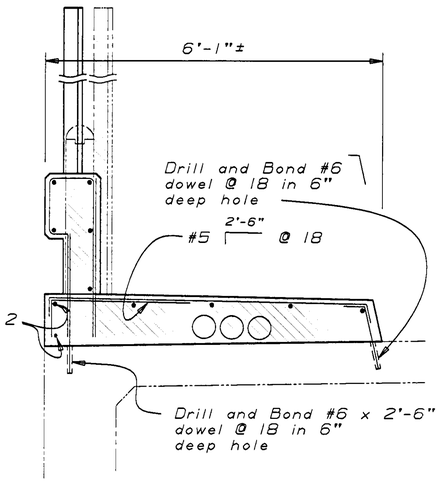
DATE 8-3-92



SECTION G-G

$\frac{3}{4}$"=1'-0"

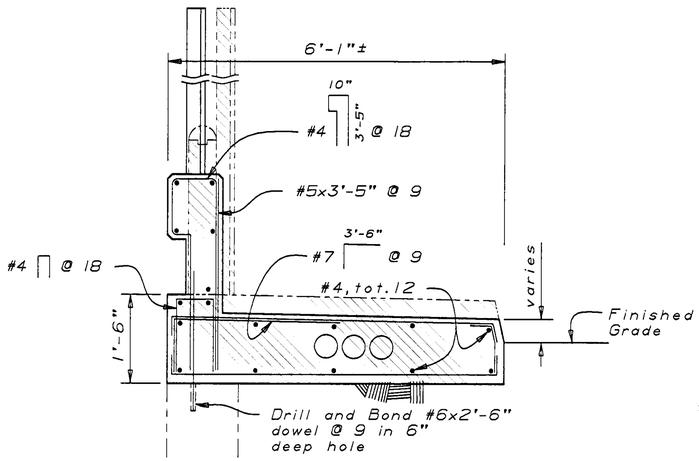
For details not shown see "Typical Section - Lt. Side" on "Barrier Details No. 2" sheet



SECTION H-H

$\frac{3}{4}$"=1'-0"

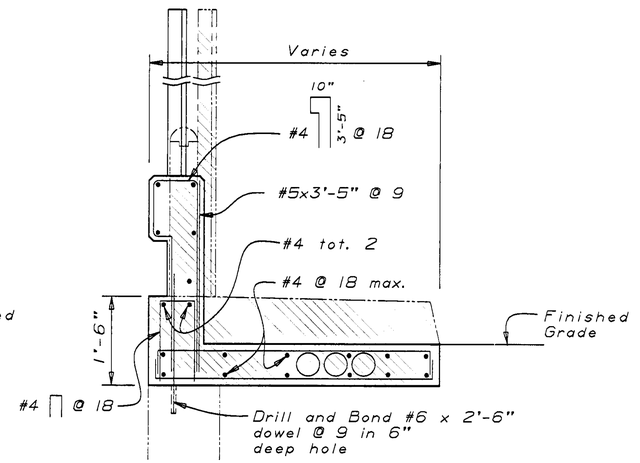
For details not shown see "Typical Section - Lt. Side" on "Barrier Details No. 2" sheet



SECTION I-I

$\frac{3}{4}$"=1'-0"

For details not shown see "Typical Section - Lt. Side" on "Barrier Details No. 2" sheet



SECTION J-J

$\frac{3}{4}$"=1'-0"

For details not shown see "Section I-I"

WEST SIXTH STREET OVERCROSSING

DESIGN	BY D. ROSS 9-90	CHECKED G. JOE 9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9	BRIDGE NO. 41-48 / POST MILE 10.3
DETAILS	BY D.A. SANDERSON 9-90	CHECKED G. JOE 9-90			CONCRETE BARRIER REPLACEMENT
QUANTITIES	BY D. ROSS 9-90	CHECKED S. MAAN 9-90			BARRIER DETAILS NO. 3

DS OSD 2:39 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): ~~9-28-90~~ | 10-1-90 | 10-2-90 | 10-3-90 | 10-4-90

SHEET 11 OF 24

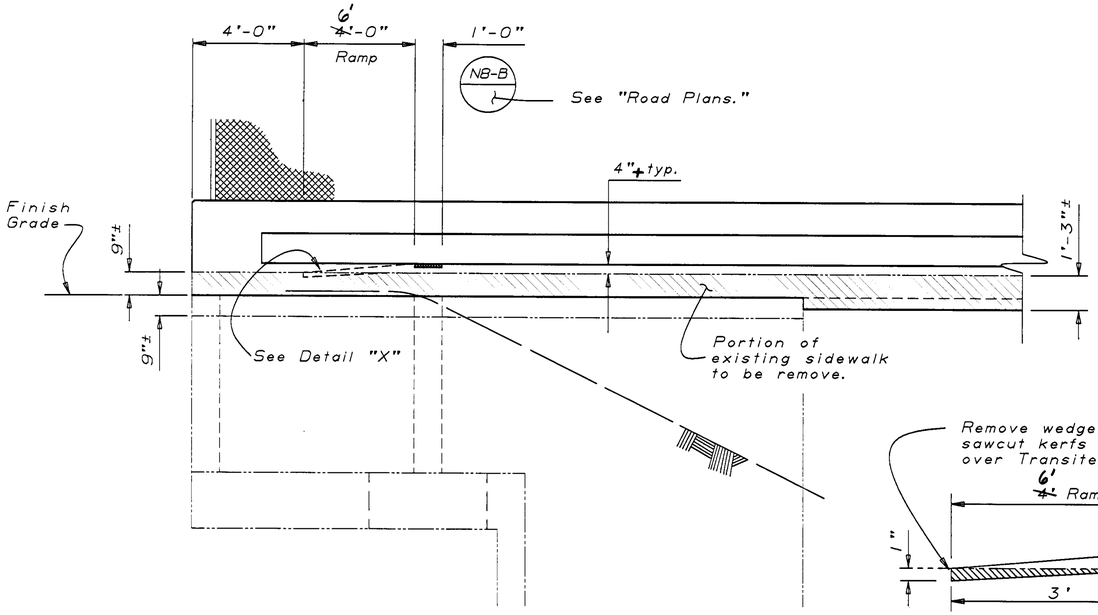
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	27	39

REGISTERED ENGINEER - CIVIL

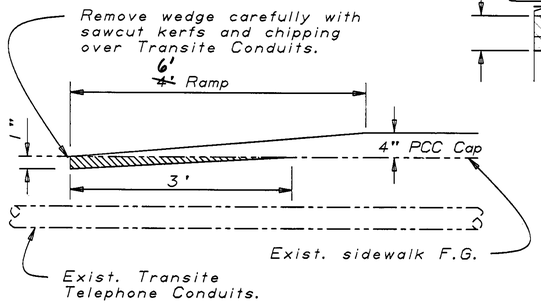
REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE



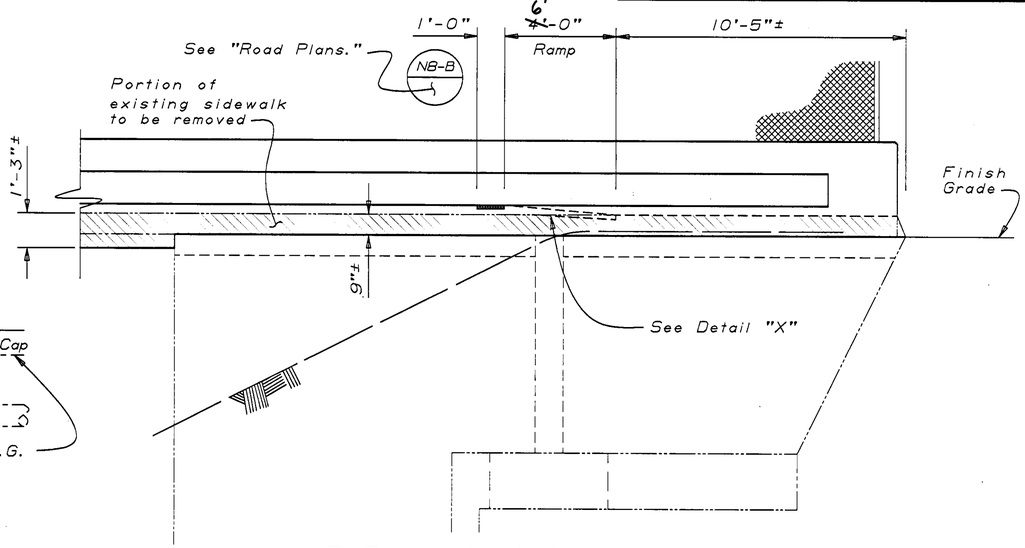
ELEVATION D-D

$\frac{3}{8}$"= 1'-0"



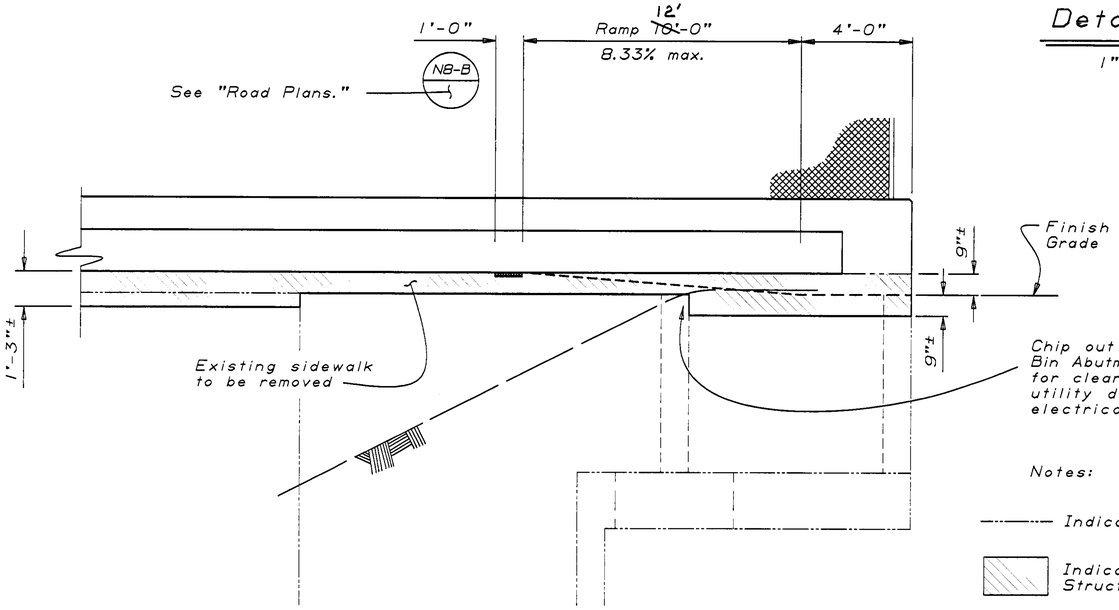
Detail "X"

1"=1'-0"



ELEVATION K-K

$\frac{3}{8}$"= 1'-0"



ELEVATION E-E

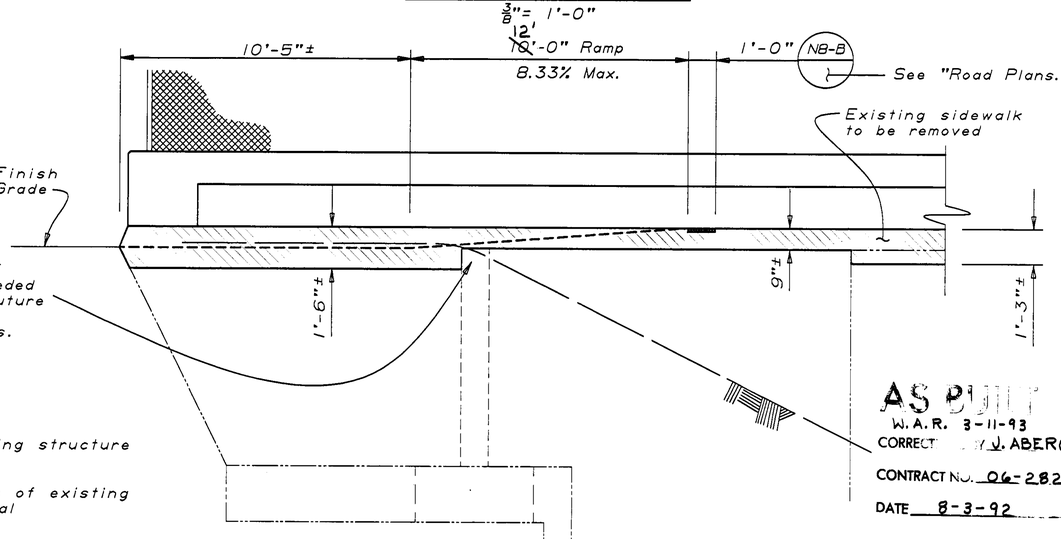
$\frac{3}{8}$"= 1'-0"

Notes:

Indicates existing structure

Indicates limits of existing Structure removal

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



ELEVATION L-L

$\frac{3}{8}$"= 1'-0"

AS BUILT
W.A.R. 3-11-93
CORRECTED BY J. ABERCROMBIE
CONTRACT NO. 06-282204
DATE 8-3-92

WEST SIXTH STREET OVERCROSSING

DESIGN	BY D. ROSS 9-90	CHECKED G. JOE 9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9	BRIDGE NO. 41-48
DETAILS	BY D.A. SANDERSON 9-90	CHECKED G. JOE 9-90			POST MILE 10.3
QUANTITIES	BY D. ROSS 9-90	CHECKED S. MAAN 9-90			

CONCRETE BARRIER REPLACEMENT
BARRIER DETAILS NO. 4

OS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): ~~9-28-90~~ | 10-2-90 | 10-4-90 | 10-18-90 | 11-5-90 | 11-28-90 | 12-3-90

SHEET 12 OF 24

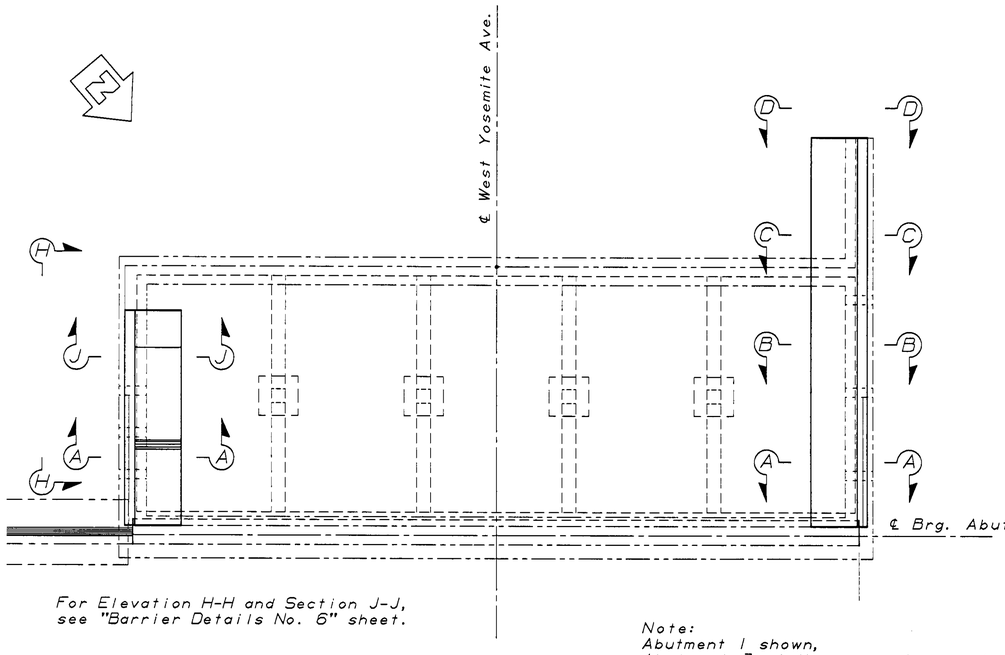
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	28	39

REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

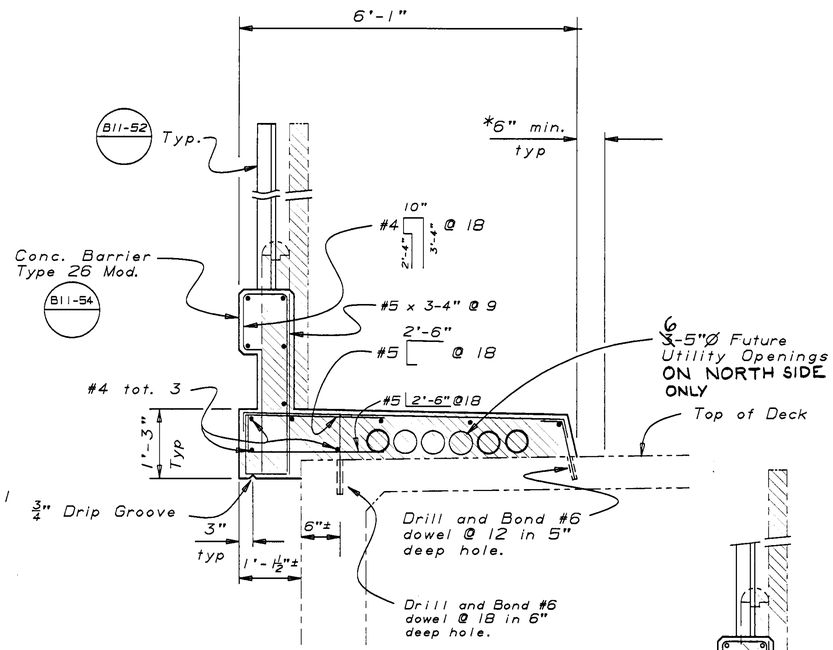
2-4-91
PLANS APPROVAL DATE



For Elevation H-H and Section J-J, see "Barrier Details No. 6" sheet.

Note:
Abutment 1 shown,
Abutment 3 similar, except as noted.
See "Barrier Details No. 6."

PLAN
1/8"=1'-0"



TYPICAL SECTION
3/4"=1'-0"

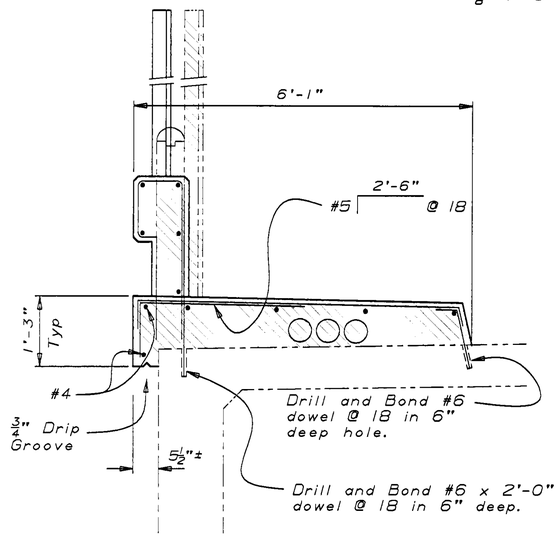
Notes:

* Limits of refinishing bridge deck.

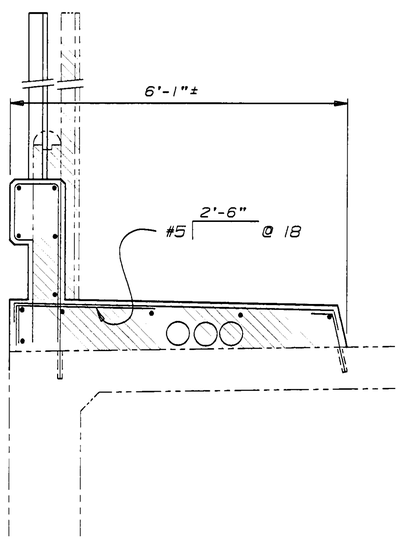
Indicates limits of existing Structure removal.

Indicates existing structure.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

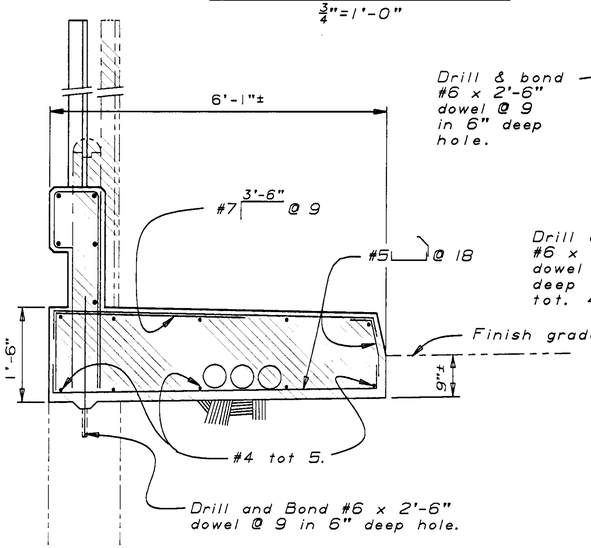


SECTION A-A
3/4"= 1'-0"



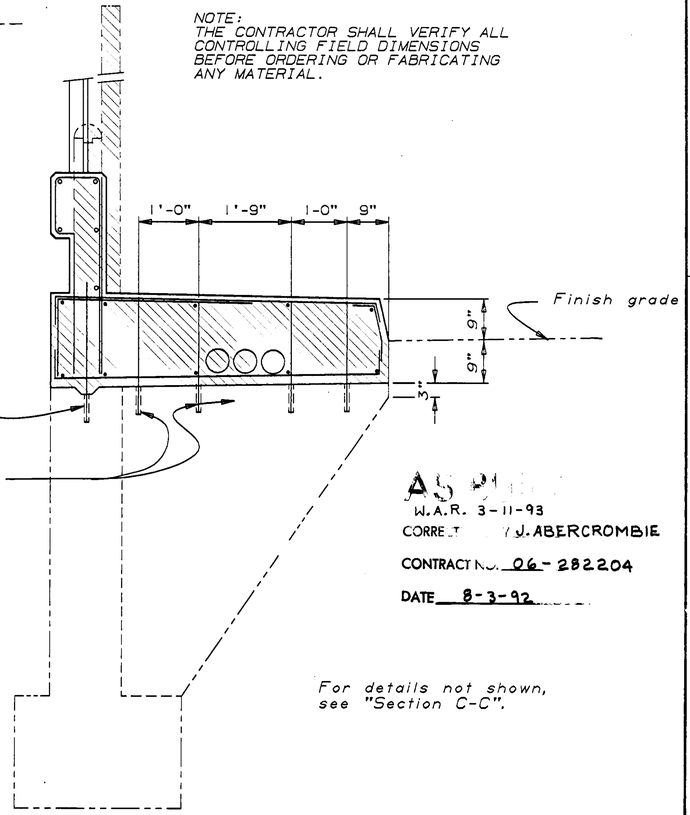
SECTION B-B
3/4"= 1'-0"

For details not shown, see "Section A-A".



SECTION C-C
3/4"= 1'-0"

For details not shown, see "Section A-A".



AS BUILT
W.A.R. 3-11-93
CORRECTED J. ABERCROMBIE
CONTRACT NO. 06-282204
DATE 8-3-92

For details not shown, see "Section C-C".

ELEVATION D-D
3/4"= 1'-0"

WEST YOSEMITE AVE. OVERCROSSING

DESIGN	BY Don Ross	CHECKED G. Joe	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9	BRIDGE NO. 41-49
DETAILS	BY D.A. SANDERSON 7-90	CHECKED G. Joe			POST MILE 10.8
QUANTITIES	BY Don Ross	CHECKED S. Maan			

CONCRETE BARRIER REPLACEMENT
BARRIER DETAILS NO. 5

DS 050 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 7-1-90 | 8-31-90 | 9-28-90 | 9-28-90 | 10-4-90 | 10-15-90 | 12-3-90

SHEET 13 OF 24

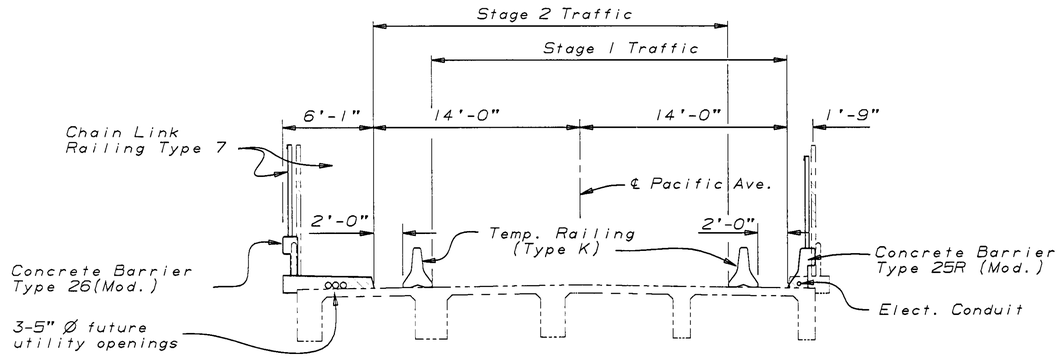
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	23	39

REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE



TYPICAL SECTION

1" = 5'

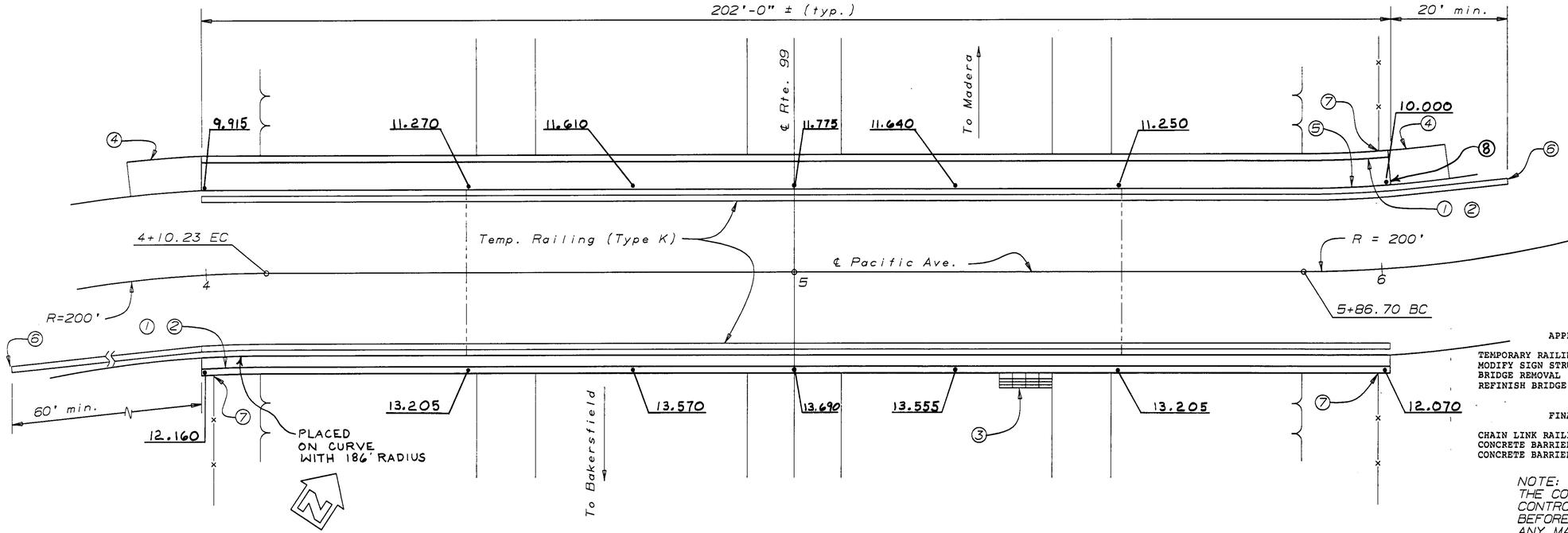
Notes:

1. Paint "Pacific Avenue Overcrossing" and year constructed.
2. Paint "Br. No. 42-189".
3. Remove sign structure prior to construction and reinstall after barrier rails are completed.
4. Construct 6' wide AC ramps at 8.33%, see "Road Plans."
5. Existing sidewalk curb is curved on a radius of 186'± from sta. 5+86.70 to end of wingwall.
6. Temporary Crash Cushion Modules, see "Road Plans."
7. Remove end post of existing Right of Way Fence prior to construction. Replace and reconnect end post and Fence after Barrier Rail is complete.

▨ Indicates limits of existing Structure removal.

– – – – Indicates existing structure.

8. REFERENCE NAILS BASED ON ASSUMED ELEV 10.000 (NE CORNER)



PLAN

1" = 10'

AS BUILT
W.A.R. 3-11-93
CORRECTED BY J. ABERCROMBIE
CONTRACT NO. 06-282204
DATE 8-3-92

APPROXIMATE QUANTITIES

TEMPORARY RAILING (TYPE K)	500 LF
MODIFY SIGN STRUCTURE	1 EA
BRIDGE REMOVAL (PORTION), LOCATION H	LUMP SUM
REFINISH BRIDGE DECK	112 SQFT

FINAL PAY QUANTITIES

CHAIN LINK RAILING (TYPE 7)	406 LF
CONCRETE BARRIER (TYPE 25R MODIFIED)	203 LF
CONCRETE BARRIER (TYPE 26 MODIFIED)	203 LF

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

PACIFIC AVENUE OVERCROSSING

L M Stoke 12-90
DESIGN ENGINEER

DESIGN	BY D. Ross 9-90	CHECKED G. Joe 9-90	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
DETAILS	BY D.A. SANDERSON 7-90	CHECKED G. Joe 9-90	LAYOUT	BY D. Ross 9-90	CHECKED G. Joe 9-90
QUANTITIES	BY D. Ross 9-90	CHECKED S. Maan 9-90	SPECIFICATIONS	BY	PLANS AND SPECS COMPARED

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 9

CU 06200
EA 282201

BRIDGE NO. 42-189
POST MILE 22.4

CONCRETE BARRIER REPLACEMENT
GENERAL PLAN NO. 8

DS OSD 2138 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 7-2-90 | 8-30-90 | 9-11-90 | 9-28-90 | 10-3-90 | 10-5-90 | 10-8-90 | 11-28-90

SHEET 8 OF 24

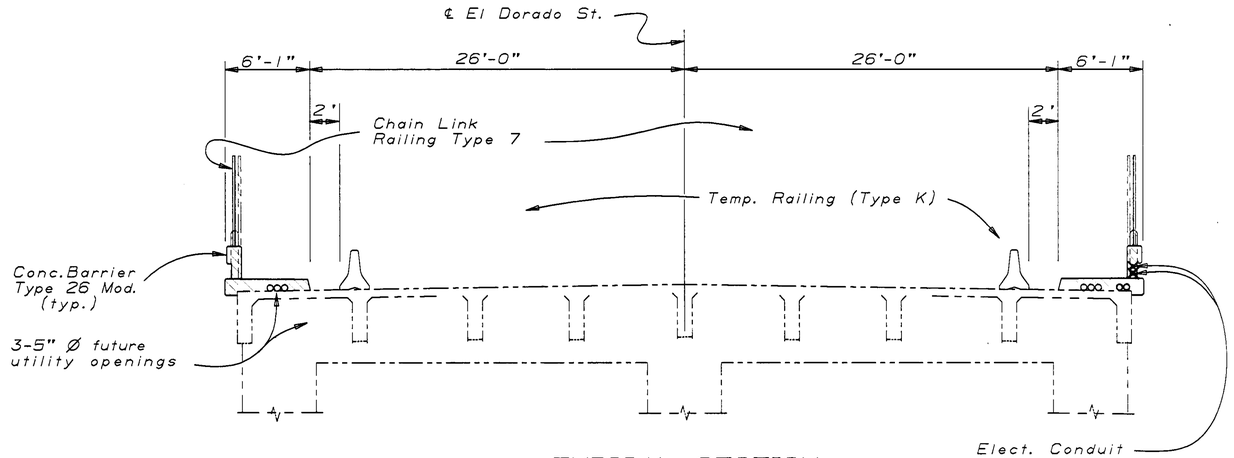
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	22	39

REGISTERED ENGINEER - CIVIL

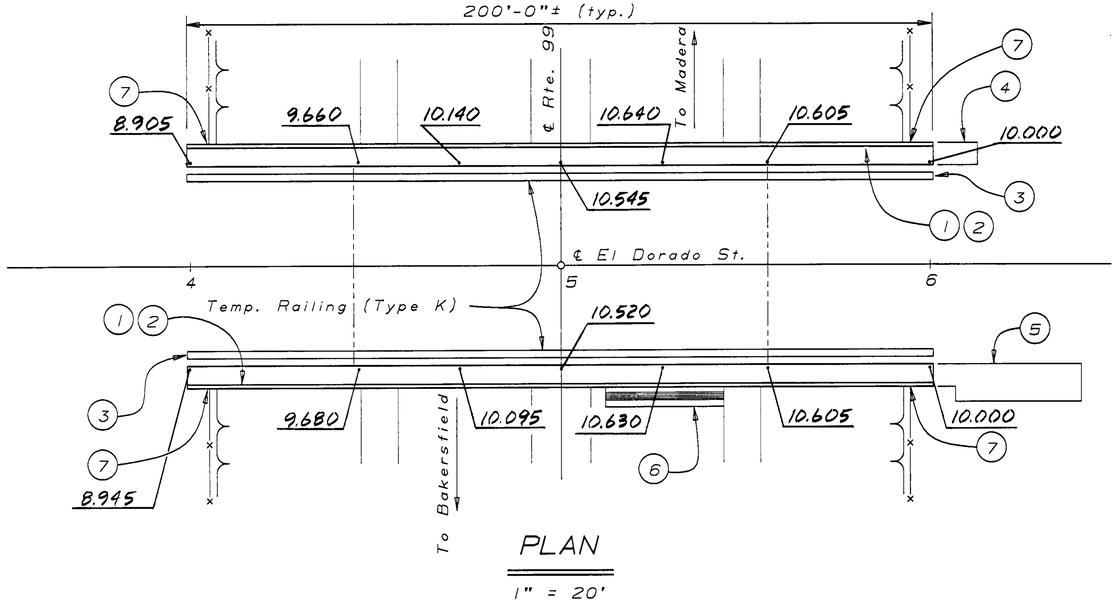
REGISTERED PROFESSIONAL ENGINEER — Gary Joe, No. 36652, Exp. 6-30-92, CIVIL, STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE



TYPICAL SECTION

1" = 5'



PLAN

1" = 20'

AS BUILT
CORRECTED BY D.A.S. 1-15-93 J. Abercrombie
CONTRACT NO. 06-282204
DATE 8-3-92

Notes:

(1) Paint "El Dorado Street Overcrossing" and year constructed.

(2) Paint "Br. No. 42-184".

(3) Temporary Crash Cushion Modules, see "Road Plans."

(4) Construct 6' wide AC ramp at 8.33%, see "Road Plans."

(5) Construct PCC sidewalk, see "Road Plans."

(6) Remove sign structure prior to construction and reinstall after barrier rails are completed.

(7) Remove end post of Right of Way Fence prior to construction. Replace and reconnect end post and Fence after Barrier Rail is complete.

▨ Indicates limits of existing Structure removal.

– – – – Indicates existing structure.

(8) Reference nails based on Assumed Elev. 10.000 (NE Corner)

APPROXIMATE QUANTITIES

TEMPORARY RAILING (TYPE K)	400 LF
MODIFY SIGN STRUCTURE	1 EA
BRIDGE REMOVAL (PORTION), LOCATION G	LUMP SUM
REFINISH BRIDGE DECK	112 SQFT

FINAL PAY QUANTITIES

CHAIN LINK RAILING (TYPE 7)	399 LF
CONCRETE BARRIER (TYPE 26 MODIFIED)	399 LF

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

EL DORADO STREET OVERCROSSING

L M Storke 12-90
DESIGN ENGINEER

	BY		CHECKED	
DESIGN	D. Ross	9-90	G. Jos	9-90
DETAILS	Flo Callum	5-90	G. Joe	9-90
QUANTITIES	D. Ross	9-90	S. Maan	9-90

LOAD FACTOR DESIGN — LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD

	BY		CHECKED	
LAYOUT	D. Ross	9-90	G. Joe	9-90
SPECIFICATIONS	R.J. Cochrane		PLANS AND SPECS COMPARED	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 9

BRIDGE NO. 42-184
POST MILE 21.5

CONCRETE BARRIER REPLACEMENT
GENERAL PLAN NO. 7

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 5-24-90 | 6-1-90 | 8-30-90 | 9-11-90 | 9-14-90 | 9-27-90 | 10-1-90 | 10-9-90 | 11-27-90

SHEET 7 OF 24

DS OSD 2138 (CADD 4/89)

ClibPDF - www.fastio.com

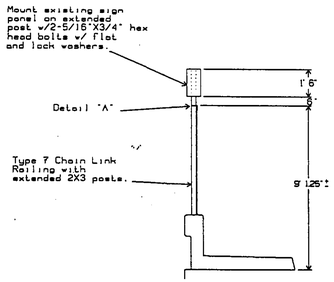
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	21	39

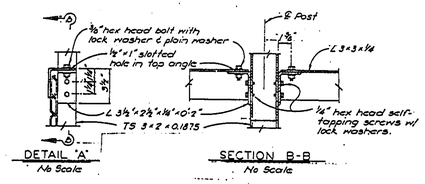
REGISTERED ENGINEER - CIVIL

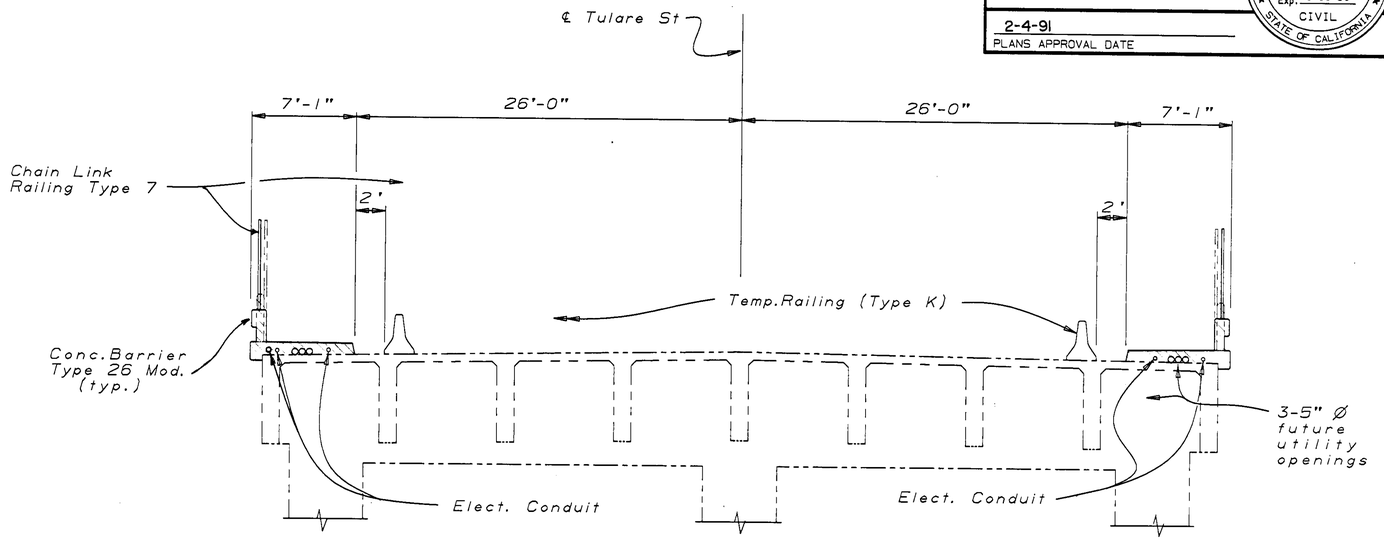
Gary Joe
No. 36652
Exp. 6-30-90
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE

CCO #3

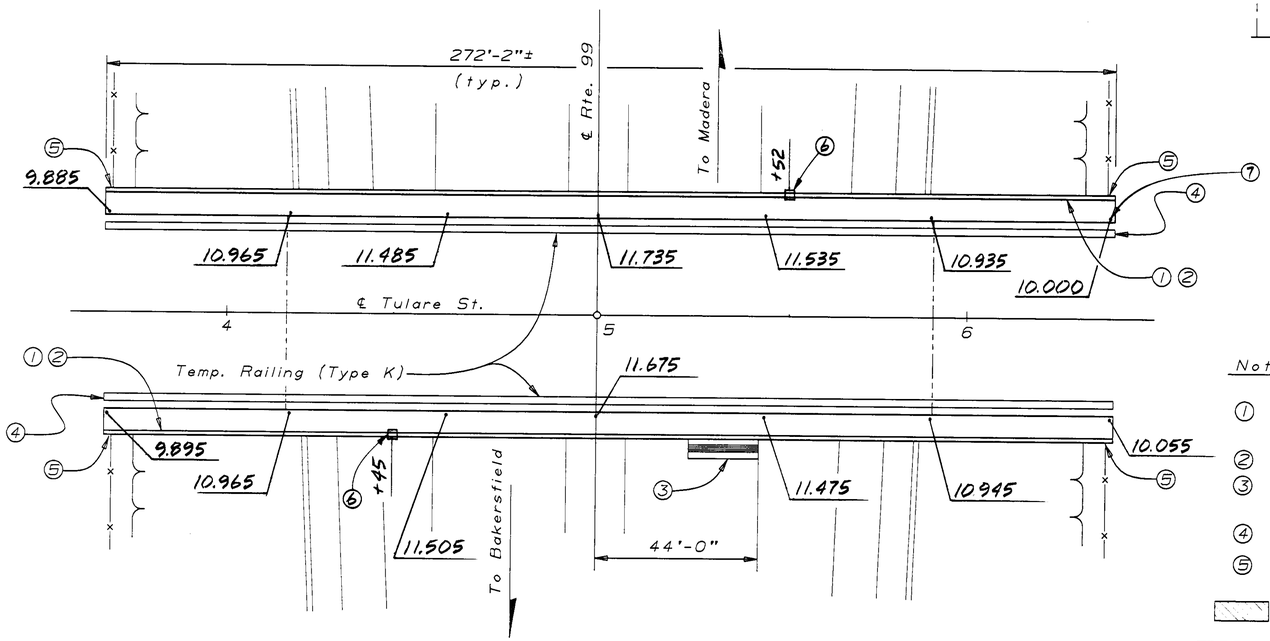






TYPICAL SECTION

1" = 5'



PLAN

1" = 20'

AS BUILT
CORRECTED BY D.A.S. 1-15-93 J Abercrombie
CONTRACT NO. 06-282204
DATE 8-3-92

APPROXIMATE QUANTITIES

TEMPORARY RAILING (TYPE K)	560	LF
REMOVE SIGN STRUCTURE	1	EA
BRIDGE REMOVAL (PORTION), LOCATION F	LUMP	SUM
REFINISH BRIDGE DECK	175	SQFT
FURNISH SIGN STRUCTURE (BRIDGE MOUNTED WITH WALKWAY)	1,205	LB
INSTALL SIGN STRUCTURE (BRIDGE MOUNTED WITH WALKWAY)	1,205	LB

FINAL PAY QUANTITIES

CHAIN LINK RAILING (TYPE 7)	546	LF
CONCRETE BARRIER (TYPE 26 MODIFIED)	546	LF

Notes:

1. Paint "Tulare Street Overcrossing" and year constructed.
2. Paint "Br. No. 42-169".
3. Remove existing sign structure prior to construction. Install new sign structure after Barrier Rail is completed.
4. Temporary Crash Cushion Modules, see "Road Plans."
5. Remove end post of existing Right of Way Fence prior to construction. Replace and reconnect end post and Fence after Barrier Rail is complete.

▨ Indicates limits of existing Structure removal.

– – – – Indicates existing structure.

6. Road sign mounted on 2x3 steel post of Type 7 fencing See details above. CCO #3 (No Parking Signs)
7. Reference nails based on Assumed Elev. 10.000 (NE Corner)

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

TULARE STREET OVERCROSSING

L M Stolis 12-30
DESIGN ENGINEER

DESIGN	BY D. Ross 9-90	CHECKED G. Joe 9-90	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
DETAILS	BY Flo Collum 5-90	CHECKED G. Joe 9-90	LAYOUT	BY D. Ross 9-90	CHECKED G. Joe 9-90
QUANTITIES	BY D. Ross 9-90	CHECKED S. Maan 9-90	SPECIFICATIONS	BY R. J. Abercrombie	PLANS AND SPECS COMPARED R. L. Baker

DS OSD 2138 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 9

CU 06200
EA 282201

BRIDGE NO. 42-169
POST MILE 20.6

CONCRETE BARRIER REPLACEMENT
GENERAL PLAN NO. 6

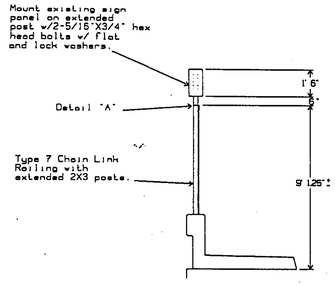
DISREGARD PRINTS BEARING EARLIER REVISION DATES →

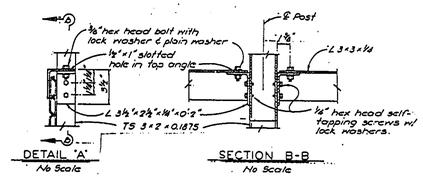
REVISION DATES (PRELIMINARY STAGE ONLY): 5-21-90 | 6-13-90 | 8-30-90 | 9-10-90 | 9-13-90 | 9-27-90 | 10-5-90 | 11-27-90

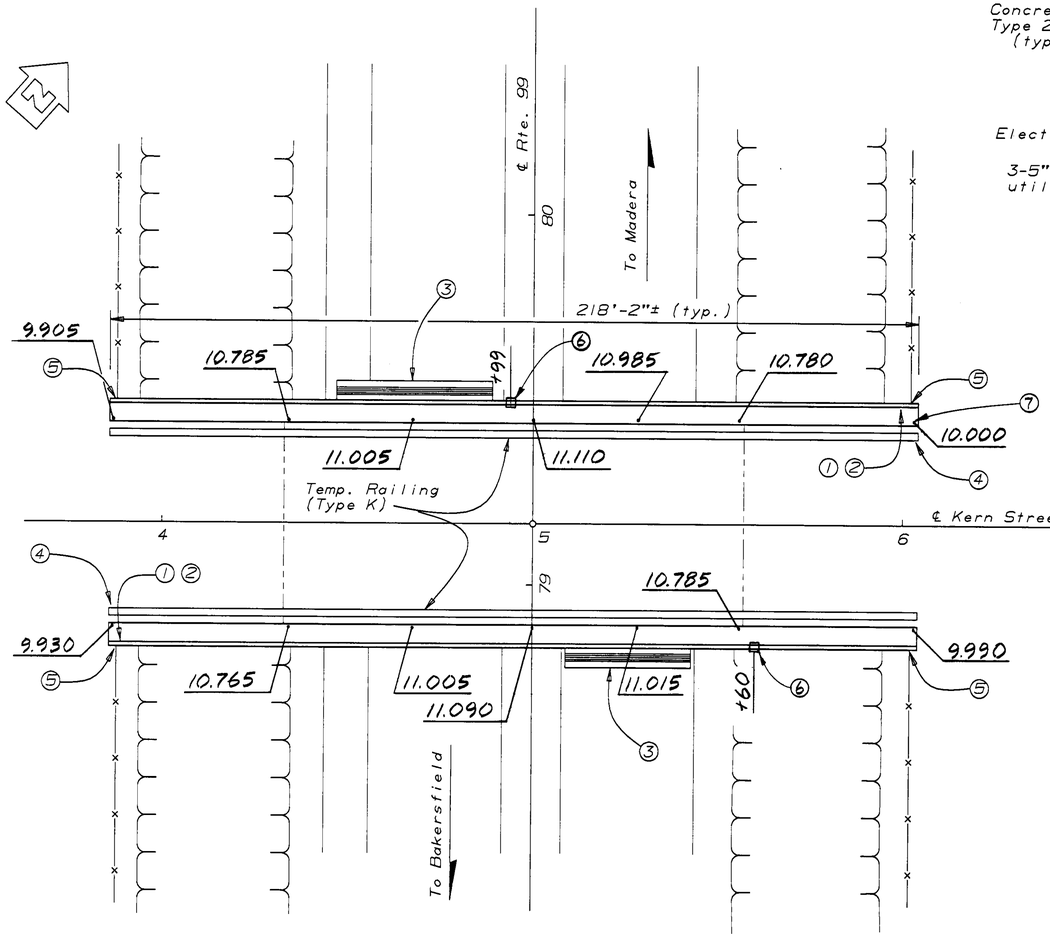
SHEET 6 OF 24

ClibPDF - www.fastio.com

CCO #3

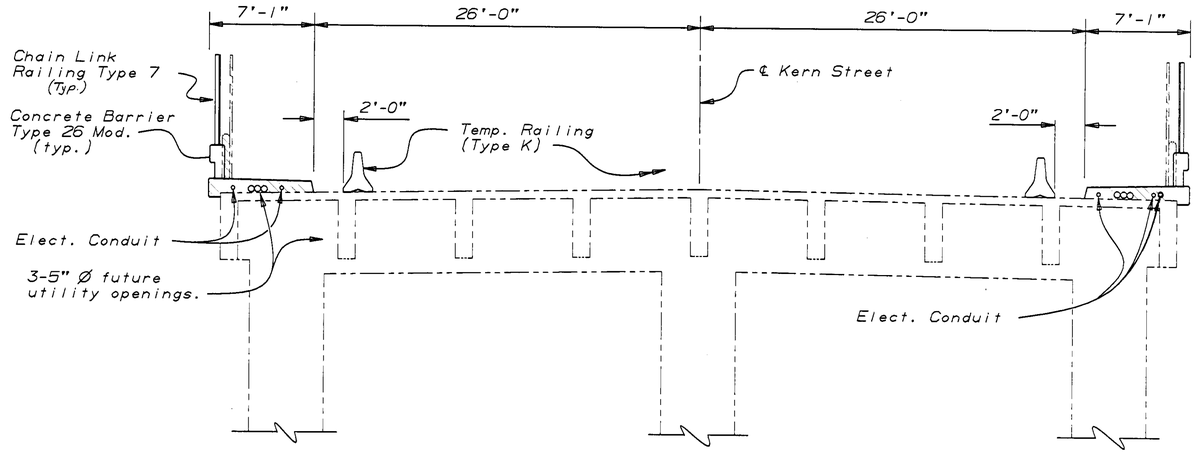






PLAN

1"=20'



TYPICAL SECTION

1"=5'

AS BUILT
D.A.S. 1-15-92
CORRECTED BY J. Abercrombie
CONTRACT NO. 06-282204
DATE 8-3-92

Notes:

1. Paint "Kern Street Overcrossing" and year constructed.
2. Paint "Br. No. 42-159".
3. Remove sign structures prior to construction and reinstall after barrier rails are completed.
4. Temporary Crash Cushion Modules, see "Road Plans."
5. Remove end post of existing Right of Way Fence prior to construction. Replace and reconnect end post and Fence after Barrier Rail is completed.

▨ Indicates limits of existing Structure removal.

– – – – Indicates existing structure.

6. Road sign mounted on 2x3 steel post of Type 7 fencing See details above. CCO #3 (No Parking Signs)
7. Reference nails based on Assumed Elev. 10.000 (NE Corner)

APPROXIMATE QUANTITIES

TEMPORARY RAILING (TYPE K)	440 LF
MODIFY SIGN STRUCTURE	2 EA
BRIDGE REMOVAL (PORTION), LOCATION E	LUMP SUM
REFINISH BRIDGE DECK	125 SQFT

FINAL PAY QUANTITIES

CHAIN LINK RAILING (TYPE 7)	437 LF
CONCRETE BARRIER (TYPE 26 MODIFIED)	437 LF

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

KERN STREET OVERCROSSING

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	20	39

REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE

J. M. Stolin 12-90
DESIGN ENGINEER

DESIGN	BY D. Ross 9-90	CHECKED G. Joe 9-90	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
DETAILS	BY D.A. SANDERSON 7-90	CHECKED G. Joe 9-90	LAYOUT	BY D. Ross 9-90	CHECKED G. Joe 9-90
QUANTITIES	BY D. Ross 9-90	CHECKED S. Maan 9-90	SPECIFICATIONS	BY R. J. Anderson	PLANS AND SPECS COMPARED R. J. Anderson

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 9

BRIDGE NO. 42-159
POST MILE 20.5

CONCRETE BARRIER REPLACEMENT
GENERAL PLAN NO. 5

DS OSD 2138 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 7-5-90 | 8-10-90 | 9-7-90 | 9-14-90 | 9-27-90 | 10-5-90 | 10-15-90 | 10-25-90 | 11-27-90

SHEET 5 OF 24

ClibPDF - www.fastio.com

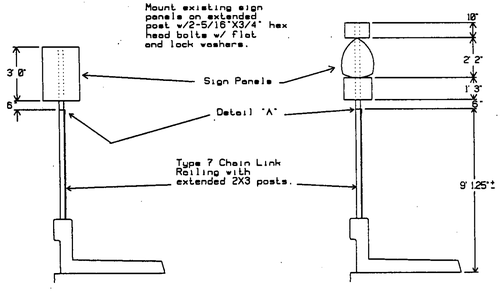
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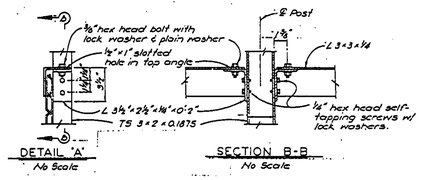
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	19	39

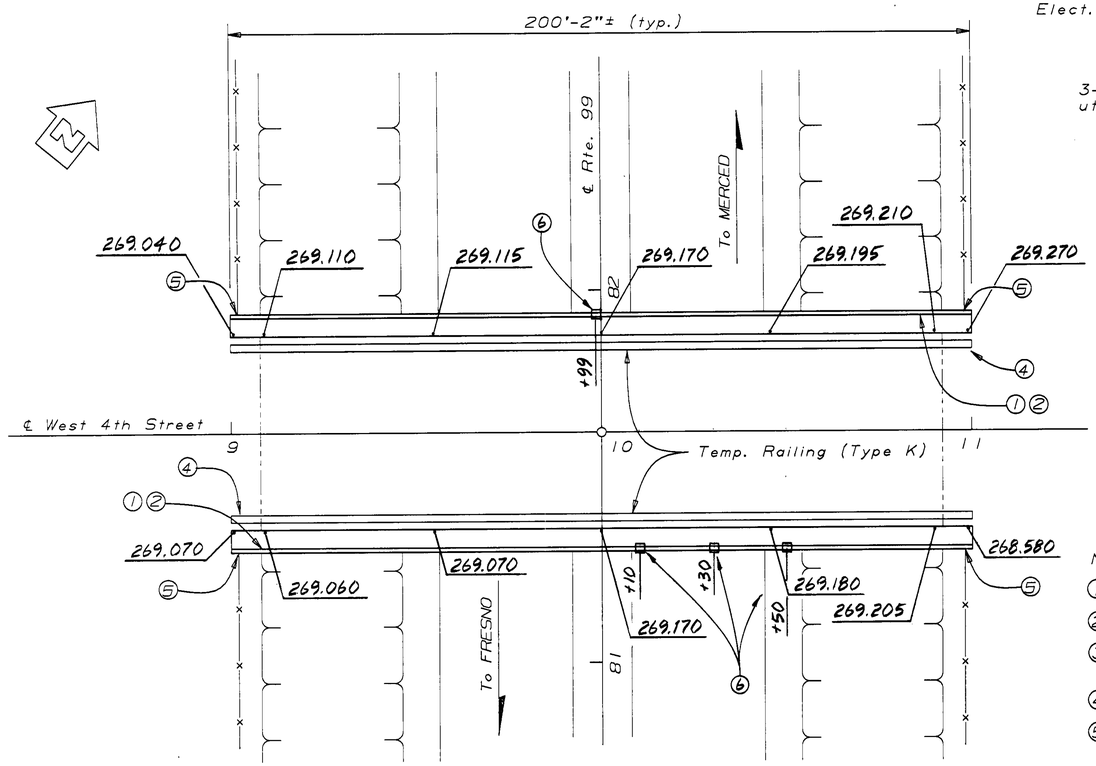
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036852 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

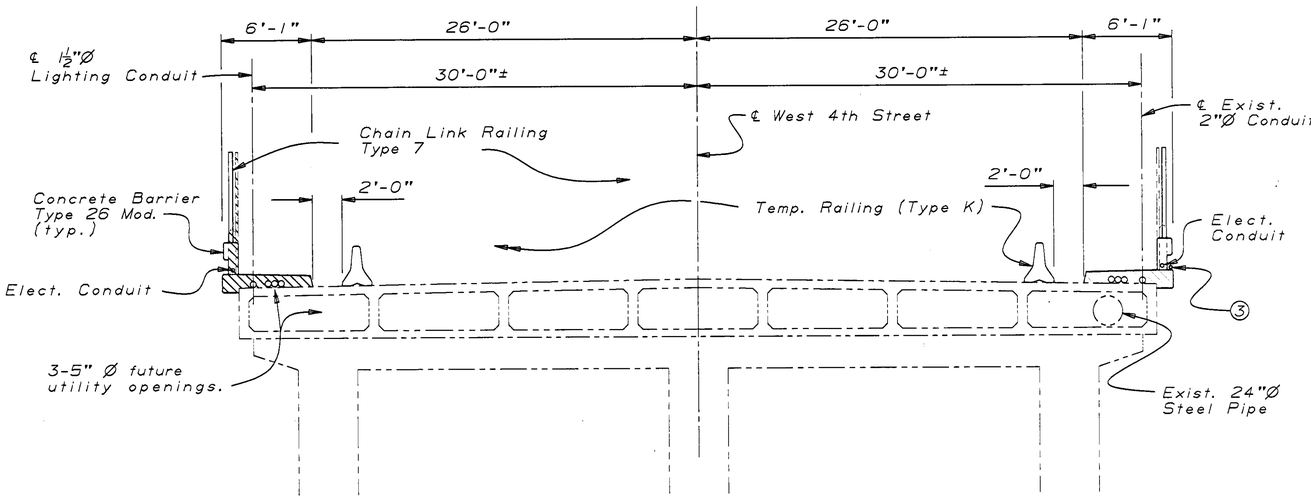
2-4-91
PLANS APPROVAL DATE







PLAN
1"=20'



TYPICAL SECTION
1"=5'

AS BUILT DAS. 1-14-93
CORRECTIONS BY J. Abercrombie
CONTRACT NO. 06-282204
DATE 8-3-92

APPROXIMATE QUANTITIES

TEMPORARY RAILING (TYPE K)	400 LF
BRIDGE REMOVAL (PORTION), LOCATION D	LUMP SUM
REFINISH BRIDGE DECK	185 SQFT

FINAL PAY QUANTITIES

CHAIN LINK RAILING (TYPE 7)	401 LF
CONCRETE BARRIER (TYPE 26 MODIFIED)	401 LF

Notes:

① Paint "West 4th Street Overcrossing" and year constructed.

② Paint "Br. No. 41-50".

③ Remove existing electrical conduit prior to construction. Provide temporary electrical conduit during construction.

④ Temporary Crash Cushion Modules, see "Road Plans."

⑤ Remove end post of existing Right of Way Fence prior to construction. Replace and reconnect end post and Fence after Barrier Rail is complete.

▭ Indicates limits of existing Structure removal.

---- Indicates existing structure.

⑥ Road sign mounted on 2x3 steel post of Type 7 fencing
See details above
Sign at 9+97: "TO 99 SOUTH ←"
10+10: "TO 99 NORTH →"
Sign at 10+30 "Trucks over 60.00 Gross No Left Turn"
10+50: "No Right Turn"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

WEST FOURTH STREET OVERCROSSING

DESIGN	BY D. Ross 9-90	CHECKED G. Joe 9-90	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9
DETAILS	BY D.A. SANDERSON 7-90	CHECKED G. Joe 9-90	LAYOUT	BY D. Ross 9-90	CHECKED G. Joe 9-90		
QUANTITIES	BY D. Ross 9-90	CHECKED S. Maan 9-90	SPECIFICATIONS	BY	PLANS AND SPECS COMPARED		

I M Stoelin 12-90
DESIGN ENGINEER

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

BRIDGE NO. 41-50
POST MILE 11.0

CONCRETE BARRIER REPLACEMENT
GENERAL PLAN NO. 4

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 7-12-90 | 9-7-90 | 9-14-90 | 9-27-90 | 10-1-90 | 10-5-90 | 10-15-90 | 11-5-90 | 11-27-90

SHEET 4 OF 24

DS OSD 2138 (CADD 4/89)

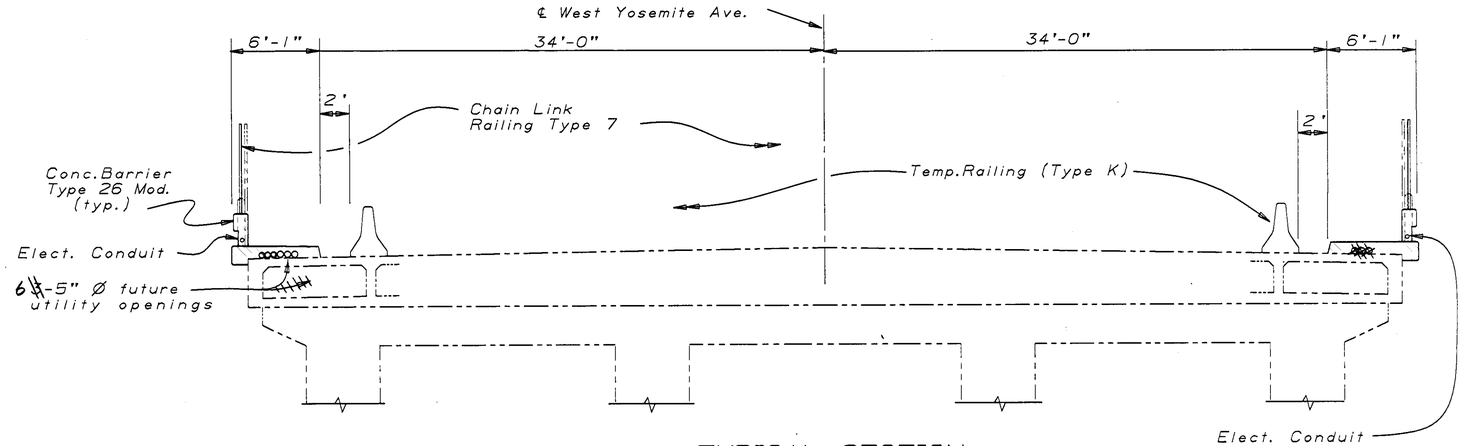
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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	18	39

REGISTERED ENGINEER - CIVIL

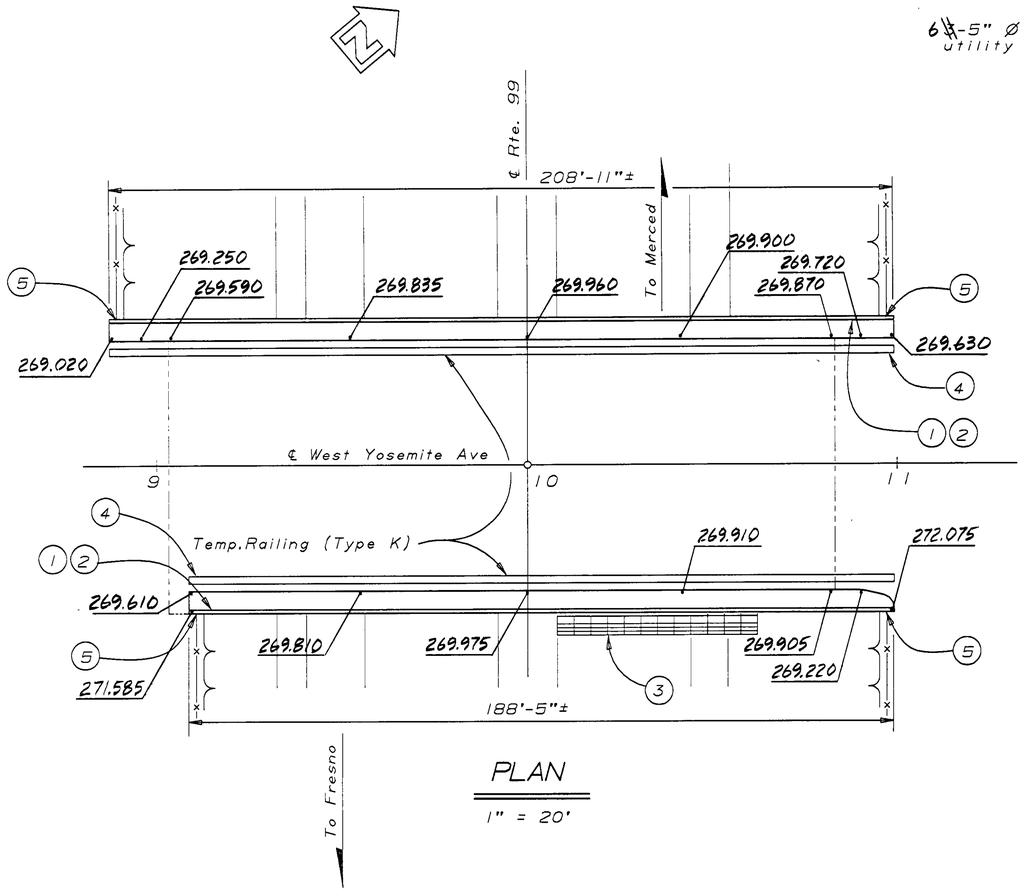
REGISTERED PROFESSIONAL ENGINEER — Gary Joe, No. 36652, Exp. 6-30-92, CIVIL, STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE



TYPICAL SECTION

1" = 5'



PLAN

1" = 20'

AS BUILT
CORRECTED BY J. Abercrombie DAS 12-8-92
CONTRACT NO. 06-282204
DATE 8-3-92

Notes:

1. Paint "West Yosemite Ave. Overcrossing" and year constructed.
2. Paint "Br. No. 41-49".
3. Remove sign structure prior to construction and reinstall after barrier rails are completed.
4. Temporary Crash Cushion Modules, see "Road Plans."
5. Remove end post of existing Right of Way Fence prior to construction. Replace and reconnect end post and Fence after Barrier Rail is complete.

▨ Indicates limits of existing Structure removal.

– – – – Indicates existing structure.

APPROXIMATE QUANTITIES

TEMPORARY RAILING (TYPE K)	420 LF
MODIFY SIGN STRUCTURE	1 EA
BRIDGE REMOVAL (PORTION), LOCATION C	LUMP SUM
REFINISH BRIDGE DECK	181 SQFT

FINAL PAY QUANTITIES

CHAIN LINK RAILING (TYPE 7)	398 LF
CONCRETE BARRIER (TYPE 26 MODIFIED)	398 LF

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

WEST YOSEMITE AVENUE OVERCROSSING

I m Stahl 12-90
DESIGN ENGINEER

DESIGN	BY D. Ross 9-90	CHECKED G. Joe 9-90	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD			
DETAILS	BY Flo Callen 5-90	CHECKED G. Joe 9-90	LAYOUT	BY D. Ross 9-90	CHECKED G. Joe 9-90		
QUANTITIES	BY D. Ross 9-90	CHECKED S. Maan 9-90	SPECIFICATIONS	BY R. J. Parkinson	PLANS AND SPECS COMPARED R. J. Parkinson		

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 9

CU 06200
EA 282201

BRIDGE NO. 41-49
POST MILE 10.8

CONCRETE BARRIER REPLACEMENT
GENERAL PLAN NO. 3

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)										SHEET	OF
5-21-90	6-1-90	6-13-90	8-10-90	9-7-90	9-13-90	9-27-90	10-1-90	10-5-90	11-27-90	3	24

DS OSD 2138 (CADD 4/89)

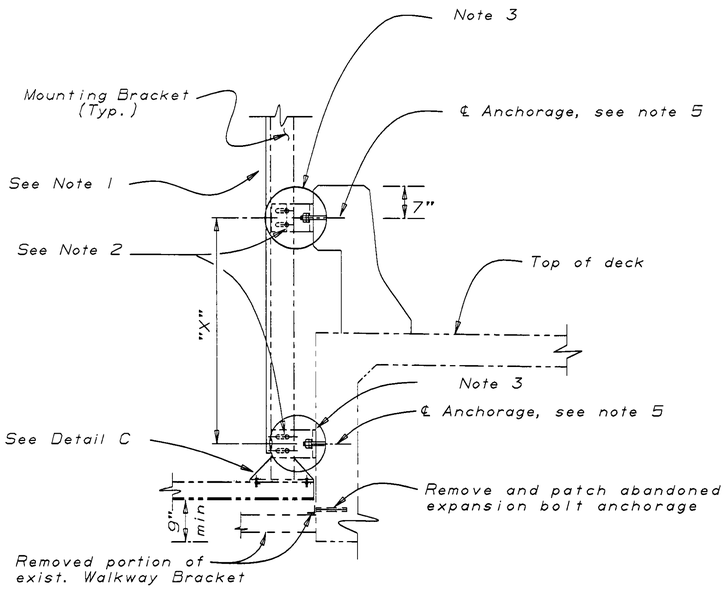
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	36	39

REGISTERED ENGINEER - CIVIL

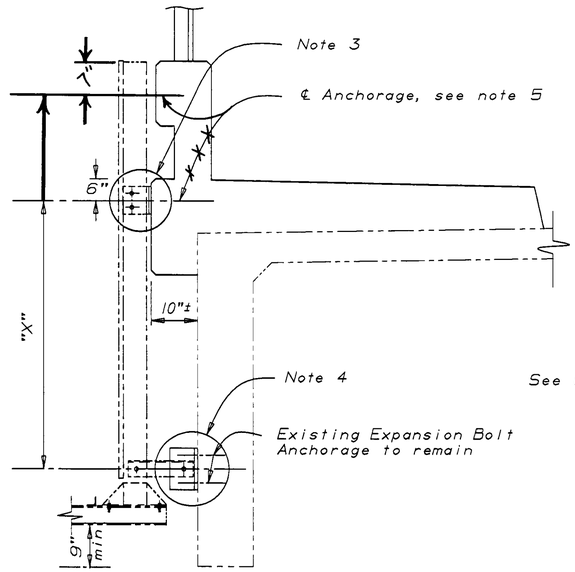
REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE



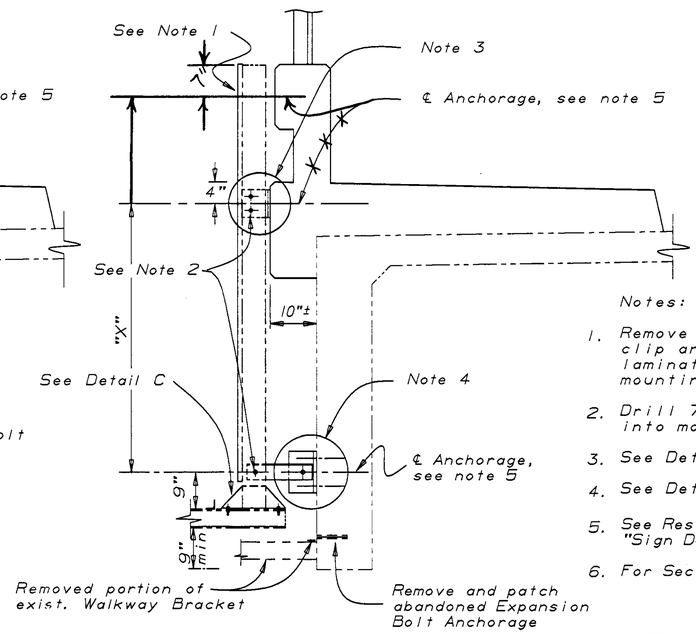
SOUTH MADERA OC. FNBT
PACIFIC AVE. OC. FNBT

$\frac{3}{4}$"=1'-0"



KERN ST. OC. FSBT

$\frac{3}{4}$"=1'-0"



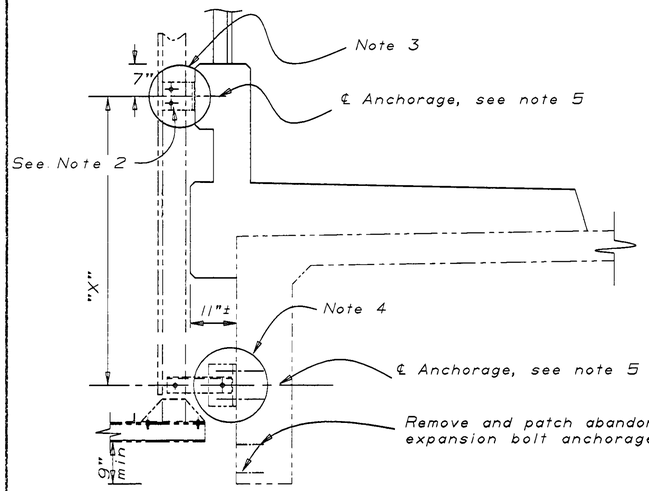
KERN ST. OC. FNBT

$\frac{3}{4}$"=1'-0"

Notes:

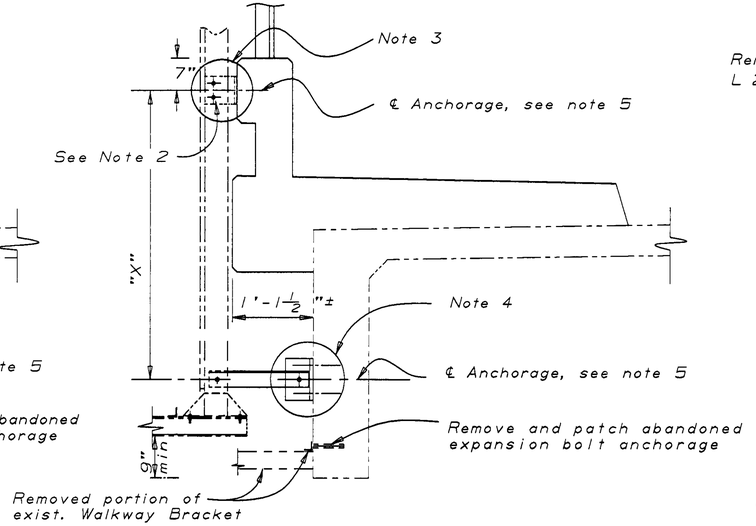
1. Remove existing sign panel and mounting clip angle. Replace with State furnished laminated panel type "A". Drill holes into mounting bracket as needed.
2. Drill 7/8" dia. holes for 3/4" H.S. bolts into mounting bracket.
3. See Detail "A" on "Sign Details No. 2" sheet.
4. See Detail "B" on "Sign Details No. 2" sheet.
5. See Resin Capsule Bolt Anchorage on "Sign Details No. 2" sheet.
6. For Section D-D see "Sign Details No. 2" sheet.

———— Indicates existing structure.



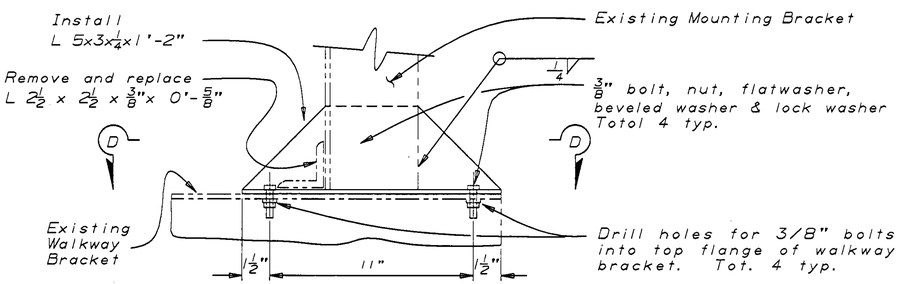
EL DORADO ST. OC. FNBT

$\frac{3}{4}$"=1'0"



W. YOSEMITE AVE. OC. FNBT

$\frac{3}{4}$"=1'-0"



DETAIL C

3"= 1'-0"

W.A.R 3-11-93
CORRECTED J. ABERCROMBIE
CONTRACT NO. 06-282204
DATE 8-3-92

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

	Detail A		Detail B
	"X"	"Y" Top	"Y" Btm	"Z"
S. MADERA ST. OC.	4'-1"	9½"	10"	N/A
PACIFIC AVE. OC.	3'-10"	11½"	10"	N/A
W. YOSEMITE AV. OC.	~~3'-10½"~~ 3'-9"	Existing		1'-5¾"
KERN ST. OC. FNBT	~~3'-1"~~ 5'-4"	Existing		1'-2¼"
KERN ST. OC. FSBT	~~Existing~~ 5'-4"	Existing		Existing
TULARE ST. OC.	~~5'-8"~~ 4'-6"	5¼"		1'-2¼"
EL DORADO ST. OC.	4'-~~7~~ 4"	Existing		Existing

DESIGN	BY D.ROSS 9-90	CHECKED G. Joe 9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9	BRIDGE NO. Various
DETAILS	BY [signature] 9-90	CHECKED G. Joe 9-90			POST MILE
QUANTITIES	BY D.ROSS 9-90	CHECKED S. Maan 9-90			

CONCRETE BARRIER REPLACEMENT
SIGN DETAILS NO. 1

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 9-21-90 | 9-24-90 | 9-14-90 | 9-25-90

SHEET 21 OF 24

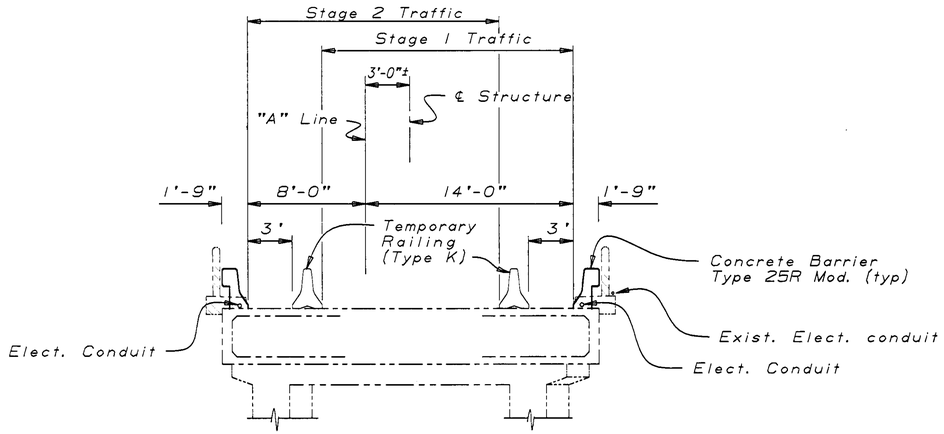
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	16	39

REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — Gary Joe — No. 36852 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE



TYPICAL SECTION

1"=5'

PLAN

1" = 20'

Notes:

1. Paint "South Madera Overcrossing" and year constructed.
2. Paint "Br. No. 41-46K".
3. Remove sign structure prior to construction and reinstall after barrier rail is complete.
4. Provide anchorage for existing MBGR. See Road Plans.
5. Temporary Crash Cushion Modules, see "Road Plans."

Indicates limits of existing Structure removal.

Indicates existing structure.

6. Reference nails based on Assumed Elev. 10.000 (NE Corner)

GENERAL NOTES
WORKING STRESS DESIGN

DESIGN: BRIDGE DESIGN SPECIFICATIONS (1983 AASHTO with Interims and Revisions by CALTRANS).

REINFORCED CONCRETE: f_s = 24,000 psi

f_c = 1,300 psi

n = 10

APPROXIMATE QUANTITIES

TEMPORARY RAILING (TYPE K)	620 LF
MODIFY SIGN STRUCTURE	1 EA
BRIDGE REMOVAL (PORTION), LOCATION A	LUMP SUM
REFINISH BRIDGE DECK	226 SQFT

FINAL PAY QUANTITIES

CONCRETE BARRIER (TYPE 25R MODIFIED)	488 LF

INDEX TO PLANS

SHEET NO.	TITLE
1.	GENERAL PLAN NO. 1
2.	GENERAL PLAN NO. 2
3.	GENERAL PLAN NO. 3
4.	GENERAL PLAN NO. 4
5.	GENERAL PLAN NO. 5
6.	GENERAL PLAN NO. 6
7.	GENERAL PLAN NO. 7
8.	GENERAL PLAN NO. 8
9.	BARRIER DETAILS NO. 1
10.	BARRIER DETAILS NO. 2
11.	BARRIER DETAILS NO. 3
12.	BARRIER DETAILS NO. 4
13.	BARRIER DETAILS NO. 5
14.	BARRIER DETAILS NO. 6
15.	BARRIER DETAILS NO. 7
16.	BARRIER DETAILS NO. 8
17.	BARRIER DETAILS NO. 9
18.	BARRIER DETAILS NO. 10
19.	BARRIER DETAILS NO. 11
20.	BARRIER DETAILS NO. 12
21.	SIGN DETAILS NO. 1
22.	SIGN DETAILS NO. 2
23.	SIGN DETAILS NO. 3
24.	CONCRETE BARRIER TYPE 25R

STANDARD PLANS DATED JANUARY 1988

B11-30	TEMPORARY RAILING (TYPE K)
B11-52	CHAIN LINK RAILING TYPE 7
B11-54	CONCRETE BARRIER TYPE 26
S9-12	OVERHEAD SIGNS, WALKWAY DETAILS NO. 1
S10-9	OVERHEAD SIGNS, WALKWAY DETAILS NO. 2
S11-10	OVERHEAD SIGNS, WALKWAY RAILING DETAILS

AS BUILT
DAS 12-8-92
CORRECTIONS BY J. Abercrombie
CONTRACT NO. 06-282204
DATE 8-3-92

Standard Plan Sheet No.
Detail No.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

SOUTH MADERA OVERCROSSING

L m Stokes 12-90
DESIGN ENGINEER

DESIGN	BY D. Ross 9-90	CHECKED G. Joe 9-90	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
DETAILS	BY Flo Calkins 5-90	CHECKED G. Joe 9-90	LAYOUT	BY D. Ross 9-90	CHECKED G. Joe 9-90
QUANTITIES	BY D. Ross 9-90	CHECKED S. Moan 9-90	SPECIFICATIONS	BY	PLANS AND SPECS COMPARED

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 9

CU 06200
EA 282201

BRIDGE NO. 41-46K
POST MILE 9.7

CONCRETE BARRIER REPLACEMENT
GENERAL PLAN NO. 1

DS 050 2138 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)								
10-18-90	11-26-90			9-7-90	9-13-90	9-14-90	9-27-90	10-1-90	10-5-90

SHEET 1 OF 24

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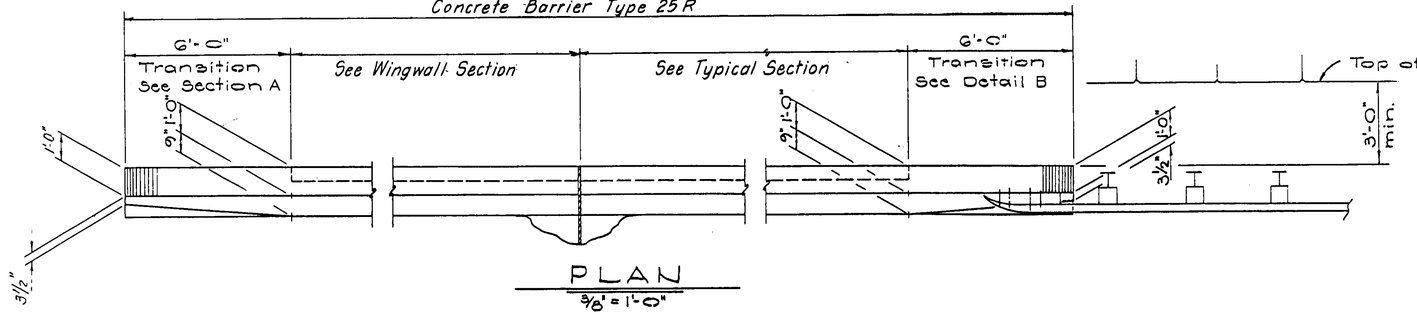
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	39	39

REGISTERED ENGINEER - CIVIL

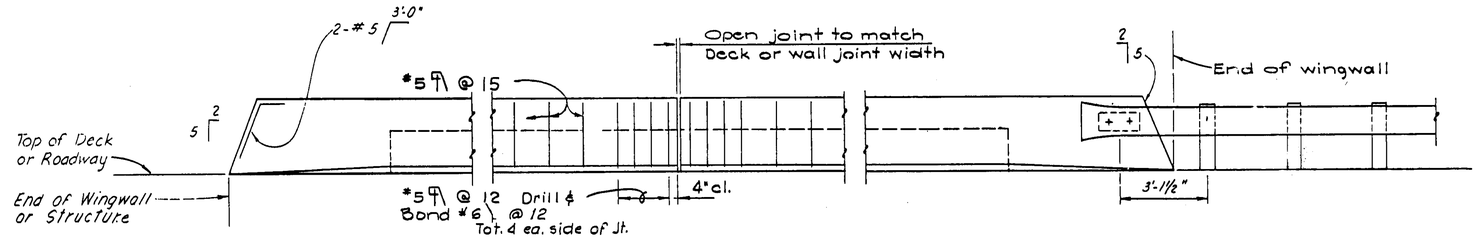
2-4-91
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — G. Joe — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

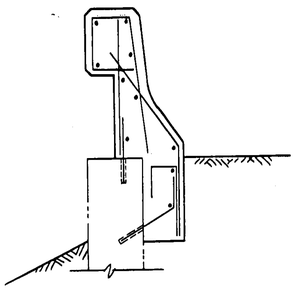
Concrete Barrier Type 25R



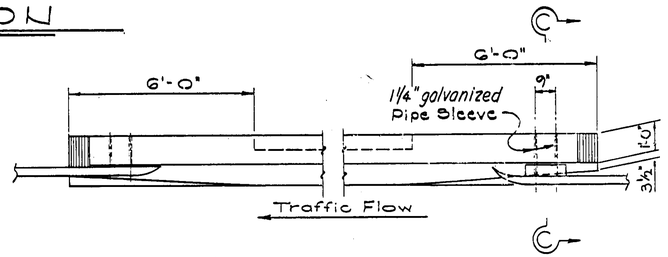
PLAN
3/8" = 1'-0"



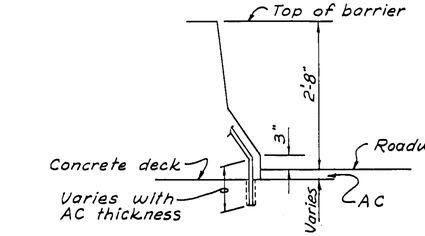
ELEVATION
3/8" = 1'-0"



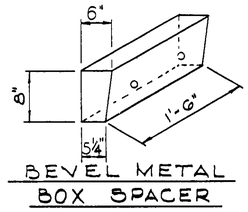
WINGWALL SECTION
3/4" = 1'-0"



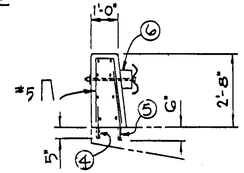
PLAN



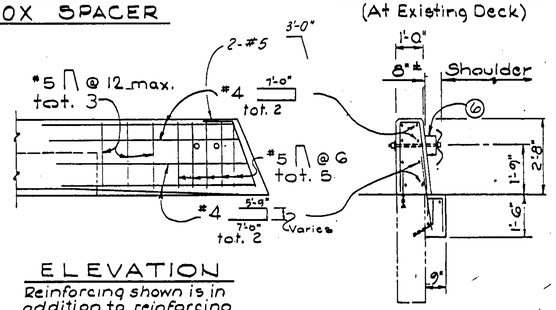
AC DETAIL



BEVEL METAL
BOX SPACER



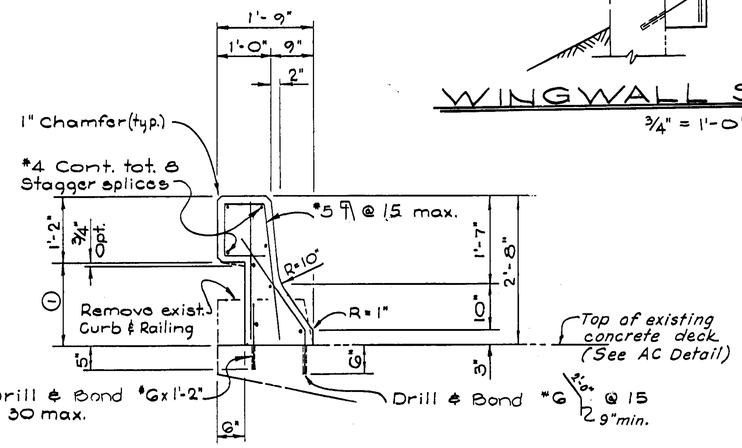
SECTION C-C
(At Existing Deck)



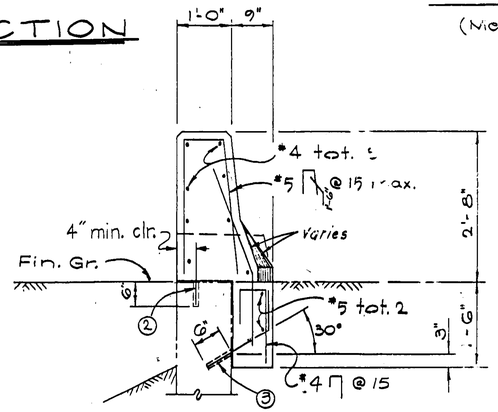
ELEVATION
Reinforcing shown is in addition to reinforcing in Typical Section

SECTION C-C
(At Wingwall)
For Details not shown, see "Section A".

DETAIL B
(Metal Beam Guard Rail Anchorage)



TYPICAL SECTION
3/4" = 1'-0"



SECTION A
3/4" = 1'-0"

Notes:
① - Dimension may vary with cross-slope and with certain thicknesses of surfacing.
② - Drill & Bond #6 x 1'-2" @ 30 max.

③ - Drill & Bond #6 @ 30 max.
④ - Drill & Bond #6 x 1'-2" @ 15
⑤ - Drill & Bond #6 x 2'-6" @ 15
⑥ - Bevel Metal Box Spacer, for anchorage details see Std. Plans A79-C.

Clearance to reinforcing steel in barrier to be 1" except as noted. Longitudinal reinforcement to stop at all expansion joints.
All reinforcing dowels or bolts which will be exposed after Barrier Modification shall be cut off 1" below finish surface and the hole filled with cement mortar.
For Metal Beam Guard Rail details not shown see Standard Plans A77-C, A77-D, A79-A, A79-B and A79-C.

For Drill and Bond, use Magnesium Phosphate Concrete.

NO CORRECTIONS THIS SHEET
AS BUILT
CORRECTED J. ABERCROMBIE
CONTRACT NO. 06-282204
DATE 8-3-93

FILE NO.	DESIGN By G. Joe	Checked D. Ross	Approval Recommended By
DRAWING	DETAILS By	Checked	DESIGN SUPERVISOR
DATE	SUBMITTED BY		REGISTERED CIVIL ENGINEER NUMBER

State of CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN

PROJECT ENGINEER — REGISTERED CIVIL ENGINEER NO.

BRIDGE NO. Various
POST MILE Various

CONCRETE BARRIER REPLACEMENT
CONCRETE BARRIER TYPE 25R

DS 050 2147A (2/86)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

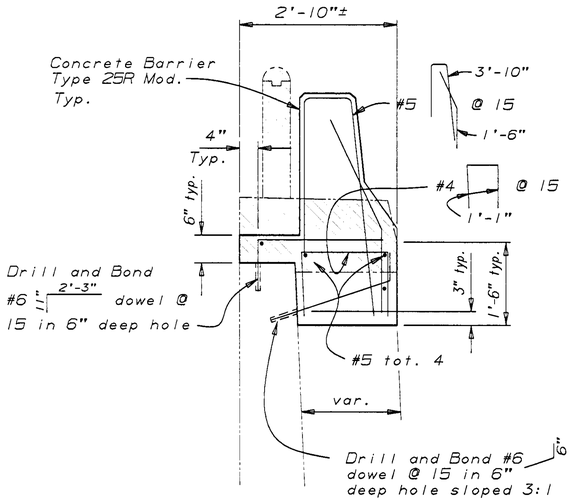
CU 06200
EA 282201

Disregard prints bearing earlier revision dates →

REVISION DATES (PRELIMINARY STAGE ONLY): 8/86 9/87

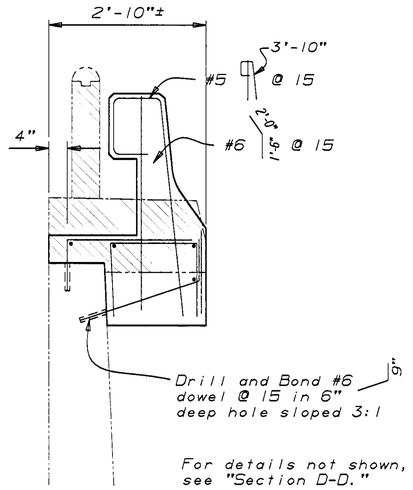
SHEET 24 OF 24

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SECTION D-D

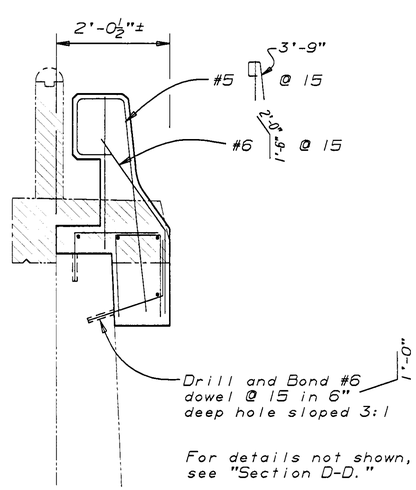
$\frac{3}{4}$"=1'-0"



For details not shown, see "Section D-D."

SECTION E-E

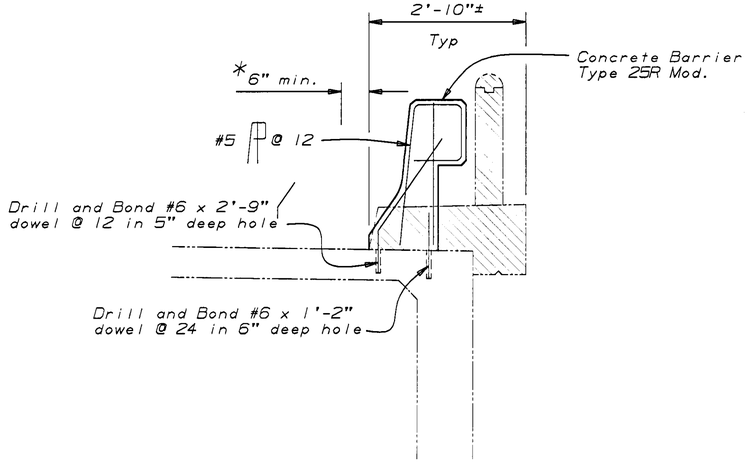
$\frac{3}{4}$"=1'-0"



For details not shown, see "Section D-D."

SECTION F-F

$\frac{3}{4}$"=1'-0"



TYPICAL SECTION - RT. EDGE OF DECK

$\frac{3}{4}$"=1'-0"

Notes:

* Limits of refinishing bridge deck.

For locations of "Section D-D, E-E & F-F," see "Barrier Details No. 4" sheet.

For details and reinf. not shown see "Concrete Barrier Type 25R" sheet.

Indicates limits of existing Structure removal.

Indicates existing structure.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

NO CORRECTIONS THIS SHEET

AS BUILT

W. A. R. 3-11-93

CORRECTED BY J. ABERCROMBIE

CONTRACT NO. 06-282204

DATE 8-3-92

PACIFIC AVENUE OVERCROSSING

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	35	39

REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE

DESIGN	BY D. ROSS 9-90	CHECKED G. JOE 9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9	BRIDGE NO. 42-189 / POST MILE 22.4
DETAILS	BY D.A. SANDERSON 9-90	CHECKED G. JOE 9-90			
QUANTITIES	BY D. ROSS 9-90	CHECKED S. MAAN 9-90			

CONCRETE BARRIER REPLACEMENT
BARRIER DETAILS NO. 12

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 9-14-90 | 9-18-90 | 10-1-90 | 10-8-90 | 11-28-90

SHEET 20 OF 24

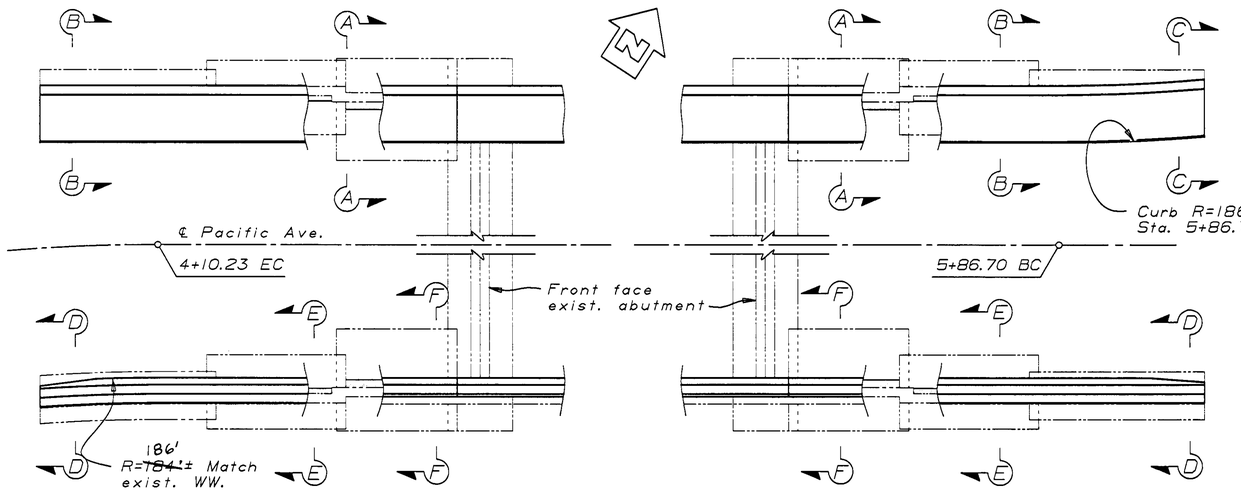
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	34	39

REGISTERED ENGINEER - CIVIL

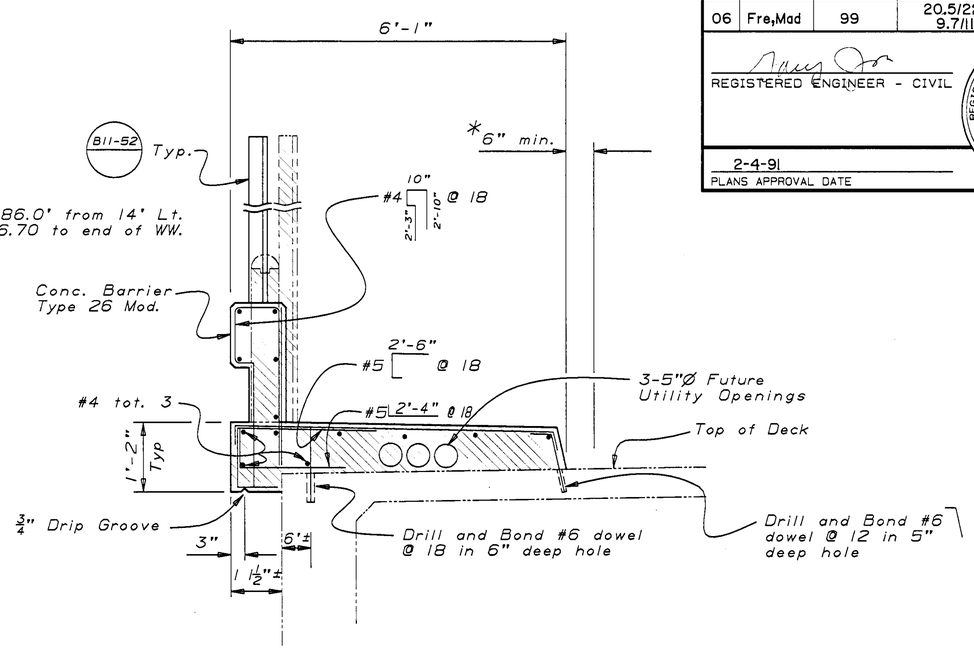
REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE

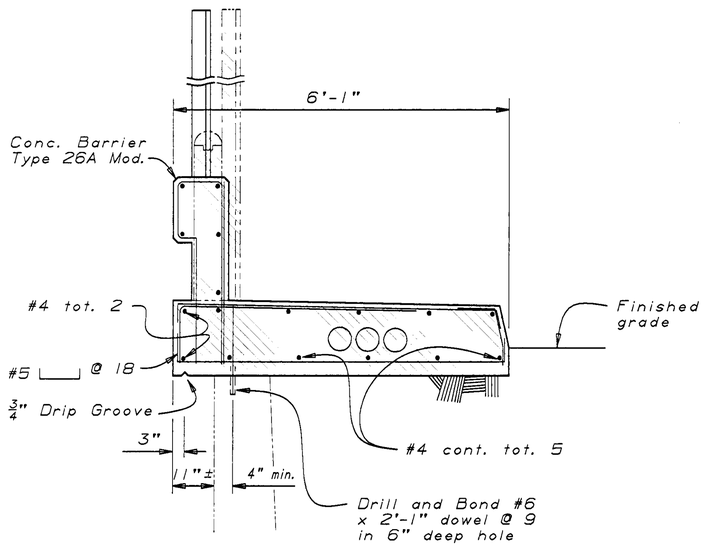


PLAN
1/8"=1'-0"

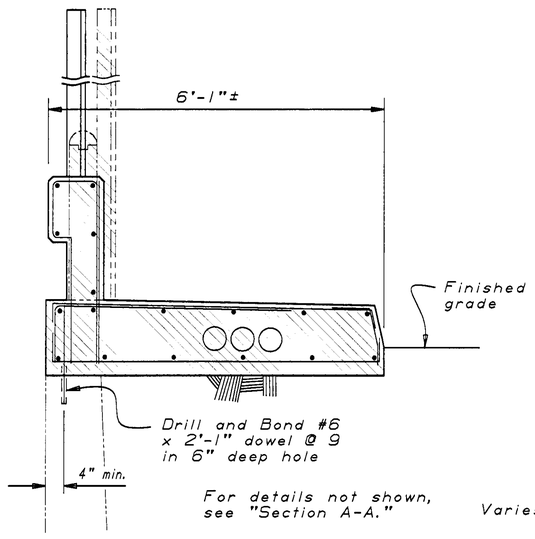
Note:
For Sections D-D, E-E, F-F and Typical Section - Rt. Edge of Deck, see "Barrier Details No. 12" sheet.



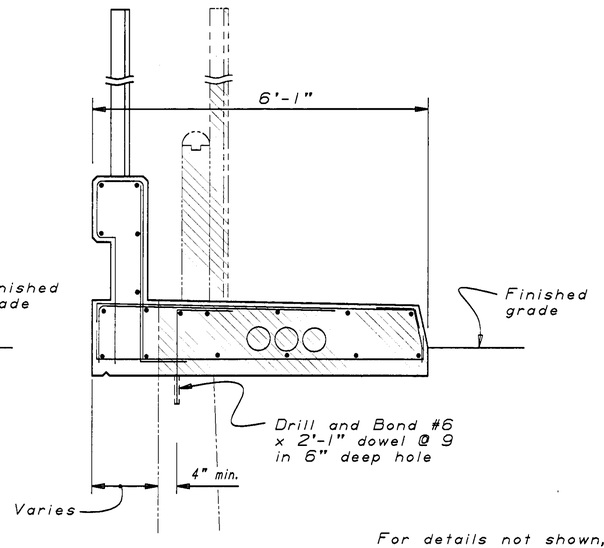
TYPICAL SECTION - LT. EDGE OF DECK B11-54
¾"=1'-0"



SECTION A-A B11-54
¾"=1'-0"



SECTION B-B
¾"=1'-0"



SECTION C-C
¾"=1'-0"

W.A.R 3-11-93
CORRE[illegible] J. ABERCROMBIE
CONTRACT NO. 06-282204
DATE 8-3-92

Notes:

* Limits of refinishing bridge deck.

Indicates limits of existing Structure removal.

Indicates existing structure.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

PACIFIC AVENUE OVERCROSSING

DESIGN	BY D. ROSS 9-90	CHECKED G. JOE 9-90	
DETAILS	BY D.A. SANDERSON 9-90	CHECKED G. JOE 9-90	
QUANTITIES	BY D. ROSS	CHECKED S. MAAN	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 9

CU 06200
EA 282201

BRIDGE NO.	CONCRETE BARRIER REPLACEMENT
42-189	BARRIER DETAILS NO. 11
POST MILE 22.4	

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 9-11-90 | 10-1-90 | 10-8-90 | 10-15-90 | 10-18-90 | 12-3-90

SHEET 19 OF 24

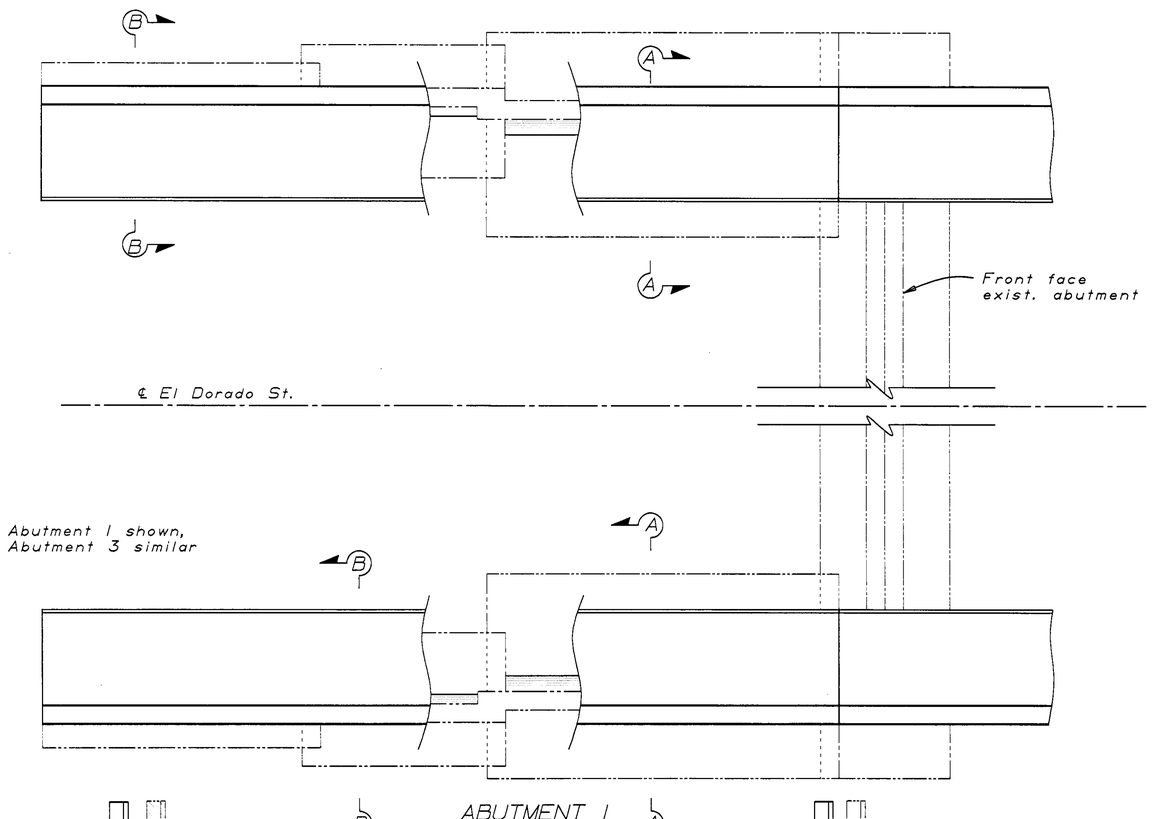
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	33	39

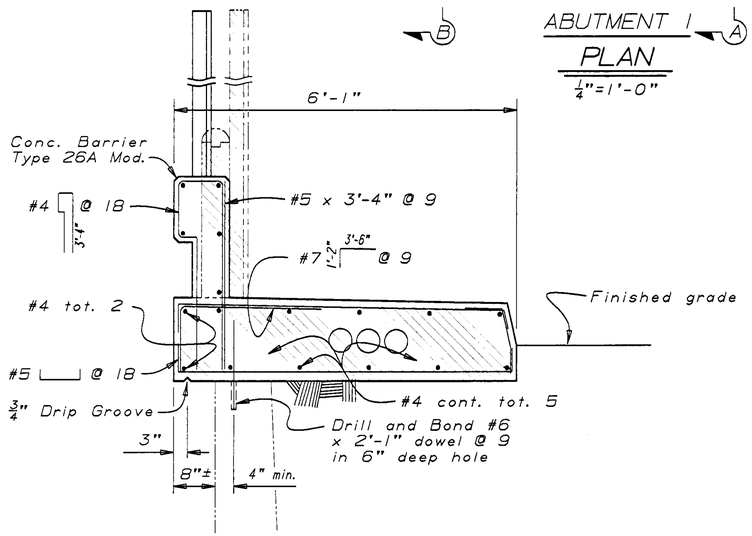
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

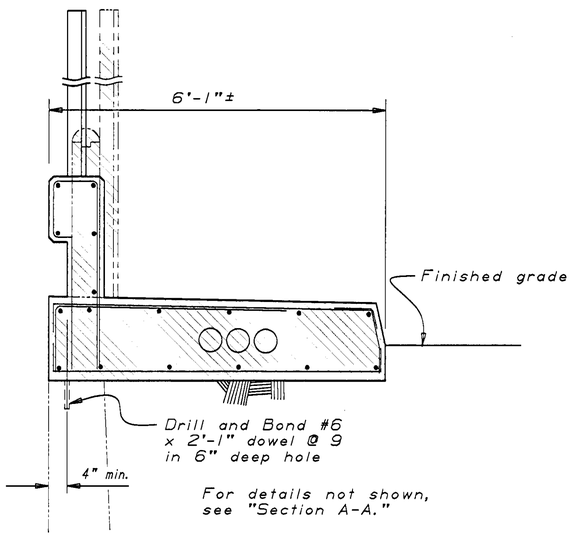
2-4-91
PLANS APPROVAL DATE



ABUTMENT 1
PLAN
1/4"=1'-0"

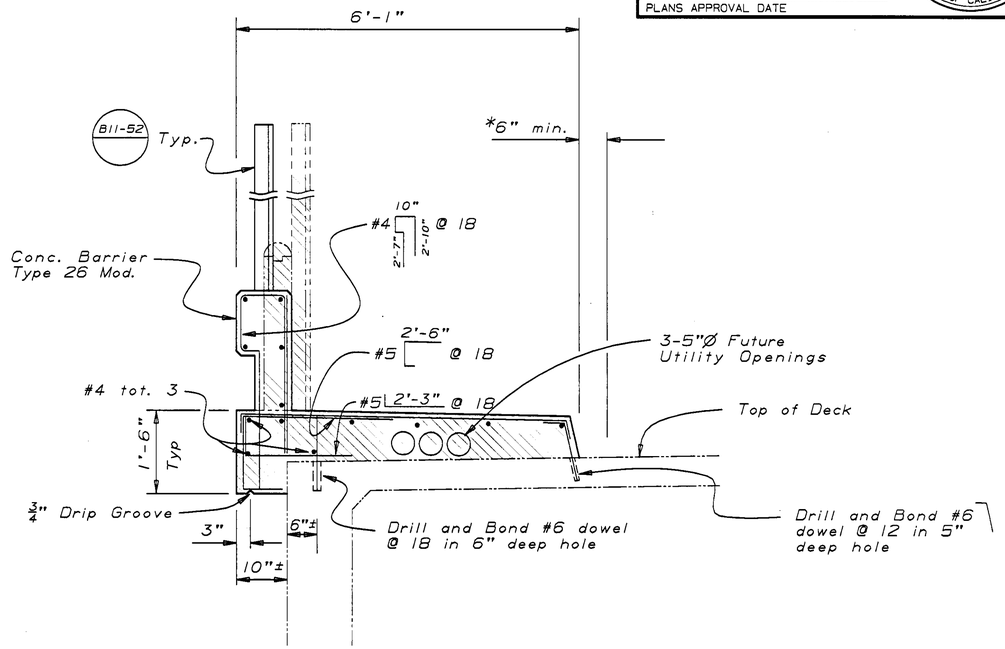


SECTION A-A
3/4"=1'-0"



For details not shown, see "Section A-A."

SECTION B-B
3/4"=1'-0"



TYPICAL SECTION (B11-54)
3/4"=1'-0"

NO CORRECTIONS THIS SHEET

W.A.R. 3-11-93
CORRECTED J. ABERCROMBIE
CONTRACT NO. 06-282204
DATE 8-3-92

Notes:

* Limits of refinishing bridge deck.

Indicates limits of existing Structure removal.

Indicates existing structure.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

EL DORADO STREET OVERCROSSING

DESIGN	BY D. ROSS 9-90	CHECKED G. JOE 9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9
DETAILS	BY D.A. SANDERSON 9-90	CHECKED G. JOE 9-90		
QUANTITIES	BY D. ROSS 9-90	CHECKED S. MAAN 9-90		

BRIDGE NO. 42-184
POST MILE 21.5

CONCRETE BARRIER REPLACEMENT
BARRIER DETAILS NO. 10

DS 050 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 9-11-90 | 9-28-90 | 10-1-90 | 10-4-90 | 10-8-90 | 12-3-90

SHEET 18 OF 24

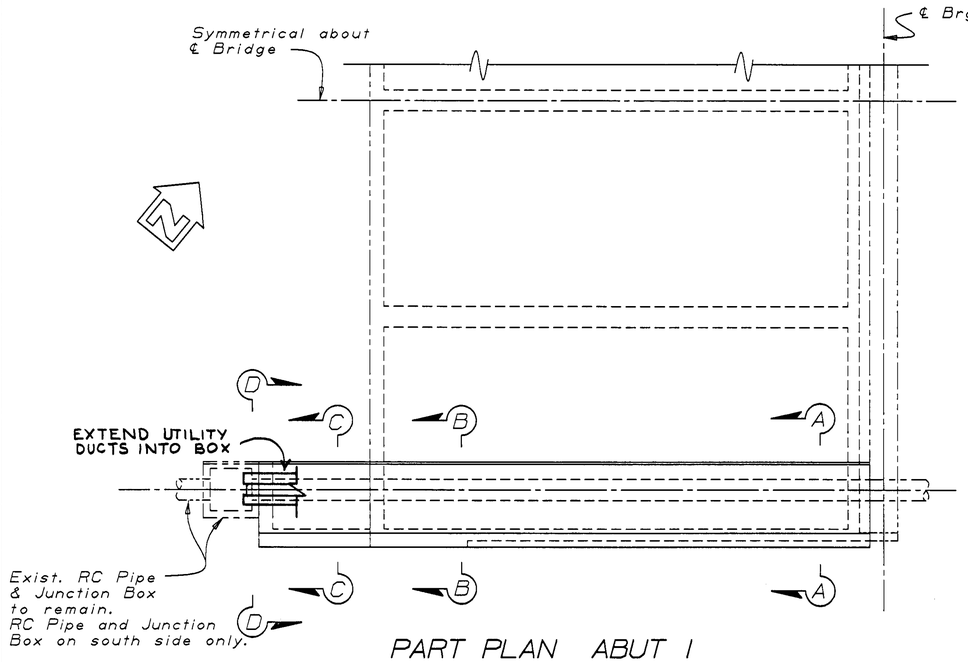
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	30	39

REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

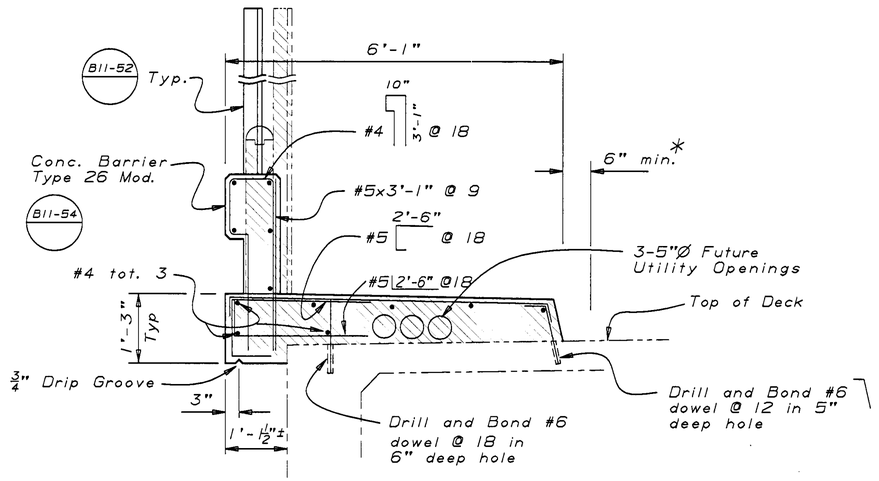
2-4-91
PLANS APPROVAL DATE



PART PLAN ABUT 1

$\frac{3}{16}$"=1'-0"

Abutment 3 similar except as noted, see Barrier Details No. 8 sheet.



TYPICAL SECTION

$\frac{3}{4}$"=1'-0"

(LOOKING BACK ON STATION)

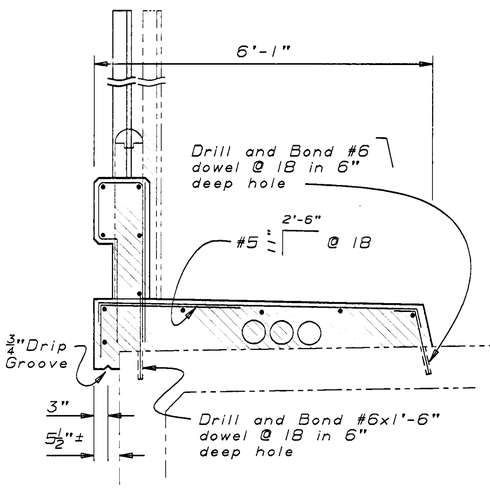
Notes:

* Limits of refinishing bridge deck.

Indicates limits of existing Structure removal.

Indicates existing structure.

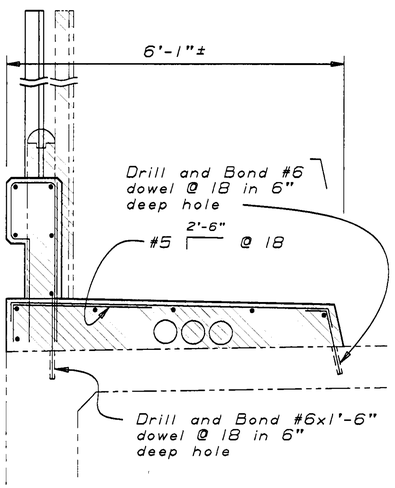
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



SECTION A-A

$\frac{3}{4}$"=1'-0"

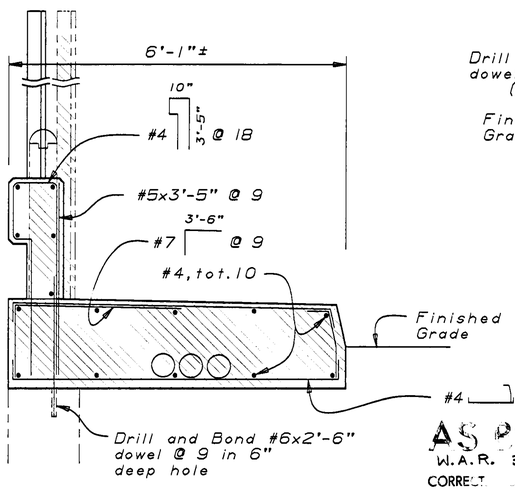
For details not shown see Typical Section



SECTION B-B

$\frac{3}{4}$"=1'-0"

For details not shown see Typical Section

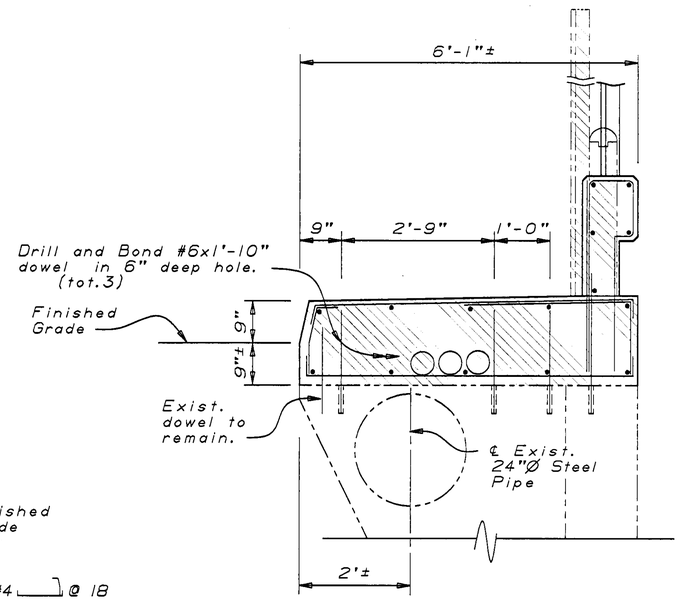


SECTION C-C

$\frac{3}{4}$"=1'-0"

For details not shown see Typical Section

AS PLOTTED
W.A.R. 3-10-93
CORRECTED J. ABERCROMBIE
CONTRACT NO. 06-282204
DATE 8-3-92



VIEW D-D

$\frac{3}{4}$"=1'-0"

For details not shown see Section C-C

WEST FOURTH STREET OVERCROSSING

DESIGN	BY D. Ross 9-90	CHECKED G. Joe 9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9	BRIDGE NO. 41-50
DETAILS	BY L. Good 9-90	CHECKED G. Joe 9-90			POST MILE 11.0
QUANTITIES	BY D. Ross 9-90	CHECKED S. Maan 9-90		CU 06200 EA 282201	

CONCRETE BARRIER REPLACEMENT
BARRIER DETAILS NO. 7

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 9-21-90 | 9-26-90 | 9-28-90 | 10-1-90 | 10-8-90 | 12-3-90

SHEET 15 OF 24

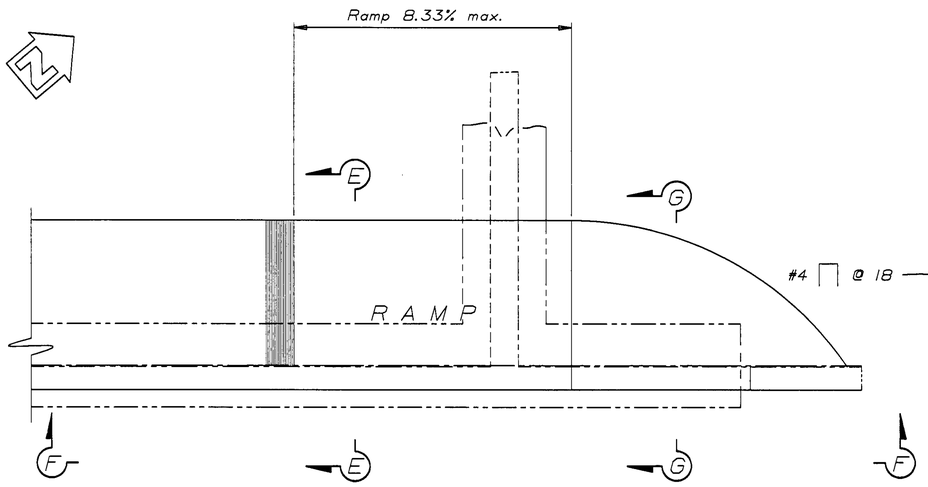
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06.	Fre,Mad	99	20.5/22.4, 9.7/11.0	29	39

REGISTERED ENGINEER - CIVIL

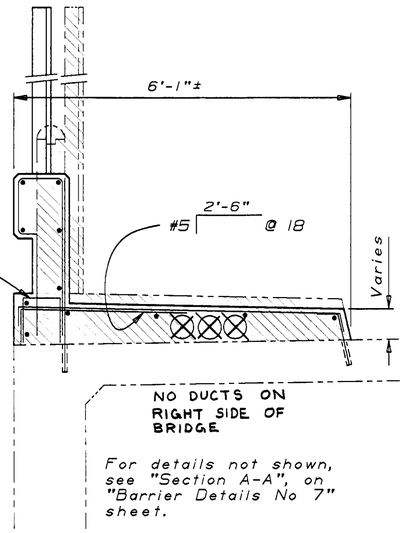
REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE



HALF PLAN - ABUT. 3 RT. SIDE

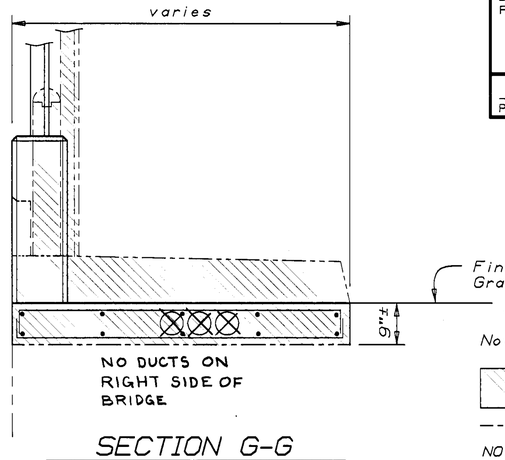
$\frac{3}{8}$"= 1'-0"



For details not shown, see "Section A-A", on "Barrier Details No 7" sheet.

SECTION E-E

$\frac{3}{4}$"= 1'-0"



SECTION G-G

$\frac{3}{4}$"=1'-0"

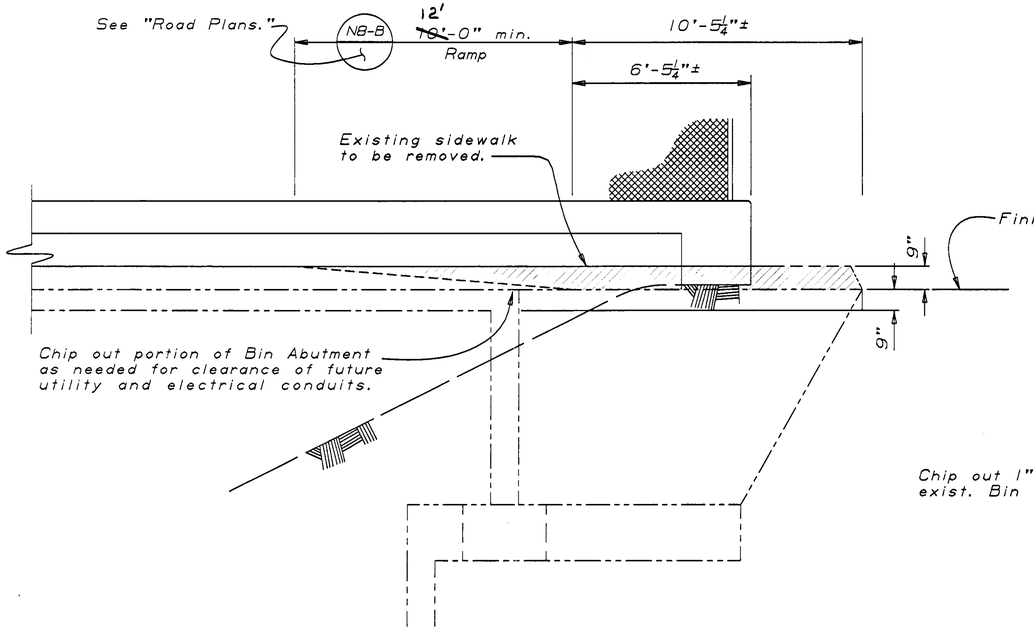
For details not shown, see "Typical Section" on "Barrier Details No.5" sheet.

Notes:

Indicates limits of existing Structure removal.

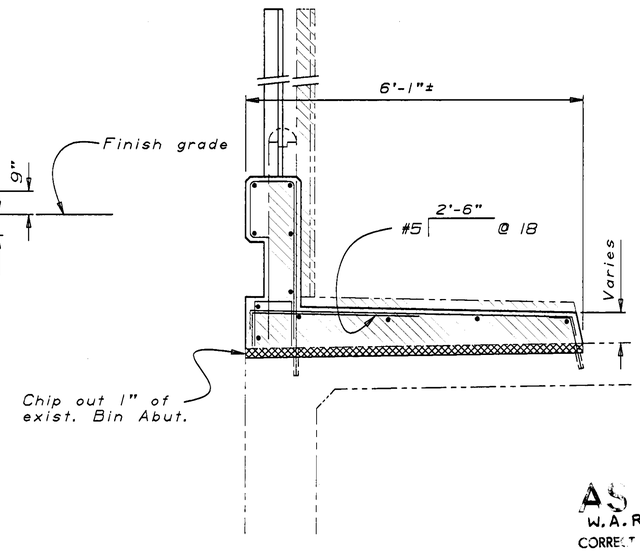
Indicates existing structure.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



ELEVATION F-F

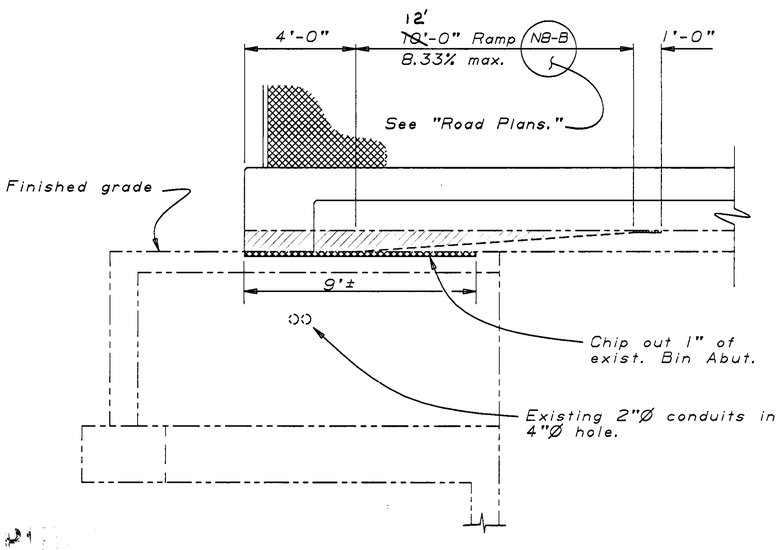
$\frac{3}{8}$"= 1'-0"



SECTION J-J

$\frac{3}{4}$"= 1'-0"

For details not shown, see "Section A-A", on "Barrier Details No 7" sheet.



ELEVATION H-H

$\frac{3}{8}$"= 1'-0"

W.A.R. 3-11-93
CORRECT J. ABERCROMBIE
CONTRACT NO. 06-282204
DATE 8-3-92

WEST YOSEMITE AVE. OVERCROSSING

DESIGN	BY D. ROSS	CHECKED G. JOE	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9	BRIDGE NO. 41-49
DETAILS	BY 9-90	CHECKED G. JOE			POST MILE 10.8
QUANTITIES	BY D. ROSS	CHECKED S. MAAN			

CONCRETE BARRIER REPLACEMENT
BARRIER DETAILS NO. 6

DS 050 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 9-7-90; 9-28-90; 10-3-90; 10-4-90; 10-17-90; 12-3-90

SHEET 14 OF 24

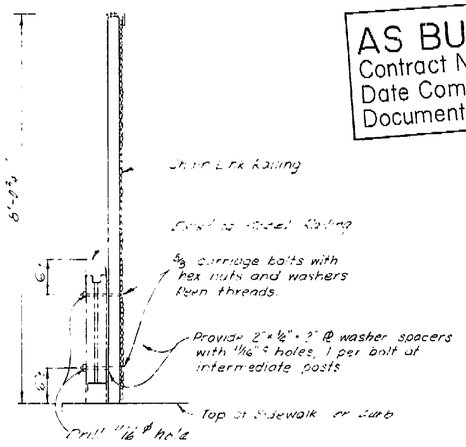
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	17.3 / 11.1	12	24

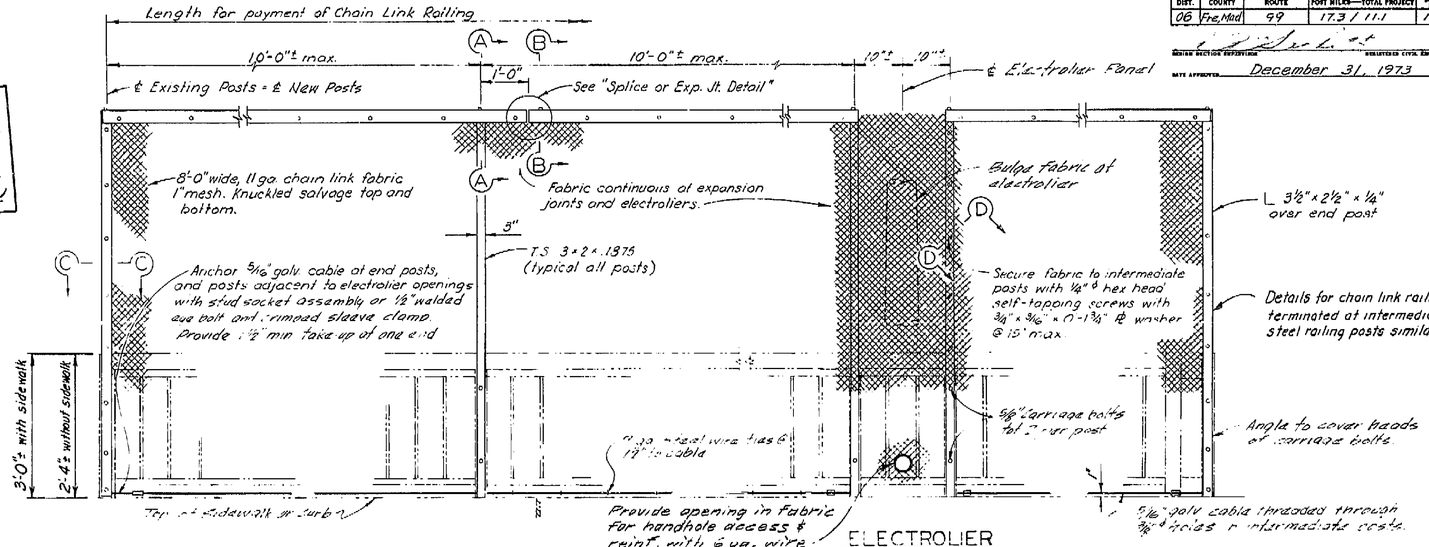
8695

DATE APPROVED December 31, 1973

AS BUILT PLANS
Contract No. 06-127904
Date Completed 12-73
Document No. 6 om 2092



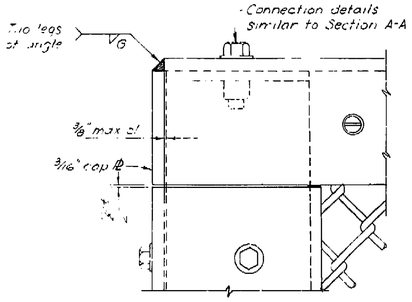
TYPICAL SECTION



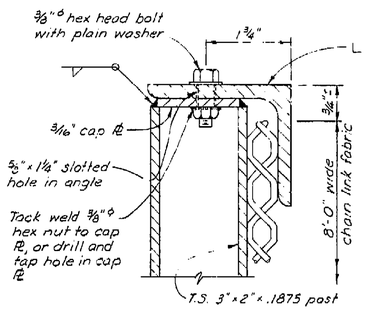
SINGLE END POST — INTERMEDIATE PANEL — ELECTROLIER PANEL — DOUBLE END POST

ELEVATION

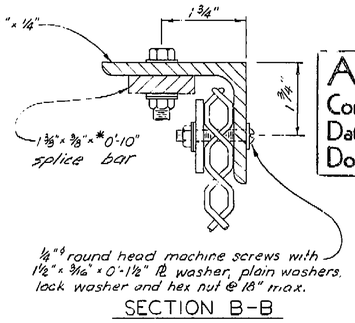
Details for future and existing electrolier similar.



END POST ELEVATION



SECTION A-A

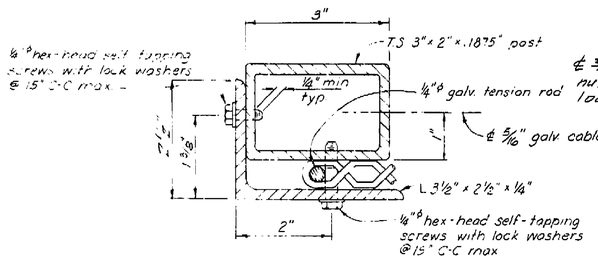


SECTION B-B

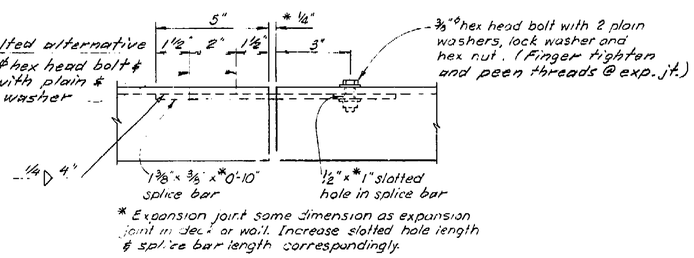
AS BUILT PLANS
Contract No. 06-127904
Date Completed 7-18-74
Document No.

NOTES:

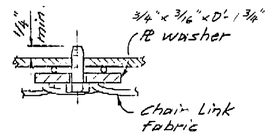
1. Railing assembly except chain link fabric to be galvanized after fabrication.
2. Posts shall be vertical.
3. Railing shall conform to horizontal and vertical alignment. Horizontal angle shall be bent to conform to horizontal alignment if radius is 150 ft or less and may be on 10 ft chords if radius is over 150 ft.
4. Horizontal angle shall be continuous over not less than two intermediate posts, except that a shorter length is permitted at expansion joints, electroliers and other rail discontinuities.
5. When rail is on slope, place fabric parallel to slope.
6. Alternative details may be submitted by Contractor for Engineer's approval.
7. Provide thimbles at all cable loops.
8. The Contractor shall verify all dependent dimensions in the field before ordering or fabricating any material.
9. When railing is placed on a curved horizontal alignment with radius of 150 ft or less, thread 5/16" cable through 3/8" ⌀ welded eye bolts set in epoxy adhesive in 1/2" ⌀ x 3" deep drilled holes in concrete curb or sidewalk equally spaced to limit the midordinate distance between the 5/16" cable and the curve to 1" max.
10. Peen all exposed bolts.



SECTION C-C



SPLICE OR EXPANSION JOINT DETAIL



SECTION D-D

RAILING MODIFICATION

① Existing Steel Baluster (7-25-73)

	By	Checked
DESIGN	M. Pohli 7-72	Elee 8-72
DETAILS	K. Endow 7-72	Elee 8-72
QUANTITIES	W. Lowie 7-73	

State of CALIFORNIA DEPARTMENT OF TRANSPORTATION

BRIDGE DEPARTMENT DESIGN SECTION 13

PROJECT ENGINEER Ans Pomutz

BRIDGE No. 42-189

POST MILE 22.39

PACIFIC AVENUE OVERCROSSING

CHAIN LINK RAILING DETAILS

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU WO

Disregard prints bearing earlier revision dates

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 2 OF 2

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATED 7-25-74

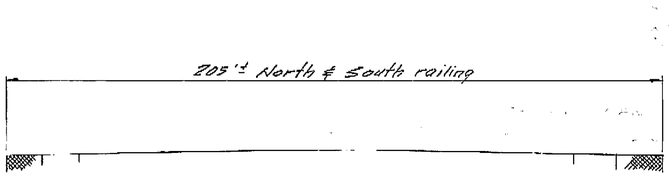
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre.Mad	99	17.3/11.1	11	24

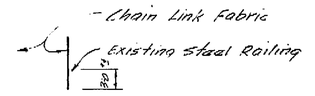
BRIDGE ENGINEER — REGISTERED CIVIL ENGINEER NUMBER M88

ASSISTANT STATE HIGHWAY ENGINEER — REGISTERED CIVIL ENGINEER NUMBER 8290

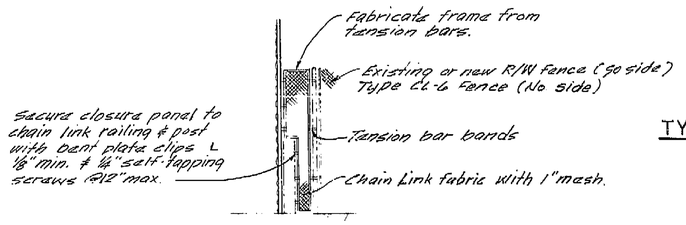
DATE APPROVED December 31, 1973



NOTE:
THE CONTRACTOR SHALL VERIFY ALL DEPENDENT DIMENSIONS IN THE FIELD BEFORE ORDERING OR FABRICATING ANY MATERIAL



ELEVATION

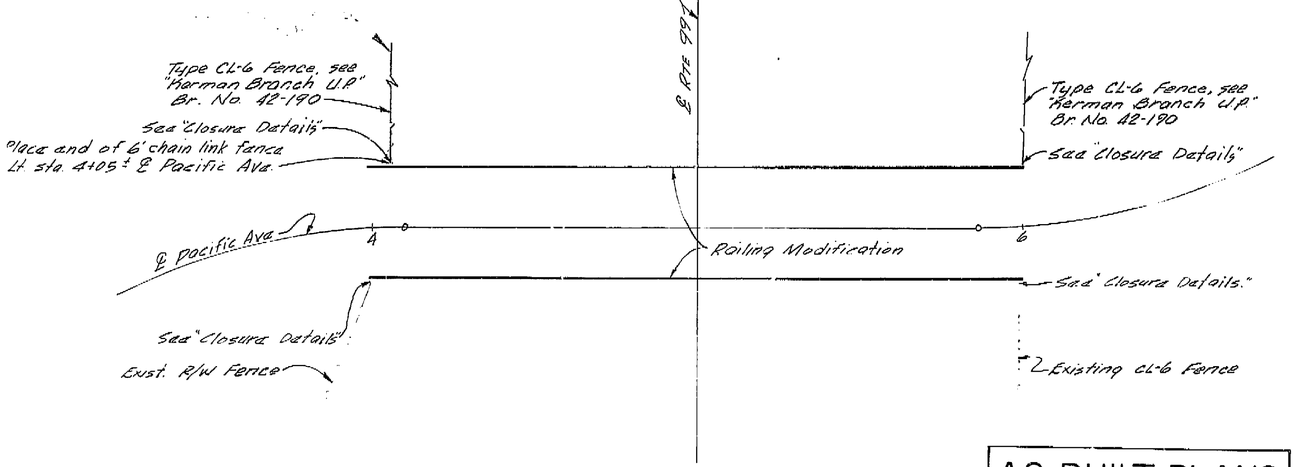


CLOSURE DETAILS

TYPICAL SECTION

INDEX TO PLANS

Sheet No.	Title
1	General Plan
2	Chain Link Railing Details



PLAN

AS BUILT PLANS
Contract No. 06-127904
Date Completed 12-73
Document No. 6 ORM 20902

AS BUILT PLANS
Contract No. 06-127904
Date Completed 7-18-74
Document No. _____

APPROVED FOR CONSTRUCTION
MODIFY BRIDGE RAILING — DISTRICT 06 — 410 DP

BRIDGE DEPARTMENT — DESIGN SECTION 13			
Section Supervisor: R. C. Blackett			
Project Engineer: [illegible]			
DESIGN	By W. Louie 3-73	Checked	J. Thom Lee 7-13
DETAILS	By W. Louie 3-73	Checked	J. Thom Lee 7-13
LAYOUT	By W. Louie 3-73	Checked	J. Thom Lee 7-13
QUANTITIES	By W. Louie 7-13	Checked	J. Thom Lee 7-13
SPECIFICATIONS	By J. Benton 1-74	Prep. and Bond Compared	
Approval Recommended by: [illegible] Design Engineer — Assistant Chief Engr., License No. [illegible] — DATE [illegible]			

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PACIFIC AVENUE OVERCROSSING
RAILING MODIFICATION

GENERAL PLAN

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-189	22.39		1	2

W.O. 127901
C.U. 66351

11

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 9 25 74 SIGNED [illegible] TITLE [illegible]

DAS-68-70

ClibPDF - www.fastio.com

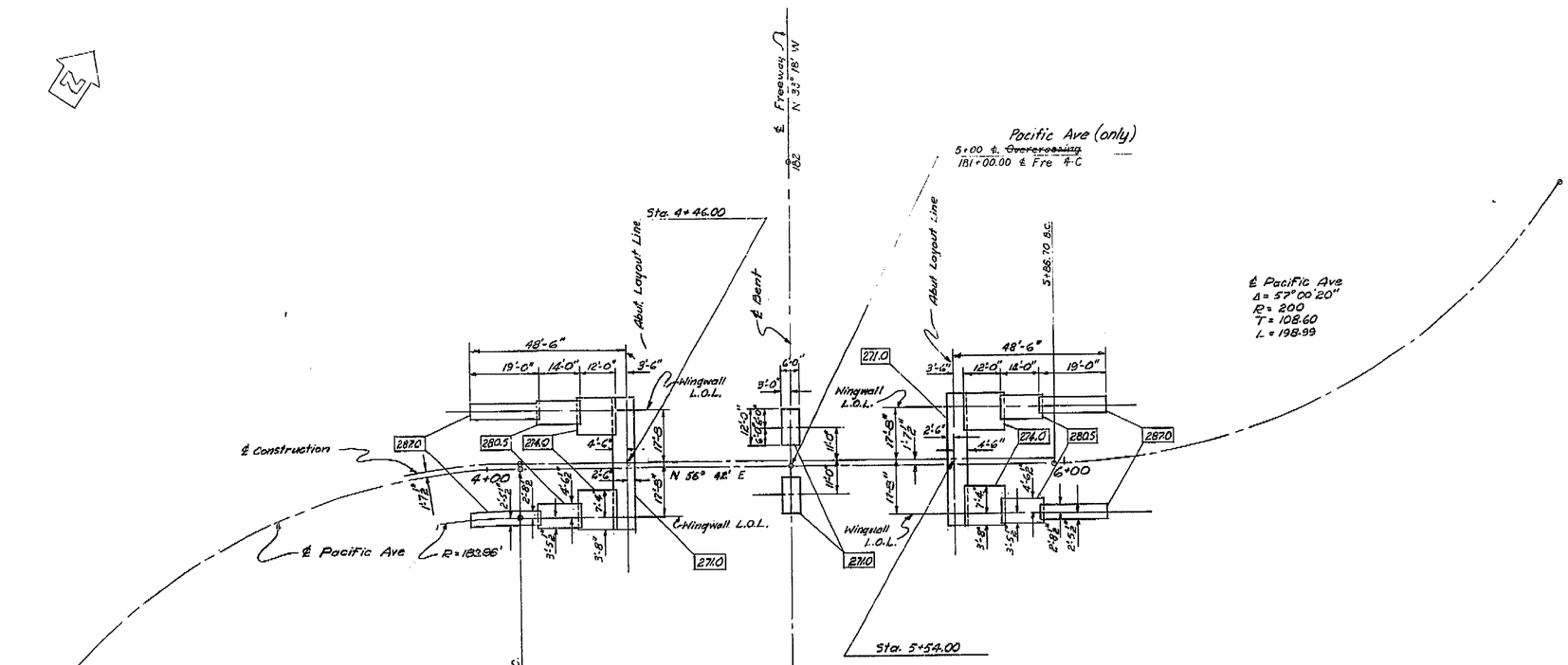
FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.	0719(6)		116	162

DIST.	COUNTY	ROUTE	OFFSET	SHEET NO.	TOTAL SHEETS
VI	Fre				

Rte 99
PM 22.4

BRIDGE ENGINEER — CIVIL ENGINEER-LICOSE 5585

APPROVED February 20, 1955



Notes:
Footing elevations shown thus: 00.0
For detailed abutment layout see "Abutments" sheet.

B.M. No. D
R.R. Spike in P.P.
100' W. of Inter. of
℄ Survey & R.R. Tracks
at NE Cor. of Cemetery
ELEV. = 293.13

AS BUILT
CORRECTIONS BY Hoerchner
CONTRACT NO. 56-6TC1
DATE 1-3-57 SY 7-79

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS
BRIDGE DEPARTMENT

PACIFIC AVENUE OVERCROSSING

FOUNDATION PLAN

Scale: 1" = 20' | Bridge 48-189 | File: | Drawing 8-3509-2

PREL. DRAWING NO. P-3509 X 10

DESIGN SECTION 7
℄ F. Smith
PROJECT DESIGNER

DESIGN 7 SECTION

	DESIGN	DETAILS	QUANTITIES	SPECIFICATIONS
Initial	DJ	WRM	WRM	JSC
Date	3-54	7-54	7-54	8-54

Submitted by: Design Unit 7
Approved: [signature] Engineer
Special Functions Engineer

AS BUILT PLANS
Contract No. 56-6TC1
Date Completed
Document No. 60000990

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 1-30-80 SIGNATURE Joseph M Costa TITLE SUPERVISOR OF MICROFILM SERVICES

DAB-59-76

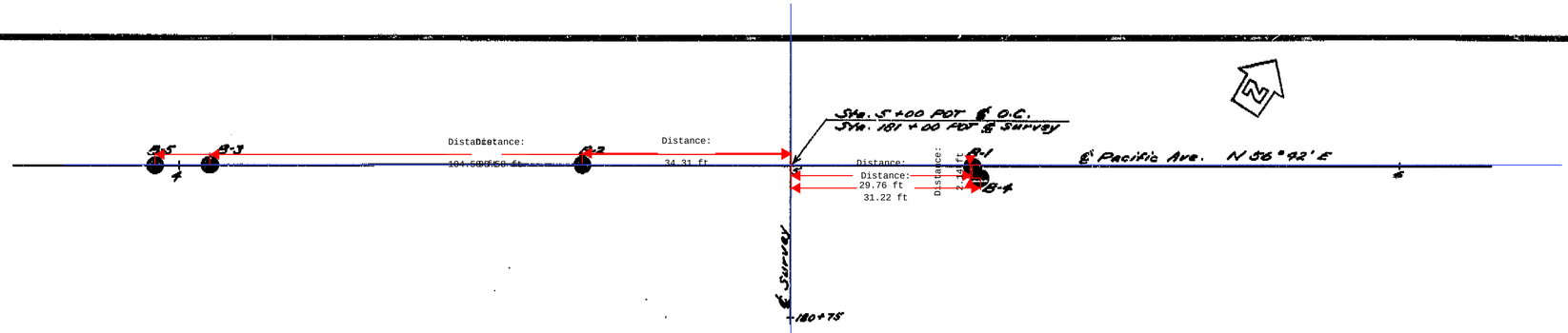
ClibPDF - www.fastio.com

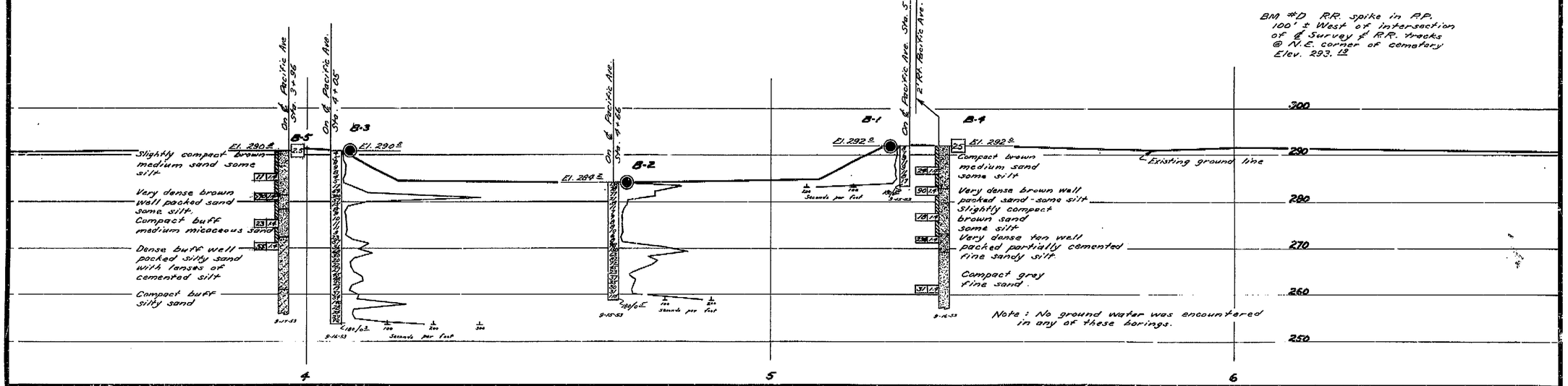
FED. ROAD DIST. No.	STATE	Fed. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
2	CAL.	Projects 01		121	162

DIST.	COUNTY	ROUTE	SECTION	POST / KM.	TOTAL SHEETS
11	Mon				

BRIDGE DEPARTMENT

APPROVED February 18, 1955





Note : No ground water was encountered in any of these borings.

BM #D R.R. spike in P.P. 100' ± West of intersection of ℄ Survey ℄ R.R. tracks @ N.E. corner of cemetary Elev. 293.12

FIELD STUDY 1-6 March 1953
DRAWN 1-21 March 1953
CHECKED 1-10 Dec. 1953

Approved Recommended by [illegible] Bridge Engineer

[illegible] Civil Engineer

CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS

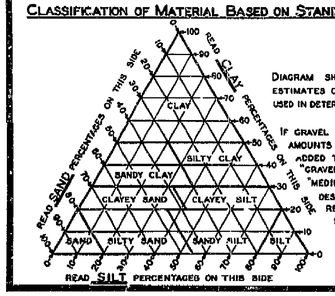


DIAGRAM SHOWING THE BASIS FOR ESTIMATES OF GRADE SIZE DISTRIBUTION USED IN DETERMINATION OF CLASS NAMES

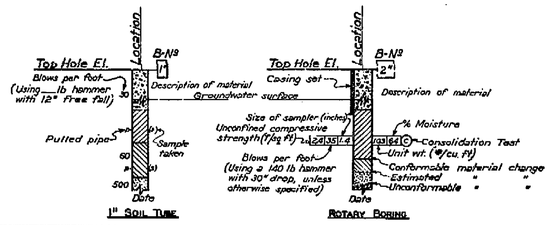
IF GRAVEL IS PRESENT IN APPRECIABLE AMOUNTS THE TERM "GRAVELLY" MAY BE ADDED TO THE CLASS NAME, VIS. "GRAVELLY SAND". THE TERMS "COARSE", "MEDIUM" AND "FINE" WHEN USED TO DESCRIBE GRAVEL, SAND AND SILT REFER TO STANDARD GRADE SIZE LIMITS.

LEGEND OF EARTH MATERIALS

- GRAVEL
- SAND
- SILT
- CLAY
- SANDY CLAY OR CLAYEY SAND
- SANDY SILT OR SILTY SAND
- SILTY CLAY OR CLAYEY SILT
- PEAT AND/OR ORGANIC CLAY
- FILLED MATERIAL
- IGNEOUS ROCK
- SEDIMENTARY ROCK
- METAMORPHIC ROCK

LEGEND OF BORING OPERATIONS

- PLAN OF ANY BORING
- PENETROMETER
- 2½" CONE PENETROMETER
- SAMPLER BORING (DRY)
- ROTARY BORING (WET)
- AUGER BORING (DRY)
- JET BORING
- CORE BORING
- TEST PIT



NOTES

THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 2, ARTICLE (c) OF THE STANDARD SPECIFICATIONS AND TO THE SPECIAL PROVISIONS ACCOMPANYING THIS SET OF PLANS. CLASSIFICATION OF EARTH MATERIAL AS SHOWN ON THIS SHEET IS BASED UPON FIELD INSPECTION AND IS NOT TO BE CONSTRUED TO IMPLY MECHANICAL ANALYSIS.

PENETROMETER BORINGS HAVING A RATE OF PENETRATION MEASURED IN SECONDS PER FOOT ARE DRIVEN WITH A № 2 McKIERNAN-TERRY AIR HAMMER AT 115 PSI.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

PACIFIC AVENUE OVERCROSSING

LOG OF TEST BORINGS

SCALE: 1" = 10' | BRIDGE 42-189 | FILE | DRAWING C-3509-Z

PREL. DRAWING NO. P-3509 | 15

AS BUILT PLANS
Contract No. 56-6TC1
Date Completed
Document No. 60000990

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 1-30-80 SIGNATURE Joseph M. Cota TITLE SUPERVISOR OF MICROFILM SERVICES

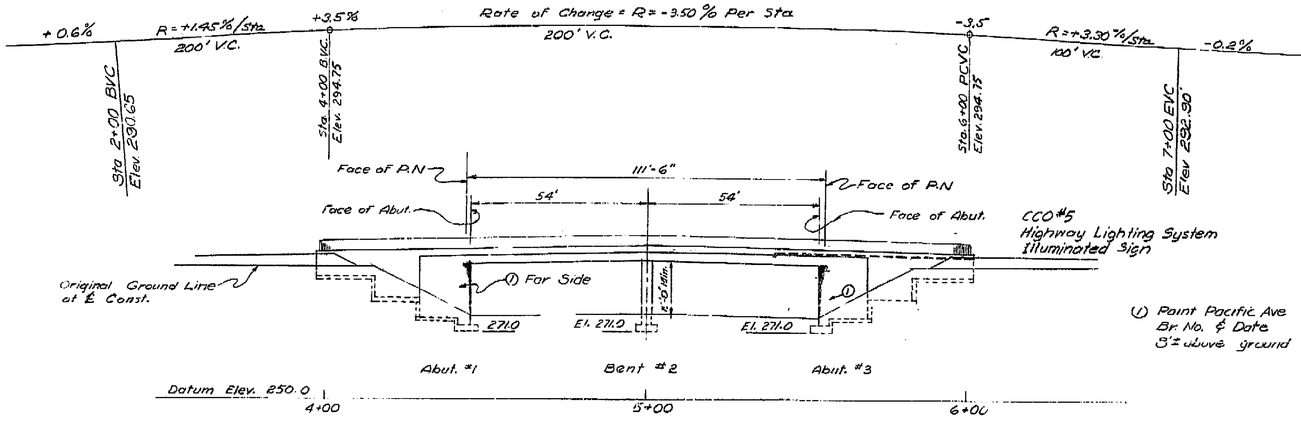
DAS-55-76

ClibPDF - www.fastio.com

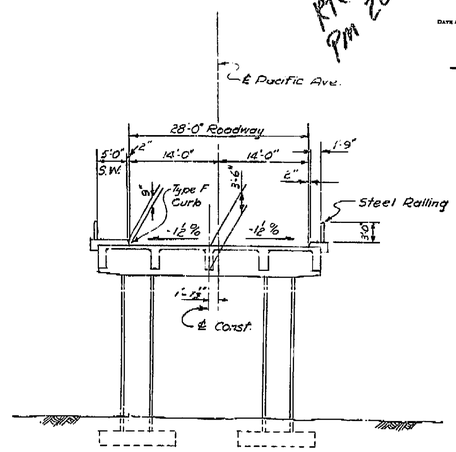
FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.	11-1198 (2)		115	162

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	99			

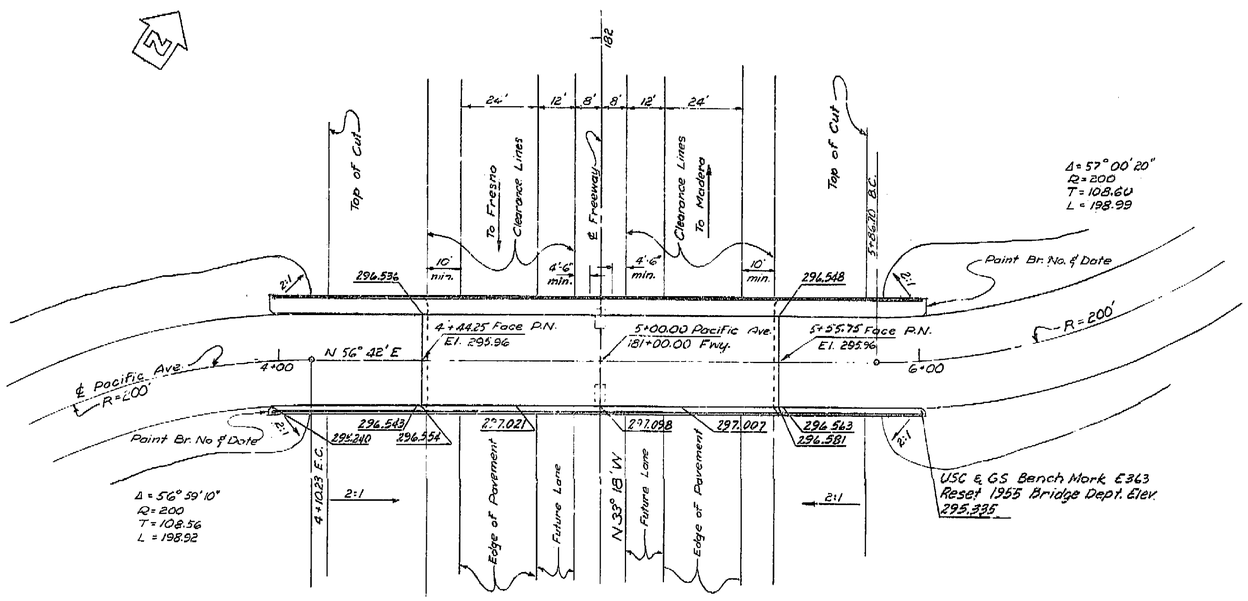
Rte 99
PM 22.4



ELEVATION
Scale: 1"=20'



TYPICAL SECTION
Scale: 1"=10'



PLAN
Scale: 1"=20'

INDEX TO PLANS

Sheet No.	Title
1.	General Plan
2.	Foundation Plan
3.	Abutments
4.	Bent
5.	Typical Section
6.	Girder Layout and Reinforcement
7.	Log of Test Borings

APPROXIMATE QUANTITIES

ROADWAY EXCAVATION	330 C.Y.
STRUCTURE EXCAVATION	670 C.Y.
STRUCTURE BACKFILL	450 C.Y.
CLASS A CONCRETE (BRIDGE)(634 C.Y.)	LUMP SUM
RUBBER WATERSTOPS	138 L.F.
BAR REINFORCING STEEL (BRIDGES)(93,000 LBS.)	LUMP SUM
MEMBRANE WATERPROOFING	22 S.Y.
STEEL RAILING	410 L.F.

Refer to "Tehama Street" O.C. for
Standard Details
Miscellaneous Details
Steel Railing
Type I Cantilever Retaining Walls

56-67C1

For General Notes see Tehama Street O.C.

BRIDGE DEPARTMENT

Submitted by	Date	Checked
DESIGN	3-26	Checked W.R.M. 7-26
DETAILS	3-26	Checked E.F.H. 7-26
QUANTITIES	3-26	Checked E.F.H. 7-26
SPECIFICATIONS	3-26	Checked D.S.D. 11-26
Approved Recommended for Approval	3-26	Chief Bridge Engineer Date 11-26-26

SECTION 7

AS BUILT
CORRECTIONS BY HOERCHNER
CONTRACT NO. 56-67C1
DATE 1-5-57 SY 7-79

DESIGN SECTION 7
PROJECT DESIGNER E. F. Hoerchner

Live Loading: H20-S16-44

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

PACIFIC AVENUE OVERCROSSING

LOCATED ABOUT 0.3 MILES SOUTH OF ROEDING PARK ALONG PACIFIC AVENUE

GENERAL PLAN

SCALE As Shown	BRIDGE 42-189	FILE	DRAWING C-3509-1

PREL. DRAWING NO. P-3509 | 8 | 8 | 9

AS BUILT PLANS
Contract No. 56-67C1
Date Completed
Document No. 60000990

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE ____ INITIATED ____ TITLE ____

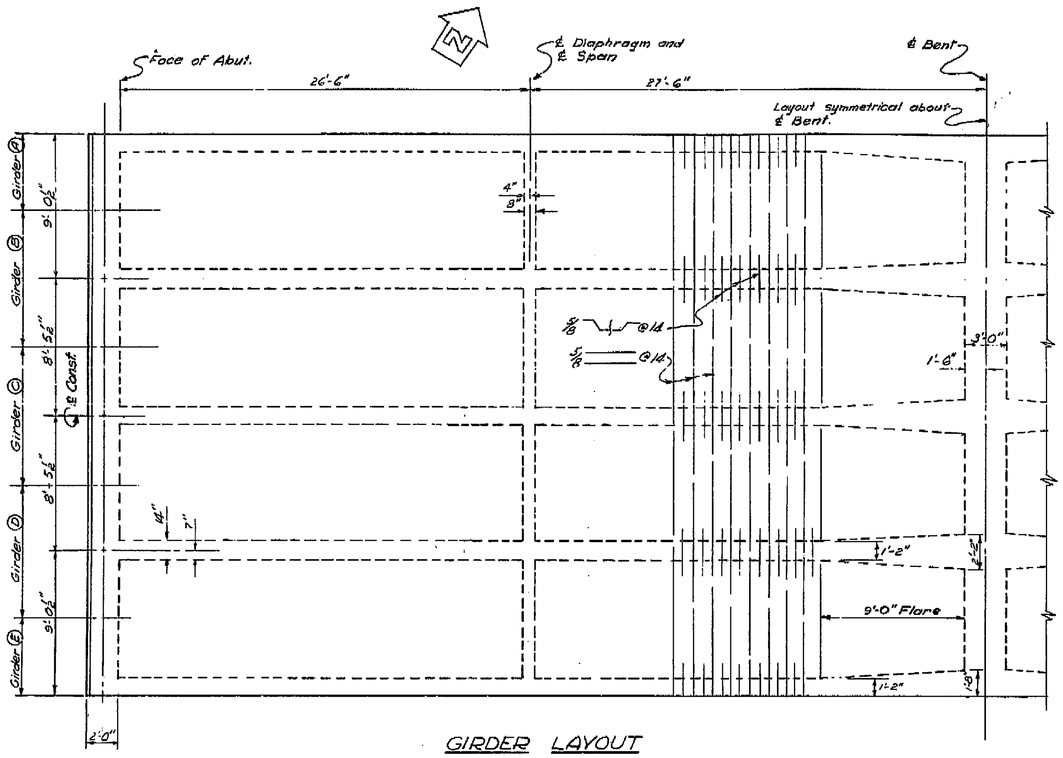
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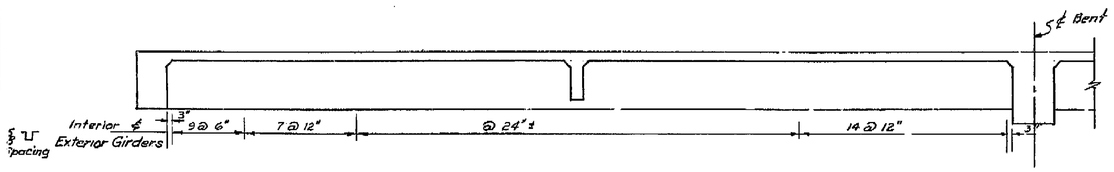
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre				

Rte 99
Pm 22.4

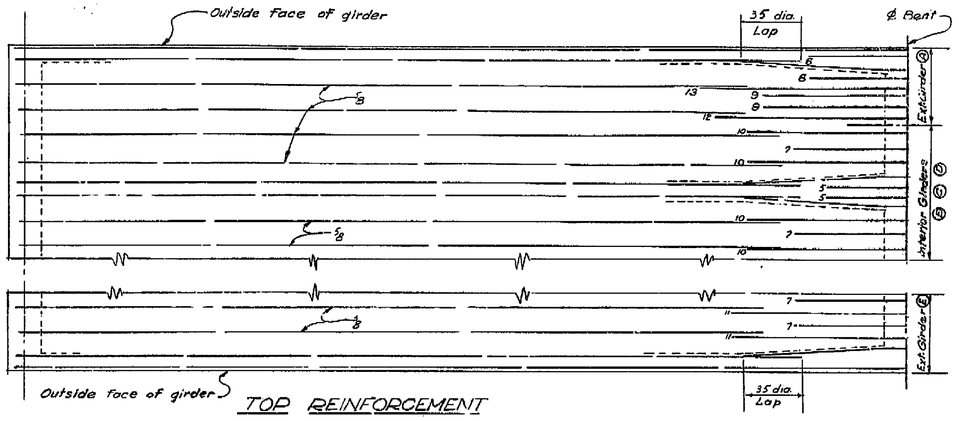
DATE APPROVED: February 28, 1955



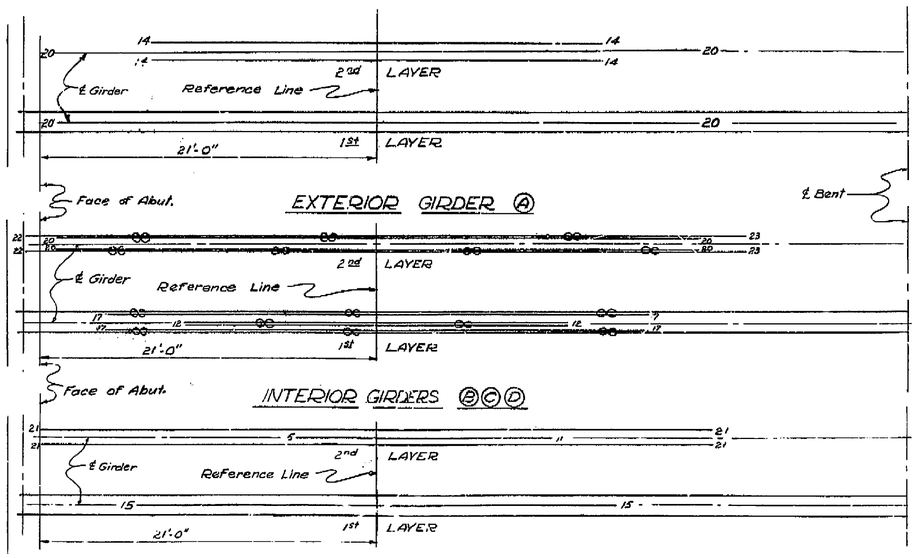
GIRDER LAYOUT

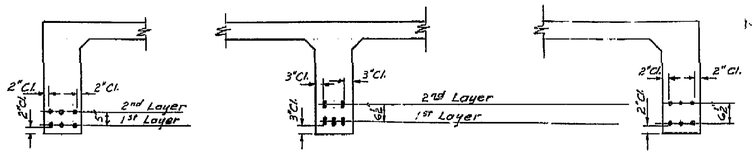


LONGITUDINAL SECTION



TOP REINFORCEMENT





SECTIONS
Scale: ½"=1'-0"

NO AS BUILT CHANGES

AS BUILT
CORRECTIONS BY HOERCHNER
CONTRACT NO. 56-6TC1
DATE 1-3-57 SY 7-79

PLAN OF BOTTOM REINF.
For exact location see "Sections", this sheet.

Notes: All bars are ½ unless otherwise noted.
Numbers at ends of bars indicate length from ℄ Bent or from Reference Line.
Bundled bars are shown thus ⊂⊂.

DESIGN SECTION 7
PROJECT DESIGNER

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

PACIFIC AVENUE OVERCROSSING

GIRDER LAYOUT AND REINFORCEMENT

SCALE ½"=1'-0" except as noted | BRIDGE 42-189 | FILE | DRAWING C-3509-6

PREL. DRAWING NO. P-3509 X X 16

DESIGN 7 SECTION

Submitted by		Chief Engineer			
DESIGN	By DJ	Date 3-56	Chkd	By WRM	Date 7-56
DETAILS	By DJ	Date 3-56	Chkd	By WRM	Date 7-56
QUANTITIES	By DJ	Date 3-56	Chkd	By WRM	Date 7-56
SPECIFICATIONS	By DJ	Date 3-56	Chkd	By WRM	Date 7-56

Approved Recommended for Approval: [illegible] Date approved as to plans and specifications: 4/16/56
Director of Public Works

AS BUILT PLANS
Contract No. 56-6TC1
Date Completed
Document No. 60000990

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 1-30-80 SIGNATURE Joseph M Cota TITLE SUPERVISOR OF MICROFILM SERVICES

BRIDGE DEPARTMENT

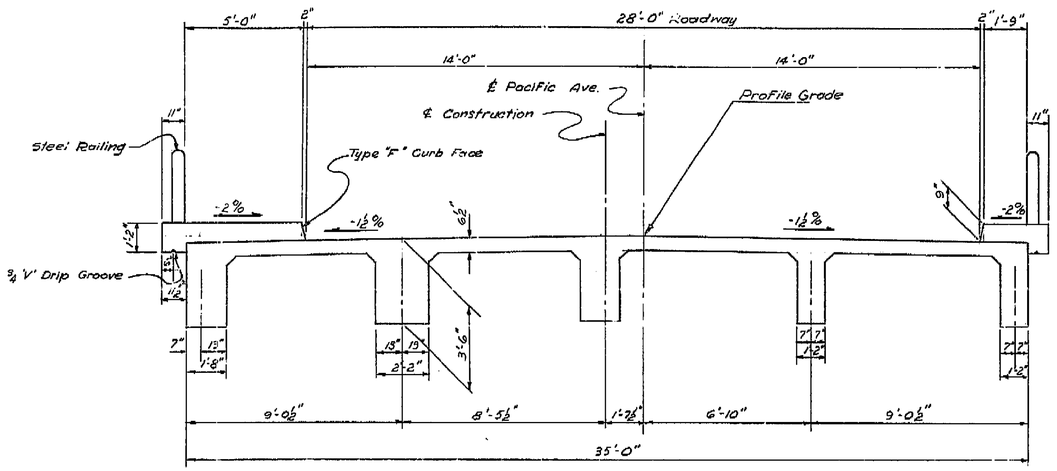
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DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre				

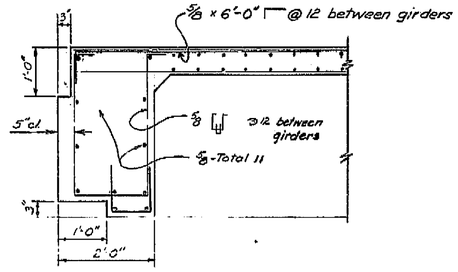
Rte. 99
PM 22.6

DATE APPROVED February 28, 1935

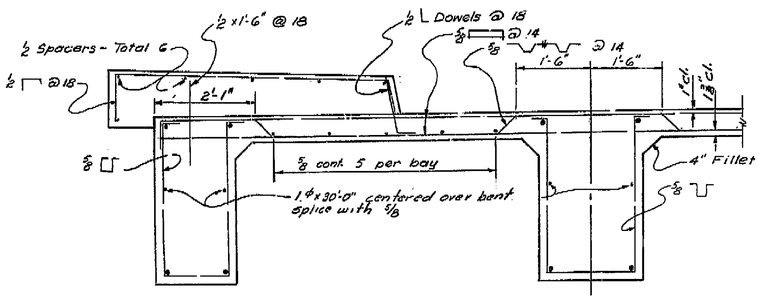


NEAR BENT NEAR MIDSPAN

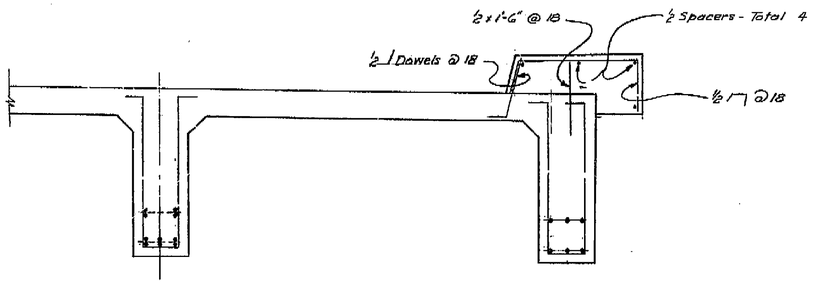
TYPICAL SECTION
Scale: ⅜" = 1'-0"



END DIAPHRAGM
Scale: ¾" = 1'-0"



NEAR BENT



NEAR MIDSPAN

PART SECTION
Scale: ¾" = 1'-0"

Note: For reinforcing not shown
See "Girder Reinforcement."

Adopted by	Date
DESIGN	3-24 Decker
DETAILS	3-24 Decker
QUANTITIES	3-24 Decker
SPECIFICATIONS	Jr.
Approval Recommended	Chief of Bridge Section

Checked by [illegible] Date 1-3-57
Checked by [illegible] Date 1-3-57
Checked by [illegible] Date 1-3-57

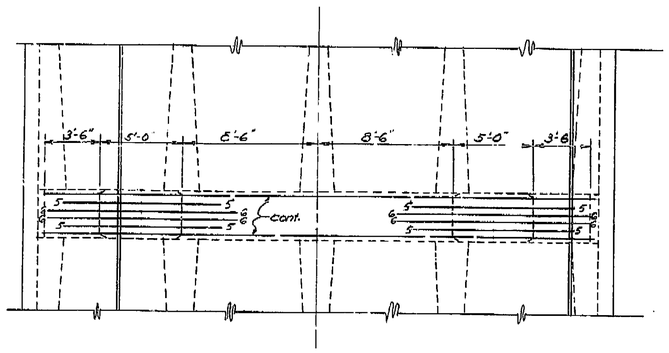
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7	CAL.	0-51194 (2)		118	162

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	Fre				

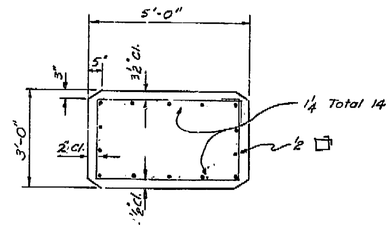
Rte 99
PM 22.4

DATE APPROVED February 20, 1955

BRIDGE DEPARTMENT

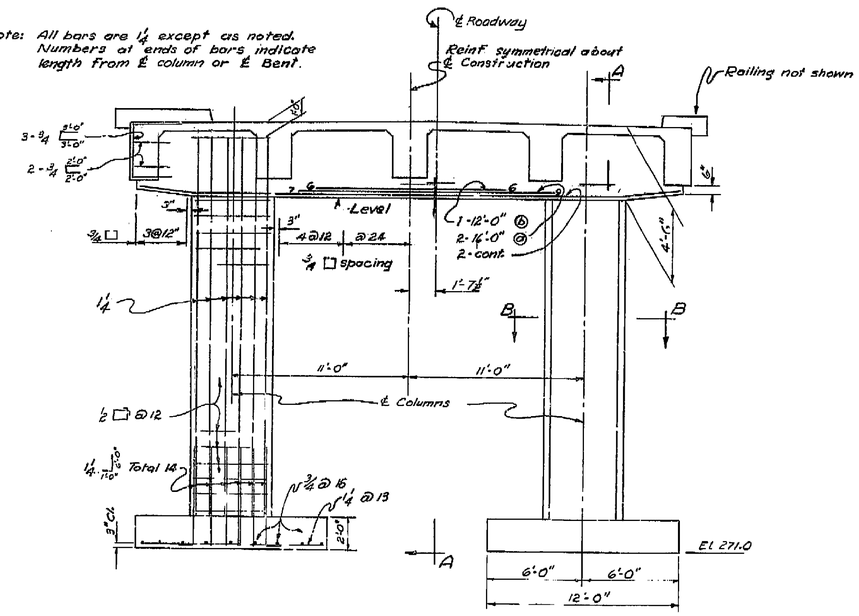


TOP REINFORCEMENT PLAN

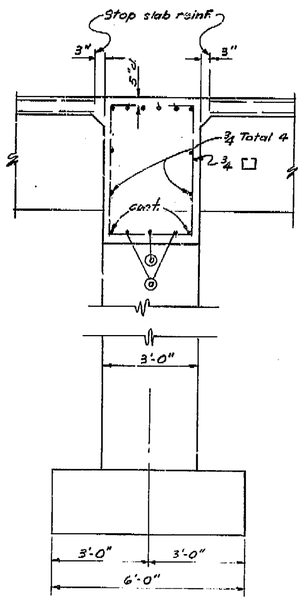


SECTION B-B
Scale: ½"=1'-0"

Note: All bars are 1¼ except as noted. Numbers at ends of bars indicate length from ℄ column or ℄ Bent.



ELEVATION



SECTION A-A
Scale: ½"=1'-0"

NO AS BUILT CHANGES
AS BUILT
CORRECTIONS BY HOERCHNER
CONTRACT NO. 56-67C1
DATE 1-3-57 SY 7-79

SECTION

Submitted by		Date	
DESIGN	By BEF 3-54	Check	WRM 7-54
DETAILS	By DJ 4-54	Check	WRM 7-54
QUANTITIES	By CJG 8-54	Check	EF 8-54
SPECIFICATIONS	By	Check	
Approved Recommended for Approval		Plan Holder(s) Dated	1-3-57

AS BUILT PLANS
Contract No. 56-67C1
Date Completed
Document No. 60000990

DESIGN SECTION 7
PROJECT DESIGNER E. F. Sugarek

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

PACIFIC AVENUE OVERCROSSING

BENT

SCALE	BRIDGE	FILE	DRAWING
¼"=1'-0" except as noted	42-189		C-3509-4

PREL. DRAWING No. P-3509 56 12

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 1-30-80 SIGNATURE Joseph M Costa TITLE SUPERVISOR OF MICROFILM SERVICES

DAS-28-76

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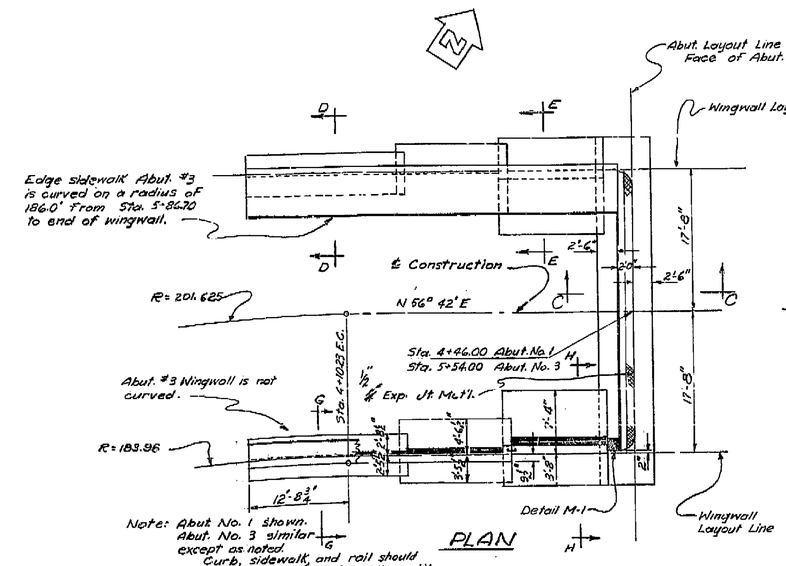
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VII	Fre				

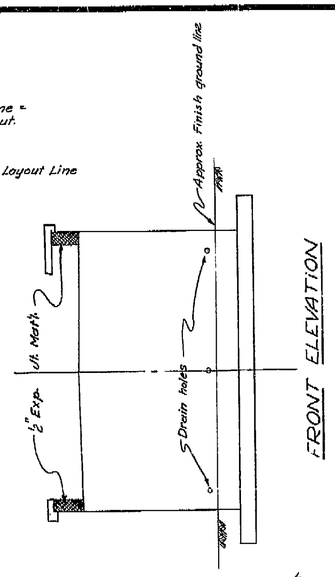
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PM 22.4

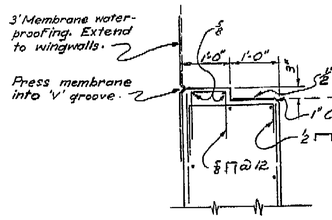
STATE ENGINEER — CIVIL ENGINEER — CHIEF ENGR.

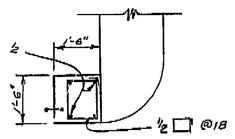
DATE APPROVED: February 28, 1955

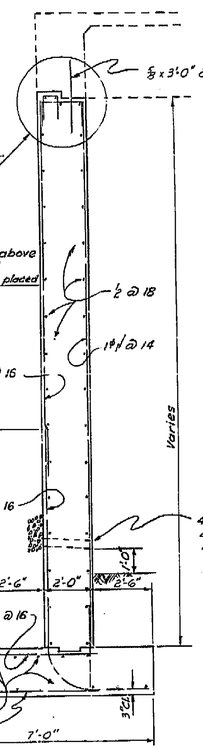
BRIDGE DEPARTMENT

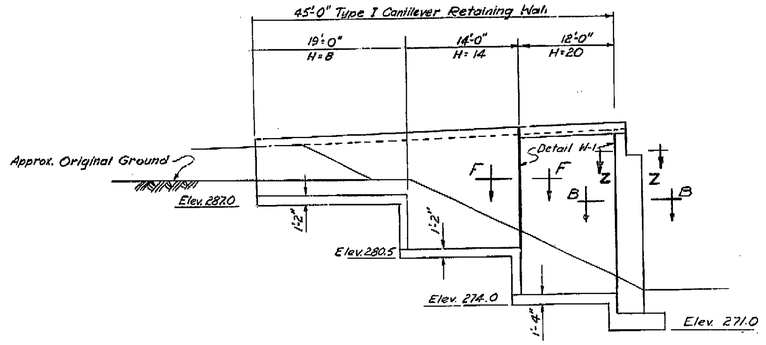


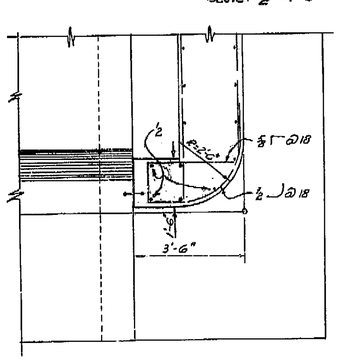


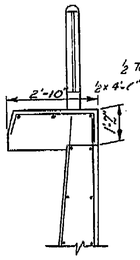


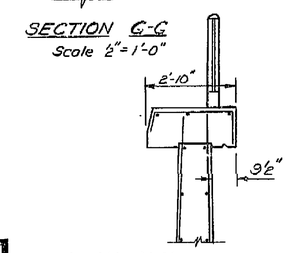












AS BUILT

CORRECTIONS BY Hoerchner
CONTRACT NO. 56-67C1
DATE 1-3-57 SY 7-71

See Belmont Ave O.C. for: Sections D-D, E-E & F-F
See Tehama St. O.C. for Type 1 Cantilever Ret. Wall Sheet.

AS BUILT PLANS
Contract No. 56-67C1
Date Completed
Document No. 60000990

DESIGN SECTION 7
PROJECT DESIGNER

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

PACIFIC AVENUE OVERCROSSING

ABUTMENTS

SCALE:	BRIDGE	FILE	DRAWING
1/2"=1'-0" Except as noted	42-189		C-3509-3

PREL. DRAWING No. P-3509 X 11

Submitted by: [illegible] Date 4-5-54
DESIGN — Checked W.R.M. 7-54
DETAILS — Checked W.E.M. 7-54
QUANTITIES — Checked E.F.B. 8-54
SPECIFICATIONS — Checked [illegible]
Approved Recommended [illegible] Bridge Engineer
Bridge No. 35-264

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.
DATE 1-30-80 SIGNATURE Joseph M Costa TITLE SUPERVISOR OF MICROFILM SERVICES
DA-845-78

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MICROFILMED BY DEPARTMENT OF TRANSPORTATION MICROFILM — SCALE 1:50 — MICROFILMED BY STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM — SCALE 1:200

California Department of Transportation
Division of Maintenance

Structure Maintenance and Investigations

BRIDGE

INSPECTION

RECORDS

INFORMATION

SYSTEM

The requested documents have been generated by BIRIS.

These documents are the property of the California Department of Transportation and should be handled in accordance with Deputy Directive 55 and the State Administrative Manual.

Records for “Confidential” bridges may only be released outside the Department of Transportation upon execution of a confidentiality agreement.

CONTRACT NO. 06-0C4104
TRANSFER DATE: 12-21-2007
FIELD CORRECTION DATE: 11-15-2007
CORRECTIONS TRANSFERED BY: REM
FIELD CORRECTIONS BY: Victor Diaz

AS BUILT CORRECTIONS

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	19.0/39.3	10R1	11

Matthew W. Lee 11/20/06
REGISTERED CIVIL ENGINEER

2-26-07
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MATTHEW W. LEE — No. C 56698 — Exp. 6-30-07 — CIVIL — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

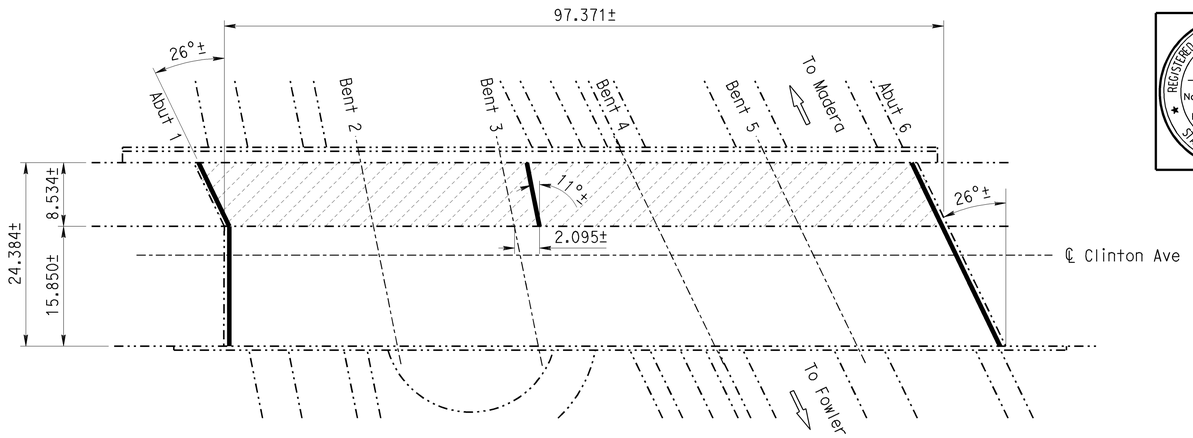
To get to the Caltrans web site, go to: http://www.dot.ca.gov

REGISTERED PROFESSIONAL ENGINEER — MICHAEL J LEE — No. C42447 — Exp. 3-31-08 — CIVIL — STATE OF CALIFORNIA

MARK	DATE	REVISION(S) DESCRIPTIONS	DES	CHK	DET
3	8-08-07	CHANGE SHEET NUMBERS	MJL	TP	DK
2	8-08-07	CHANGED NAME GENERAL PLAN NO. 1	MJL	TP	DK
1	8-08-07	ADDED SUPPLEMENTAL SHEET	MJL	TP	DK

REGISTERED CIVIL ENGINEER: Michael J. Lee DATE: 9-07-07

CONTRACT CHANGE ORDER NO. ____
SHEET ___ OF ___



STANDARD PLANS DATED JULY 2004

SHEET No.	TITLE
A10A	ACRONYMS AND ABBREVIATIONS (A-L)
A10B	ACRONYMS AND ABBREVIATIONS (M-Z)
RSP B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 50 mm)

INDEX TO PLANS

SHEET No.	TITLE
1	GENERAL PLAN NO. 1
2	GENERAL PLAN NO. 2
3	JOINT SEAL TABLE

NOTES: (APPLY TO ALL SHEETS)

Indicates existing.

THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

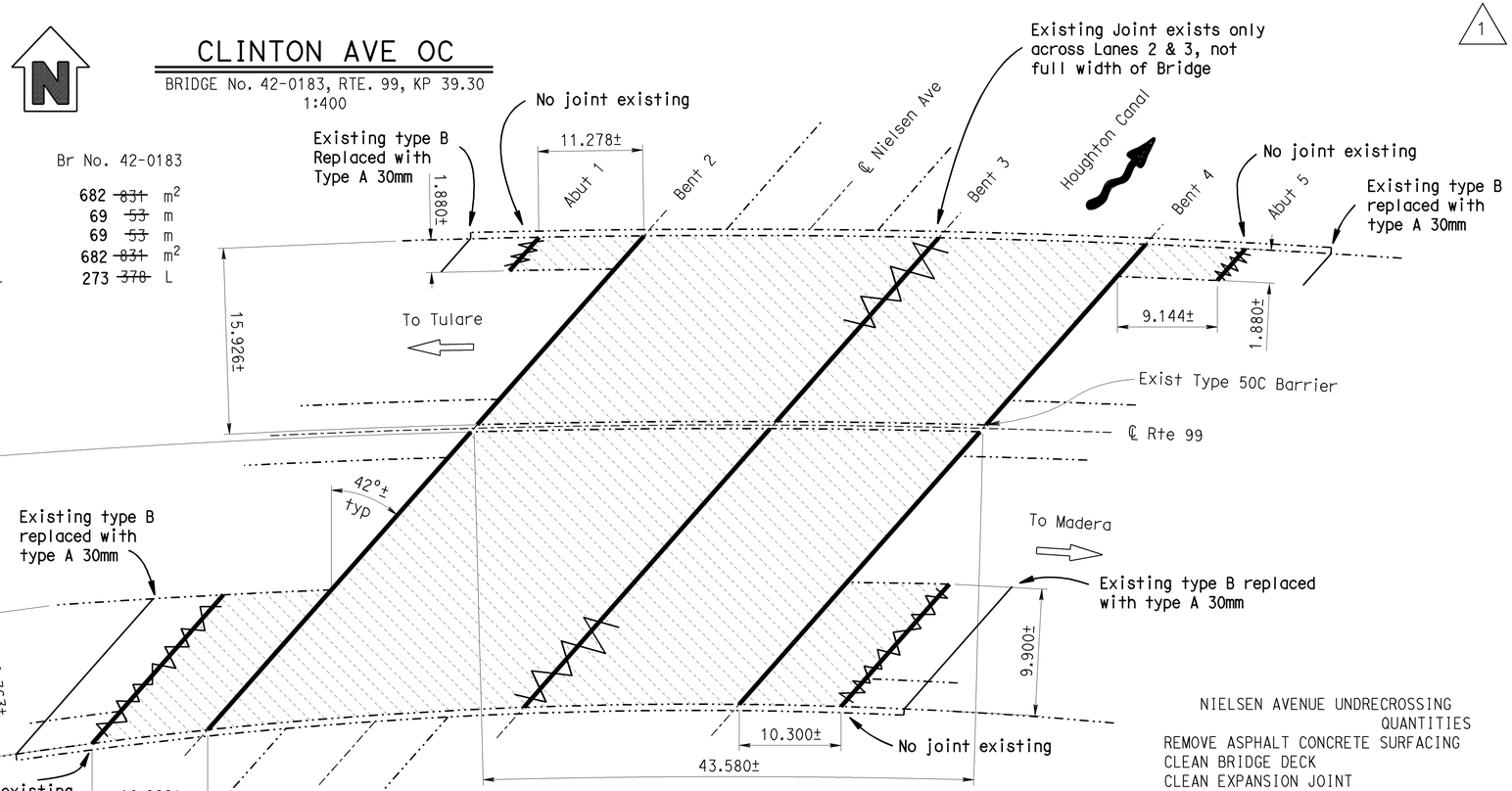
Indicates limits of clean and treat deck with high molecular weight methacrylate.

Indicates limits of remove existing 25mm± thick AC overlay, clean and treat deck with high molecular weight methacrylate.

Indicates limits of existing joint seal removal and placement of new joint seal.

CLINTON AVE OC

BRIDGE No. 42-0183, RTE. 99, KP 39.30
1:400



CLINTON AVENUE OVERCROSSING QUANTITIES	Br No. 42-0183	
CLEAN BRIDGE DECK	682 ~~831~~	m^2
CLEAN EXPANSION JOINT	69 ~~53~~	m
JOINT SEAL (MR 40 MM)	69 ~~53~~	m
TREAT BRIDGE DECK	682 ~~831~~	m^2
FURNISH BRIDGE DECK TREATMENT MATERIAL	273 ~~378~~	L

NIELSEN AVE UC

BRIDGE No. 42-0188, ROUTE 99, KP 35.63
1:250

NIELSEN AVENUE UNDRECROSSING QUANTITIES	Br No. 42-0188	
REMOVE ASPHALT CONCRETE SURFACING	2 123	m^2
CLEAN BRIDGE DECK	2 123	m^2
CLEAN EXPANSION JOINT	129 ~~207~~	m
JOINT SEAL (MR 30 mm)	129 ~~172~~	m
not used ~~JOINT SEAL (MR 15 mm)~~	37	m
TREAT BRIDGE DECK	2 123	m^2
FURNISH BRIDGE DECK TREATMENT MATERIAL	908 ~~965~~	L

Caltrans Metric	Michael J. Lee DESIGN ENGINEER — STRUCTURE MAINTENANCE DESIGN GENERAL PLAN & DETAIL SHEET (METRIC) (REV. 10/2/05)	DESIGN	BY Matt Lee	CHECKED Tim Powell	
		DETAILS	BY Seth Evans	CHECKED Tim Powell	
		QUANTITIES	BY Matt Lee	CHECKED Tim Powell	
		LAYOUT	BY Seth Evans	CHECKED Matt Lee	
		SPECIFICATIONS	BY Karla Meier	PLANS AND SPECS COMPARED Karla Meier	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

CU 06244
EA 0C4101

BRIDGE NO. Varies
KILOMETER POST Various

ROUTE 99 BRIDGES (TREAT DECK)
GENERAL PLAN NO. 1

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): ~~4-11-06~~ ~~9-27-06~~ 12-7-06

SHEET 1 OF 3

USERNAME => bmiller DATE PLOTTED => 21-DEC-2007 TIME PLOTTED => 09:59
FILE => 06-0c4101_01gp1.dgn

ClibPDF - www.fastio.com

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	19.0/39.3	10S	11

8-07-07
REGISTERED CIVIL ENGINEER

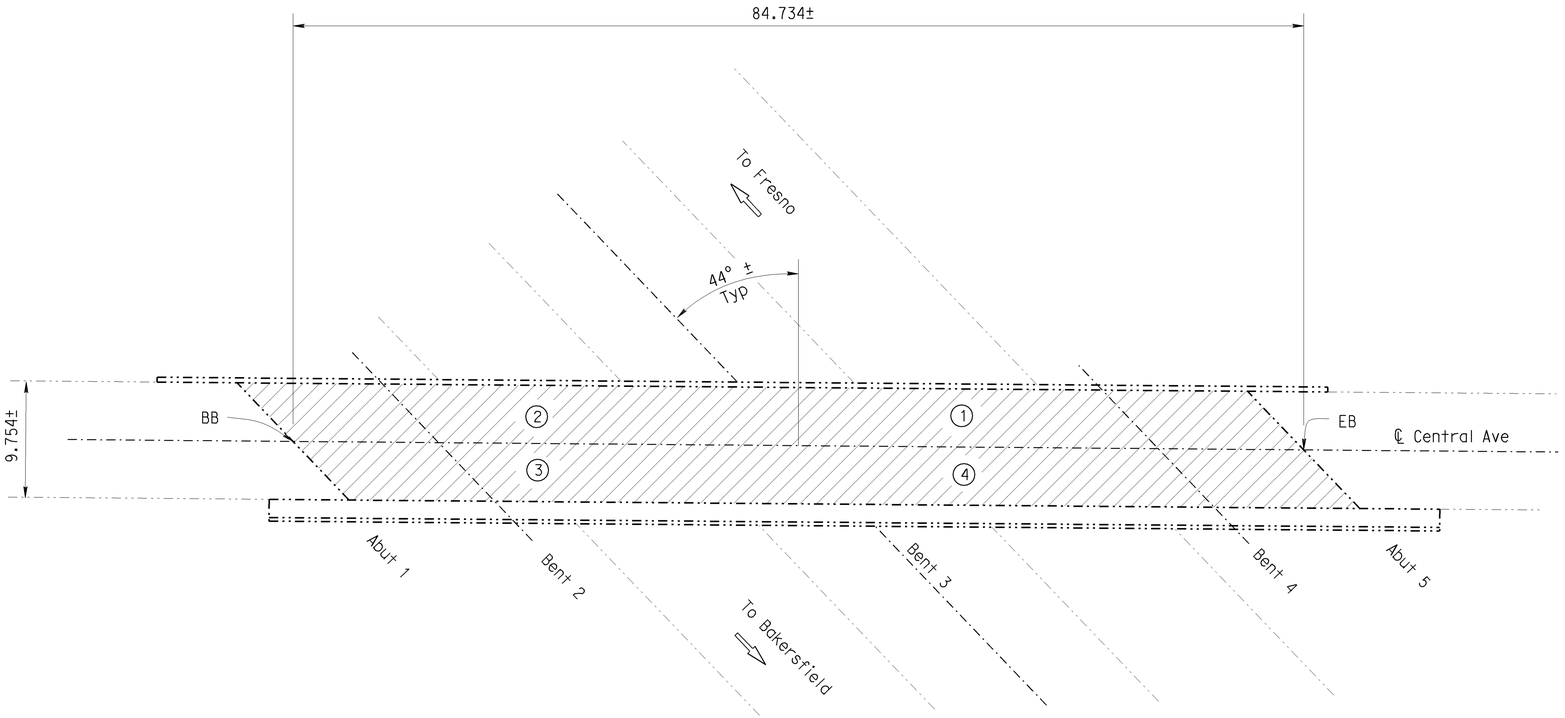
REGISTERED PROFESSIONAL ENGINEER
MATTHEW W. LEE
No. C 56698
Exp. 6-30-07
CIVIL
STATE OF CALIFORNIA

PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

The Caltrans web site is at www.dot.ca.gov

AS BUILT CORRECTIONS
CORRECTIONS TRANSFERED BY: BEM
FIELD CORRECTIONS BY: Victor Diaz
TRANSFER DATE: 12-21-2007
FIELD CORRECTION DATE: 11-15-2007
CONTRACT NO: 06-0C4104



CENTRAL AVENUE OVERCROSSING

BRIDGE NO. 42-0207, RTE. 99, KP 25.52
1:250

NOTES: (APPLY TO THIS SHEET ONLY)

Indicates limits of clean and treat existing bridge deck as designated in the "DECK TREATMENT TABLE".

Contractor shall take 3 ea 76 mm ø x 127 mm deep cores in each quardrant at locations designated by the Engineer. Fill cored holes with rapid-set concrete patch.

DECK TREATMENT TABLE

LOCATION	MANUFACTURER	MATERIAL NAME
①	UNITEX	BRIDGE SEAL CA
②	LIQUID CONCRETE	URE-KOTE R-60
③	ChemCo Systems	CCS Coating, Epoxy Healer Sealer
④	Any Manufacturer that meets the Caltrans Deck Treatment specification	Caltrans specification High Molecular Weight Methacrylate

CONTRACT CHANGE ORDER NO. 4
SHEET 1 OF 1

SUPPLEMENTAL SHEET

Caltrans Metric

Michael J. Lee
DESIGN ENGINEER
STRUCTURE MAINTENANCE DESIGN GENERAL PLAN & DETAIL SHEET (METRIC) (REV. 10/2/05)

DESIGN	BY Matt Lee	CHECKED Tim Powell
DETAILS	BY D. kish	CHECKED Tim Powell
QUANTITIES	BY Matt Lee	CHECKED Tim Powell
LAYOUT	BY D. kish	CHECKED Matt Lee
SPECIFICATIONS	BY Karla Meier	PLANS AND SPECS COMPARED Karla Meier

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

CU 06244
EA 0C4101

BRIDGE NO. Varies
KILOMETER POST Various

ROUTE 99 BRIDGES (TREAT DECK)
GENERAL PLAN NO. 2

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 8-07-07

SHEET 2 OF 3

FILE => 06-0c4101_02gp2.dgn

USERNAME => bmiller DATE PLOTTED => 21-DEC-2007 TIME PLOTTED => 09:59

ClibPDF - www.fastio.com

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	19.0/39.3	11R1	11

REGISTERED CIVIL ENGINEER — 11/20/06

2-26-07
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MATTHEW W. LEE — No. C 56698 — Exp. 6-30-07 — CIVIL — STATE OF CALIFORNIA

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To get to the Caltrans web site, go to: http://www.dot.ca.gov

CONTRACT NO: 06-0C4104
TRANSFER DATE: 12-21-2007
FIELD CORRECTION DATE: 11-13-2007
CORRECTIONS TRANSFERED BY: BEM
FIELD CORRECTIONS BY: Victor Diaz

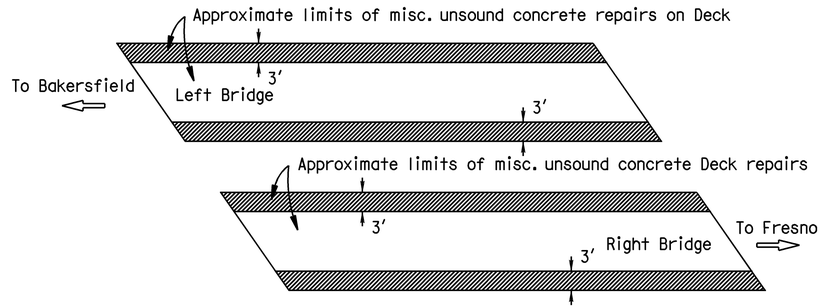
AS BUILT CORRECTIONS

DECK RESURFACING WORK DESCRIPTION

QUANTITIES

ROUTE	KP	BRIDGE NAME	BRIDGE NUMBER	LENGTH	ROADWAY WIDTH	SHOULDER WIDTH		WORK REQUIRED			CLEAN BRIDGE DECK	TREAT BRIDGE DECK	FURNISH BRIDGE DECK TREATMENT MATERIAL (LOW ODOR)	REMOVE EPOXY GRIT SURFACING
						LEFT	RIGHT	REPLACE JOINT SEALS	REMOVE OVERLAY	CLEAN AND TREAT BRIDGE DECK WITH METHACRYLATE				
				(m)	(m)	(m)	(m)				(m^2)	(m^2)	(L)	(m^2)
99	19.05	Adams Ave OC	42 0203	99.092	9.754	1.219	1.219	YES	NO	~~YES~~ YES	936 ~~966~~	936 ~~966~~	414 ~~435~~	N/A
99	25.52	Central Ave OC	42 0207	84.734	9.756	1.219	1.219	NO	NO	YES	826	826	376	N/A
99	26.63	South Calwa OH	42 0208L	78.029	14.935	2.438	1.524	YES	YES	YES	1165	1165	~~530~~ 531	1165
99	26.63	South Calwa OH	42 0208R	66.446	14.935	2.438	1.524	YES	YES	YES	992	992	~~451~~ 450	992
99	35.61	Clinton Ave OC	42 0183	See General Plan				YES	NO	YES		See General Plan		
99	39.30	Nielsen Ave UC	42 0188	See General Plan				YES	YES	YES		See General Plan		

1 → As per CCO # 3

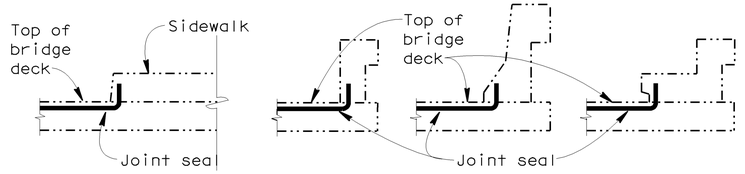


SOUTH CALWA OH

BR 42-0208L/R
NO SCALE

JOINT SEAL TABLE

BRIDGE NUMBER	LOCATION		MINIMUM "MR" (mm)	APPROXIMATE LENGTH (m)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (mm)
42 0203	Abut 1	BW	40	13.1	NO	229
	Abut 5	BW	40	13.1	NO	229
42 0208L	Abut 1	PN	30	21.7	NO	305
	Abut 5	PN	30	21.7	NO	305
42 0208R	Abut 1	PN	30	21.7	NO	305
	Abut 4	PN	30	21.7	NO	305
42 0183	Abut 1	BW	40	25.7	NO	229
	Span 3	H	40	8.8	NO	229
	Abut 3	BW	40	27.5	NO	229
42 0188	Abut 1	BW	15	~~17.9~~ 0	NO	356
	Bent 2	BW	30	56.8	NO	~~1219~~ 305
	Bent 3	B	30	~~56.8~~ 19.4	YES	203
	Bent 4	BW	30	56.8	NO	~~1219~~ 305
	Abut 5	BW	15	~~18.6~~ 0	NO	~~396~~ 305

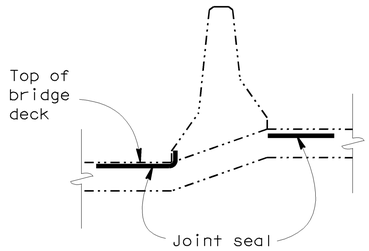


SIDEWALK — BARRIER RAIL

JOINT SEAL AT LOW SIDE OF DECK

Notes: Details shown for illustration purposes only.

For use only where deck joint matches the sidewalk, curb or barrier rail joint.



At Bridge No. 42-0188

LEGEND:
BW = Abutment backwall
PN = Paving notch
H = Hinge
B = Bent

REGISTERED PROFESSIONAL ENGINEER — MICHAEL J LEE — No. C42447 — Exp. 3-31-08 — CIVIL — STATE OF CALIFORNIA

MARK	DATE	REVISION(S) DESCRIPTIONS	DES	CHK	DET
1	8-23-07	CHANGE QUANTITIES ADAM AVE TABLE	MJL	TP	DK

REGISTERED CIVIL ENGINEER: Michael J Lee — DATE: 9-07-07

Caltrans Metric

	BY	CHECKED
DESIGN	Matt Lee	Tim Powell
DETAILS	Seth Evans	Tim Powell
QUANTITIES	Matt Lee	Tim Powell

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

CU 06244
EA 0C4101

BRIDGE NO. Varies
KILOMETER POST Various

ROUTE 99 BRIDGES (TREAT DECK)

JOINT SEAL TABLE

STRUCTURE MAINTENANCE DESIGN
GENERAL PLAN & DETAIL SHEET
(METRIC) (REV. 10/2/05)

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): ~~4-11-06~~ ~~9-27-06~~ 12-7-06

SHEET 3 OF 3

FILE => 06-0c4101_03gp3.dgn

USERNAME => bmiller DATE PLOTTED => 21-DEC-2007 TIME PLOTTED => 10:38

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DIST.	COUNTY	ROUTE	POST MILES - TOTAL PROJECT	Sheet No.	Total Sheets
06	Fre	180,99	R56.2/R58.4,21.4/22.3	340	635

ENGINEERING GEOLOGY BRANCH - TRANSPORTATION MATERIALS & RESEARCH

R.C. Wilhelms 1-20-92
CERTIFIED ENGINEERING GEOLOGIST — PLANS APPROVAL DATE

NIELSEN AVE UC (WIDEN)

LOG OF TEST BORINGS 2 OF 3

NOTE: THIS LOG OF TEST BORINGS IS AVAILABLE ON MICROFILM AT OFFICE OF STRUCTURES DESIGN SACRAMENTO, CALIFORNIA

CU: 06200 EA: 342931 — BRIDGE No. 42-188R

REGISTERED GEOLOGIST — R.C. WILHELMS — No. 560 — Exp. 6-30-92 — CERTIFIED ENGINEERING GEOLOGIST — STATE OF CALIFORNIA

NO CORRECTIONS THIS SHEET

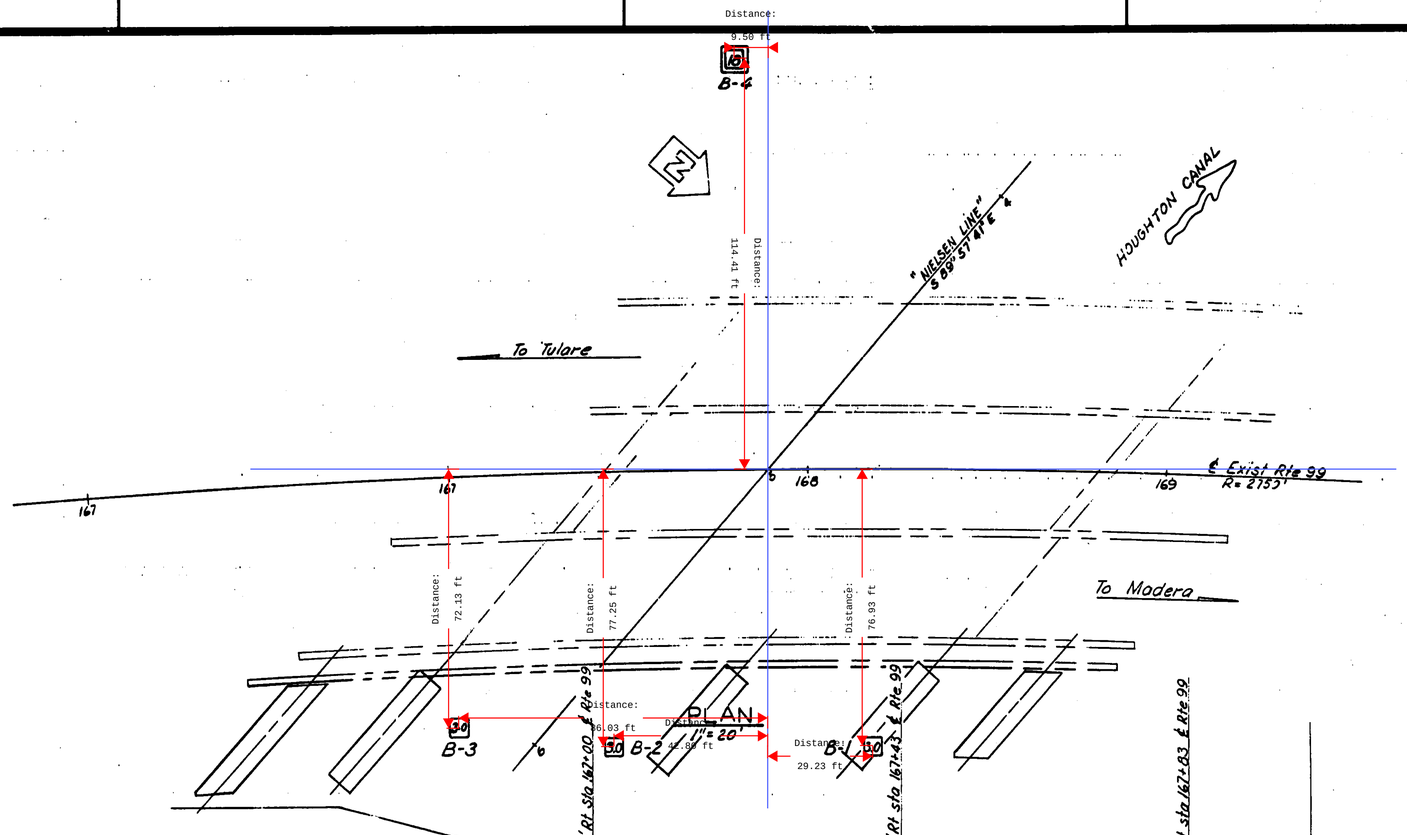
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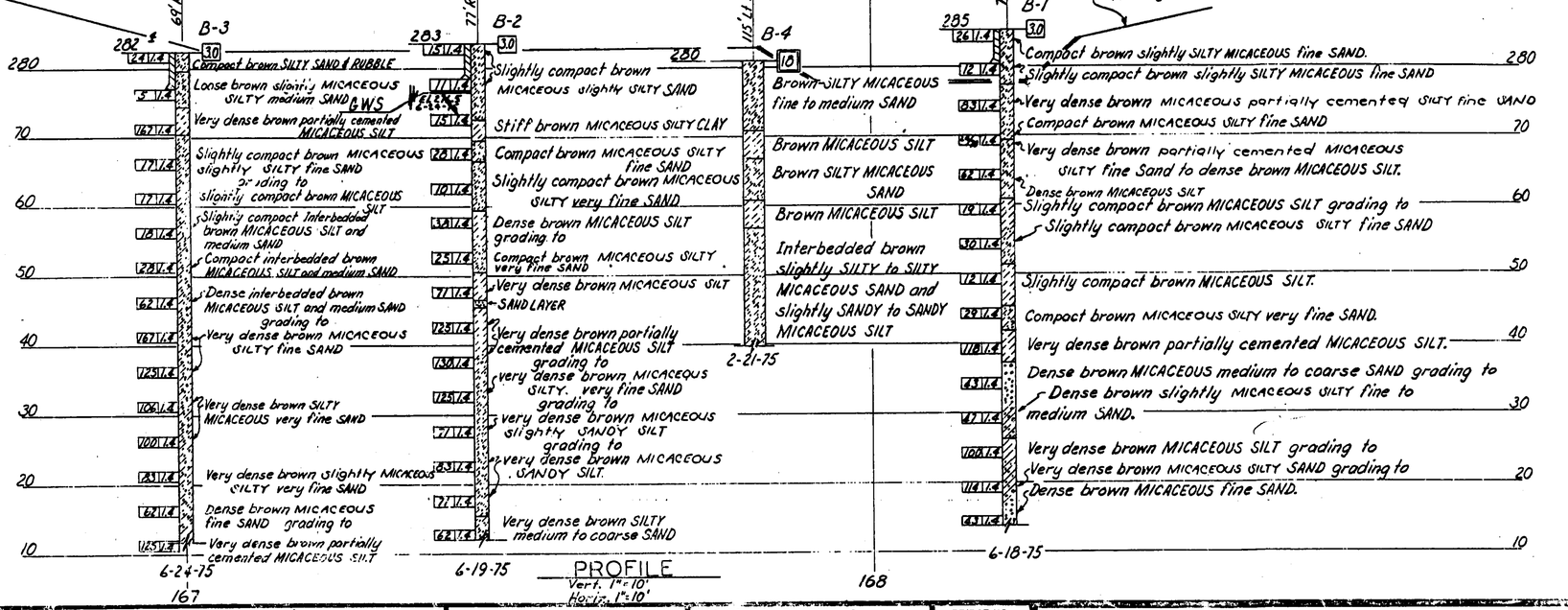
CORRECTIONS BY Thor Larsen

CONTRACT NO. 06-025724

DATE 10-5-95

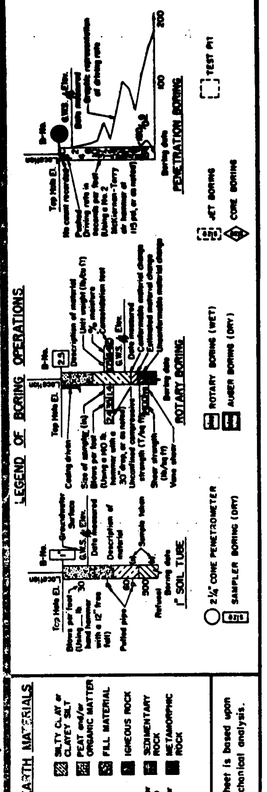
WAR 5-28-96





Bench Mark
Fd chis ☐ on pier 37'Lt
Rte 99 ℄ 168+50± Elev 285.30

LEGEND OF BORING OPERATIONS



LEGEND OF EARTH MATERIALS

GRAVEL; SAND; SILT; CLAY; SILTY CLAY or CLAYEY SILT; SANDY CLAY or CLAYEY SAND; SANDY SILT or SILTY SAND; SILTY CLAY or CLAYEY SILT and/or ORGANIC MATTER; FILL MATERIAL; IGNEOUS ROCK; SEDIMENTARY ROCK; METAMORPHIC ROCK

CONSISTENCY CLASSIFICATION FOR SOILS

According to the Standard Penetration Test

Penetration (Blows/Ft)	Granular	Cohesive
0-5	Very loose	Very soft
5-10	Loose	Soft
10-20	Slightly compact	Stiff
20-35	Compact	Very stiff
35-70	Dense	Hard
70	Very dense	Very hard

NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

UNIFIED SOIL CLASSIFICATION SYSTEM

Group Symbol	Typical Name	Major Divisions
GW	Well-graded gravels, gravel-sand mixtures, little or no fines	Clean gravels (Little or no fines) — Gravels
GP	Poorly graded gravels, gravel-sand mixtures, little or no fines	
GM	Silty gravels, poorly graded gravel-sand-silt mixtures	Gravels with fines (Appreciable amount of fines)
GC	Clayey gravels, poorly graded gravel-sand-clay mixtures	
SW	Well-graded sands, gravelly sands, little or no fines	Clean sands (Little or no fines) — Sands
SP	Poorly graded sands, gravelly sands, little or no fines	
SM	Silty sands, sand-silt mixtures	Sands with fines (Appreciable amount of fines) — Coarse-grained Soils
SC	Clayey sands, sand-clay mixtures	
ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity	Silts and Clays (Liquid limit less than 50) — Fine-grained Soils
CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays	
OL	Organic silts and organic silty clays of low plasticity	
MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts	Silts and Clays (Liquid limit greater than 50)
CH	Inorganic clays of high plasticity, fat clays	
OH	Organic clays of medium to high plasticity, organic silts	
Pt	Peat and other highly organic soils	Highly Organic Soils

ENGINEERING GEOLOGY SECTION

FIELD STUDY	By	
DRAWN	By BANKS 10-75	Approval Recommended By
CHECKED	By 1-76	ENGINEERING GEOLOGIST — CERTIFIED ENGINEERING GEOLOGIST NUMBER 78

State of CALIFORNIA DEPARTMENT OF TRANSPORTATION

OFFICE OF STRUCTURES DESIGN GROUP 9

BRIDGE NO. 42-188 R/L

POST MILE 22.1

NIELSEN AVENUE UNDERCROSSING

LOG OF TEST BORINGS 1 OF 2

CU 06200 WO 025721

Disregard prints bearing earlier revision dates →

REVISION DATES (PRELIMINARY STAGE ONLY) 7/14/95

SHEET 17 OF 18

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DN-05 0166

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FED R./AID DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2	CAL.	[illegible]		114	162

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
06	Fre	180	Frac	44	114

[illegible] 5525
CIVIL ENGINEER—LICENSE
APPROVED February 28, 1955

AS BUILT
CORRECTIONS BY _____
CONTRACT NO. _____
DATE _____

DIST.	COUNTY	ROUTE	POST MILES - TOTAL PROJECT	Sheet No.	Total Sheets
06	Fre	180, 99	R56.2/R58.4,21.4/22.3	341	635

ENGINEERING GEOLOGY BRANCH - TRANSPORTATION MATERIALS & RESEARCH

R. C. Wilhelms — 1-20-92
CERTIFIED ENGINEERING GEOLOGIST — PLANS APPROVAL DATE

NIELSEN AVE UC (WIDEN)

LOG OF TEST BORINGS 3 OF 3

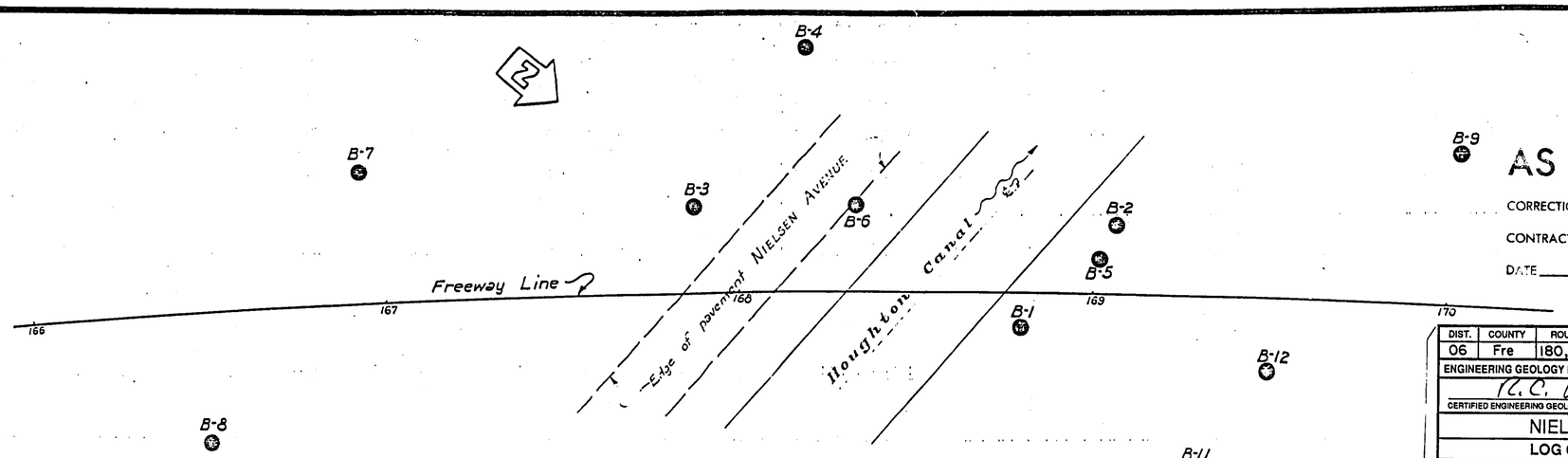
NOTE: THIS LOG OF TEST BORINGS IS AVAILABLE ON MICROFILM AT OFFICE OF STRUCTURES DESIGN SACRAMENTO, CALIFORNIA

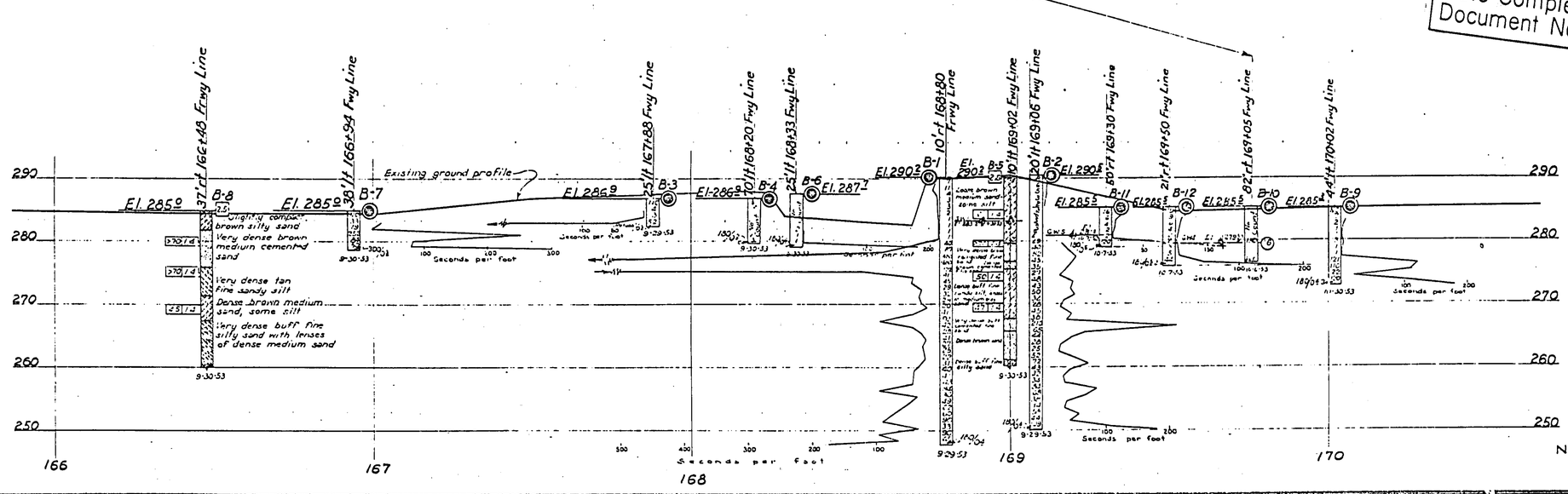
CU: 08200
EA: 342931

BRIDGE No. 42-188R

REGISTERED GEOLOGIST — R.C. WILHELMS — No. 560 — Exp. 6-30-92 — CERTIFIED ENGINEERING GEOLOGIST — STATE OF CALIFORNIA

AS BUILT PLANS
Contract No. 56-6TC1
Date Completed _____
Document No. 60000990





B M
1" iron pipe located approximately 76' ft Sta 7+60 ½ section line - S 69°33'04" W
Elev 288.91

NO CORRECTIONS THIS SHEET
AS BUILT
CORRECTIONS BY Thor Larsen
CONTRACT NO. 06-025724
DATE 10-5-95
WAR 5-28-96

Note: Groundwater measured in B-5, B-10 & B-11 is seepage from Houghton Canal

No groundwater was encountered during drilling operations.

AS BUILT
NO CORRECTIONS BY [illegible]
DATE 1-11-57

CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS

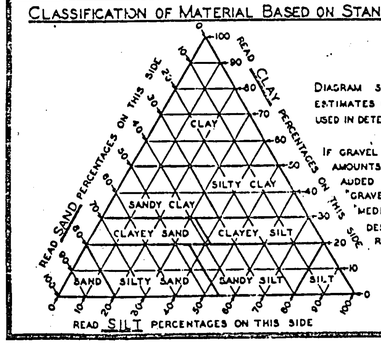


DIAGRAM SHOWING THE BASIS FOR ESTIMATES OF GRADE SIZE DISTRIBUTION USED IN DETERMINATION OF CLASS NAMES

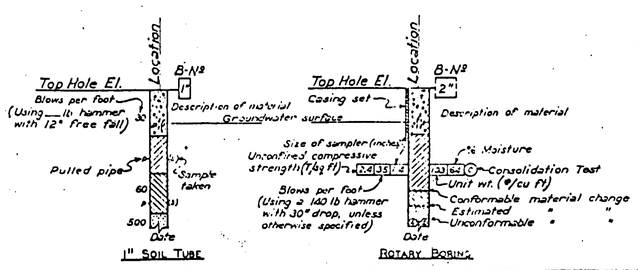
IF GRAVEL IS PRESENT IN APPRECIABLE AMOUNTS THE TERM "GRAVELLY" MAY BE ADDED TO THE CLASS NAME, VIZ. "GRAVELLY SAND". THE TERMS "COARSE", "MEDIUM" AND "FINE" WHEN USED TO DESCRIBE GRAVEL, SAND AND SILT REFER TO STANDARD GRADE SIZE LIMITS.

LEGEND OF EARTH MATERIALS

- GRAVEL
- SAND
- SILT
- CLAY
- SANDY CLAY OR CLAYEY SAND
- SANDY SILT OR SILTY SAND
- SILTY CLAY OR CLAYEY SILT
- PEAT AND/OR ORGANIC CLAY
- FILLED MATERIAL
- IGNEOUS ROCK
- SEDIMENTARY ROCK
- METAMORPHIC ROCK

LEGEND OF BORING OPERATIONS

- PLAN OF ANY BORING
- PENETROMETER
- 2½" CONE PENETROMETER
- SAMPLER BORING (DRY)
- ROTARY BORING (WET)
- AUGER BORING (DRY)
- JET BORING
- CORE BORING
- TEST PIT



NOTES

THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 2, ARTICLE (c) OF THE STANDARD SPECIFICATIONS AND TO THE SPECIAL PROVISIONS ACCOMPANYING THIS SET OF PLANS.

CLASSIFICATION OF EARTH MATERIAL AS SHOWN ON THIS SHEET IS BASED UPON FIELD INSPECTION AND IS NOT TO BE CONSTRUED TO IMPLY MECHANICAL ANALYSIS.

PENETROMETER BORINGS HAVING A RATE OF PENETRATION MEASURED IN SECONDS PER FOOT ARE DRIVEN WITH A № 2 McKIERNAN-TERRY AIR HAMMER AT 115 PSI.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

NIELSEN AVENUE UNDERCROSSING

LOG OF TEST BORINGS

SCALE: HORIZ. 1" = 20' VERT. 1" = 10'	BRIDGE 42-188	FILE E-42	DRAWING 2-3508-14

[illegible] No. B-3508 [illegible]

SHEET 18 OF 18

10 STATE PRINTING OFFICE

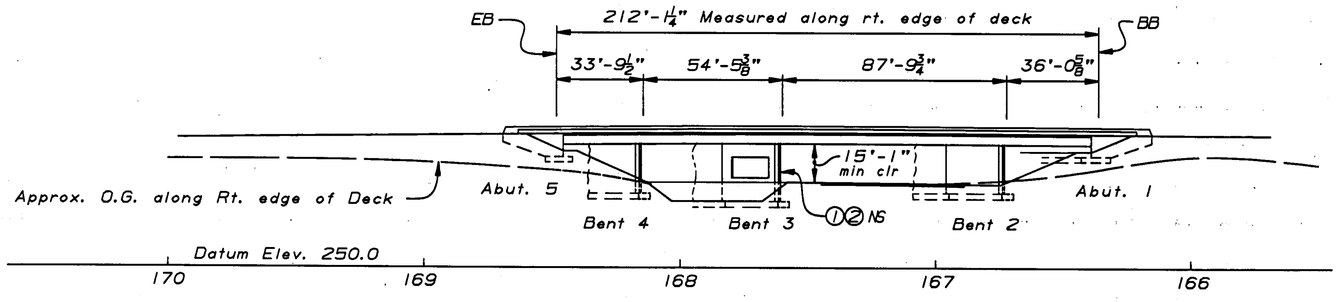
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	180, 99	R56.2/R58.4, 21.4/22.3	324	635

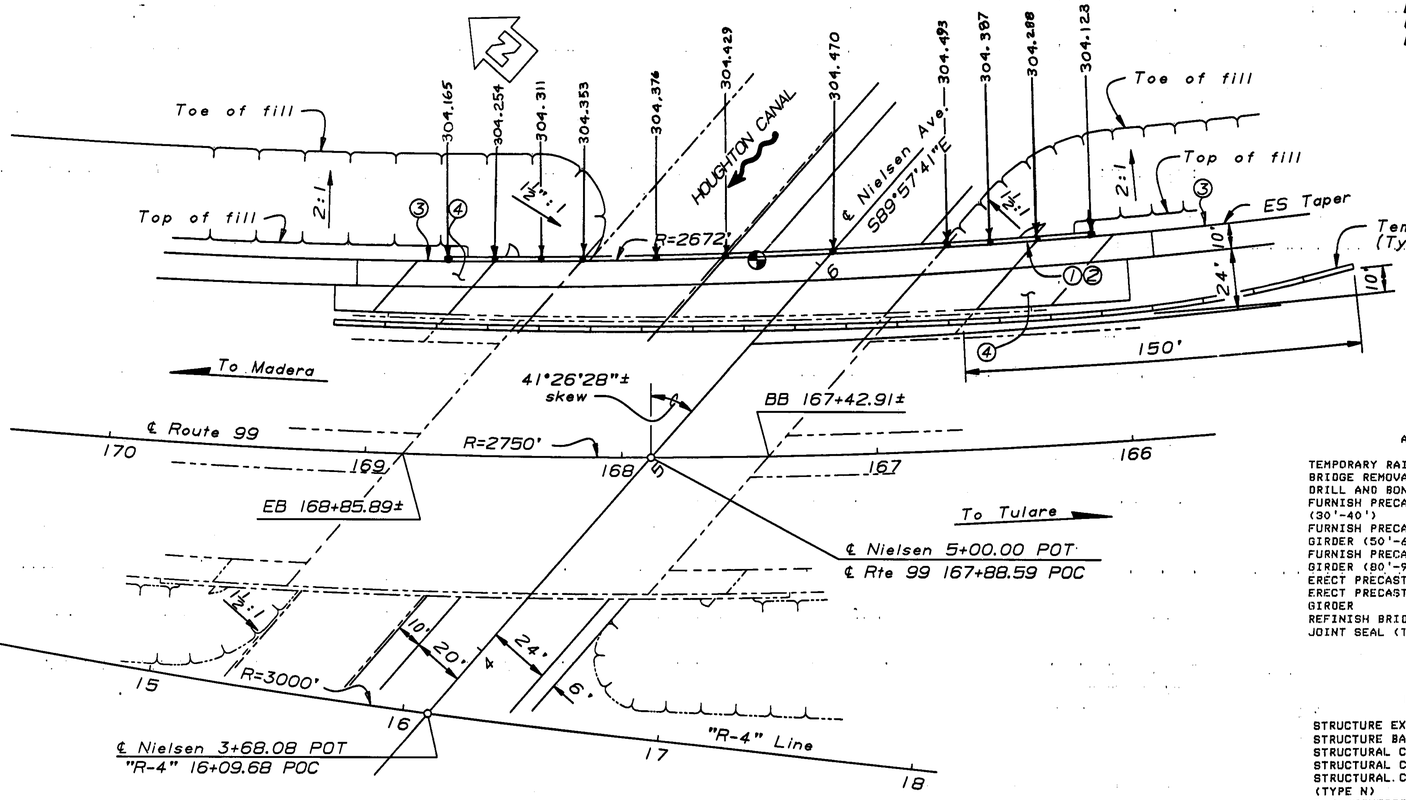
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — G. Joe — No. 056652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

1-20-92
PLANS APPROVAL DATE



MIRROR ELEVATION
1"=30'



PLAN
1"=30'

Rte 99

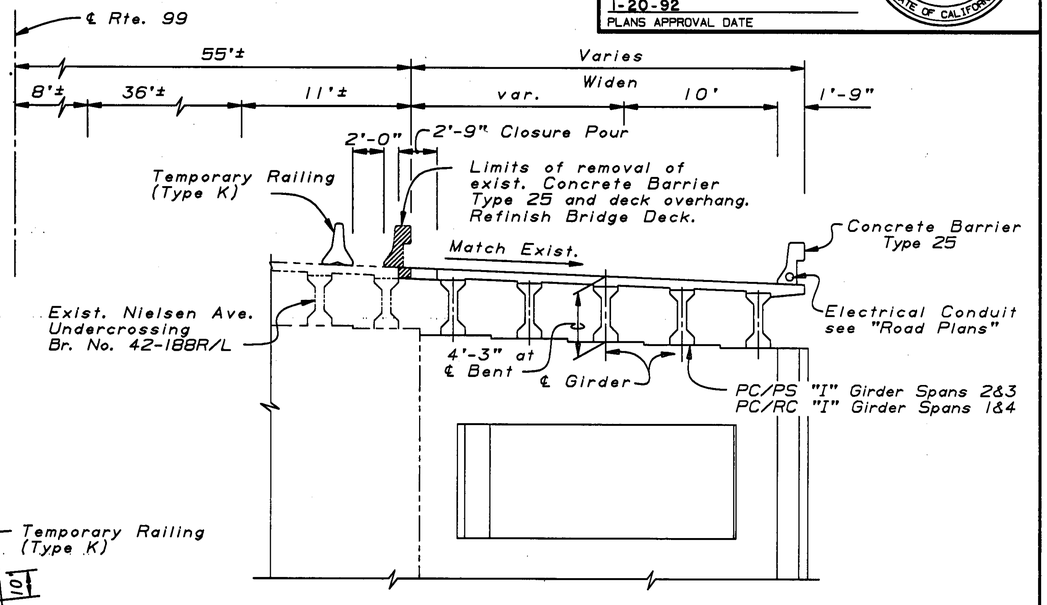
℄ 99	ES Taper
R=2750'	R=2672'
Δ =34°04'00"	Δ =15°37'15"
T=842.509'	T=366.515'
L=1635.083'	L=728.485'

Notes:

1. Paint "Br. No. 42-188R"
2. Paint "Nielsen Ave. Undercrossing"
3. MBGR, see "Road Plans"
4. Structure Approach Type N(45)
5. Point of minimum vertical clearance

——— Denotes existing structure

For General Notes see "Foundation Plan"



TYPICAL SECTION
1"=5'

AS BUILT

PROJECT ENGINEER Thor Larsen

CONTRACT NO. 06-025724

BEGIN CONSTR. 10-5-95

COMPLETED WAR 10-5-96

APPROXIMATE QUANTITIES

TEMPORARY RAILING (TYPE K)	960	LF
BRIDGE REMOVAL (PORTION), LOCATION A	LUMP	SUM
DRILL AND BOND DOWEL	118	LF
FURNISH PRECAST CONCRETE GIRDER (30'-40')	10	EA
FURNISH PRECAST PRESTRESSED CONCRETE GIRDER (50'-60')	5	EA
FURNISH PRECAST PRESTRESSED CONCRETE GIRDER (80'-90')	5	EA
ERECT PRECAST CONCRETE GIRDER	10	EA
ERECT PRECAST PRESTRESSED CONCRETE GIRDER	10	EA
REFINISH BRIDGE DECK	143	SQFT
JOINT SEAL (TYPE B-MR 1")	65	LF

FINAL PAY QUANTITIES

STRUCTURE EXCAVATION (BRIDGE)	385	CY
STRUCTURE BACKFILL (BRIDGE)	255	CY
STRUCTURAL CONCRETE, BRIDGE FOOTING	109	CY
STRUCTURAL CONCRETE, BRIDGE	420	CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N)	105	CY
BAR REINFORCING STEEL (BRIDGE)	97,900	LB
MISCELLANEOUS METAL (RESTRAINER)	220	LB
CONCRETE BARRIER (TYPE 25)	256	LF

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

INDEX TO PLANS

SHEET NO.	TITLE
1.	GENERAL PLAN
2.	FOUNDATION PLAN
3.	ABUTMENTS
4.	BENTS 2 & 4
5.	BENT 3
6.	TYPICAL SECTION
7.	GIRDER LAYOUT
8.	GIRDER DETAILS (BENTS 2 & 4)
9.	GIRDER DETAILS (BENT 3)
10.	REINFORCED CONCRETE I GIRDER
11.	PRESTRESSED CONCRETE I GIRDER
12.	RESTRAINER DETAILS
13.	STRUCTURE APPROACH TYPE N(45) DETAILS NO. 1
14.	STRUCTURE APPRAOCH TYPE N(45) DETAILS NO. 2
15.	STRUCTURE APPROACH DRAINAGE DETAILS
16.	LOG OF TEST BORINGS 1 OF 3
17.	LOG OF TEST BORINGS 2 OF 3
18.	LOG OF TEST BORINGS 3 OF 3

STANDARD PLANS DATED JANUARY 1988

A62-C	EXCAVATION AND BACKFILL BRIDGE LIMITS OF PAYMENT
B0-1	BRIDGE DETAILS
B0-5	BRIDGE DETAILS
B0-13	BRIDGE DETAILS
B6-21	JOINT SEALS
B11-30	TEMPORARY RAILING (TYPE K)
B11-53	CONCRETE BARRIER TYPE 25

Standard Plan Sheet No. / Detail No.

J. M. Stoli 9-91
DESIGN ENGINEER

DESIGN	BY M. Whiteside 1-90	CHECKED M. Van De Pol 1-90	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
DETAILS	BY D.A. SANDERSON 1-90	CHECKED M. Van De Pol 1-90	LAYOUT	BY M. Van De Pol 1-90	CHECKED M. Whiteside 1-90
QUANTITIES	BY Norbert Gee 7-91	CHECKED Tom Ruckman 7-91	SPECIFICATIONS	BY	PLANS AND SPECS COMPARED

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
DIVISION OF STRUCTURES
STRUCTURE DESIGN 9

CU 06200
EA 025721

BRIDGE NO. 42-188R
POST MILE 22.1

NIELSEN AVE. UNDERCROSSING (WIDEN)
GENERAL PLAN

DS OSD 2138 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 9-4-91 | 9-12-91 | 9-18-91 | 4-1-91 | 6-18-91 | 6-27-91 | 7-17-91 | 7-28-91

SHEET 1 OF 18

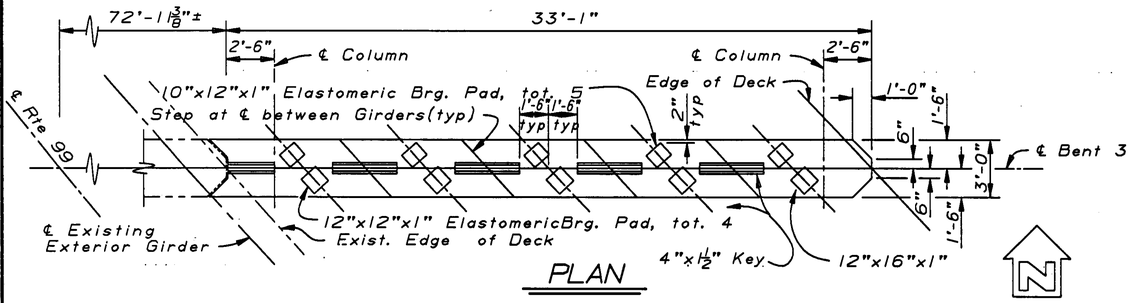
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	180, 99	R56.2/R58.4, 21.4/22.3	328	635

REGISTERED ENGINEER - CIVIL

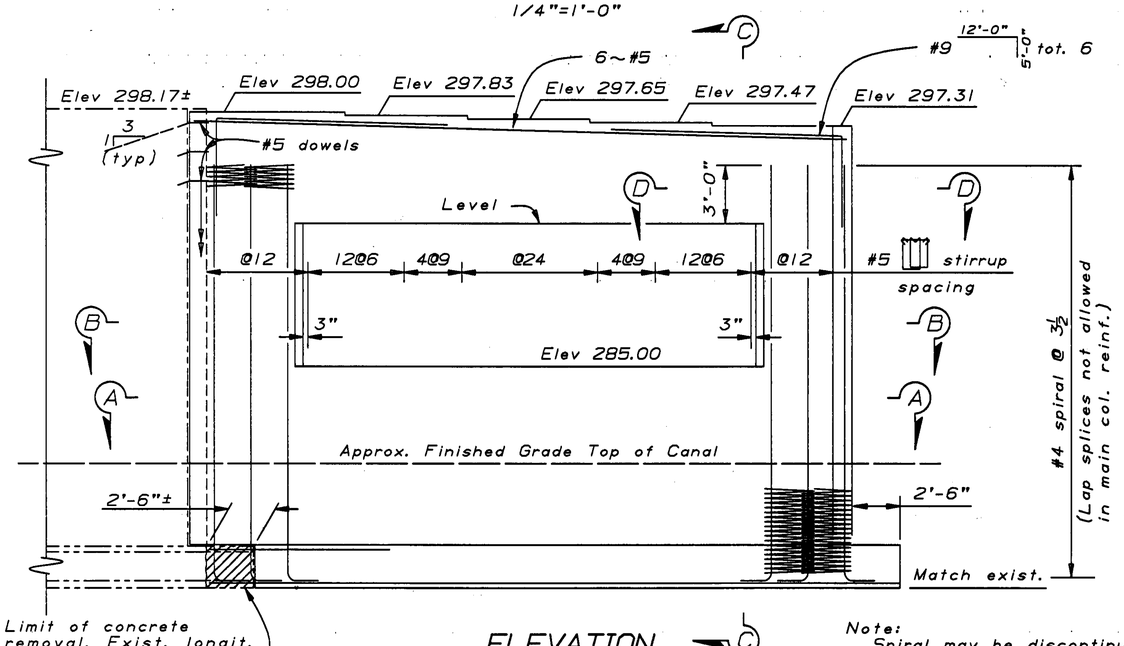
REGISTERED PROFESSIONAL ENGINEER — G. Joe — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

1-20-92
PLANS APPROVAL DATE



PLAN

1/4"=1'-0"

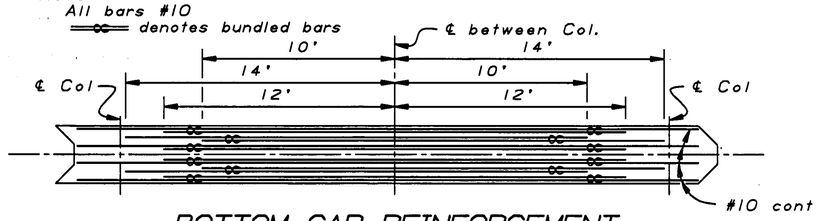


ELEVATION

1/4"=1'-0"

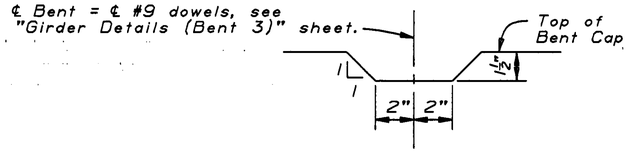
Note:
Spiral may be discontinuous at bent cap to allow for placing cap reinforcement.

Note:
All bars #10
denotes bundled bars



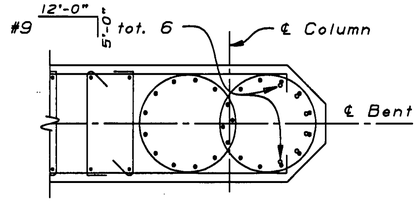
BOTTOM CAP REINFORCEMENT

1/4"=1'-0"



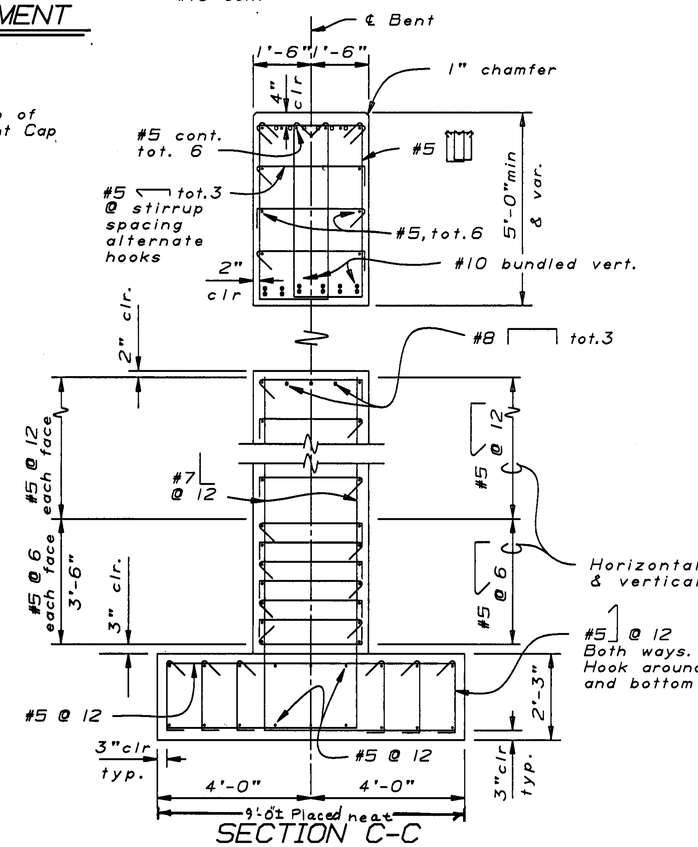
KEY DETAIL

3"=1'-0"



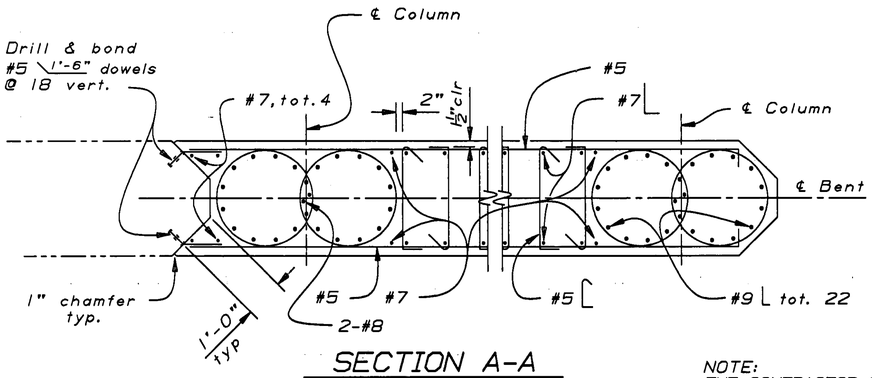
SECTION D-D

1/2"=1'-0"



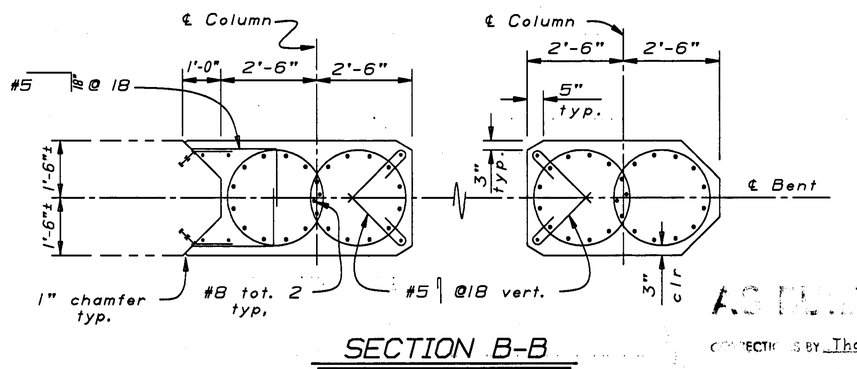
SECTION C-C

1/2"=1'-0"



SECTION A-A

1/2"=1'-0"



SECTION B-B

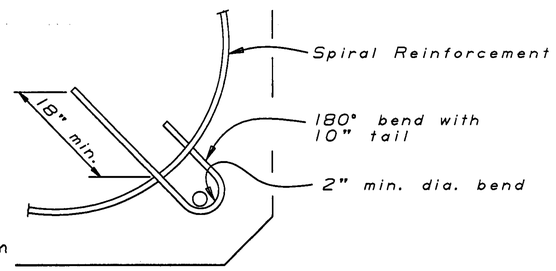
1/2"=1'-0"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

Note:
Alternate orientation of 135° hooks horizontally and vertically as shown.

AS BUILT

CONSTRUCTION BY Thor Larsen
CONTRACT NO. 06-025724
DATE 10-5-95
WAR 5-28-96



TIE BAR DETAIL

VERTICAL BAR OUTSIDE OF SPIRAL

DESIGN	BY M. Whiteside 3-91	CHECKED M. Van De Pol 6-91	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9	BRIDGE NO. 42-188R
DETAILS	BY L. Good 3-91	CHECKED M. Van De Pol 6-91			POST MILE 22.1
QUANTITIES	BY Norbert Gee 7-91	CHECKED Tom Ruckman 7-91			

NIELSEN AVE. UNDERCROSSING (WIDEN)

BENT 3

DS 050 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 025721

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 3-28-91 | 5-14-91 | 7-28-91 | 08-14-91 | 8-18-91 | 9-4-91

SHEET 5 OF 18

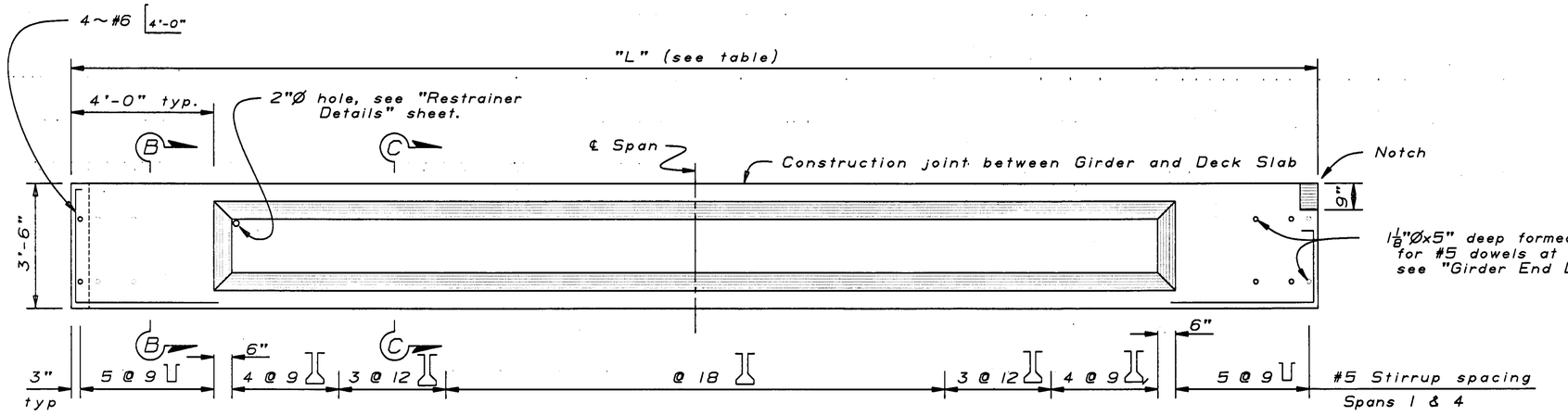
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	180,99	R56.2/R58.4, 21.4/22.3	333	635

REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — G. Joe — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

1-20-92
PLANS APPROVAL DATE

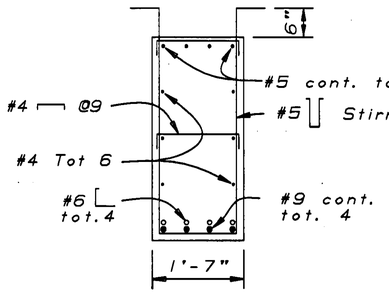


ELEVATION

1/2"=1'-0"

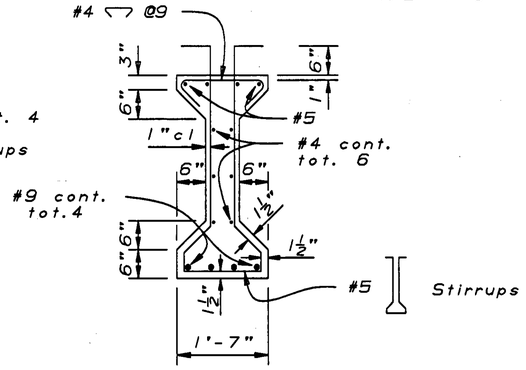
	"L"	
	Span 1	Span 4
Girder (A)	33'-11"	31'-11"
Girder (B)	34'-1"	32'-1"
Girder (C)	34'-4"	32'-4"
Girder (D)	34'-7"	32'-6"
Girder (E)	35'-1"	32'-8"

Note: All girders 3250 psi @ 28 days



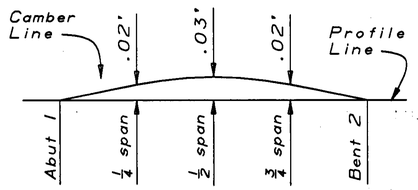
SECTION B-B

3/4"=1'-0"



SECTION C-C

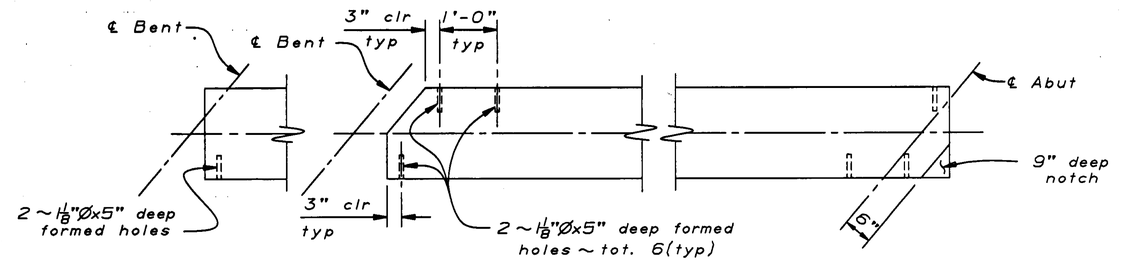
3/4"=1'-0"



Span 1 shown; Span 4 similar

CAMBER DIAGRAM

no scale



EXTERIOR GIRDER @ Bents | INTERIOR GIRDER @ Bents | TYPICAL GIRDER @ Abutments

GIRDER END DETAIL

3/4"=1'-0"

NOTE:
Span 1 shown; Span 4 similar.

NO CORRECTIONS WERE MADE
AS BUILT
CORRECTIONS BY Thor Larsen
CONTRACT NO. 06-025724
DATE 10-5-95
WAR 5-28-96

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	BY M. Whiteside 3-91	CHECKED M. Van De Pol 6-91	
DETAILS	BY L. Good 5-91	CHECKED M. Van De Pol 6-91	
QUANTITIES	BY Norbert Gee 7-91	CHECKED Tom Ruckman 7-91	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 9

CU 06200
EA 025721

BRIDGE NO. 42-188R
POST MILE 22.1

NIELSEN AVE. UNDERCROSSING (WIDEN)
REINFORCED CONCRETE I GIRDER

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 5-9-91 | 6-10-91 | 7-9-91 | 8-15-91 | 8-30-91 | 9-4-91

SHEET 10 OF 18

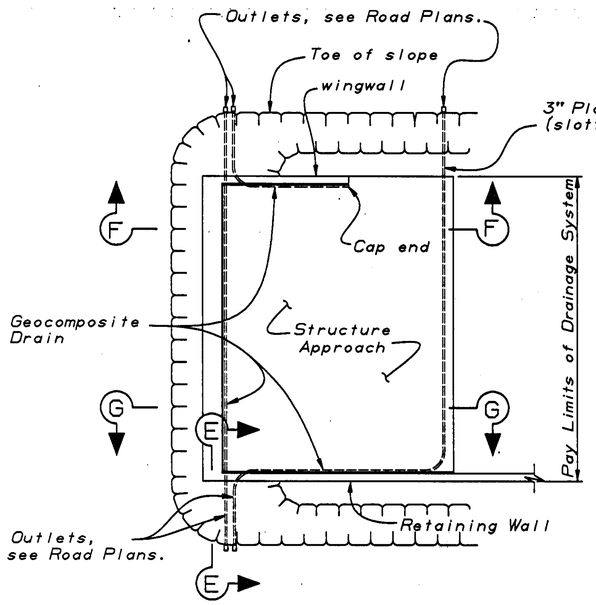
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	180,99	R56.2/R58.4, 21.4/22.3	338	635

REGISTERED ENGINEER - CIVIL

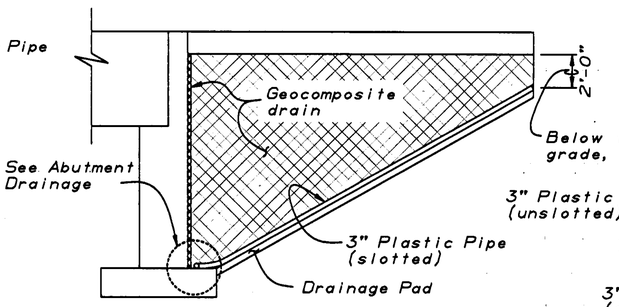
REGISTERED PROFESSIONAL ENGINEER — G. Joe — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

1-20-92
PLANS APPROVAL DATE



TYPICAL PLAN

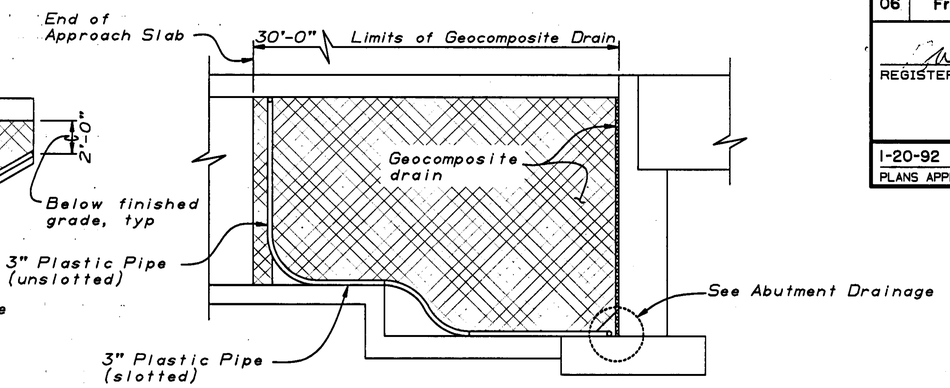
1" = 1'-0"



CANTILEVER WINGWALL

SECTION F-F

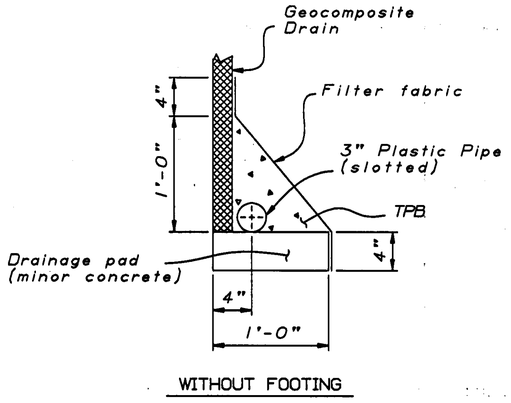
1/4" = 1'-0"



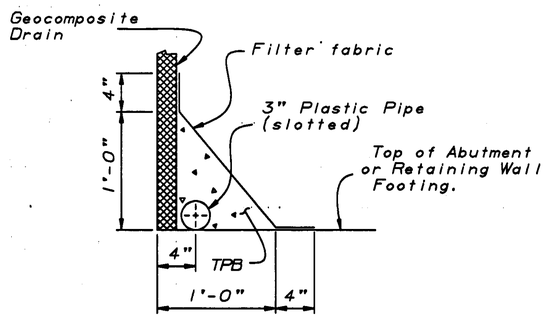
RETAINING WALL WINGWALL

SECTION G-G

1/4" = 1'-0"



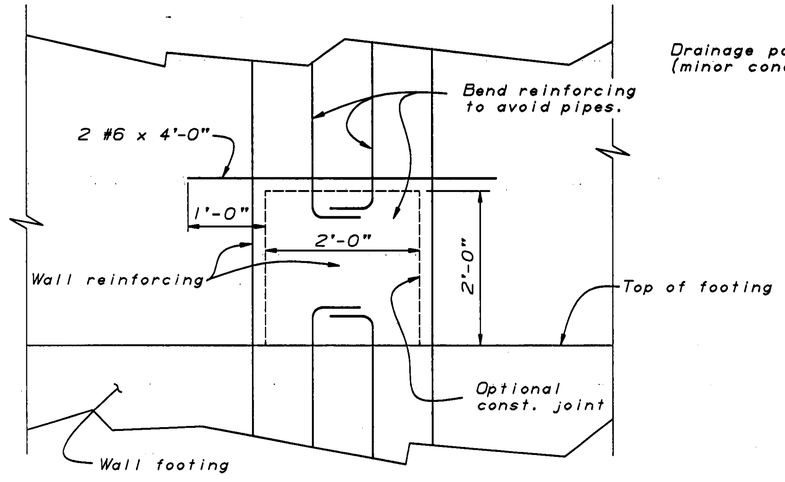
WITHOUT FOOTING



WITH FOOTING

ABUTMENT DRAINAGE

1½" = 1'-0"



SECTION H-H — OPTIONAL WALL OUTLET DETAIL

1" = 1'-0"

NO CORRECTIONS THIS SHEET

AS BUILT

CORRECTIONS BY Thor Larsen

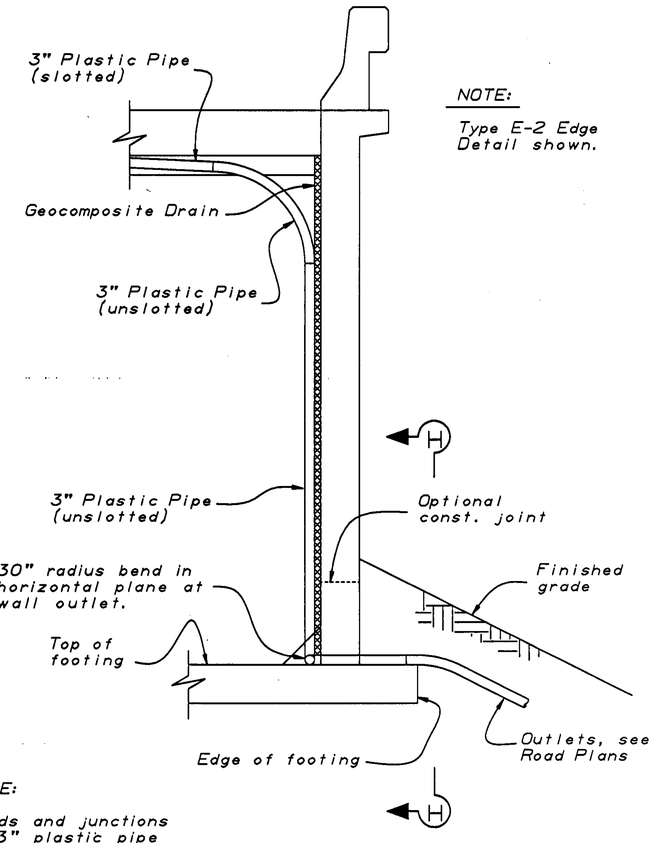
CONTRACT NO. 06-025724

DATE 10-5-95

WAR 5-28-96

NOTE:

Type E-2 Edge Detail shown.



NOTE:

Bends and junctions in 3" plastic pipe are 30" radius min.

SECTION E-E

1/2" = 1'-0"

DESIGN	BY M. Whiteside 3-91	CHECKED M. Van De Pol 6-91	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY T. LAM 5-91	CHECKED M. Van De Pol 6-91	DIVISION OF STRUCTURES STRUCTURE DESIGN 9
QUANTITIES	BY Norbert Gee 7-91	CHECKED Tom Ruckman 7-91	CU 06200 EA 025721

BRIDGE NO. 42-188R
POST MILE 22.1

NIELSEN AVE. UNDERCROSSING (WIDEN)
STRUCTURE APPROACH DRAINAGE DETAILS

DS 050 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 5-17-91 | 6-18-91 | 7-18-91 | 8-12-91

SHEET 15 OF 18

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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	180,99	R56.2/R58.4, 21.4/22.3	335	635

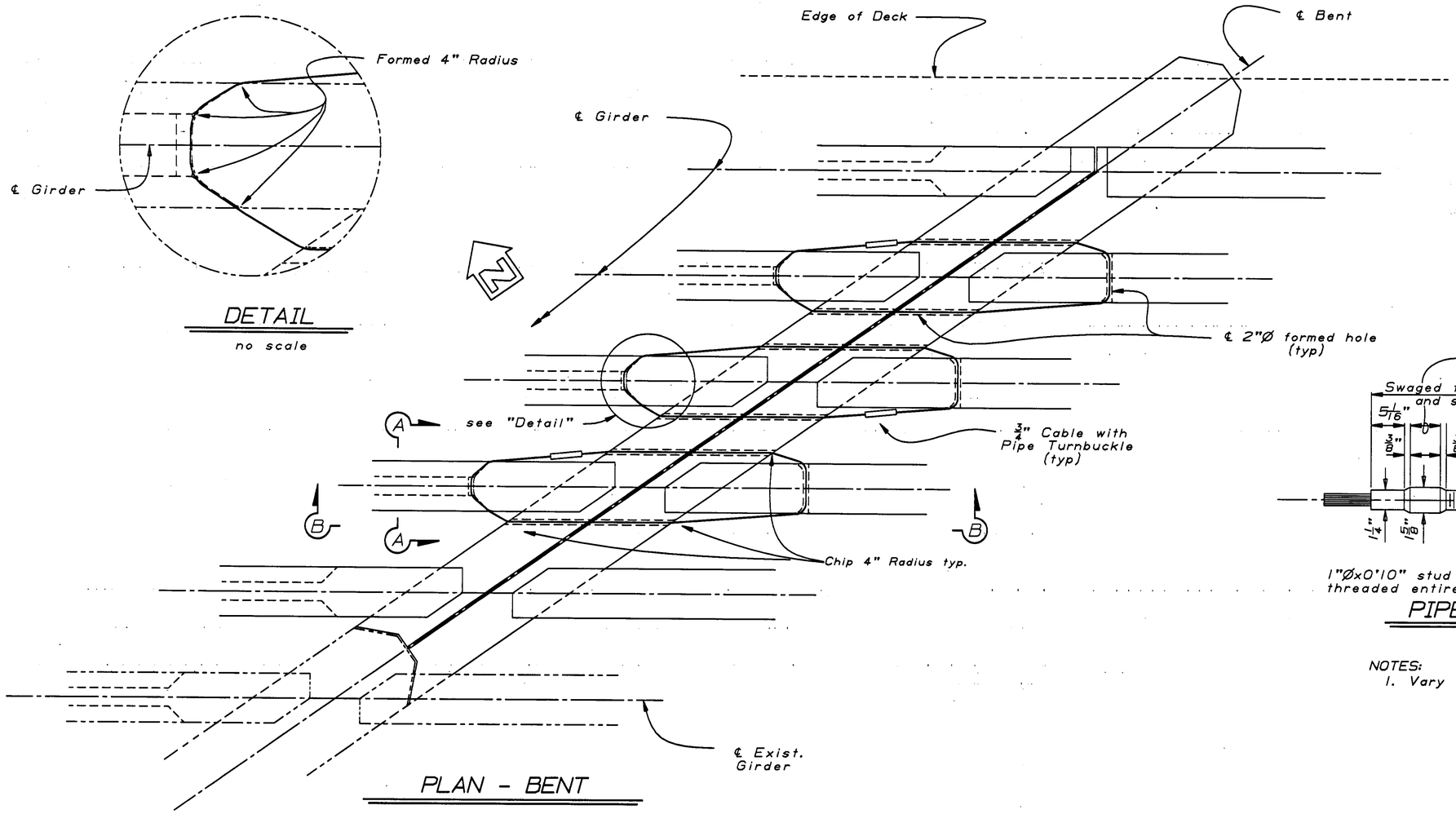
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — G. Joe — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

1-20-92
PLANS APPROVAL DATE

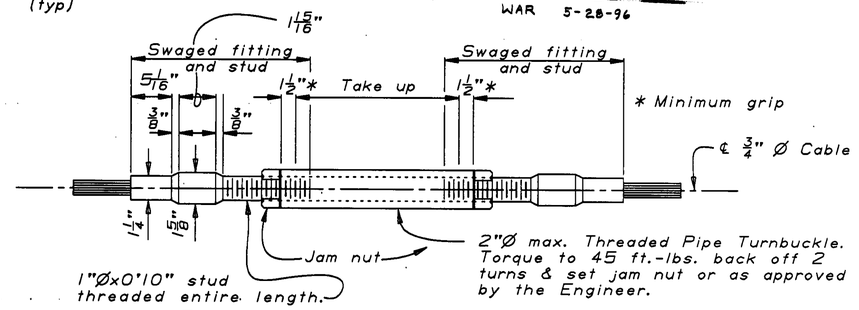
NO CORRECTIONS THIS SHEET
AS BUILT
CORRECTIONS BY Thor Larsen
CONTRACT NO. 06-025721
DATE 10-5-95
WAR 5-28-96

DETAIL
no scale



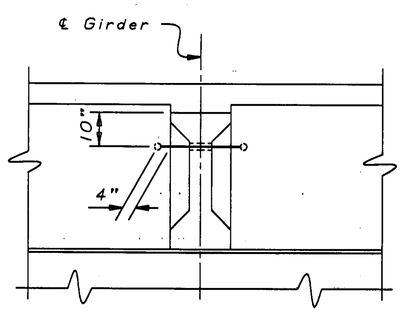
PLAN - BENT
no scale

NOTE:
Bent 4 shown, Bent 2 similar.

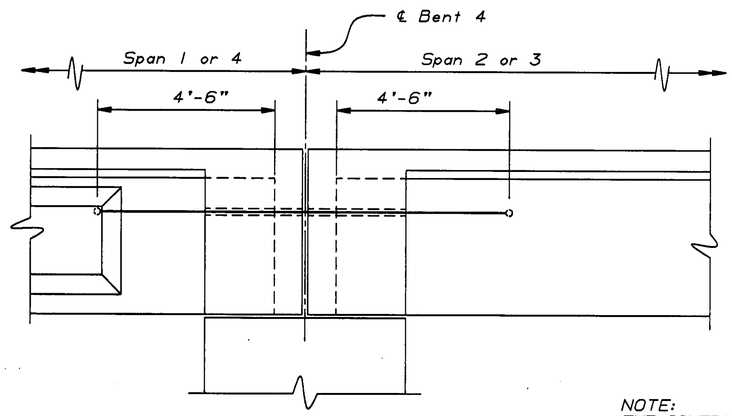


PIPE TURNBUCKLE DETAIL
3"= 1'-0"

NOTES:
1. Vary location of turnbuckle on adjacent girders.



SECTION A-A
½" = 1'-0"



SECTION B-B
no scale

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	BY M. Whiteside 3-91	CHECKED M. Van De Pol 6-91	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9	BRIDGE NO. 42-188R
DETAILS	BY L. Good 6-91	CHECKED M. Van De Pol 6-91			POST MILE 22.1
QUANTITIES	BY Norbert Gee 7-91	CHECKED Tom Ruckman 7-91			

NIELSEN AVE. UNDERCROSSING (WIDEN)
RESTRAINER DETAILS

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 025721

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 6-24-91 | 6-28-91 | 7-12-91 | 8-12-91 | 9-4-91 | 9-12-91

SHEET 12 OF 18

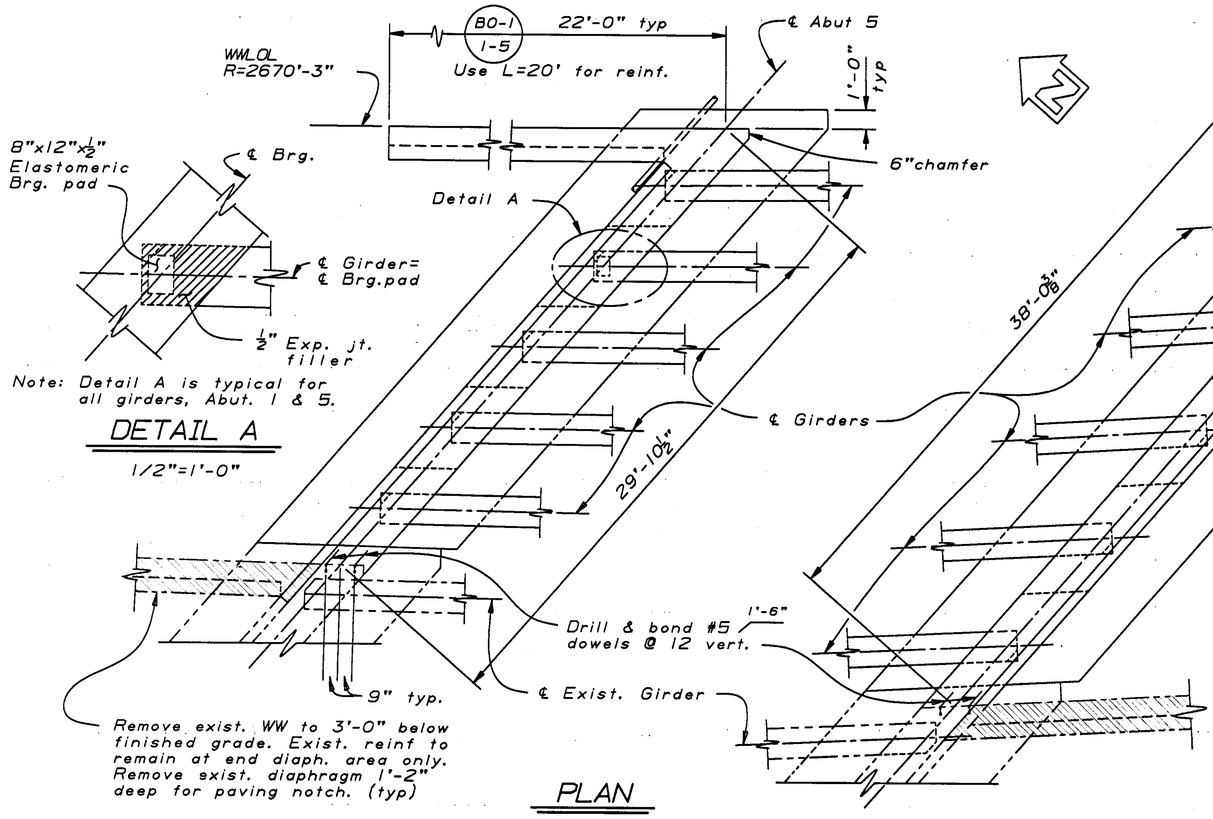
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	180, 99	R56.2/R58.4, 21.4/22.3	326	635

REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — G. Joe — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

1-20-92
PLANS APPROVAL DATE

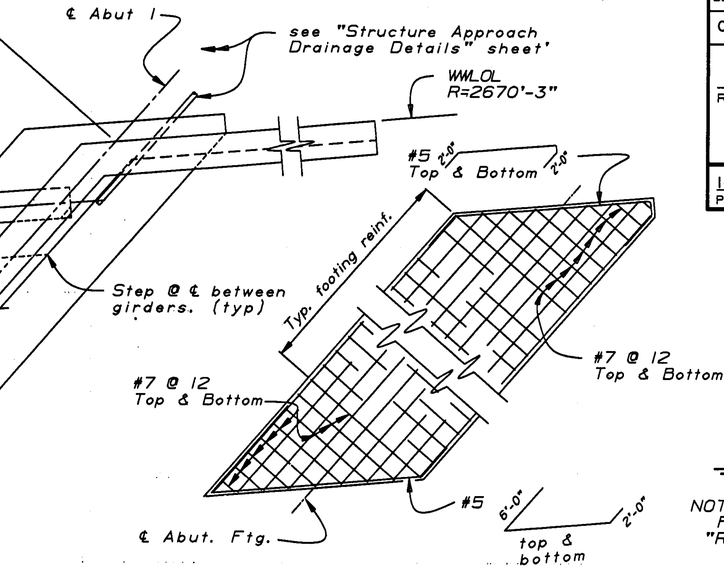


DETAIL A

1/2"=1'-0"

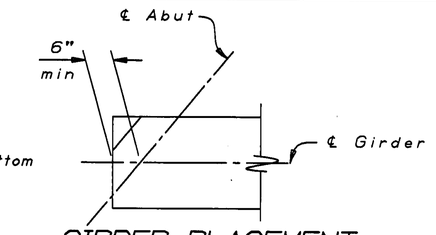
PLAN

1/4"=1'-0"



FOOTING CORNER DETAIL

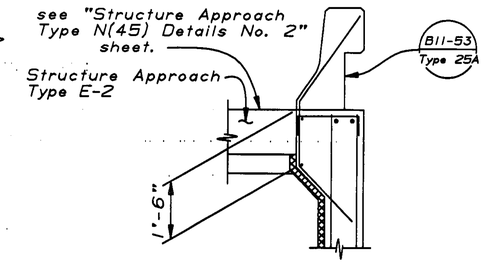
1/4"=1'-0"



GIRDER PLACEMENT

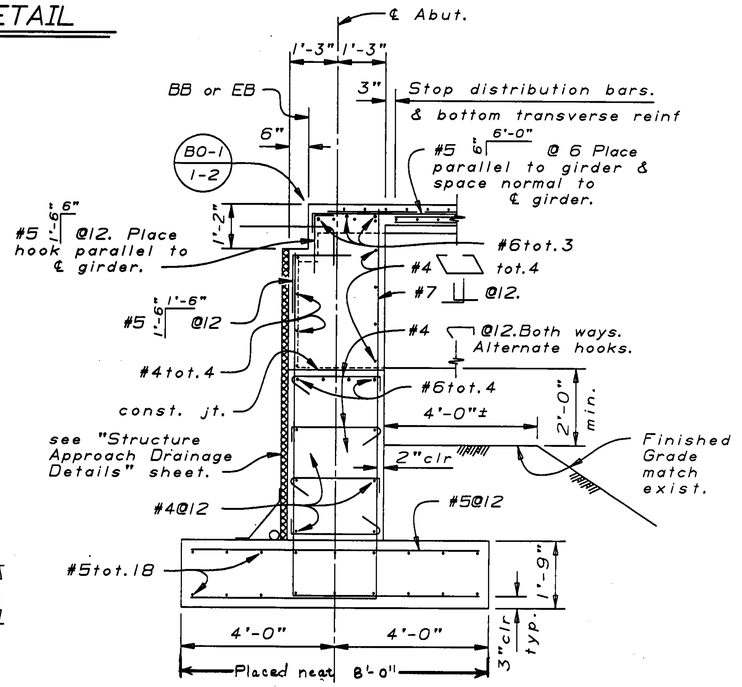
3/4"=1'-0"

NOTE:
For girder end details, see "Reinforced Concrete I Girder" sheet.



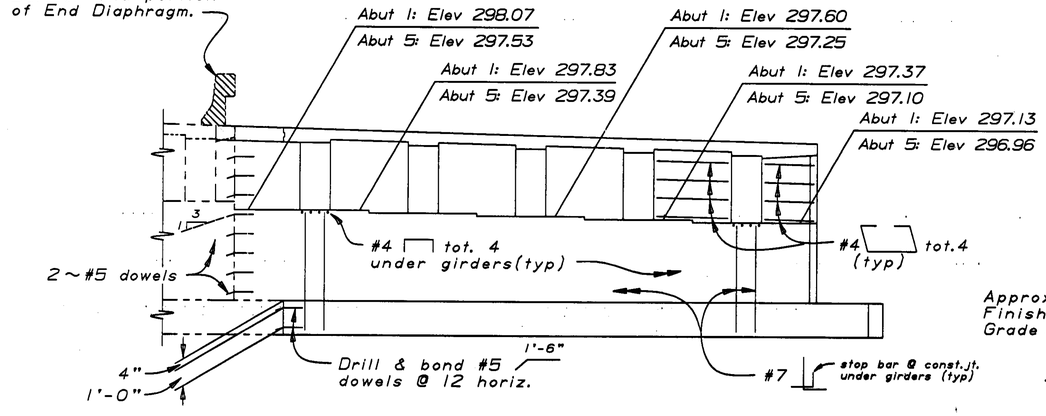
SECTION A-A

1/2"=1'-0"



TYPICAL ABUTMENT SECTION

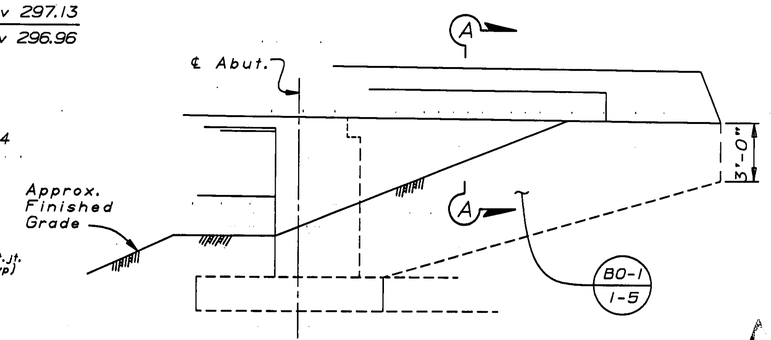
1/2"=1'-0"



ELEVATION

1/4"=1'-0"

Note: Abut 5 shown
Abut 1 similar



WING WALL ELEVATION

1/4"=1'-0"

AS BUILT
CORRECTIONS BY Thor Larsen
CONTRACT 06-025724
DATE 10-5-95 WAR 5-28-96

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	BY M. Whiteside 3-91	CHECKED M. Van De Pol 6-91	
DETAILS	BY L. Good 3-91	CHECKED M. Van De Pol 6-91	
QUANTITIES	BY Norbert Gee 7-91	CHECKED Tom Ruckman 7-91	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 9

BRIDGE NO. 42-188R
POST MILE 22.1

NIELSEN AVE. UNDERCROSSING (WIDEN)
ABUTMENTS

DS 050 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 025721

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 3-22-91 | 6-10-91 | 7-10-91 | 08-14-91 | 8-16-91 | 8-30-91 | 9-5-91

SHEET 3 OF 18

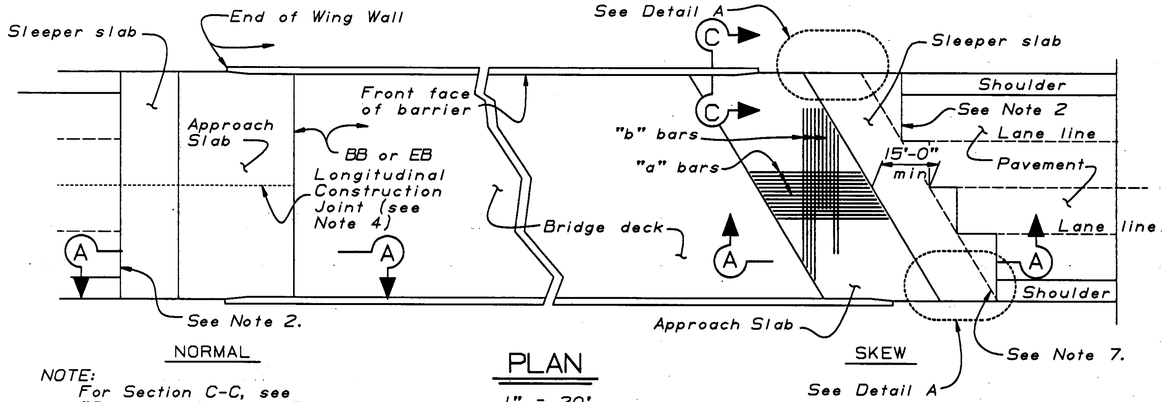
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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	180,99	R56.2/R58.4, 21.4/22.3	336	635

REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — G. Joe — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

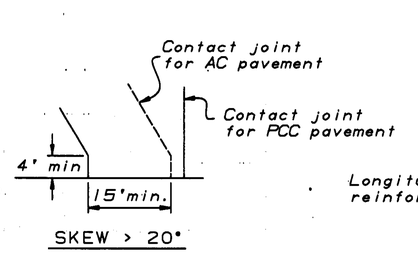
1-20-92
PLANS APPROVAL DATE



PLAN

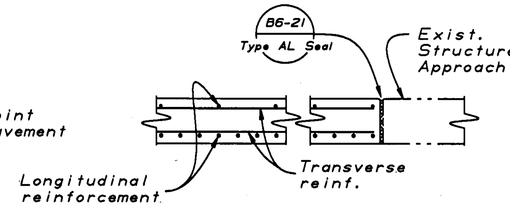
1" = 20'

NOTE:
For Section C-C, see "Structure Approach Type N(45) Details No. 2" sheet.



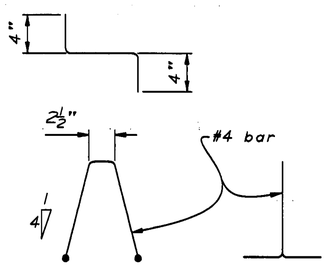
DETAIL A

No Scale



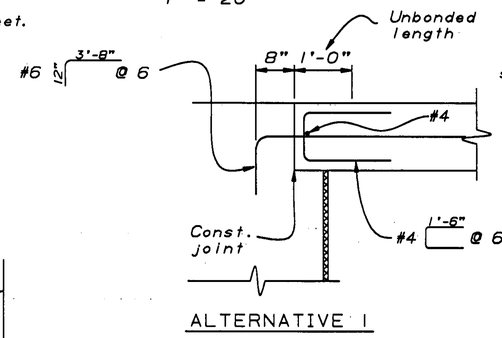
SECTION B-B

1/2" = 1'-0"

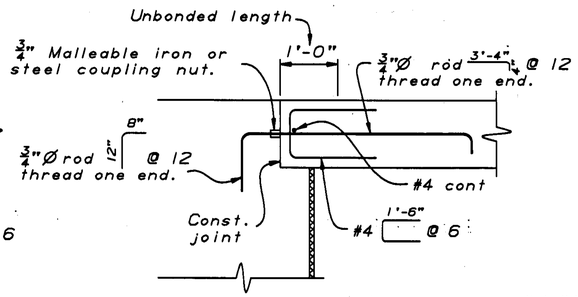


BAR CHAIR DETAIL

1½" = 1'-0"

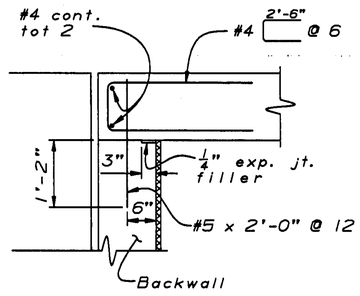


ALTERNATIVE 1

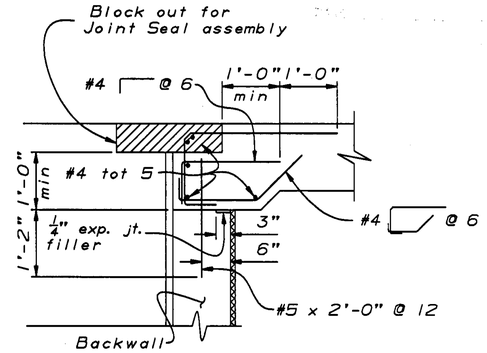


ALTERNATIVE 2

DIAPHRAGM TYPE



MR ≤ 2"

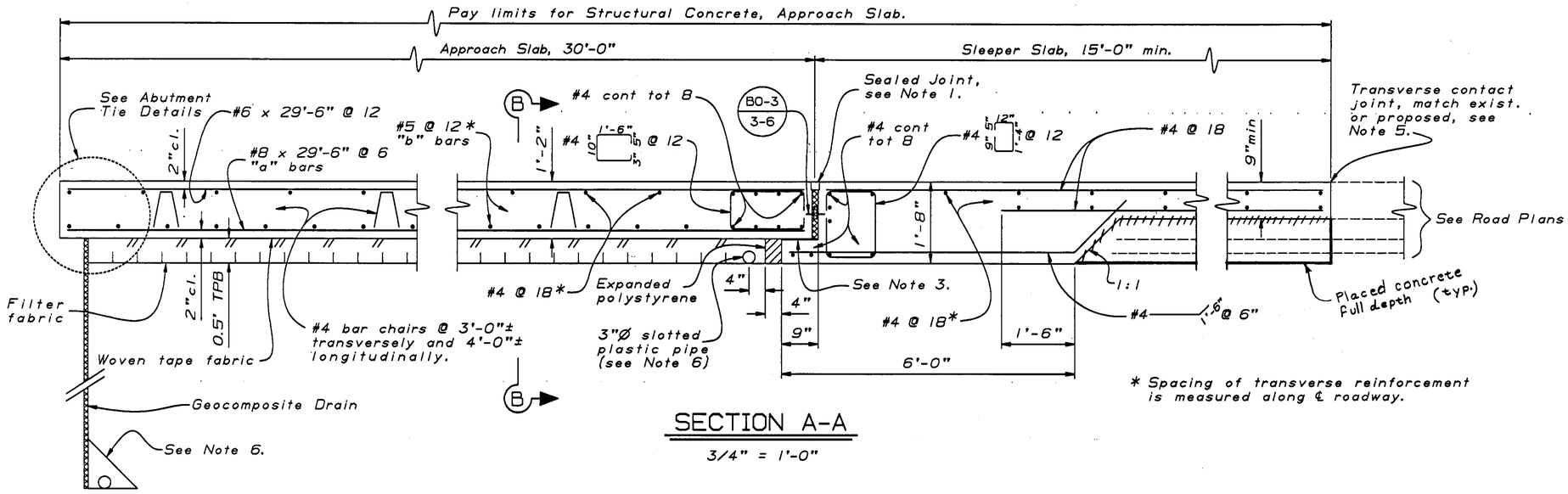


MR ≥ 2½"

SEAT TYPE

ABUTMENT TIE DETAILS (SEE NOTE 1)

3/4" = 1'-0"
(TO BE USED UNLESS OTHERWISE SHOWN ON PLANS)



* Spacing of transverse reinforcement is measured along ℄ roadway.

SECTION A-A

3/4" = 1'-0"

NOTES

1. For details not shown, see "Abutments" sheet.
2. Contact joint between PCC pavement and sleepar slab shall be normal to the centerline for skew > 20°. Joints may be staggered on lane lines at skewed structures. Staggered lines may be 24' or 36' apart for skews of 30° or less shall be at each lane line skews greater than 30°.
3. Sliding joint ¼" x 0'-9" neoprene strip, coat top with grease and cover with 0'-9" x 0.064" galvanized sheet metal.
4. Longitudinal construction joints shall be located on lane lines when permitted by the Engineer.
5. For transverse contact joint with new PCC paving, refer to Standard Plan A-35-A.
6. For drainage details, see "Structure Approach Drainage Details" sheet.
7. Contact Joint between AC pavement and sleeper slab for all skews; or between PCC pavement and sleeper slab when skew is 20° or less.

AS BUILT
CORRECTIONS BY Thor Larsen
CONTRACT NO. 06-025724
DATE 10-5-95
WAR 5-28-96

DESIGN	BY M. Whiteside 3-91	CHECKED M. Van De Pol 6-91	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9
DETAILS	BY T. LAM 5-91	CHECKED M. Van De Pol 6-91		
QUANTITIES	BY Norbert Gee 7-91	CHECKED Tom Ruckman 7-91		

CU 06200
EA 025721

BRIDGE NO. 42-188R
POST MILE 22.1

NIELSEN AVE. UNDERCROSSING (WIDEN)
STRUCTURE APPROACH TYPE N(45) NO. 1

DS 050 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 5-18-91 | 6-18-91 | 7-18-91 | 8-12-91

SHEET 13 OF 18

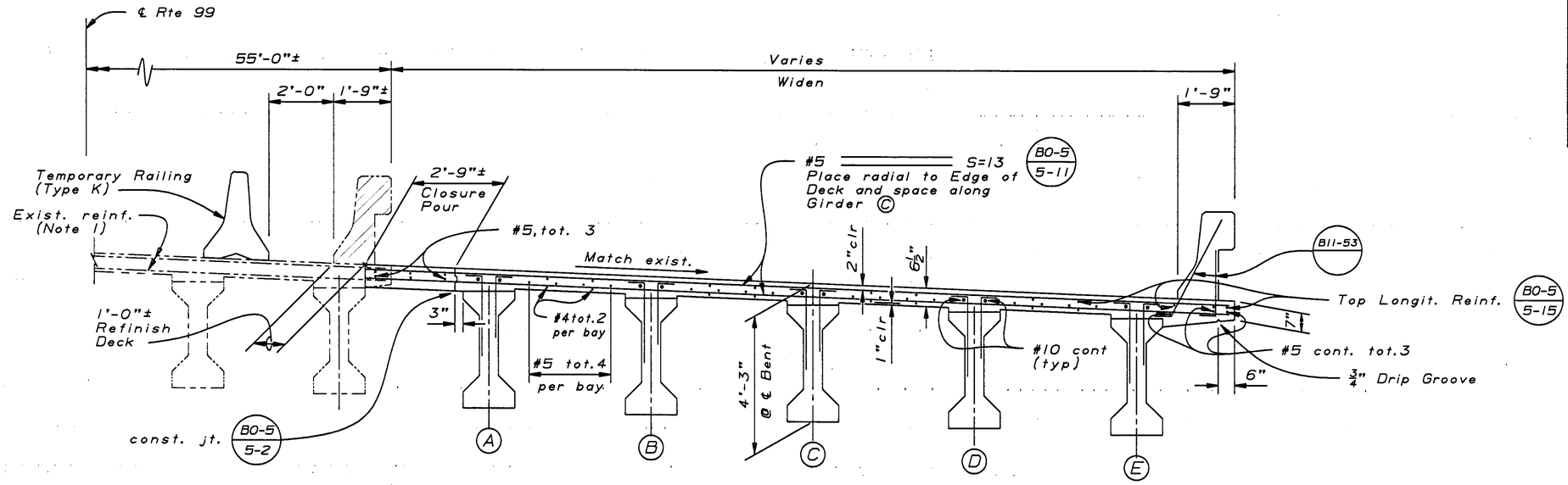
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	180, 99	R56.2/R58.4, 21.4/22.3	329	635

REGISTERED ENGINEER - CIVIL

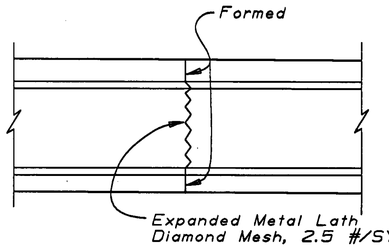
REGISTERED PROFESSIONAL ENGINEER — G. Joe — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

1-20-92
PLANS APPROVAL DATE



TYPICAL SECTION
B0-5
1/2"=1'-0"

Note 1: Butt Weld or mechanically splice transverse reinf to exist. transverse reinf.



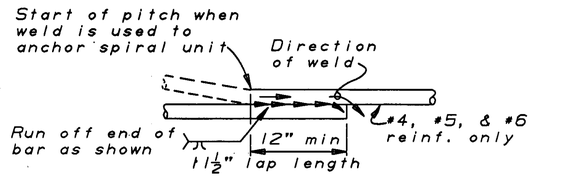
ALTERNATIVE DECK CONSTRUCTION JOINT

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

Denotes limits of concrete barrier and deck overhang removal. Exist. transverse deck reinf. to remain.

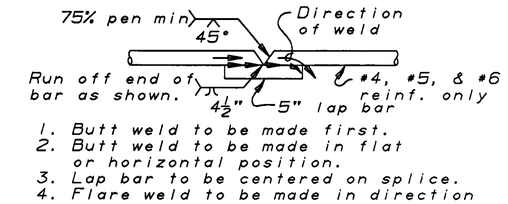
Denotes girder designation.

NO CORRECTIONS THIS SHEET
AS BUILT
CORRECTIONS BY Thor Larsen
CONTRACT 06-025724
DATE 10-5-95
WAR 5-28-96



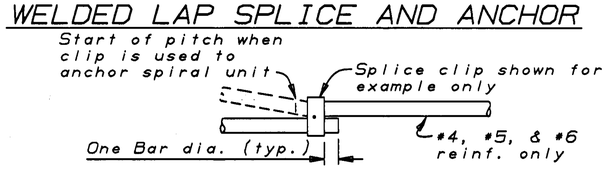
Note: Flare weld to be made in direction shown.

WELDED LAP SPLICE AND ANCHOR

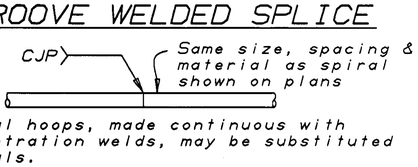


1. Butt weld to be made first.
2. Butt weld to be made in flat or horizontal position.
3. Lap bar to be centered on splice.
4. Flare weld to be made in direction shown.
5. Lap bar equal size to spiral bar.

VEE GROOVE WELDED SPLICE



MECHANICAL LAP SPLICE AND ANCHOR



Individual hoops, made continuous with 100% penetration welds, may be substituted for spirals.

BUTT WELDED CONTINUOUS HOOP

BAR SPIRAL SPLICE & SPIRAL ANCHOR AND HOOP DETAIL

DESIGN	BY M. Whiteside 3-91	CHECKED M. Van De Pol 6-91	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY L. Good 3-91	CHECKED M. Van De Pol 6-91	DIVISION OF STRUCTURES STRUCTURE DESIGN 9
QUANTITIES	BY Norbert Gee 7-91	CHECKED Tom Ruckman 7-91	CU 06200 EA 025721

BRIDGE NO. 42-188R
POST MILE 22.1

NIELSEN AVE. UNDERCROSSING (WIDEN)
TYPICAL SECTION

DS OSD 2139 (CADD 4/89)
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3
DISREGARD PRINTS BEARING EARLIER REVISION DATES →
REVISION DATES (PRELIMINARY STAGE ONLY): 3-28-91, 4-3-91, 6-18-91, 6-28-91
SHEET 6 OF 18

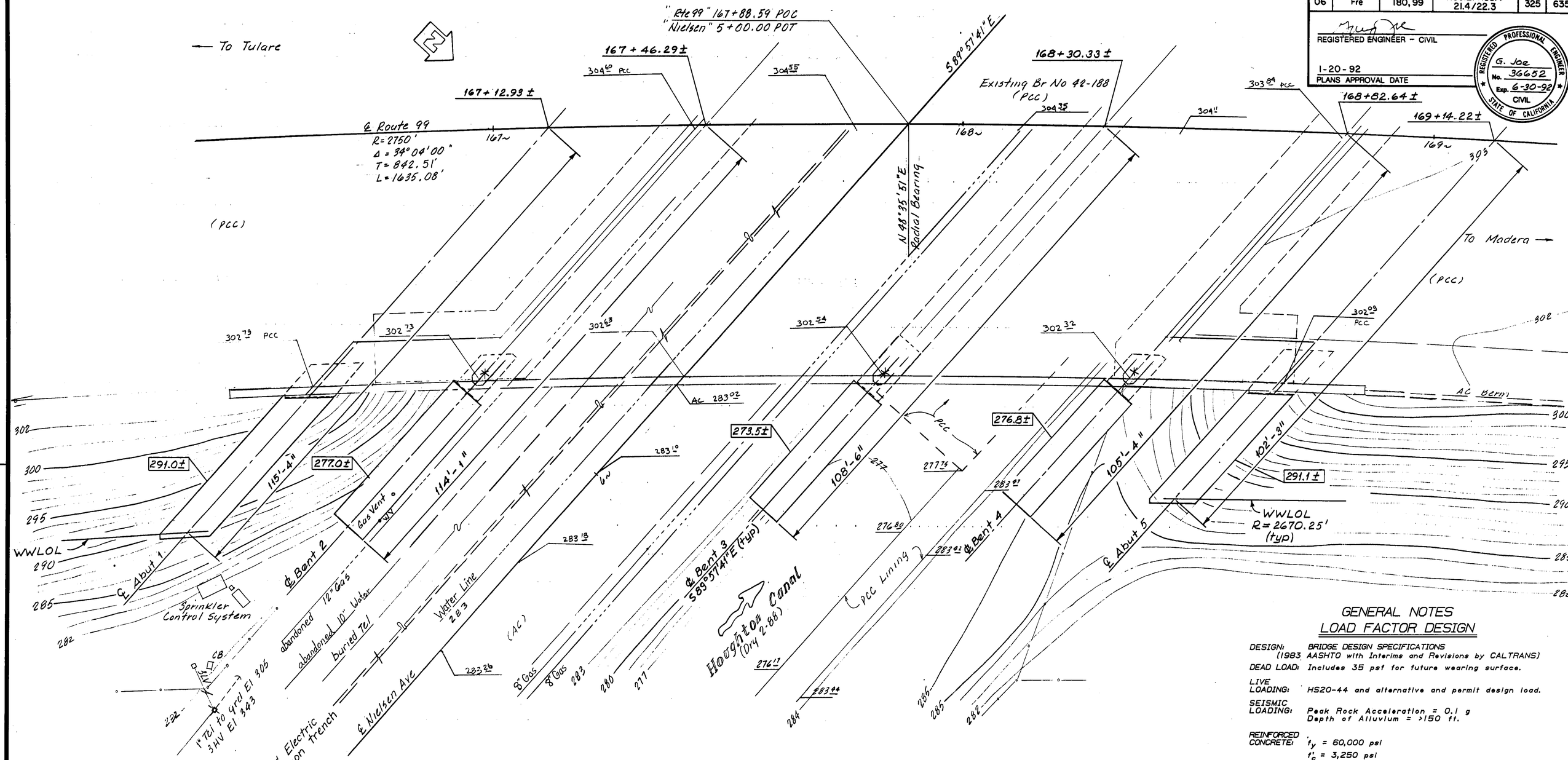
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	180, 99	R56.2/R58.4 21.4/22.3	325	635

REGISTERED ENGINEER – CIVIL

1-20-92
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — G. Joe No. 36652 Exp. 6-30-92 CIVIL — STATE OF CALIFORNIA



BM BR RP1
Fd-1" IP with plug cap dn 0.1'
100' Lt "Nielsen" 2+25
El 285.13

BM BR RP2
Fd-1" IP with plug cap dn 0.1'
55' Lt "Rte 99" 170+25
El 303.47

indicates bottom of ftg. elev.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

GENERAL NOTES
LOAD FACTOR DESIGN

DESIGN: BRIDGE DESIGN SPECIFICATIONS (1983 AASHTO with Interims and Revisions by CALTRANS)

DEAD LOAD: Includes 35 psf for future wearing surface.

LIVE LOADING: HS20-44 and alternative and permit design load.

SEISMIC LOADING: Peak Rock Acceleration = 0.1 g
Depth of Alluvium = >150 ft.

REINFORCED CONCRETE:
f_y = 60,000 psi
f'_c = 3,250 psi
n = 9
Transverse Deck Slabs (Working Stress Desigr.)
f_s = 20,000 psi
f_c = 1,200 psi
n = 10

PRESTRESSED CONCRETE: See 'Prestressing Notes'

FOOTING PRESSURE:	(Tons Per Square Foot) ALLOWABLE	DESIGN
Abutments	2.0	2.0
Bents	5.0	5.0

NO CORRECTIONS THIS SHEET
AS BUILT
CORRECTIONS BY Thor Larsen
CONTRACT NO. 06-025724
DATE 10-5-95
WAR 5-28-96

* REVISED BRIDGE DETAILS & DECK ELEVS 4-3-91 PJC

PR-42188R1-1

PRELIMINARY INVESTIGATION SECTION									
SCALE 1"=10'	DATUM NGVD 1969	PHOTOGRAMMETRY AS OF:		DRAWN	By JS 3/88	DESIGN	By M. Whiteside 6-91	Checked M. Van De Pol 6-91	
		SURVEYED	By District	TRACED	By JS 3/88 PJC 4-91 *	DETAILS	By L. Good 6-91	Checked M. Van De Pol 6-91	
ALIGNMENT TIES PR-42188-3 & T.S.		FIELD CHKD	By R.D.R 2/88	CHECKED	By RDL 3/88	QUANTITIES	By	Checked	

State of CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 9

BRIDGE NO. 42-188R
POST MILE 22.1

NIELSEN AVENUE UC (WIDEN)
FOUNDATION PLAN

DS OSD 2145 (2/86)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 025721

Disregard prints bearing earlier revision dates →

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 2 OF 18

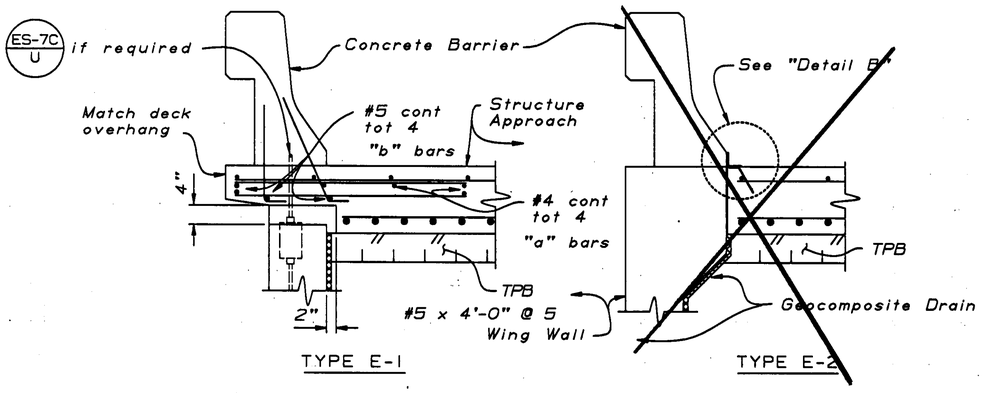
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	180,99	R56.2/R58.4, 21.4/22.3	337	635

REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — G. Joe — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

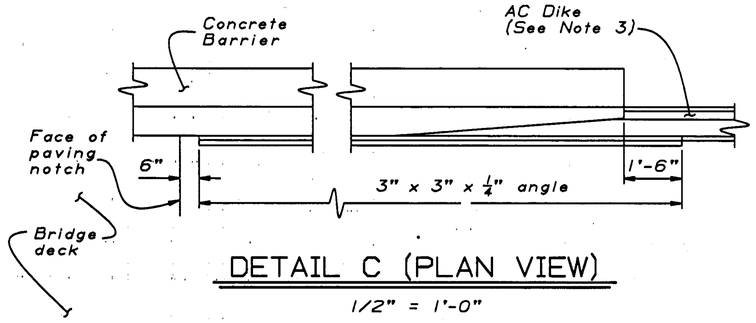
1-20-92
PLANS APPROVAL DATE



SECTION C-C

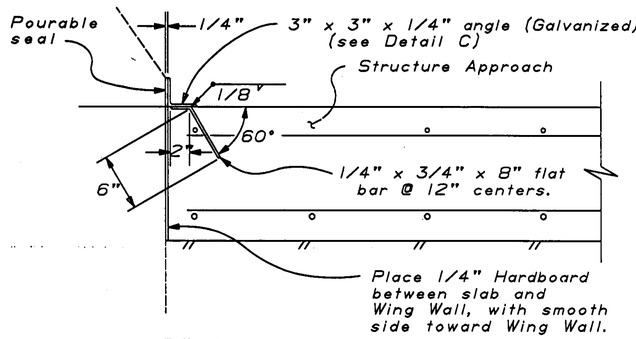
3/4" = 1'-0"

(TYPE E-1 TO BE USED, UNLESS OTHERWISE SHOWN ON PLANS)



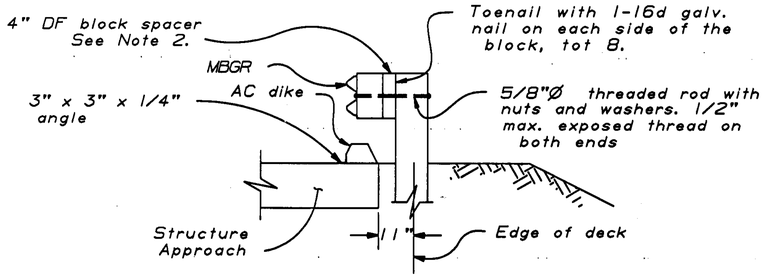
DETAIL C (PLAN VIEW)

1/2" = 1'-0"



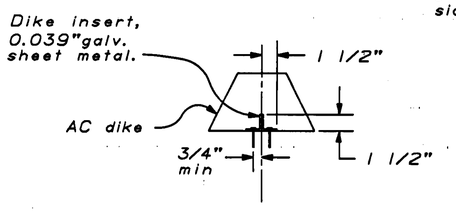
DETAIL B

1-1/2" = 1'-0"



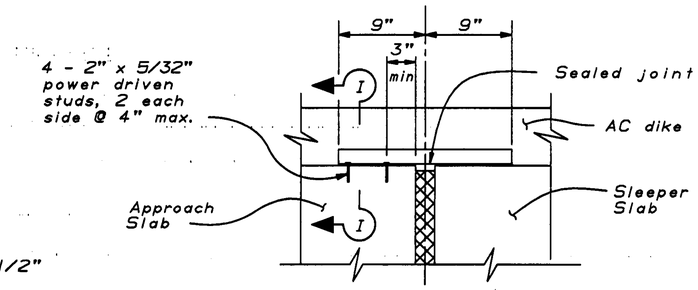
SECTION G-G

1/2" = 1'-0"



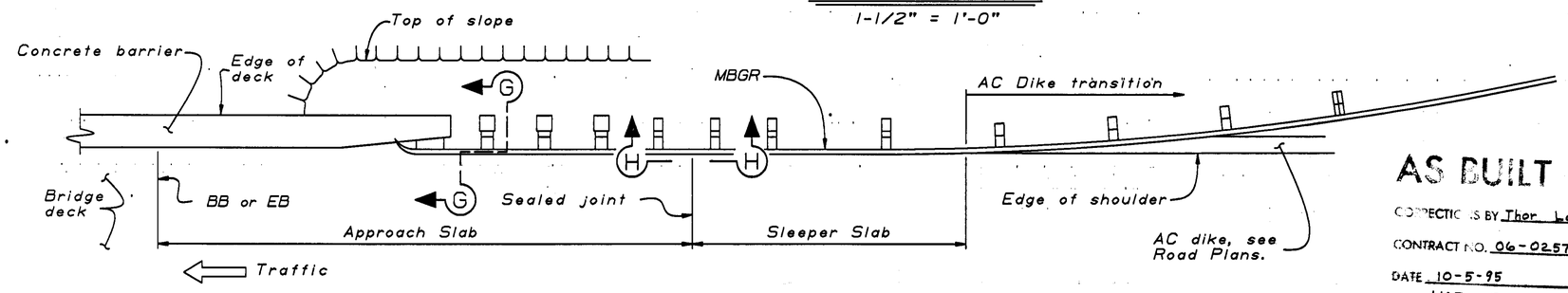
SECTION I-I

1-1/2" = 1'-0"



SECTION H-H

1-1/2" = 1'-0"



PLAN (SEE NOTE 1)

1/4" = 1'-0"

AS BUILT

CORRECTIONS BY Thor Larsen

CONTRACT NO. 06-025724

DATE 10-5-95

WAR 5-28-96

NOTES

AC Dike and MBGR, if require, are shown for typical application only. For details of this project, see "Road Plans".

Optional DF (Douglas Fir) Block Spacers attached as shown, may be used adjacent to Approach and Sleeper Slabs. Use 4" x 8" x 1'-2" DF Block Spacer for 10" x 10" DF Posts and 4" x 6" x 1'-2" DF Block Spacer for 6" x 8" DF Posts.

AC Dike, when required, shall be placed as shown. When AC Dike is not required, end angle at beginning of barrier transition, end of Wing Wall or end of Approach Slab, as applicable.

GUARD RAIL AND DIKE DETAILS

Scale as Shown

DESIGN	BY M. Whiteside 3-91	CHECKED M. Van De Pol 6-91	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9	BRIDGE NO. 42-188R
DETAILS	BY L. Good 6-91	CHECKED M. Van De Pol 6-91			POST MILE 22.1
QUANTITIES	BY Norbert Gee 7-91	CHECKED Tom Ruckman 7-91			

NIELSEN AVE. UNDERCROSSING (WIDEN)

STRUCTURE APPROACH TYPE N(45) DETAILS NO. 2

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 025721

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 5-24-91 | 6-18-91 | 7-11-91 | 9-4-91

SHEET 14 OF 18

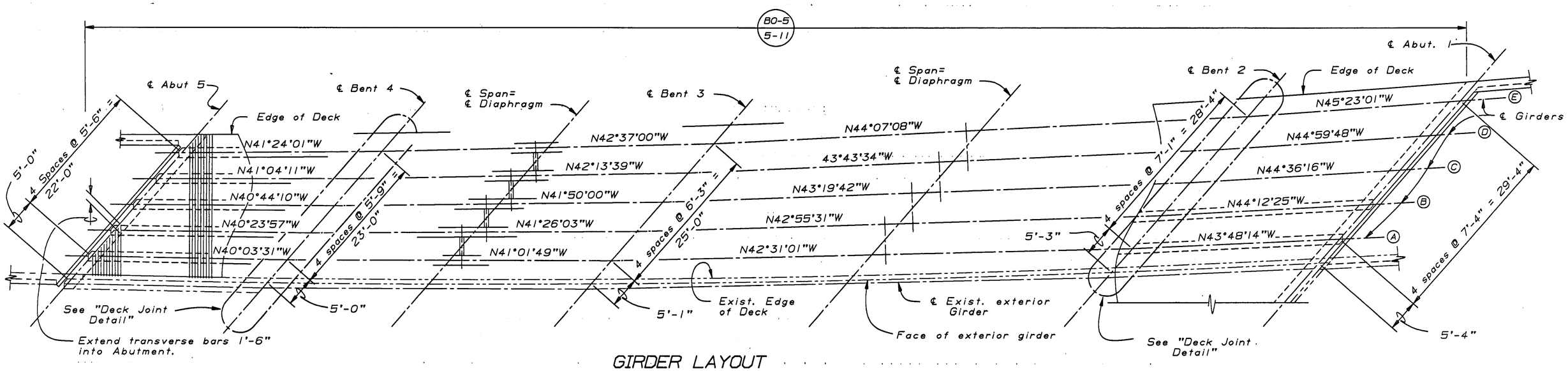
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	180, 99	R56.2/R58.4 21.4/22.3	330	635

REGISTERED ENGINEER - CIVIL

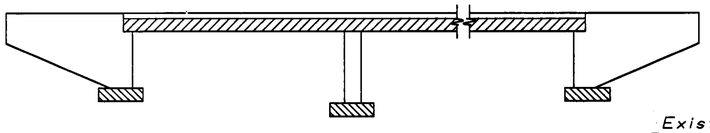
REGISTERED PROFESSIONAL ENGINEER — G. Joe — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

1-20-92
PLANS APPROVAL DATE



GIRDER LAYOUT

1/8"=1'-0"



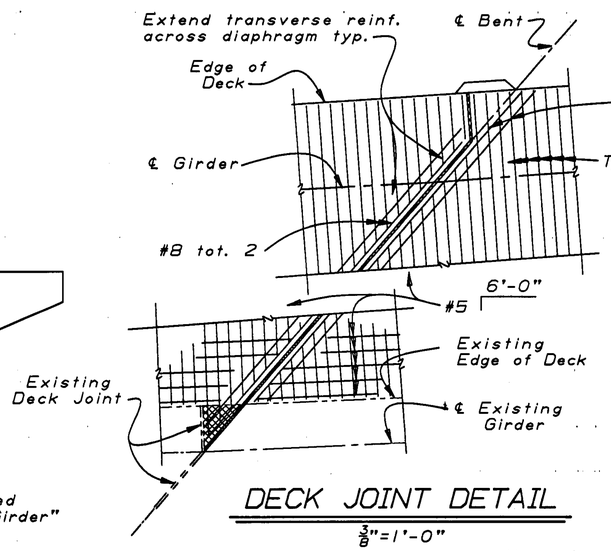
Structural Concrete, Bridge

Structural Concrete, Bridge Footing

Structural Concrete, Bridge
(For concrete strength, see "Reinforced Concrete I Girder" & "Prestressed I Girder" sheets.)

CONCRETE STRENGTH AND TYPE LIMITS

No Scale

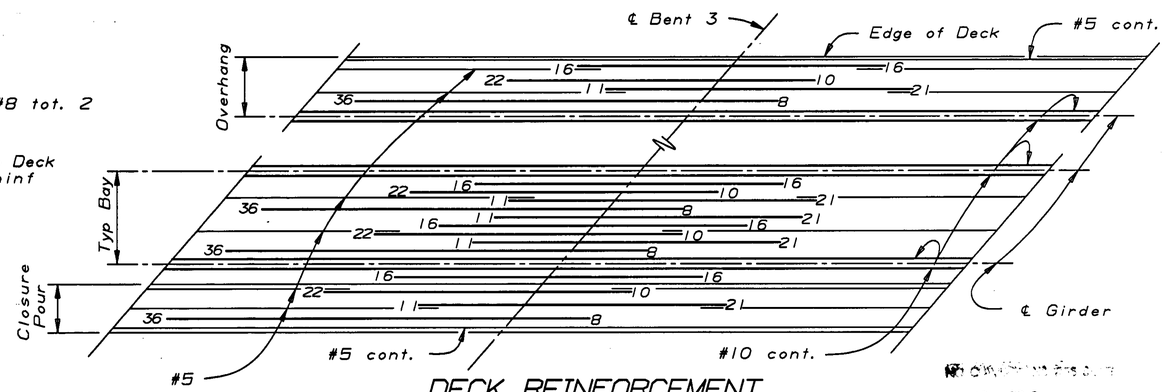


DECK JOINT DETAIL

3/8"=1'-0"

Denotes limits of removal of existing concrete deck & reinf.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



DECK REINFORCEMENT

no scale

Note:
All reinforcement #10 unless otherwise noted. Numbers at ends of bars indicate distance in feet from ℄ Bent 3.

AS BUILT

CORRECTION KEY Thor Larsen

CONTRACT 06-025724

DATE 10-5-95

WAR 5-28-96

DESIGN	BY M. Whiteside 3-91	CHECKED M. Van De Pol 6-91	
DETAILS	BY L. Good 3-91	CHECKED M. Van De Pol 6-91	
QUANTITIES	BY Norbert Gee 7-91	CHECKED Tom Ruckman 7-91	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 9

CU 06200
EA 025721

BRIDGE NO. 42-188R
POST MILE 22.1

NIELSEN AVE. UNDERCROSSING (WIDEN)
GIRDER LAYOUT

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 3-28-91 | 4-26-91 | 5-1-91 | 6-18-91 | 6-24-91 | 8-10 | 8-30-91 | 9-9-91 | 9-12-91

SHEET 7 OF 18

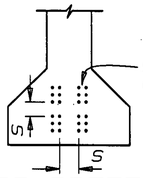
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	180,99	R56.2/R58.4, 21.4/22.3	334	635

REGISTERED ENGINEER - CIVIL

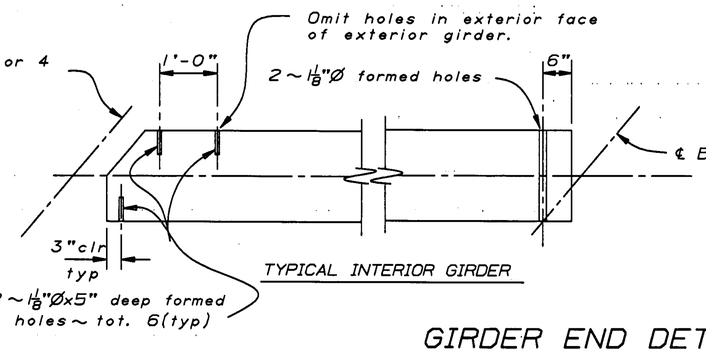
REGISTERED PROFESSIONAL ENGINEER — G. Joe — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

1-20-92
PLANS APPROVAL DATE

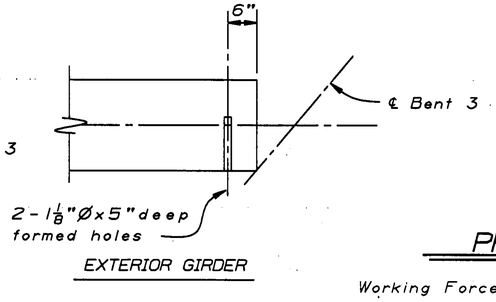


CLEARANCES FOR PRETENSIONED STRANDS

1. Strands may be bundled in groups consisting of 3 vertically 2 horizontally, and separated at the ends.
2. The min distance "S" between groups or individual strands is $1\frac{1}{2}$" for $\frac{3}{8}$" strands, $1\frac{3}{4}$" for $\frac{7}{16}$" strands and 2" for $\frac{1}{2}$" strands.
3. "S" is measured between centers of adjacent strands.
4. Approval of Engineer is required for deviation.



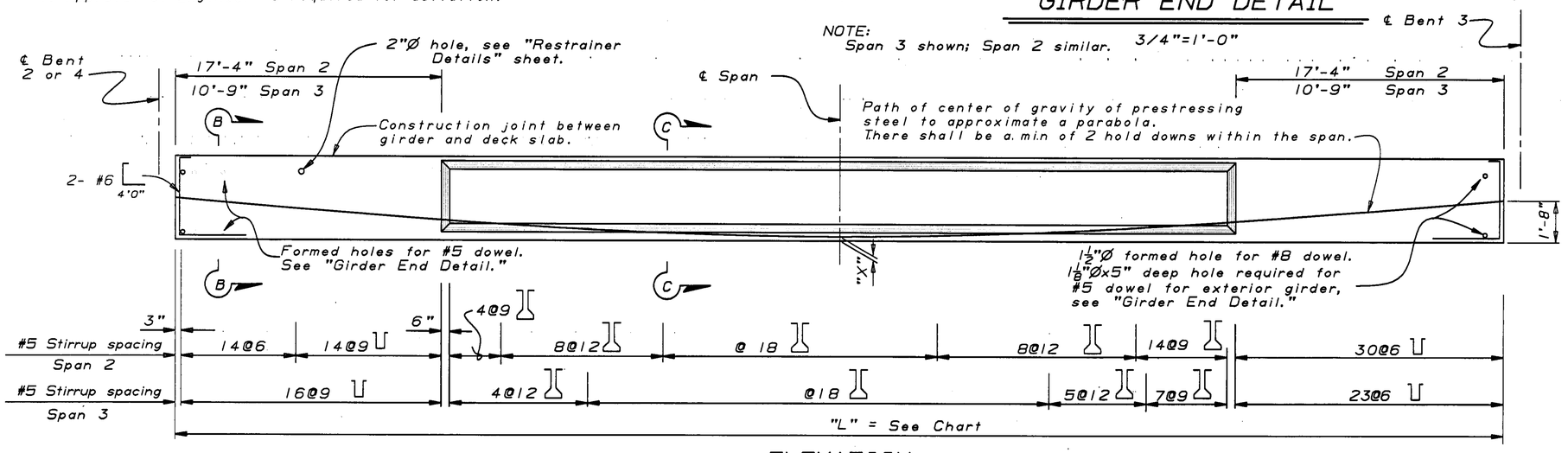
TYPICAL INTERIOR GIRDER



EXTERIOR GIRDER

GIRDER END DETAIL

NOTE: Span 3 shown; Span 2 similar. 3/4"=1'-0"



ELEVATION

PRESTRESSING NOTES

Working Force: The force required at center of span after all losses.

Concrete Strength: f'_{ci} is at time of initial stressing, f'_c is at 28 days, psi.

Camber: Girder camber immediately after the deck and barriers have been placed.

Screed line elevations for deck concrete will be determined by the Engineer.

Contractor may interpolate "P" and "X" values between limits shown, as approved by the Engineer.

Girder location	P = Working force in Kips "X"		Concrete Strength f'_{ci}	Concrete Strength f'_c	Girder Camber at ℄ Span
Span 2	4"	680	5000	6300	0.03'
	6"	735			
Span 3	4"	226	4000	4000	0.01'
	6"	238			

NO CORRECTIONS AS BUILT

CORRECTIONS BY Thor Larsen

CONTRACT NO. 06-025724

DATE 10-5-95

WAR 5-28-96

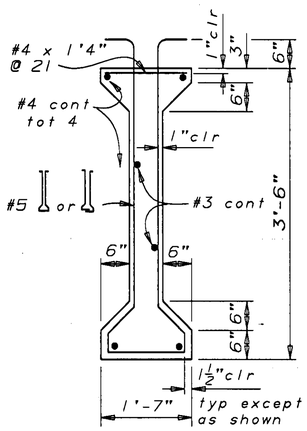
Note: Span 3 shown Span 2 similar

		"L" Span 2	"L" Span 3
Girder	Ⓐ	84'-9"	52'-4"
Girder	Ⓑ	85'-3"	52'-8"
Girder	Ⓒ	85'-10"	53'-0"
Girder	Ⓓ	86'-4"	53'-3"
Girder	Ⓔ	86'-11"	53'-10"

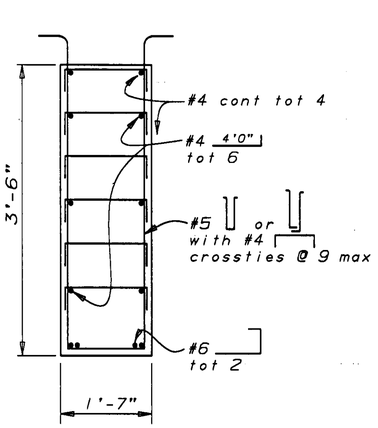
NOTE: THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

Note:

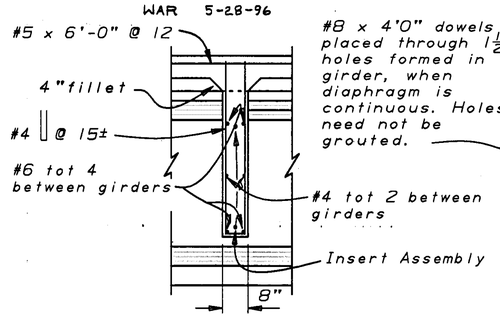
Details shown are for Pretensioned Girders The Contractor may submit details for Post-tensioning which shall be subject to the approval of the Engineer.



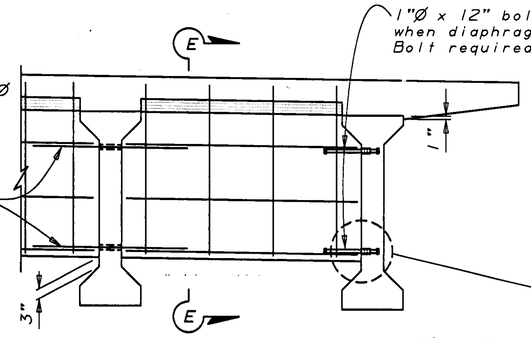
SECTION C-C



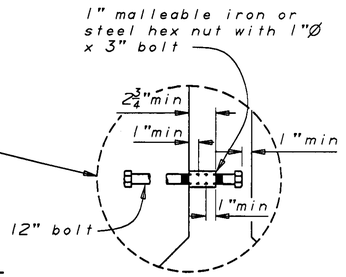
SECTION B-B



SECTION E-E



INTERMEDIATE DIAPHRAGM



INSERT ASSEMBLY

DESIGN	BY M. Whiteside 3-91	CHECKED M. Van De Pol 6-91	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9	BRIDGE NO. 42-188R	NIELSEN AVE. UNDERSROSSING (WIDEN)	
DETAILS	BY Bill Robinson 6-91	CHECKED M. Van De Pol 6-91			POST MILE 22.1	PRESTRESSED I GIRDER	
QUANTITIES	BY Norbert Gee 7-91	CHECKED Tom Ruckman 7-91					

DS 050 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 025721

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 5-1-91 | 6-18-91 | 7-9-91 | 7-15-91 | 8-12-91 | 8-26-91 | 9-5-91

SHEET 11 OF 18

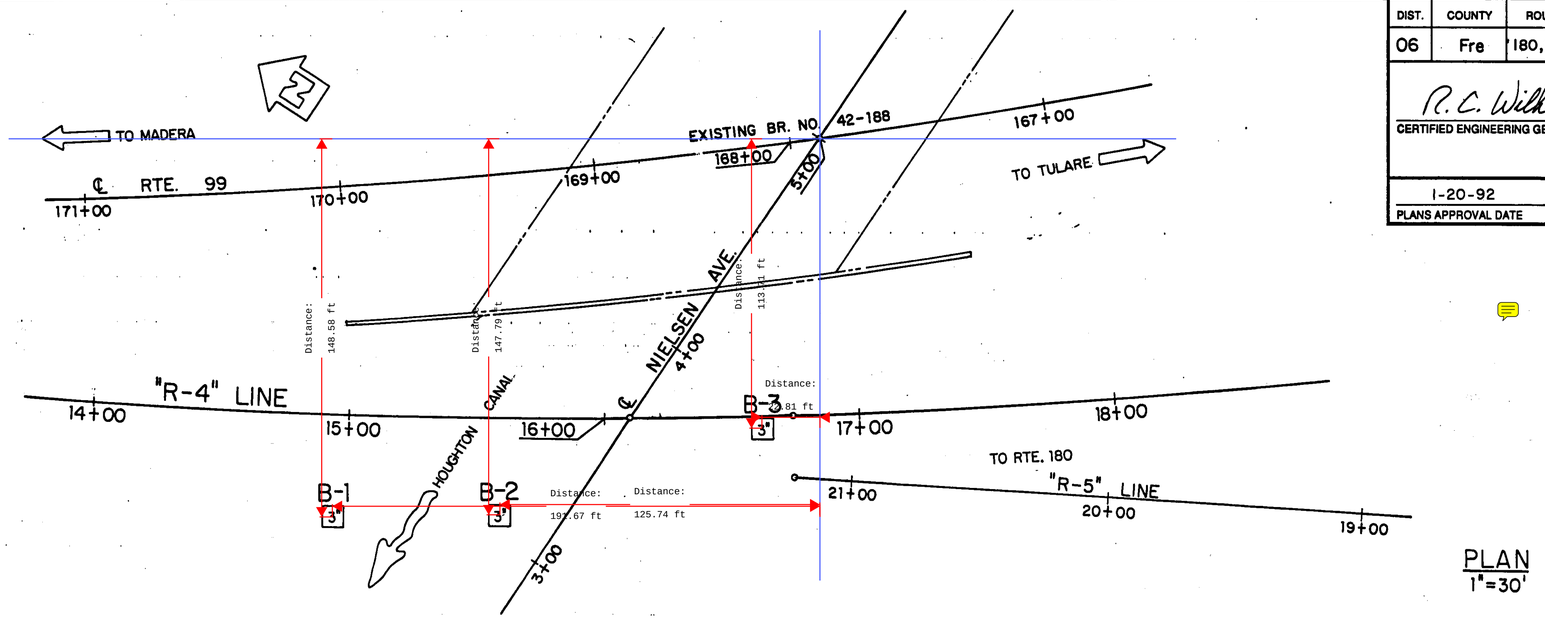
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	180,99	R56.2/R58.4 21.4/22.3	339	635

R. C. Wilhelms
CERTIFIED ENGINEERING GEOLOGIST

REGISTERED GEOLOGIST — Exp. 6-30-92 — R.C.WILHELMS — No. 560 — CERTIFIED ENGINEERING GEOLOGIST — STATE OF CALIFORNIA

1-20-92
PLANS APPROVAL DATE



PLAN
1"=30'

BENCH MARK

FD. BAR WITH CAP DOWN 0.1 FT. 68' RT.
STA. 14+50 "R-4" LINE. ELEV. 285.12

NOTE:
NO GROUND WATER ENCOUNTERED
DURING FIELD INVESTIGATION

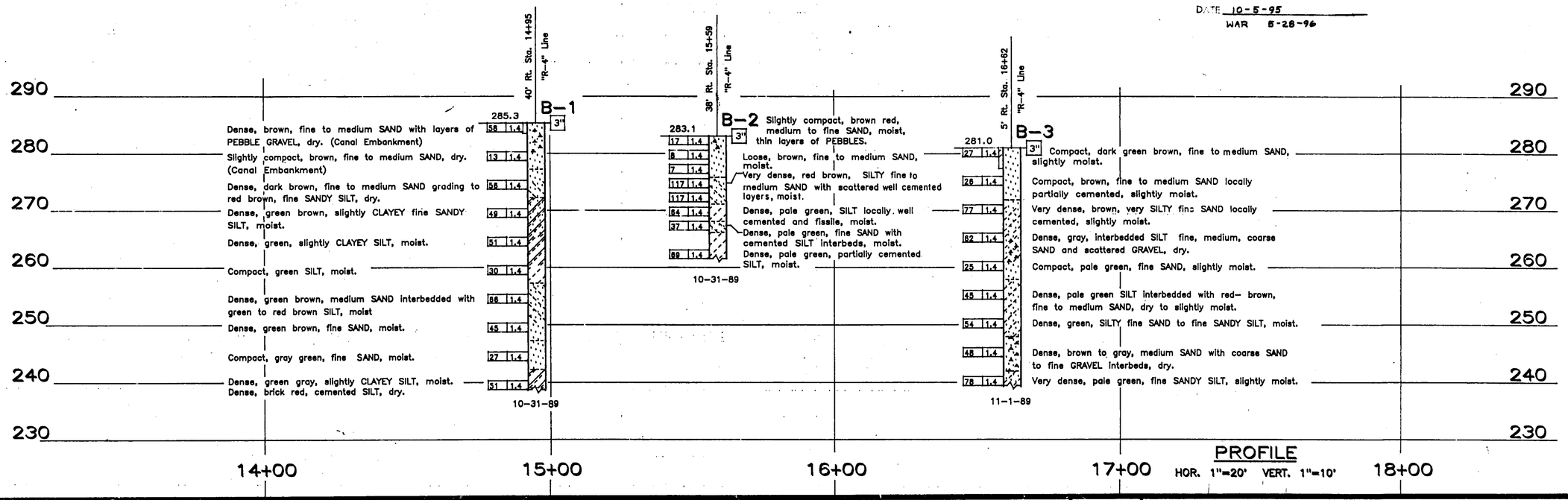
NO CORRECTIONS AS BUILT

AS BUILT

CORRECTIONS BY Thor Larsen

CONTRACT NO. 06-028724

DATE 10-5-95
WAR 5-28-96



PROFILE
HOR. 1"=20' VERT. 1"=10'

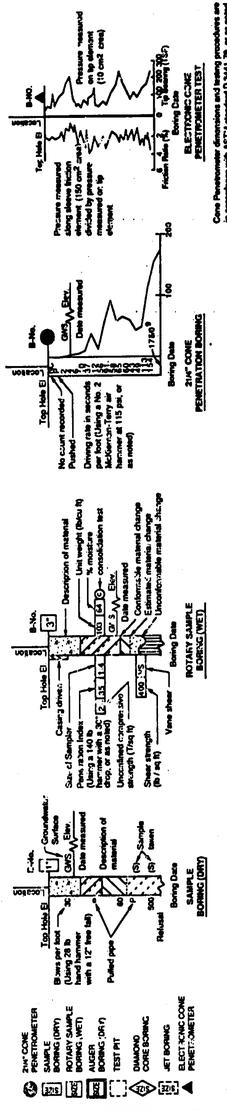
LEGEND OF EARTH MATERIALS: GRAVEL, SAND, SILT, CLAY, CLAYEY SILT, PEAT and/or ORGANIC MATTER, FILL MATERIAL, IGNEOUS ROCK, SEDIMENTARY ROCK, METAMORPHIC ROCK, SANDY CLAY or CLAYEY SAND, SANDY SILT or SILTY SAND, SILTY CLAY

CONSISTENCY CLASSIFICATION FOR SOILS
According to the Standard Penetration Test

Penetration Index (Blows / Ft)	Granular	Cohesive
0-4	Very loose, Loose	Very soft, Soft
5-9		
10-19	Slightly compact, Compact	Stiff
20-34	Dense	Very stiff, Hard
35-69		
>70	Very dense	Very hard

NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

LEGEND OF BORING OPERATIONS



ENGINEERING GEOLOGY BRANCH - TRANSPORTATION LABORATORY

DRAWN BY LEONY L. LOPEZ 6/90
CHECKED BY

, PROJECT ENGINEER

State of CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 9

BRIDGE NO.	NIELSEN AVE. UNDERCROSSING (WIDEN)
42-188R	
POST MILE	LOG OF TEST BORINGS 1 OF 3
22.1	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 025721

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 8/8/90

SHEET 16 OF 18

TL 6041 REV. 4/89

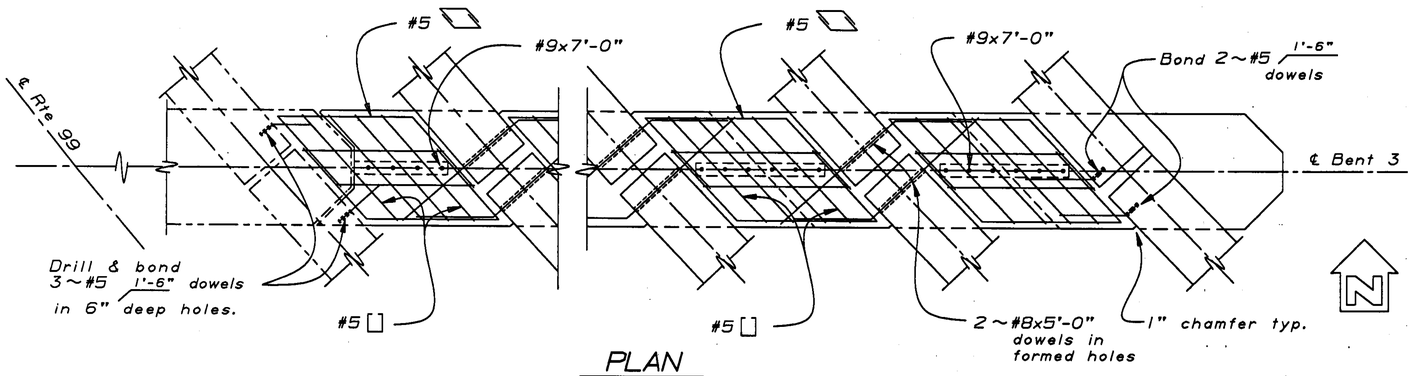
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	180,99	R56.2/R58.4, 21.4/22.3	332	635

REGISTERED ENGINEER - CIVIL

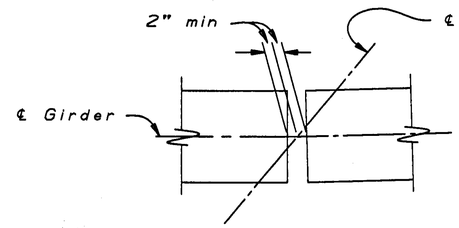
REGISTERED PROFESSIONAL ENGINEER — G. Joe — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

1-20-92
PLANS APPROVAL DATE



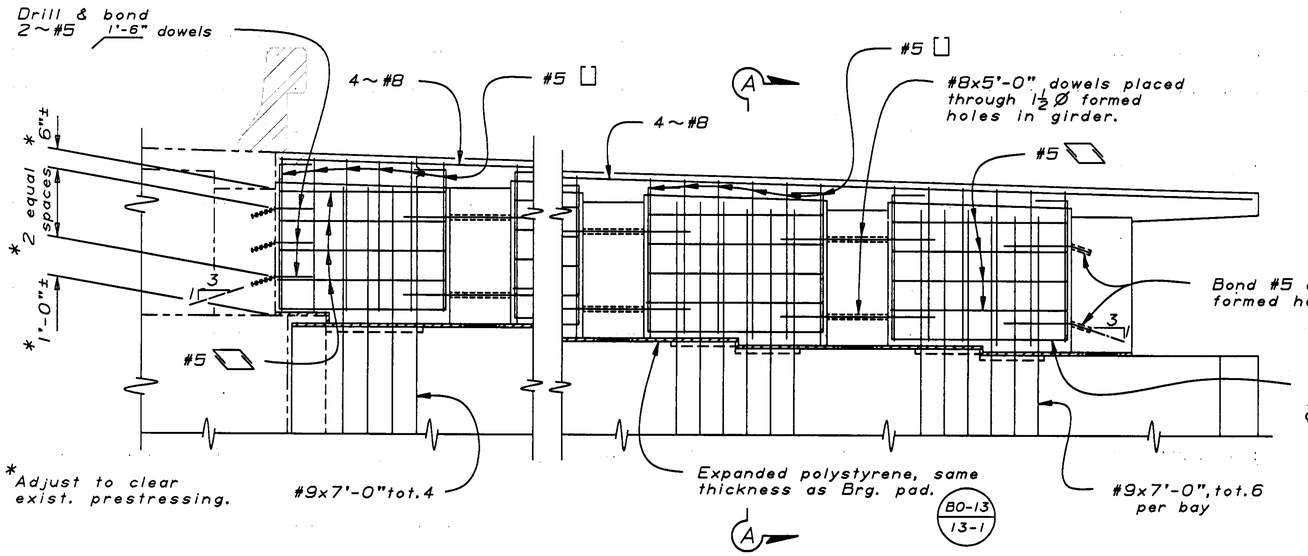
PLAN

1/2"=1'-0"



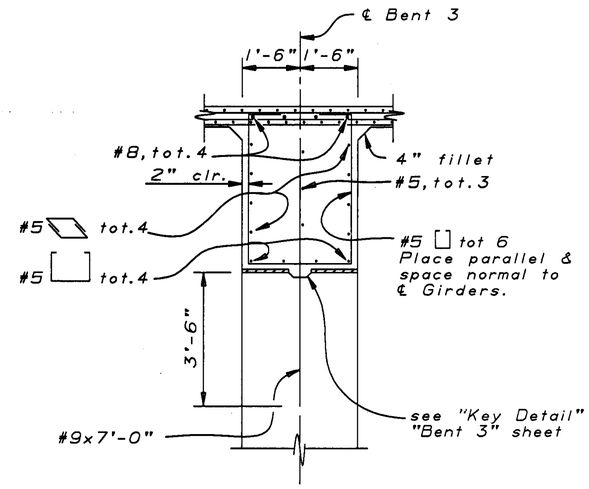
GIRDER PLACEMENT

3/4"=1'-0"



ELEVATION

no scale



SECTION A-A

1/2"=1'-0"

[ ] Denotes removal of Concrete Barrier and Deck overhang.

NO CORRECTIONS TO THIS SHEET

CORRECTIONS BY Thor Larsen

CONTRACT NO. 06-025724

DATE 10-5-95
WAR 5-28-96

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	BY M.Whiteside 3-91	CHECKED M.Van De Pol 6-91
DETAILS	BY L. Good 5-91	CHECKED M.Van De Pol 6-91
QUANTITIES	BY Norbert Gee 7-91	CHECKED Tom Ruckman 7-91

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 9

CU 06200
EA 025721

BRIDGE NO.	NIELSEN AVE. UNDERCROSSING (WIDEN)
42-188R	
POST MILE 22.1	DIAPHRAGM DETAILS (BENT 3)

DS 050 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 5-14-91 | 6-18-91 | 7-1-91 | 7-18-91 | 8-16-91 | 9-4-91

SHEET 9 OF 18

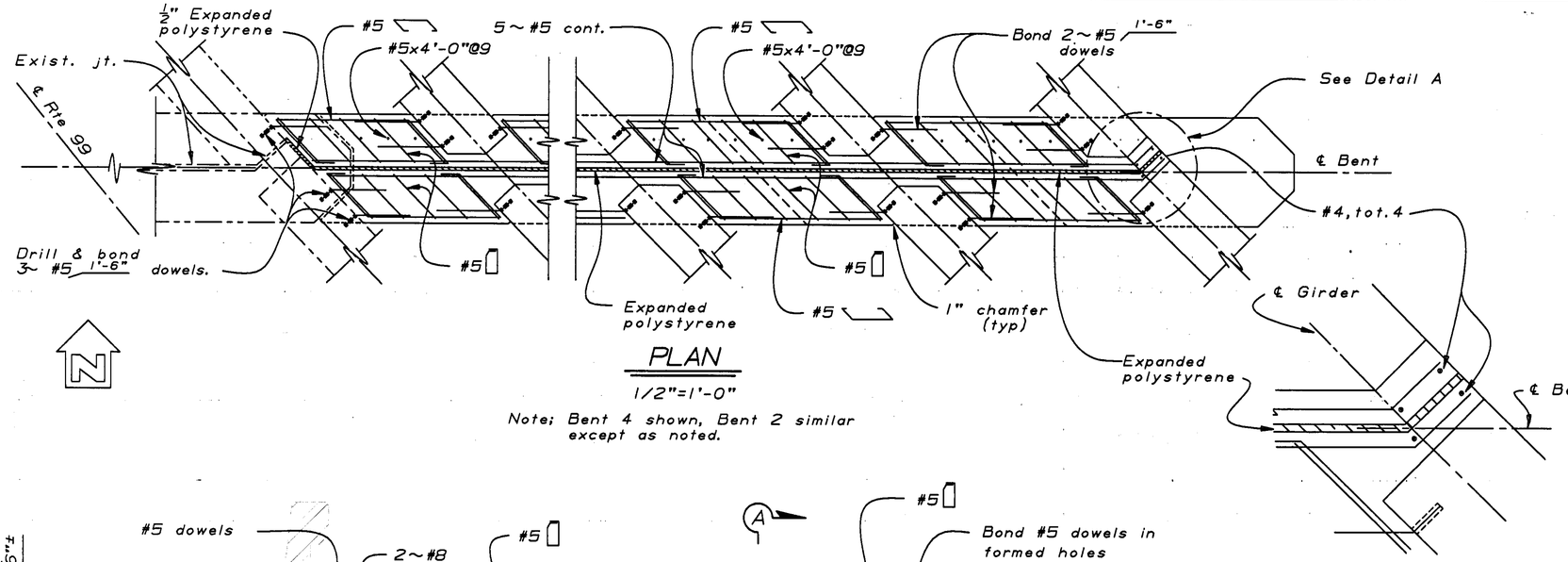
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	180,99	R56.2/R58.4, 21.4/22.3	331	635

REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — G. Joe — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

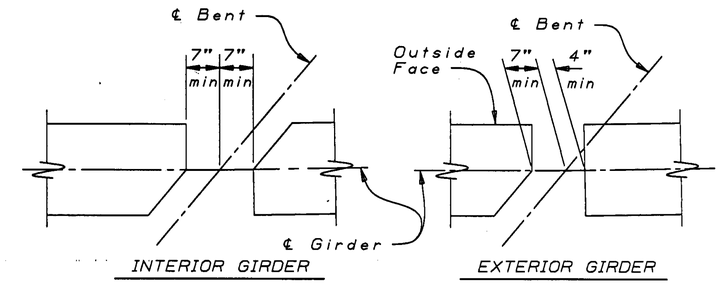
1-20-92
PLANS APPROVAL DATE



PLAN

1/2"=1'-0"

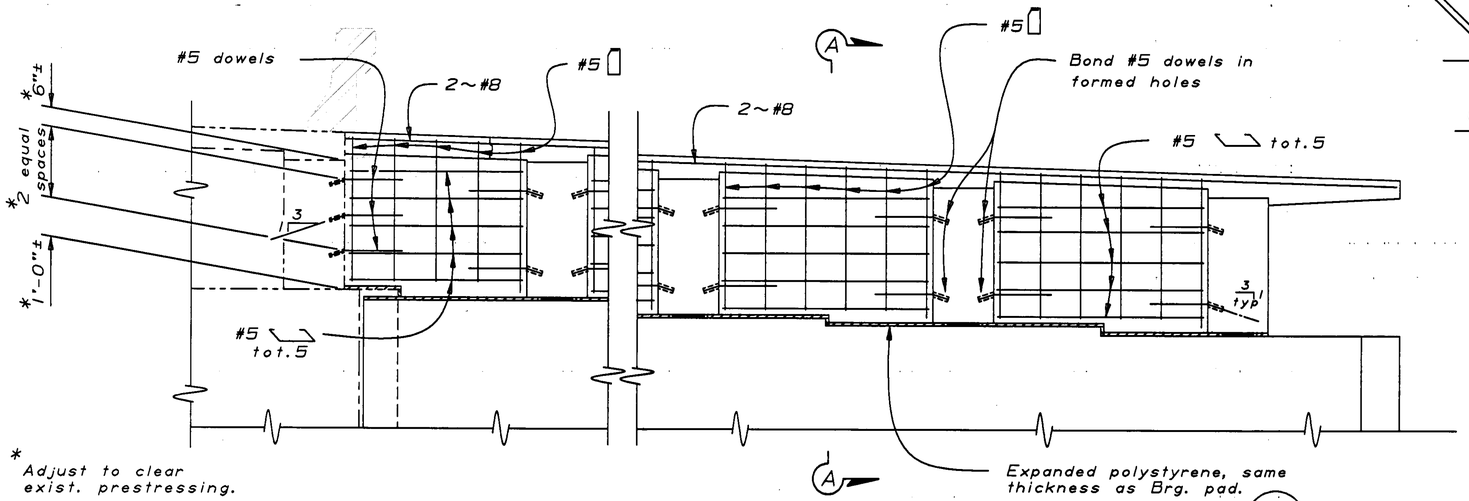
Note; Bent 4 shown, Bent 2 similar except as noted.



BENTS 2 & 4

GIRDER PLACEMENT

NOTE: 3/4"=1'-0"
For girder end details, see "Reinforced Concrete I Girder" and "Prestressed I Girder" sheets.



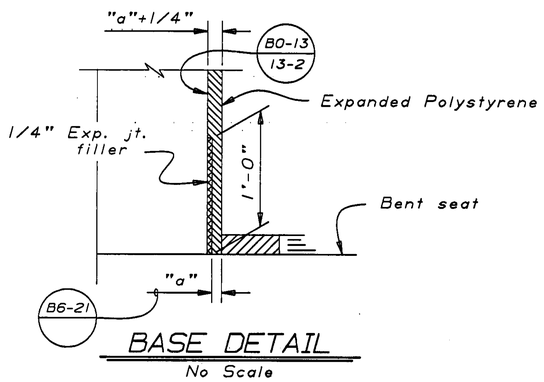
* Adjust to clear exist. prestressing.

ELEVATION

1/4"=1'-0"

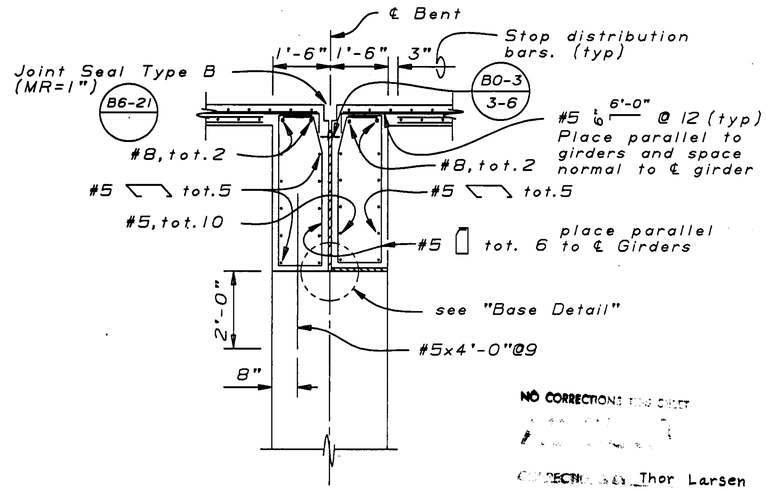
Detail A

1"=1'-0"



BASE DETAIL

No Scale



SECTION A-A

1/2"=1'-0"

NO CORRECTIONS FROM SHEET

#

CORRECTIONS Thor Larsen

CONTRACT 06-025724

DATE 10-5-95

WAR 5-28-96

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	BY M. Whiteside 3-91	CHECKED M. Van De Pol 6-91	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9	BRIDGE NO. 42-188R
DETAILS	BY L. Good 5-91	CHECKED M. Van De Pol 6-91			POST MILE 22.1
QUANTITIES	BY Norbert Gee 7-91	CHECKED Tom Ruckman 7-91			NIELSEN AVE. UNDERCROSSING (WIDEN)
					DIAPHRAGM DETAILS (BENTS 2 & 4)

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 025721

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 5-14-91 | 6-5-91 | 6-18-91 | 7-10-91 | 7-12-91 | 8-15-91 | 8-16-91 | 9-4-91

SHEET 8 OF 18

ClibPDF - www.fastio.com

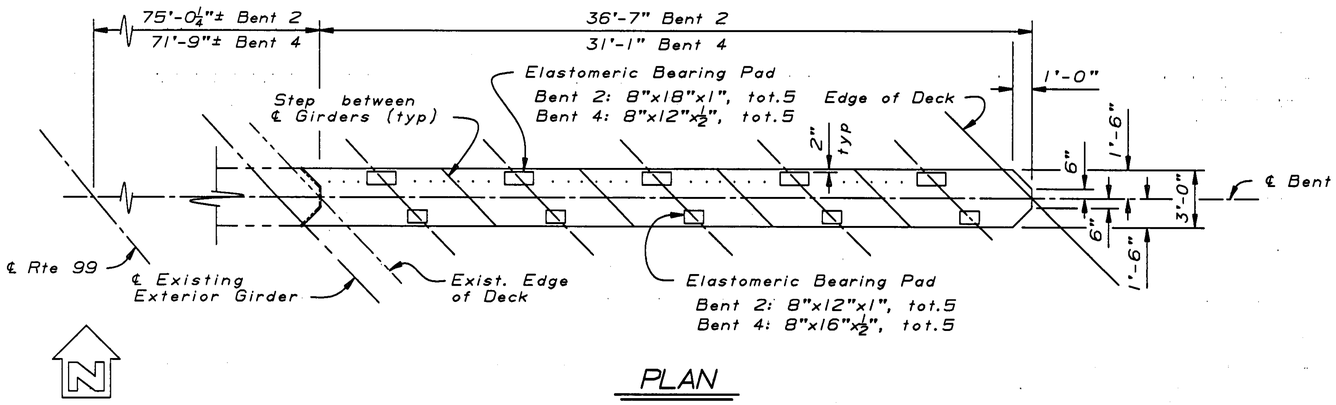
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	180,99	R56.2/R58.4, 21.4/R22.3	327	635

AS BUILT
CORRECTIONS BY Thor Larsen
CONTRACT NO. 06-025724
DATE 10-5-95
WAR 5-28-96

REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — G. Joe — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

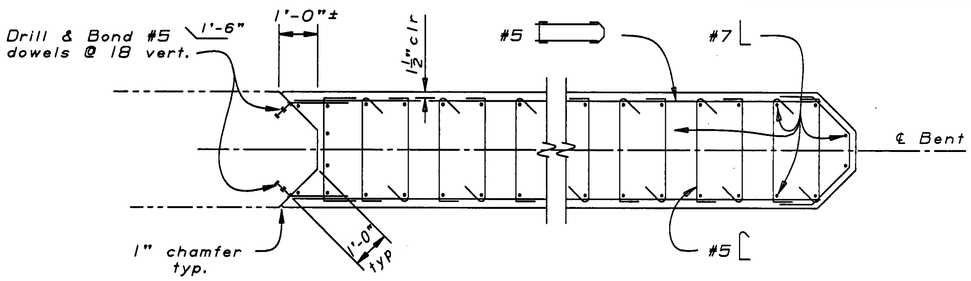
1-20-92
PLANS APPROVAL DATE



PLAN

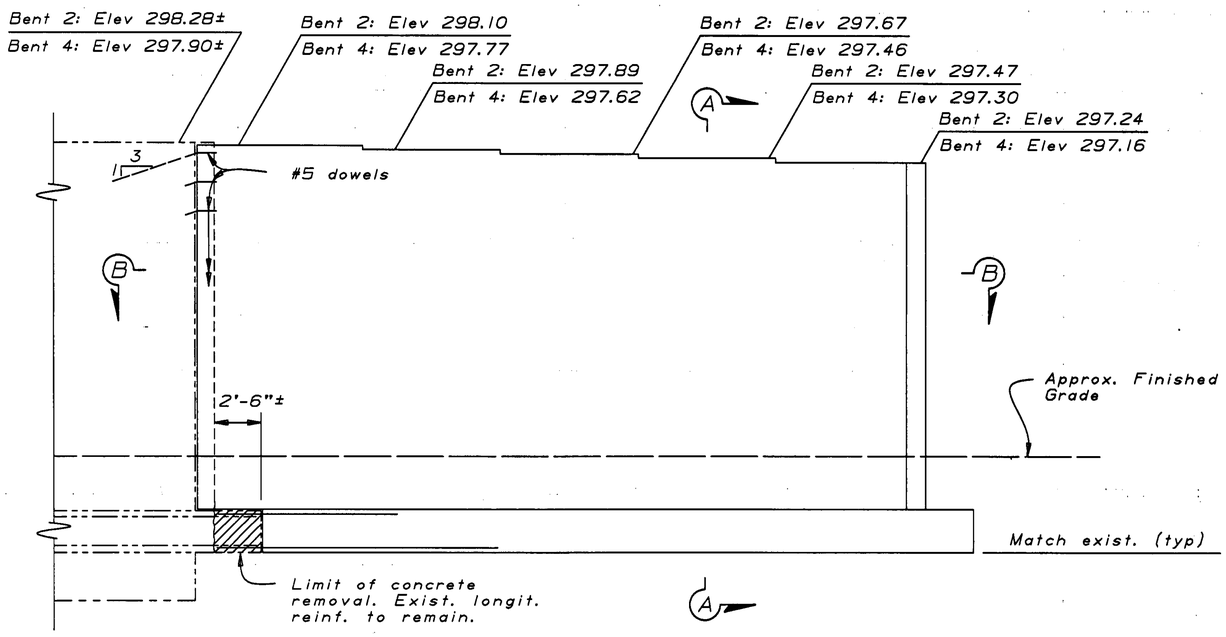
1/4"=1'-0"

Note; Bent 4 shown, Bent 2 similar except as noted.



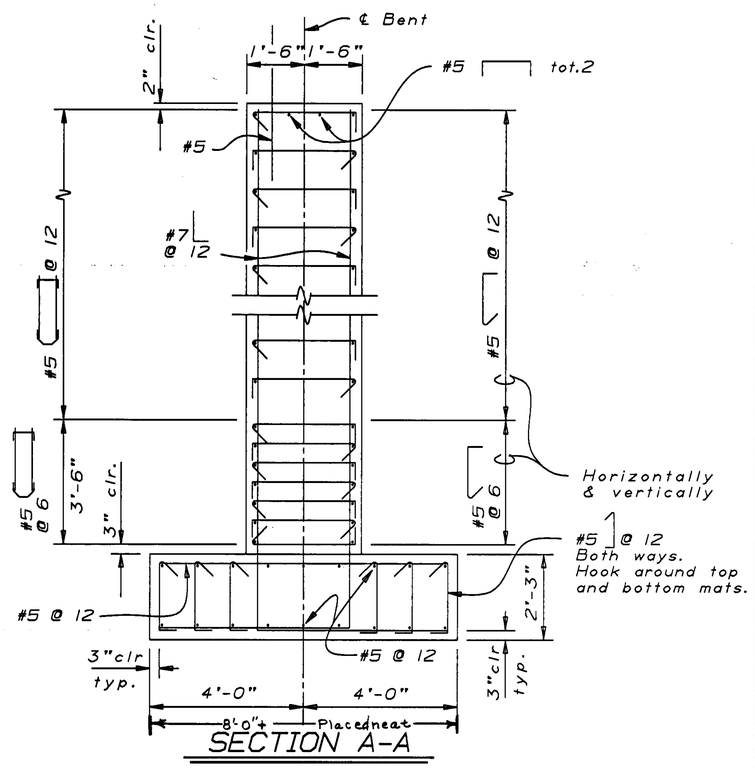
SECTION B-B

1/2"=1'-0"



ELEVATION

1/4"=1'-0"



SECTION A-A

1/2"=1'-0"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

Note:
Alternate orientation of 135° hooks horizontally and vertically as shown.

DESIGN	BY M. Whiteside 3-91	CHECKED M. Van De Pol 6-91	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9	BRIDGE NO. 42-188R
DETAILS	BY L. Good 3-91	CHECKED M. Van De Pol 6-91			POST MILE 22.1
QUANTITIES	BY Norbert Gee 7-91	CHECKED Tom Ruckman 7-91			

NIELSEN AVE. UNDERCROSSING (WIDEN)

BENTS 2 & 4

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 025721

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 3-28-91 | 4-12-91 | 5-18-91 | 7-22-91 | 8-18-91 | 9-4-91

SHEET 4 OF 18

ClibPDF - www.fastio.com

FED. ROAD DIST. NO.	STATE	ROUTE No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
2	CAL.	U-5178 (3)		44	162

DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	99	21.3/27.3	140	140

DATE APPROVED February 2, 1987

BRIDGE DEPARTMENT

GEOTECHNICAL BRANCH - TRANSPORTATION LABORATORY

John L. Reynolds #165
ENGINEER GEOLOGIST — CERTIFIED ENGINEERING GEOLOGIST NUMBER

DATE APPROVED

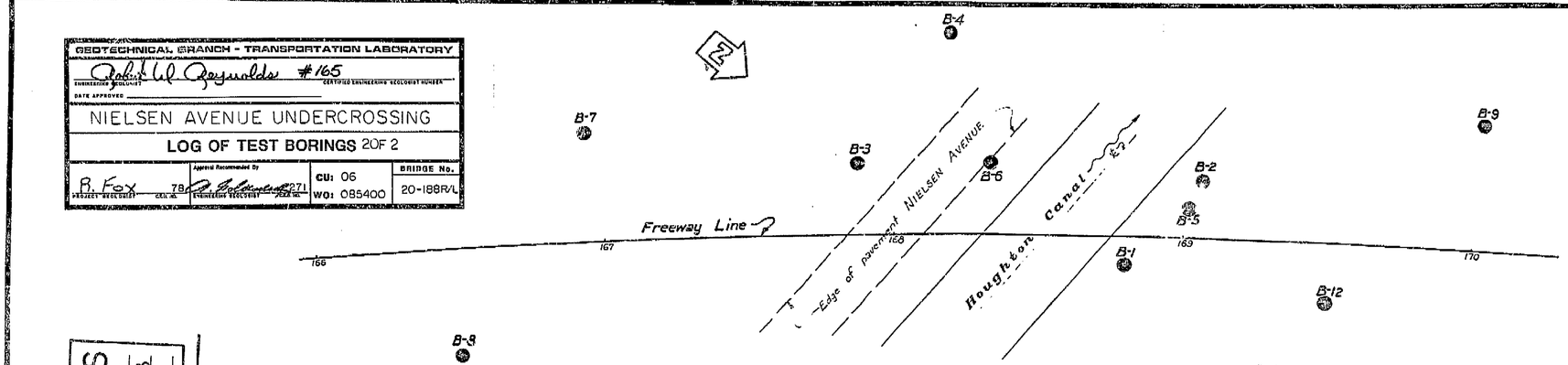
NIELSEN AVENUE UNDERCROSSING

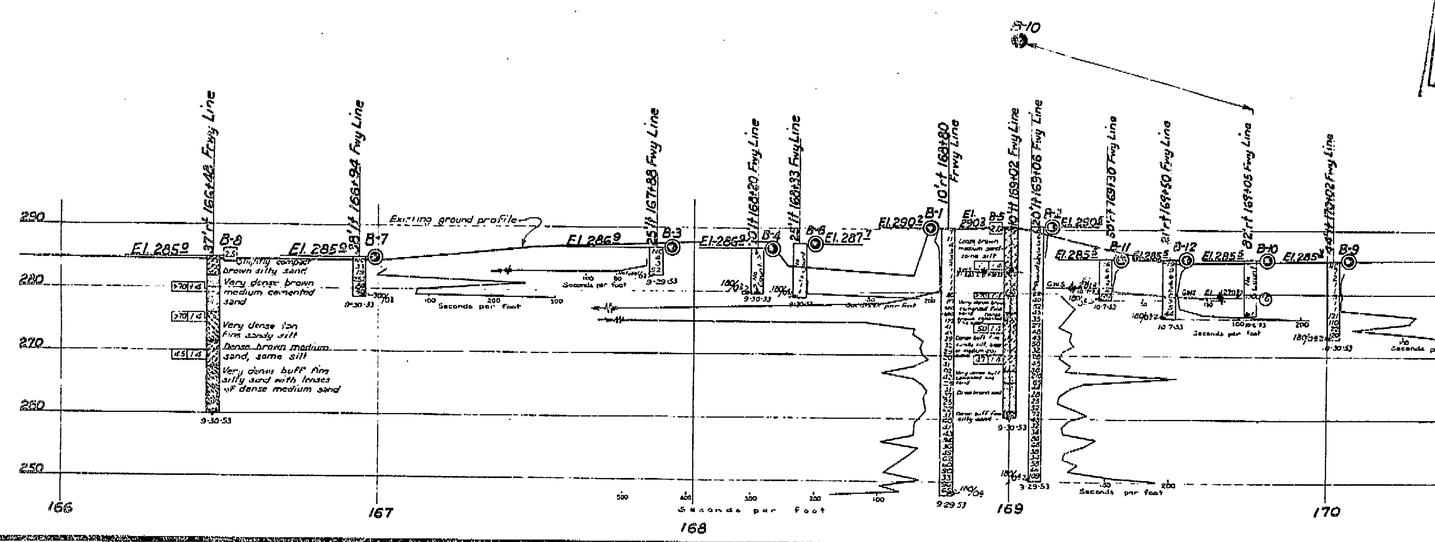
LOG OF TEST BORINGS 2OF 2

R. Fox PROJECT ENGINEER — CAL. NO. 78	Approval Recommended By: ENGINEER GEOLOGIST — CAL. NO. 271	CU: 06 WO: 085400	BRIDGE No. 20-188R/L

AS BUILT PLANS
Contract No. Dist-085404
Date Completed 12/06/88
Document No.

FIELD STAFF: E.C. Hurst '86; R.A. Garner '86; C. Mitchell '86
DESIGN:
CHECKED:
Approved Revisions Not Shown: C. Mitchell 6-1-89
Quantities Not Shown:
Contract Change Orders Not Shown:





B M
1" iron pipe, located approximately 70' ft. S15 7+50 ½ section line - S 89°-33'-04" W Elev 288.91

NO AS BUILT CHANGES
[illegible] 1-30-89
[illegible] R.A. YARGER
CONTRACT No. 06: 085409
DATE 12-6-88

Note: Groundwater measured in B-5, B-10 & B-11 is seepage from Houghton Canal
No groundwater was encountered during drilling operations.

AS BUILT
NO CORRECTIONS
DATE 1-11-89

CLASSIFICATION OF MATERIAL, BASED ON STANDARD GRADE SIZE LIMITS

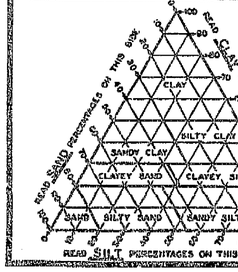


DIAGRAM SHOWING THE BASIS FOR ESTIMATES OF GRADE SIZE DISTRIBUTION USED IN DETERMINATION OF CLASS NAMES

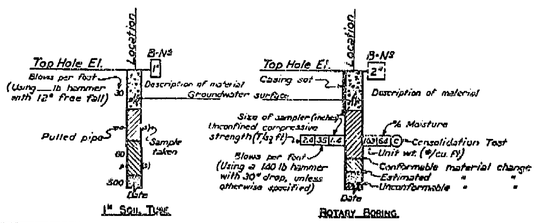
IF GRAVEL IS PRESENT IN APPRECIABLE AMOUNTS THE TERM "GRAVELLY" MAY BE ADDED TO THE CLASS NAME, VIS. "GRAVELLY SAND." THE TERMS "COARSE," "MEDIUM" AND "FINE" WHEN USED TO DESCRIBE GRAVEL, SAND AND SILT REFER TO STANDARD GRADE SIZE LIMITS.

LEGEND OF EARTH MATERIALS

- GRAVEL
- SAND
- SILT
- CLAY
- SANDY CLAY OR CLAYEY SAND
- SANDY SILT OR SILTY SAND
- SILTY CLAY OR CLAYEY SILT
- PEAT AND/OR ORGANIC CLAY
- FILLED MATERIAL
- IGNEOUS ROCK
- SEDIMENTARY ROCK
- METAMORPHIC ROCK

LEGEND OF BORING OPERATIONS

- PLAN OF ANY BORING
- PENETROMETER
- 2½" CORE PENETROMETER
- SAMPLER BORING (DRY)
- ROTARY BORING (WET)
- AUGER BORING (DRY)
- JET BORING
- CORE BORING
- TEST PIT



NOTES

THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 2, ARTICLE (c) OF THE STANDARD SPECIFICATIONS AND TO THE SPECIAL PROVISIONS ACCOMPANYING THIS SET OF PLANS. CLASSIFICATION OF EARTH MATERIAL AS SHOWN ON THIS SHEET IS BASED UPON FIELD INSPECTION AND IS NOT TO BE CONSTRUED TO IMPLY MECHANICAL ANALYSIS. PENETROMETER BORINGS HAVING A RATE OF PENETRATION MEASURED IN SECONDS PER FOOT ARE DRIVEN WITH A № 2 McKIERNAN-TERRY AIR HAMMER AT 115 PSI.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

NIELSEN AVENUE UNDERCROSSING

LOG OF TEST BORINGS 2 OF 2

SCALE: VERT. 1"=20' HOR. 1"=10'	BRIDGE 42-188	FILE E-[illegible]	DRAWING E-3508-24

AS BUILT PLANS
Contract No. 06-67C1
Date Completed
Document No. 60000980

FED. DRAWING No. P-3508 (3)

SHEET 21 OF 21

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 12-14-89 SIGNATURE Donald Blackford TITLE SUPERVISOR OF MICROFILM SERVICES

ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	21.3/27.3	139	140

Roderick G.O. Reynolds #165
BRIDGE ENGINEERING GEOLOGIST — CIVIL ENGINEERING GEOLOGIST NO.

DATE APPROVED: February 2, 1987

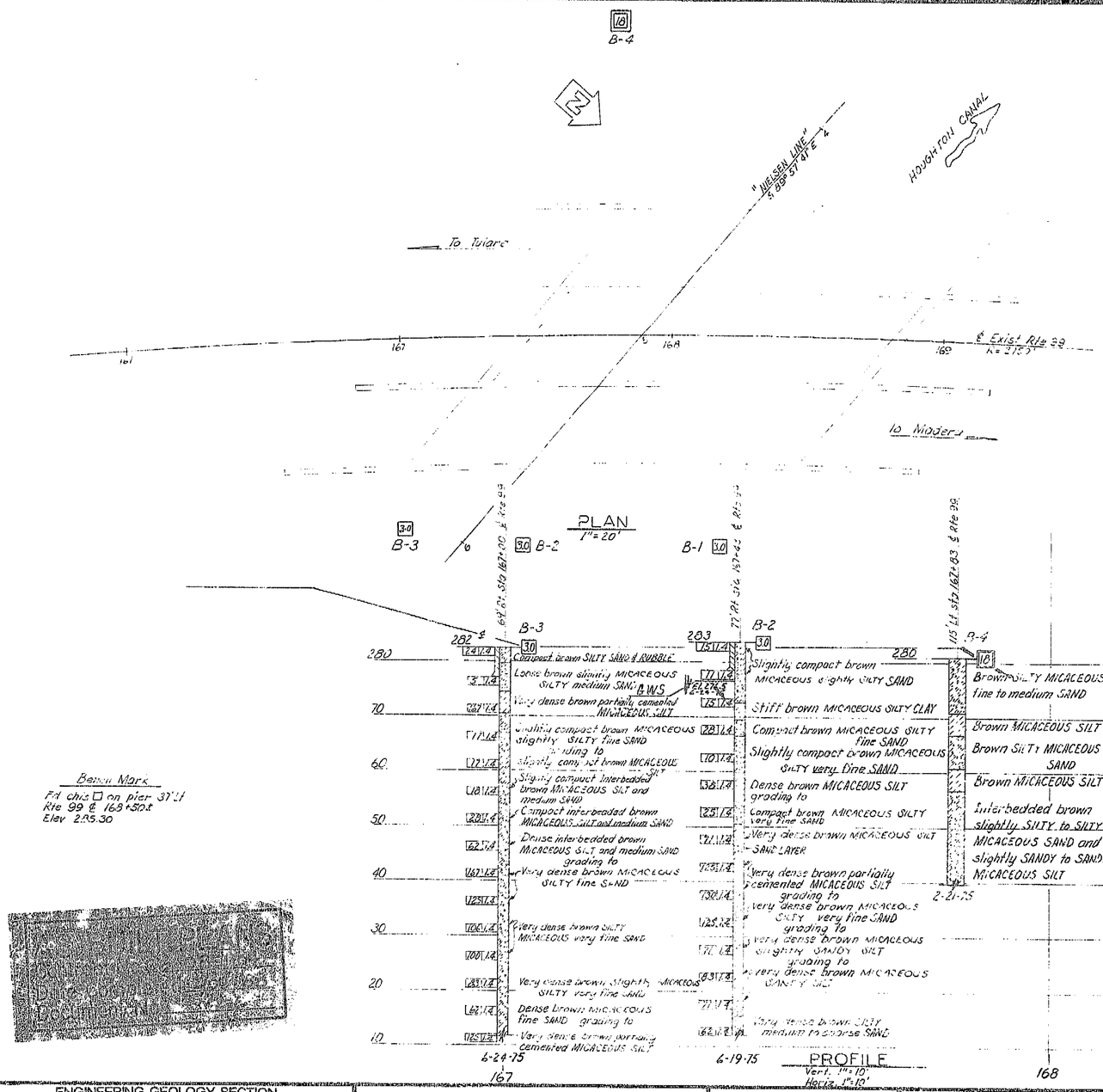
NO AS BUILT CHANGES

AS BUILT as of 1-30-89

CORRECTIONS BY RA YAEGER

CONTRACT NO. 06-085909

DATE 12-6-88



LEGEND OF BORING OPERATIONS

ROTARY BORING — AUGER BORING — SAMPLER FORMS (DRY) — 2½" I.D. CONE PENETROMETER — 1" I.D. TUBE — SAMPLER FORMS (WET) — JET BORING — CORE BORING — TEST PIT — PENETRATION BORING

LEGEND OF EARTH MATERIALS

GRAVEL — SAND — SILT — CLAY — SILTY CLAY or CLAYEY SILT WITH ORGANIC MATTER — FILL MATERIAL — IGNEOUS ROCK — SEDIMENTARY ROCK — METAMORPHIC ROCK — SANDY CLAY or CLAYEY SAND — SANDY SILT or SILTY SAND

SOIL AND ROCK CLASSIFICATION FOR SOILS

According to the Standard Penetration Test

Penetration Resistance (Blows/Ft.)	Granular	Cohesive
0-5	Very loose	Very soft
5-15	Loose	Soft
15-30	Slightly compact	Stiff
30-50	Compact	Very stiff
50-70	Dense	Hard
70	Very dense	

NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

UNIFIED SOIL CLASSIFICATION SYSTEM

Major Divisions		Typical Names	Laboratory Classification Criteria
Coarse-grained Soils: More than half of material is larger than No. 200 sieve size	Gravels: More than half of coarse fraction is larger than No. 4 sieve size	GW — Well-graded gravels, gravel-sand mixtures, little or no fines	
		GP — Poorly-graded gravels or gravel-sand mixtures, little or no fines	
		GM — Silty gravels, gravel-sand-silt mixtures	
		GC — Clayey gravels, gravel-sand-clay mixtures	
	Sands: More than half of coarse fraction is smaller than No. 4 sieve size	SW — Well-graded sands, gravelly sands, little or no fines	
		SP — Poorly-graded sands or gravelly sands, little or no fines	
		SM — Silty sands, sand-silt mixtures	
		SC — Clayey sands, sand-clay mixtures	

Boring Data

Boring No.	Date Drilled	Hole Elevation	Hole Location	Hole Inclination	Total Depth of Hole	Depth to Water	Logged By	Checked By
B-1	6-3-75	285	76'Rt Sta 168+20 ℄ Rte 99	Vertical	26.1	12.1	R.A. YAEGER	
B-2	6-19-75	283	77'Rt Sta 167+83 ℄ Rte 99	Vertical	75.1	26.2	R.A. YAEGER	
B-3	6-24-75	282	69'Rt Sta 167+00 ℄ Rte 99	Vertical	74.1	24.6	R.A. YAEGER	
B-4	2-21-75	285	115'Lt Sta 169+00 ℄ Rte 99	Vertical	26.1	12.1	R.A. YAEGER	

ENGINEERING GEOLOGY SECTION

FIELD STUDY	By	Approval Recommended By	
DRAWN	By BANKS 10-75		
CHECKED	By 1-76	ENGINEERING GEOLOGIST	CERTIFIED ENGINEERING GEOLOGIST NUMBER 78

State of CALIFORNIA
DEPARTMENT OF TRANSPORTATION

OFFICE OF STRUCTURES
DESIGN GROUP 12
PROJECT ENGINEER

BRIDGE NO. 42-188 R/L
POST MILE 22.1

NIELSEN AVENUE UNDERCROSSING

LOG OF TEST BORINGS 1 OF 2

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06
WO 085400

Disregard prints bearing earlier revision dates

REVISION DATES (PRELIMINARY STAGE ONLY)

DRAWING NO. 20 OF 21

139

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 3-14-89 SIGNATURE Donald Blount TITLE SUPERVISOR OF MICROFILM SERVICES

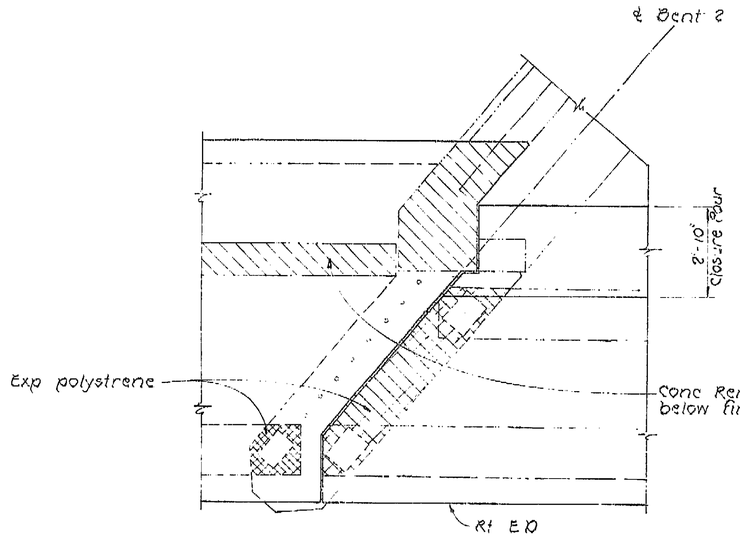
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	21.3/27.3	136	140

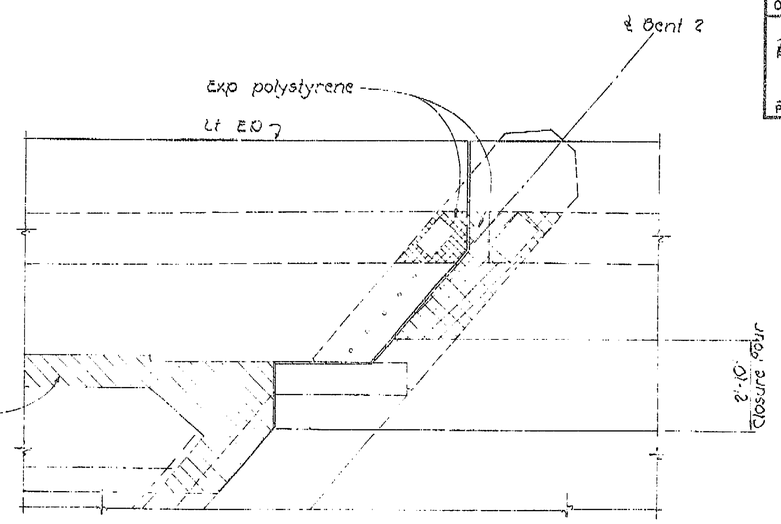
R A Rogerson
REGISTERED ENGINEER - CIVIL

February 2, 1987
PLANS APPROVAL DATE

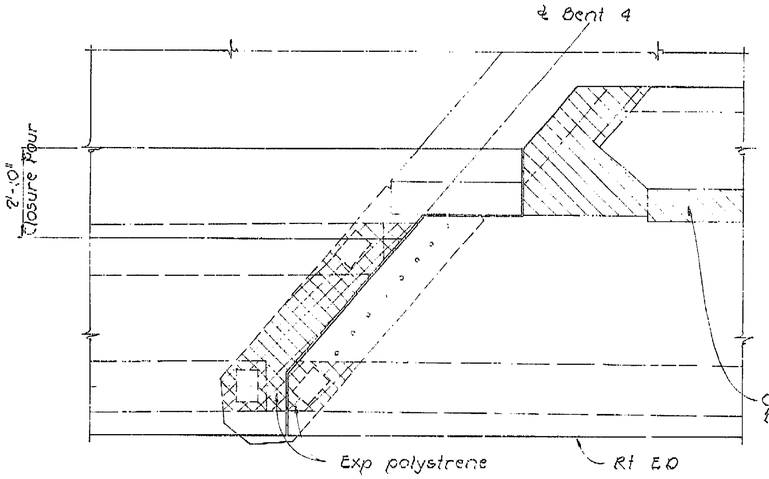
REGISTERED PROFESSIONAL ENGINEER
R A ROGERSON
No. 25712
Exp. 12-31-89
CIVIL
STATE OF CALIFORNIA



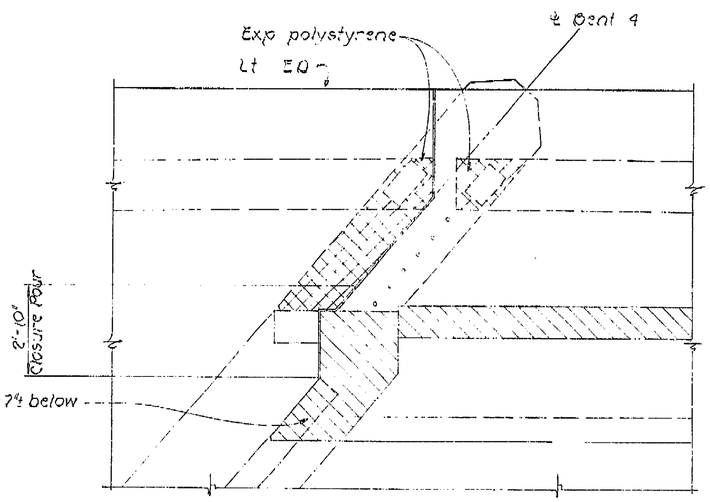
OBTUSE CORNER



ACUTE CORNER



ACUTE CORNER



OBTUSE CORNER

NO AS BUILT CHANGES

AS BUILT 1-30-89

CORRECTIONS BY M. YOUNGER

CONTRACT NO. 06-085404

DATE 12-6-88

PART PLANS

½" = 1'-0"

(50-13 13-1) (50-13 13-2)

DESIGN	By Allen Tsuno 8/86	Checked Jim Hey 8/86	State of CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 12	BRIDGE NO. 42-188 R/L
DETAILS	By T. Uyeno 8/86	Checked Jim Hey 8/86		Allen Tsuno 34942	POST MILE 26.6
QUANTITIES	By Rand Wilde 8-86	Checked Amer Bata 8-86		PROJECT ENGINEER REGISTERED CIVIL ENGINEER NO.	NIELSON AVE UNDERCROSSING (WIDEN)
		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	CU 06200 EA 085401	Discard prints bearing earlier revision dates →	MISCELLANEOUS DETAILS

REVISION DATES (PRELIMINARY STAGE ONLY) | SHEET 17 | OF 21

08 060 2139 (6/86)

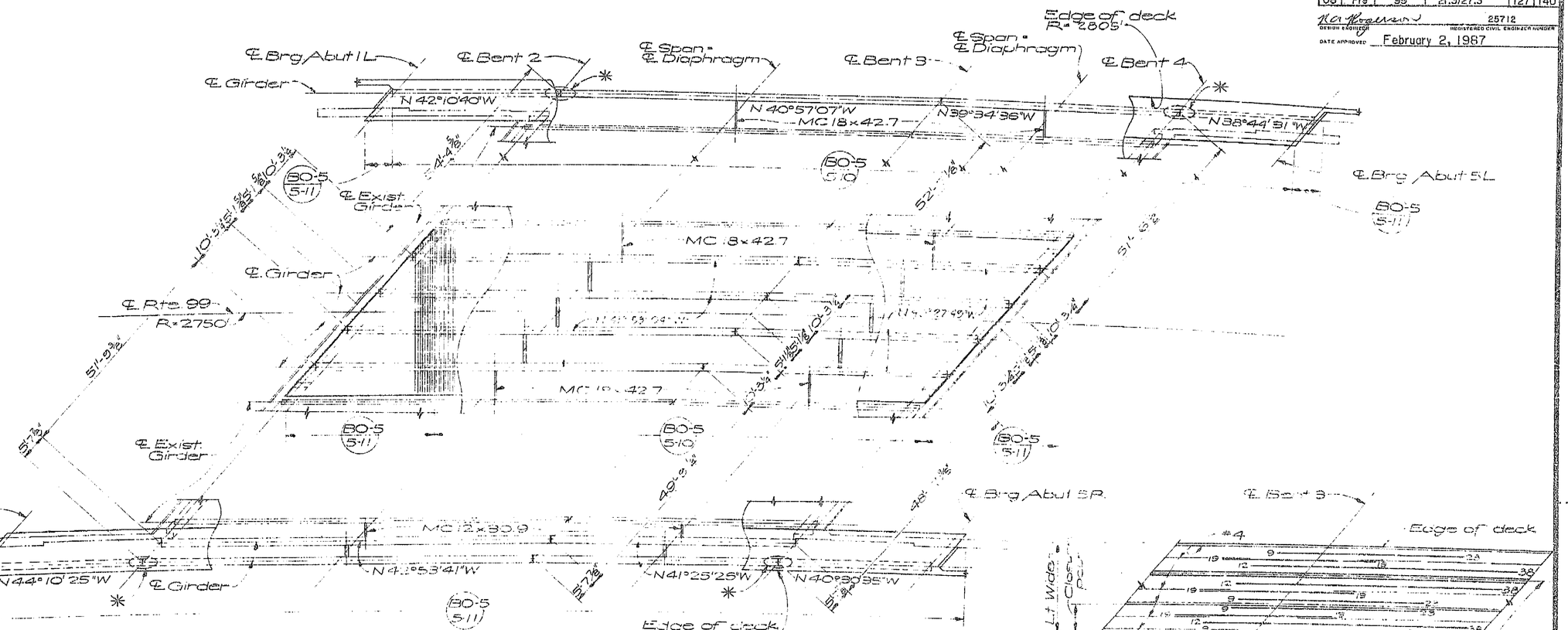
I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 12-14-88 SIGNATURE Donald Blackford TITLE SUPERVISOR OF MICROFILM SERVICES

ClibPDF - www.fastio.com

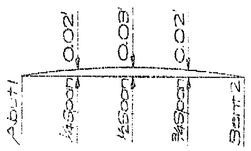
DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	21.3/27.3	127	140

R.A. Krause 25712
DESIGN ENGINEER — REGISTERED CIVIL ENGINEER NUMBER
DATE APPROVED February 2, 1987



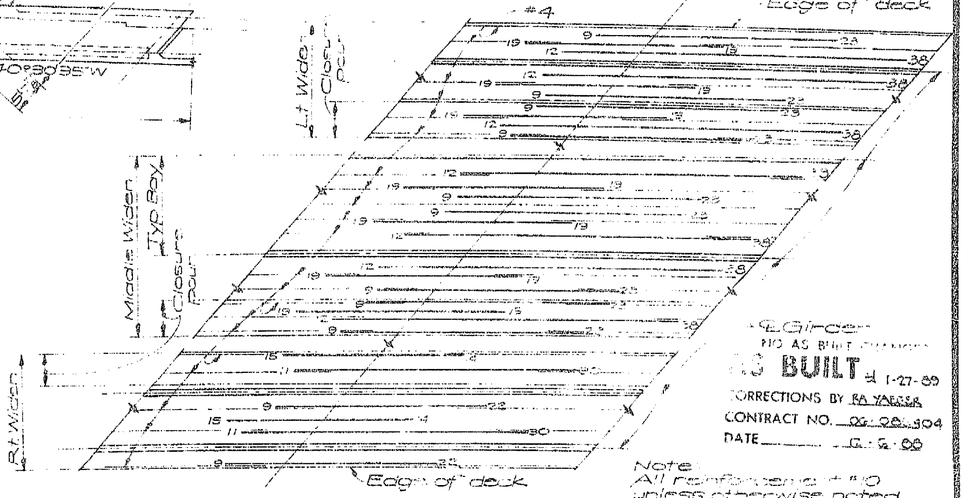
GIRDER LAYOUT
3/32"=1'-0"

* - Location of restrainer unit. For details, see "Restrainer Unit Type 5-Precast Girder" sheet.



Span 1 shown, Span 4 similar

CAMBER DIAGRAM SPANS 1 & 4
Does not include allowance for falsework settlement



GIRDER REINFORCEMENT
No Scale

Note
All reinforcing #10 unless otherwise noted. Numbers at ends of bars indicate distance in feet from ℄ Bent.

℄ Girder
AS BUILT 1-27-89
CORRECTIONS BY RA YEARSA
CONTRACT NO. 06-06-304
DATE 6-6-88

AS BUILT PLANS
Contract No. 06-06-304
Date Completed 1/06/89
Document No.

NOTE:
IMF CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

127

DESIGN	W. Hwang 5/86	Checked	W. Hwang 5/86
DETAILS	R.K. Wong 5-86	Checked	Amer Bata 5-86
QUANTITIES	By Ramil Valdez 5-86	Checked	Amer Bata 5-86

State of CALIFORNIA DEPARTMENT OF TRANSPORTATION

STRUCTURES - DESIGN 12
W. Hwang 34742
PROJECT ENGINEER — REGISTERED CIVIL ENGINEER NO.

BRIDGE NO. 42-188 R/L
POST MILE 26.6

NIELSEN AVE UNDERCROSSING (WIDEN)
GIRDER LAYOUT

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
WO 035401

Disregard prints bearing earlier revision dates

DIVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 8 OF 21

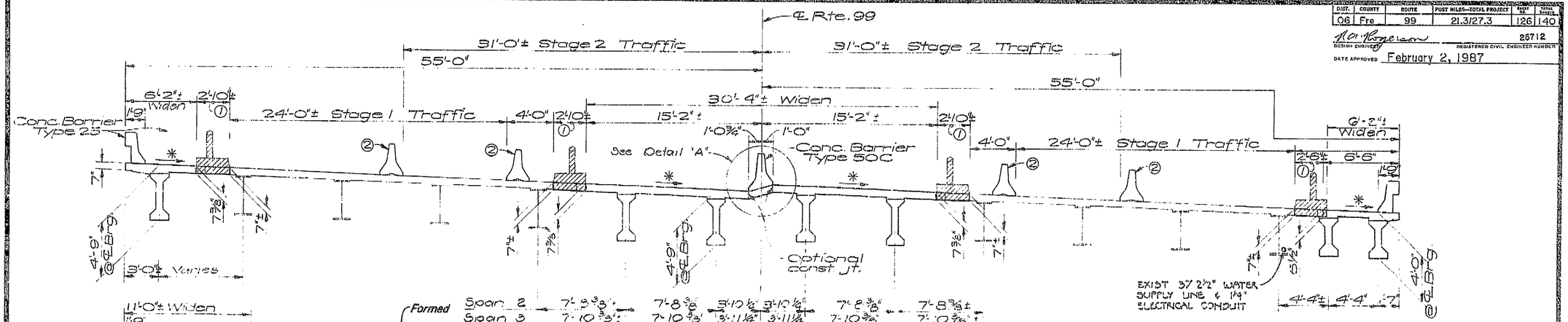
I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 3-14-89 SIGNATURE Donald Blackford SUPERVISOR OF MICROFILM SERVICES

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DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	21.3/27.3	126	140

Alan Nielsen — 25712
DESIGN ENGINEER — REGISTERED CIVIL ENGINEER NUMBER
DATE APPROVED February 2, 1987



AS BUILT ✓ 1-27-89
CORRECTIONS BY RA YAEGER
CONTRACT NO. 06-285404
DATE 12-6-88

Notes:
① Closure pour
② Temporary Railing (Type K)
▨ Remove exist. curb. Salvage steel railing.
✳ Match exist. grade & x-slope
Dimensions shown are measured radially. For reinf not shown, see "Girder Layout" sheet.
③ Type AL Seal (86-21)

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	BY Allen Tsang 4-86	Checked Johnny Kung 4/86	
DETAILS	BY R.K. Wong 4-86	Checked Johnny Kung 4/86	
QUANTITIES	BY Ramel Habib 5-86	Checked Amer Bata 5-86	

State of CALIFORNIA
DEPARTMENT OF TRANSPORTATION
STRUCTURES - DESIGN 12
PROJECT ENGINEER — REGISTERED CIVIL ENGINEER
Allen Tsang 3/19/87

BRIDGE NO. 42-188R/L
POST MILE 26.6

NIELSEN AVE UNDERCROSSING (WIDEN)
TYPICAL SECTION

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3
CU 082201
WO 285401
Disregard prints bearing earlier revision dates
REVISION DATES (PRELIMINARY STAGE ONLY)
SHEET 7 OF 21

126

AS BUILT PLANS
Reflecting No Change
Caltrans Contract No. 06-285404
Document No.

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THE DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.
DATE 2-14-89 SIGNATURE Donald Blackfield TITLE SUPERVISOR OF MICROFILM SERVICES

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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	21.3/27.3	125	140

R A Rogerson
REGISTERED ENGINEER - CIVIL

February 2, 1987
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
R A ROGERSON
No. 25712
Exp. 12-31-89
CIVIL
STATE OF CALIFORNIA

Expanded polystyrene, same thickness as brg pad

Level Typ.

.064" thick galv sheet metal 2" larger than brg pad all around. Grease top of brg pad.

Brg pad

70'-9½" Bent 4
73'-9½" Bent 2

8'-10½"± Bent 4
9'-2¾"± Bent 2

Bent 2 : Elev. ~~308.28~~ ± 305.91 ±
Bent 4 : Elev. ~~308.28~~ ± 304.90 ±

1'-0"

6"± 4@12 6"±

1'-6"

3'-0"

1'-6"

* DRILL & BOND 1⅛" ø x 7" HOLE FOR #7 7" L TOT 4

* @ 12

℄ Girder = ℄ Brg. pad

Elastomeric brg. pad
Bent 2 : 10"×16"×1"
Bent 4 : 8"×16"×1"

Bent 2 : Elev. 305.29±
Bent 4 : Elev. 304.58±

Elastomeric brg. pad
Bent 2 : 8"×14"×¼"
Bent 4 : 8"×14"×¼"

Bent 2 : Elev. ~~308.78~~ ±
Bent 4 : Elev. ~~308.07~~ ±

306.78 ±
305.53 ± *

14"

#5 dowels

* DRILL & BOND 1⅛" ø x 7" HOLE FOR #7 7" L TOT 14

* DRILL & BOND 1⅛" ø x 7" HOLE FOR #7 7" L TOT 4

D — D

Note: Omit step at Bent 2 footing

* CCO #35

PLAN
¼"=1'-0"

℄ Rte. 99

Bent 2 : Elev. 305.01±
Bent 4 : Elev. 304.33±

SECTION A-A
1"=1'-0"

Bent 2 : Elev. 305.96±
Bent 4 : Elev. 304.67±

71'-9" Bent 4
75'-0¼" Bent 2

Elastomeric brg. pad
Bent 2 : 12"×16"×1", tot. 4
Bent 4 : 10"×16"×1", tot. 4

Bent 2 : Elev. 305.05±
Bent 4 : Elev. 304.42±

B — B

Bent 2 : Elev. 308.21±
Bent 4 : Elev. 307.98±

9'-1"± Bent 4
9'-6"± Bent 2

4½"

℄ Bent 4

Elastomeric brg. pad
Bent 2 : 8"×12"×¼"
Bent 4 : 8"×12"×¼"

Bent 2 : Elev. 308.25±
Bent 4 : Elev. 307.98±

4'-3"
5'-1"

Bent 4
Bent 2

Elastomeric brg. pad
Bent 2 : 10"×14"×1" tot. 2
Bent 4 : 8"×12"×1" tot. 2

Bent 2 : Elev. 303.08±
Bent 4 : Elev. 302.85

C — C

#5 dowels @ 18

3

E — E

Note: Step at Bent 2 footing

2'-6" Typ

Drill & bond 1⅛"±x6" hole for #5 ~~1.50~~ dowels @ 18

ELEVATION
¼"=1'-0"

#5 c.f.

2'-0"

#5

#7 L

1" chamfer, Typ.

℄ Bent

For details not shown see Section "D-D"

SECTION D-D
½"=1'-0"

SECTION E-E
½"=1'-0"

* Remove exist backwall to 2'-6" below new top of deck and 2'-6" min from exist top of backwall.

#7 ⊥ @ 3'-0" Typ

℄ Bent 4

#7 L

Exist. footing

FOOTING PLAN
¼"=1'-0"

℄ Bent

1'-9"
#5 @ 18
#6 tot 3
#7 tot 5
#2'-6" x var
1'-0"
Vertical bars to remain.
2'-0"
6"
9"
1'-6"
Cut exist rebar
2"x3" Drain groove
Expanded polystyrene Brg. pad
#6 tot 4
5" min
2'-9" Drain @ 15'± Match exist.
Drill & bond 1½"ø x 6" hole for #5 ~~1.50~~ dowels @ 18

SECTION B-B
½"=1'-0"

1'-6" 1'-6"
℄ Bent
#5 @12
#7 ⊥ @12
#5 @6
2'-6"
#5 @12
#5 tot. 10
3'-9"
3'cl Typ.
Horizontally & vertically

SECTION C-C
½"=1'-0"

AS BUILT 1-27-89
CORRECTIONS BY RA ROGERSON
CONTRACT NO. 06-065404
DATE 12-6-88

Notes:
Elevations shown above to be verified by Engineer. Bent 4 shown. Bent 2 similar.

▨ Remove parapet wall, curb & portion of backwall. Salvage steel railing.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

⊗ Cross ties shall have a 135° hook on one end and a 90° hook on the opposite end. Cross ties shall be placed so that 90° and 135° hooks of adjacent ties, horizontally and vertically, shall be alternated.

125

DESIGN	By Ven Truong 7/86	Checked Ramesh Khanna 8/86	
DETAILS	By R.K. Wong 7-85	Checked Ramesh Khanna 8/86	
QUANTITIES	By Ronal Hilde 8-86	Checked Amer Bata 8-86	

State of CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 12
PROJECT ENGINEER — REGISTERED CIVIL ENGINEER NO. 34942

BRIDGE NO. 42-188R
POST MILE 26.6

NIELSEN AVE UNDERCROSSING (WIDEN)
BENTS 2 & 4 DETAILS

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS
0 1 2 3

06200
EA 085401

Discard prints bearing earlier revision dates →

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 6 OF 21

DS 050 2139 (2/85)

AS BUILT
Contract Accepted
Date Completed 12-6-88
Document No.

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION

DATE 2-14-89 SIGNATURE Ronald O Blackford TITLE SUPERVISOR OF MICROFILM SERVICES

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DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	21.3/27.3	123	140

R A Yaeger — 25712
DIVISION ENGINEER — REGISTERED CIVIL ENGINEER NUMBER
DATE APPROVED February 2, 1987

NO AS BUILT CHANGES
AS BUILT
CORRECTIONS BY R.A. YAEGER 1-27-89
CONTRACT NO. 06-005304
DATE 12-6-88

NOTE:
ALL BARS NO 9 EXCEPT AS NOTED.
NUMBERS AT ENDS OF BARS INDICATE LENGTH IN FEET FROM ℄ BETWEEN COLUMNS FOR BOTTOM REINFORCEMENT AND ℄ OF COLUMN FOR TOP REINFORCEMENT.
=⊗= DENOTES BUNDLED BARS

℄ Column — Cont. — ℄ Interior Column — ℄ Column — Symmetrical about ℄ Interior Column — Cont.

TOP — BOTTOM

BENT CAP REINFORCEMENT
1/4"=1'-0"

10'-2⅛" — 2'-0" Typ — 1'-6" Typ — ℄ Bent 3 — ℄ Column — 23'-8½"± — 21'-2½"± — 10'-4⅜" — ℄ Interior Column — 10"x16"x¼" Elastomeric brg pad, tot 5 — 8"x12"x¼" Elastomeric brg pad, tot 2 — 11'-3" — 6'-3" — 5'-0" — 1'-0" — 71'-10⅝" = ℄ Brg pad — ℄ Girder — 1-9 1'-6" Typ — ℄ Rte 99 — 4"x1½" key, for details see "Bent 3 Details No. 2" sheet — 72'-11⅜" — 12"x16"x¼" Elastomeric brg pad, tot 5 — 10"x14"x¼" Elastomer brg pad, tot 2

PLAN
1/4"=1'-0"

Elev. 305.50± — #5 dowels, Typ — Reinf symmetrical about ℄ Interior Column — Elev. 304.14± — Elev 303.89± — Elev. 304.25± — Elev. 303.91± — Elev 303.34± — Elev 303.17±

2-#7 L — #5 ⊗ stirrup spacing @12 — 8@9 — @24 — 8@9 — @12 — 3" — 3'-0" — Elev. 290.0 — #4 spiral @3½ (Lap splices not allowed) — 8'-9¼" Typ — Elev. 290.0 — 2-#7 L

Top of exist canal — Floor of exist. canal — 2'-6" Typ — Elev 278.5 — #5 tot. 4, Typ. — Exist longit reinf to remain. — Elev 278.5

ELEVATION
1/4"=1'-0"

℄ Bent — 1'-6" — 1'-6" — #7 ⊗ @12 — #5 @ 2'-6" — #5 @12 — #5 cont; tot. 10 — 3'-0" — 3'-0" — 3'cl, Typ — 2'-6" — 3'cl, Typ — Horizontally & vertically ⊗

⊗ Cross ties shall have a 135° hook on one end and a 90° hook on the opposite end. Cross ties shall be placed so that 90° and 135° hooks of adjacent ties, horizontally and vertically, shall be alternated.

▨ Denotes conc. removal

Notes:
For Sections "F-F" & "G-G" see "Bent 3 Details No. 2" sheet.
Elevations shown above to be verified by the Engineer.

SECTION A-A
1/2"=1'-0"

℄ Bent — 1'-6" — 1'-6" — 1" Chamfer — Top Bent Cap Reinforcement #9 tot. 10 — #5 — 1'-9" lap — 1'-7" — #5 ⊓ @18 — #5 tot. 6 — #9 tot. 7 at Bent Cap Reinforcement

SECTION B-B
1/2"=1'-0"

SECTION C-C
1/2"=1'-0"

℄ Interior Column — #4 spiral — 5", Typ — 3" Typ — ℄ Bent — 1'-6" — #5 tot. 2 — #9 L tot. 20 — 2'-6" — 2'-5"

SECTION D-D
1/2"=1'-0"

℄ Column — 6'-9" — 2'-6" — 2'-6" — 1'-0" — Drill & bond 1⅛" ⌀ holes for #5 ⊓ ⌀ dowels @18 — #9 ⌐ tot 2 — #9 L tot 15 — ℄ Bent — #5 tot 2 — 5'-0" — #9 ⌐ tot 3 — 1'-6" Typ — 1'-6" Typ — 1" Chamfer, Typ — For details not shown see Section "C-C".

SECTION E-E
1/2"=1'-0"

6" — Face of column — 2" — #5 ⊓ — #7 L @12 — #4 spiral — #5 ⊓

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	By Ben Nwosu 5/86	Checked Jim Ley 5/86	State of CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	By R.K.Wong 5-86	Checked Jim Ley 5/86	STRUCTURES - DESIGN 12
QUANTITIES	By Ronal Hebda 8-86	Checked Amar Bath 8-86	Ben Nwosu 34962 PROJECT ENGINEER — REGISTERED CIVIL ENGINEER NO.

BRIDGE NO. 42-1888R
POST MILE 26.6

NIELSEN AVE UNDERCROSSING (WIDEN)
BENT 3 DETAILS NO. 1

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
WO 085401

Destroy all prints bearing earlier revision dates →

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 4 OF 21

123

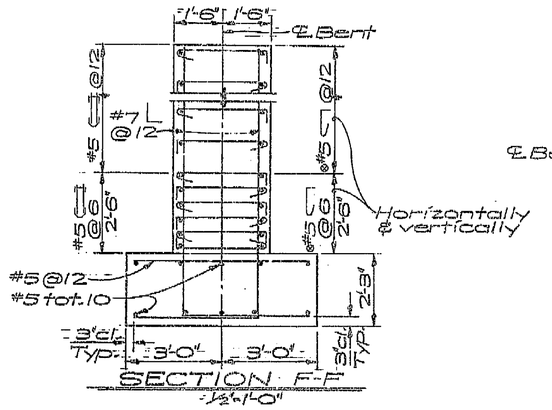
AS BUILT PLANS
Contract
Date Completed
Document No.

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.
DATE 2-14-89 — SIGNATURE Ronald B Blackford — TITLE SUPERVISOR OF MICROFILM SERVICES

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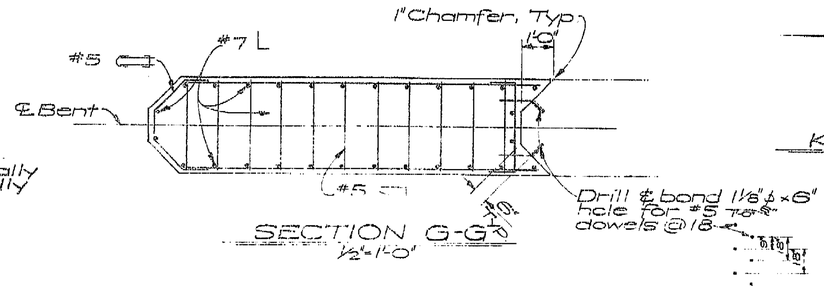
DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre.	99	21.3/27.3	124	140

R A Yaeger — 25712
DESIGN ENGINEER — REGISTERED CIVIL ENGINEER NUMBER
DATE APPROVED February 2, 1987

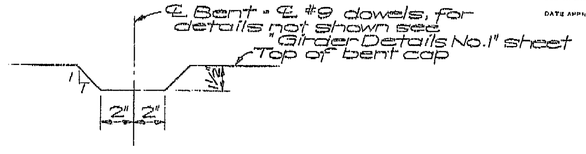


SECTION F-F
1½"=1'-0"

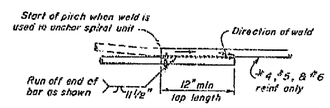
⊗ Cross ties shall have a 135° hook on one end and a 90° hook on the opposite end. Cross ties shall be placed so that 90° and 135° hooks of adjacent ties, horizontally and vertically, shall be alternated.



SECTION G-G
½"=1'-0"

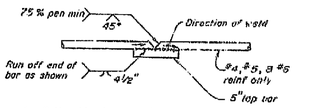


KEY DETAIL
3"=1'-0"



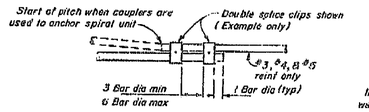
Note: Flare weld to be made in direction shown

WELDED LAP SPLICE AND ANCHOR

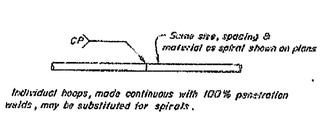


1. Butt weld to be made first.
2. Butt weld to be made in flat or horizontal position.
3. Lap bar to be centered on splice.
4. Flare weld to be made in direction shown.
5. Lap bar to be same size as spiral bar.

VEE GROOVE WELDED SPLICE



MECHANICAL LAP SPLICE AND ANCHOR



Individual hoops, made continuous with 100% penetration welds, may be substituted for spirals.

BUTT WELDED CONTINUOUS HOOP

BAR SPIRAL SPLICE & SPIRAL ANCHOR AND HOOP DETAIL

AS BUILT PLANS
Contract No. 06-089401
Date Completed 12-6-88
Document No.

NO AS BUILT CHANGES
AS BUILT 2) 1-27-89
CORRECTIONS BY RA YAEGER
CONTRACT NO. 06-089401
DATE 12-6-88

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	by Alan Lum 5/86	Checked Dan Ley 5/86	State of CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	by R.K. Word 5-86	Checked Dan Ley 5/86	STRUCTURES - DESIGN 12
QUANTITIES	by Raad Habib 8-86	Checked Amer Bata 8-86	PROJECT ENGINEER — REGISTERED CIVIL ENGINEER NO. 36492

CU 06200
WO 085401

BRIDGE NO. 42-188R
POST MILE 26.6

NIELSEN AVE UNDERCROSSING (WIDEN)
BENT 3 DETAILS NO. 2

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

Disregard prints bearing earlier revision dates

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 5 OF 21

124

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.
DATE 2-14-89 SIGNATURE Donald C. Blackford TITLE SUPERVISOR OF MICROFILM SERVICES

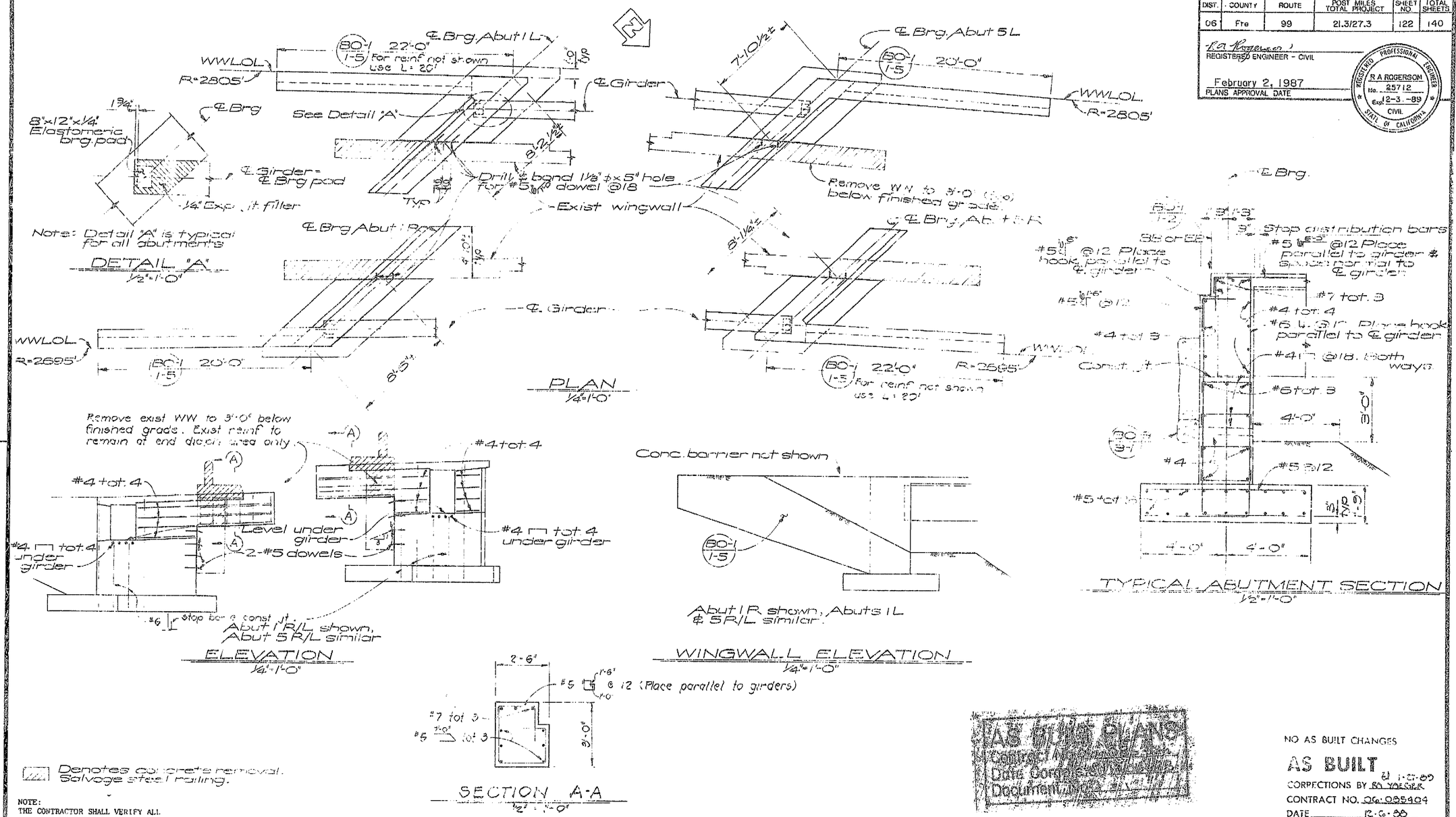
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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	21.3/27.3	122	140

R A Rogerson
REGISTERED ENGINEER - CIVIL

February 2, 1987
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — R A ROGERSON — No. 25712 — Exp. 12-3-89 — CIVIL — STATE OF CALIFORNIA



Denotes concrete removal. Salvage steel railing.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

AS BUILT PLANS
Contract No. 06-055404
Date Corrected 12-6-88
Document No. 2

NO AS BUILT CHANGES

AS BUILT 12-6-88
CORRECTIONS BY BA YOESAK
CONTRACT NO. 06-055404
DATE 12-6-88

DESIGN	By Allen Hwang 7/86	Checked		State of CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 12	BRIDGE NO. 42-1888
DETAILS	By R.K.Wong 7-86	Checked			Allen Hwang 5742 PROJECT ENGINEER REGISTERED CIVIL ENGINEER NO.	POST MILE 26.6
QUANTITIES	By Rand Hilde 8-86	Checked	Amar Bala 8-86			NIELSEN AVE UNDERCROSSING (WIDEN)
						ABUTMENT DETAILS

122

08 050 2139 (2/86)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 066200
EA 055401

Destroy prints bearing earlier revision dates →

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 5 OF 21

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 8-14-89 SIGNATURE Donald C Blackford TITLE SUPERVISOR OF MICROFILM SERVICES

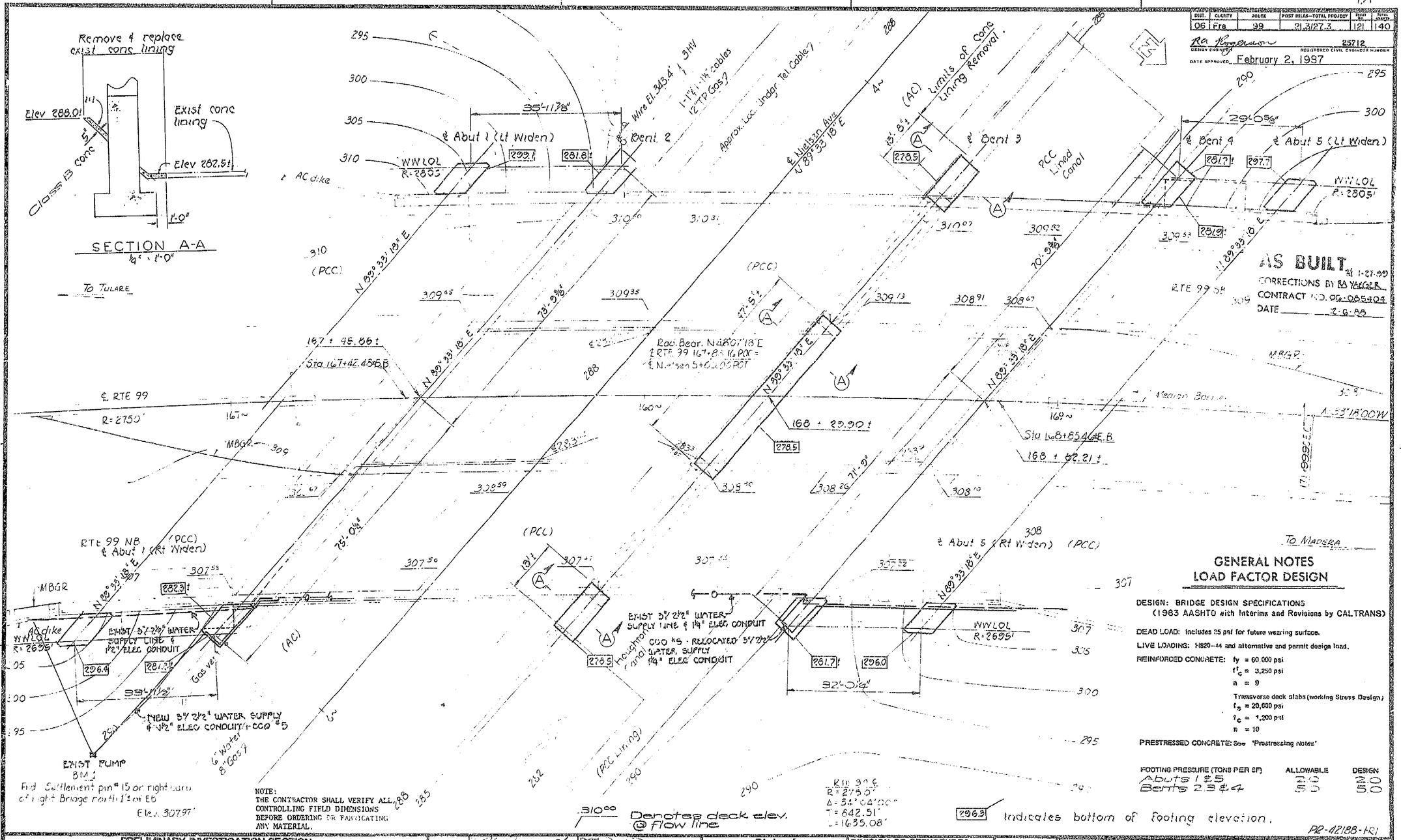
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DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	21.3/27.3	121	140

R A Rogerson — DESIGN ENGINEER — 25712 — REGISTERED CIVIL ENGINEER NUMBER

DATE APPROVED February 2, 1997

To Tulare



NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

AS BUILT
Rf 1-27-99
CORRECTIONS BY RA YARGER
CONTRACT NO. 06-085404
DATE 2-6-98

GENERAL NOTES
LOAD FACTOR DESIGN

DESIGN: BRIDGE DESIGN SPECIFICATIONS (1983 AASHTO with Interims and Revisions by CALTRANS)

DEAD LOAD: Includes 25 psf for future wearing surface.

LIVE LOADING: HS20-44 and alternative and permit design load.

REINFORCED CONCRETE: f_y = 60,000 psi
f'_c = 3,250 psi
n = 9
Transverse deck slabs (working Stress Design)
f_s = 20,000 psi
f_c = 1,200 psi
n = 10

PRESTRESSED CONCRETE: See 'Prestressing Notes'

FOOTING PRESSURE (TONS PER SF)	ALLOWABLE	DESIGN
Abuts 1 & 5	2.0	3.00
Bents 2, 3 & 4	5.5	5.00

PR-42188-R1

PRELIMINARY INVESTIGATION SECTION											
SCALE 1" = 10'	DATUM 'AS Builts'	PHOTOGRAMMETRY AS OF:		DRAWN	BY		DESIGN		Checked		
		SURVEYED	BY DIST.	TRACED	BY		DETAILS		Checked		
ALIGNMENT TIES PR-42188-20		FIELD CHKD	BY TCF 12-85	CHECKED	BY		QUANTITIES	Rand Wilde 8-86	Checked		

State of CALIFORNIA — DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES — STRUCTURE DESIGN 12

PROJECT ENGINEER — REGISTERED CIVIL ENGINEER NO.

BRIDGE NO. 42-188 R/L

POST MILE 26.6

NIELSEN AVE UNDERCROSSING (WIDEN)

FOUNDATION PLAN

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
WO 08542

Disregard prints bearing earlier revision dates

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 2 OF 21

DS D145 (Rev 6/86)

AS BUILT PLANS
Contract No. 06-085404
Date Completed 12/06/88
Document No.

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 3-19-99 SIGNATURE Donald Blackford TITLE SUPERVISOR OF MICROFILM SERVICES

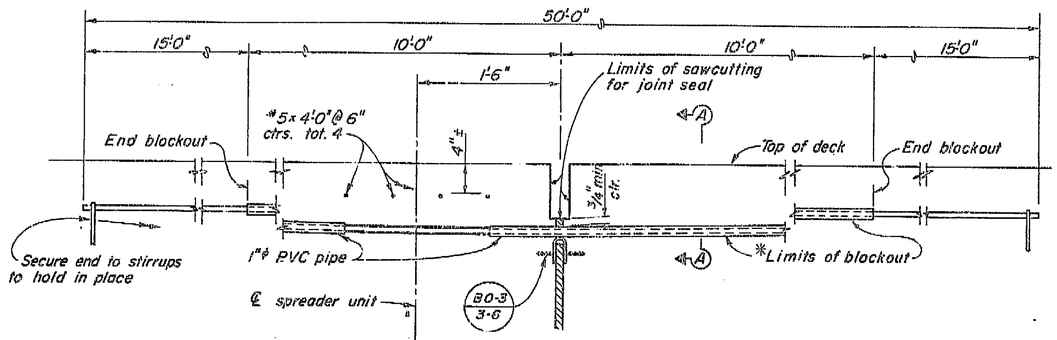
DS 88-70

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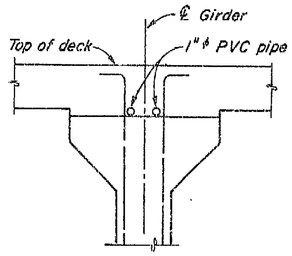
137

DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	21.3/27.3	137	140

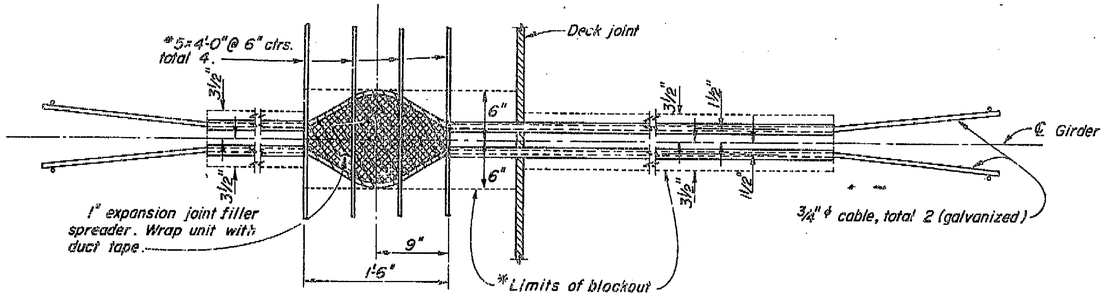
R.A. Rogerson — 25712
DESIGN ENGINEER — REGISTERED CIVIL ENGINEER NUMBER
DATE APPROVED: February 2, 1987



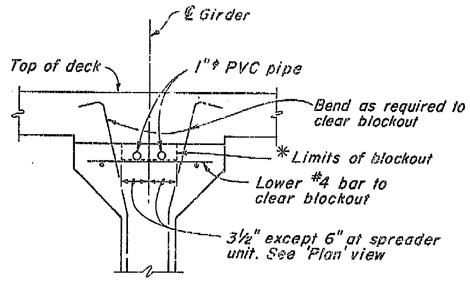
ELEVATION
(Blockout condition shown)



SECTION A-A
(Without Blockout)



PLAN
(Blockout condition shown)



SECTION A-A
(With Blockout)

* Blockout required if placing restrainer units on top of precast girder interferes with sawcutting for joint seal.

Note:
Seal ends of PVC pipe.

NO AS BUILT CHANGES
AS BUILT ϕ 1-30-89
CORRECTIONS BY RA YAEGER
CONTRACT NO. 06-085404
DATE 12-6-88

AS BUILT PLANS
Contract No. 06-085404
Date Completed 12/06/88
Document No.

Note:
For location of restrainer units, see "Girder Layout" sheet.

Design Load : 61 k/ft two-3/4" ϕ cables - WSD
78 k/ft two-3/4" ϕ cables - LFD

Original

137

STANDARD DRAWING

FILE No. XS-12-56	DESIGN	By R.A. Anderson 7/15	Checked	Approved for the Director by
DRAWING 12/80	DETAILS	By Ed Suarez	Checked	
DATE	SUBMITTED BY		7/15	REGISTERED CIVIL ENGINEER NUMBER 12212

State of CALIFORNIA
DEPARTMENT OF TRANSPORTATION

STRUCTURES-DESIGN 12
PROJECT ENGINEER

BRIDGE NO. 42-188 R/L
POST MILE 26.6

NIELSEN AVE UNDERCROSSING (WIDEN)
RESTRAINER UNIT TYPE 5 - PRECAST GIRDERS

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
WO 085401

Disregard prints bearing earlier revision dates →

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 18 OF 24

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

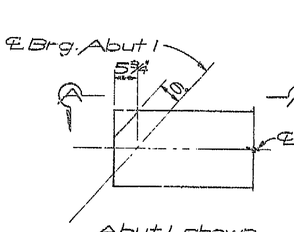
DATE 3-14-89 — SIGNATURE Ronald Blackford — SUPERVISOR OF MICROFILM SERVICES

ClibPDF - www.fastio.com

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06	Fre	99	21.3/27.3	128	140

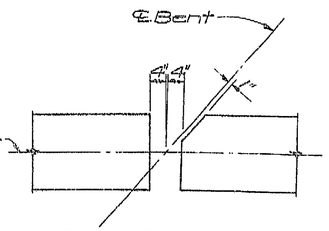
M A Rogerson — DESIGN ENGINEER — 25712 — REGISTERED CIVIL ENGINEER NUMBER

DATE APPROVED February 2, 1987



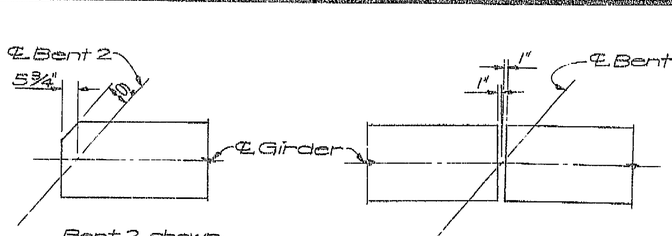
Abut 1 shown.
Abut 5 similar.

ABUTS 1 & 5



Bent 2R shown,
Bents 2L & 4R/L similar.

BENTS 2 & 4-
RT. & LT. WIDEN

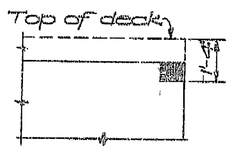


Bent 2 shown,
Bent 4 similar.

BENTS 2 & 4-
MIDDLE WIDEN

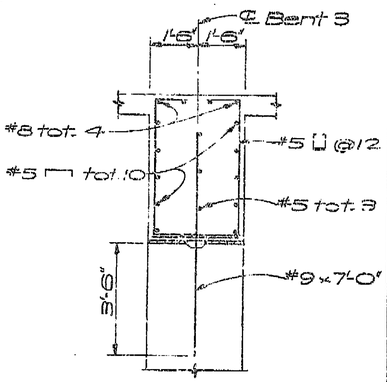
BENT 3

END GIRDER DETAIL
¾"=1'-0"

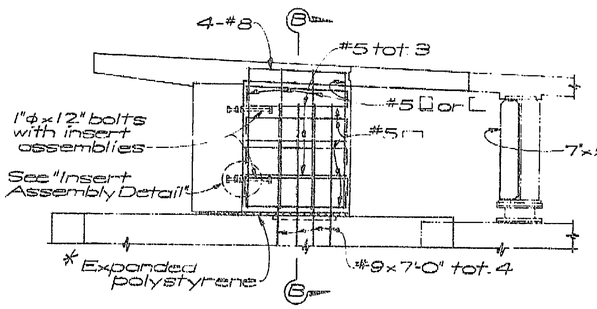


VIEW A-A
½"=1'-0"

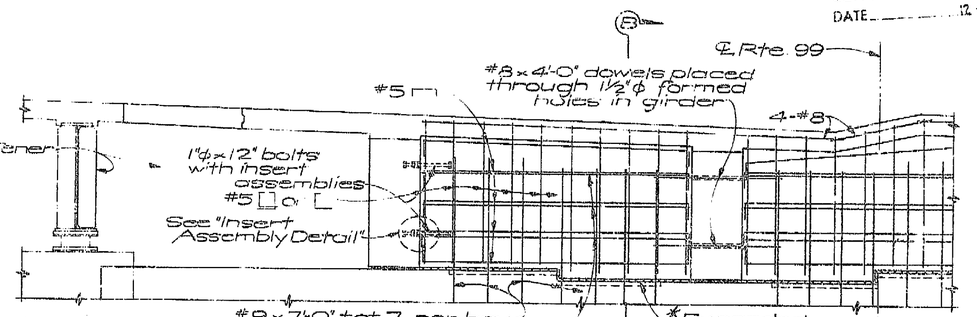
NO AS BUILT CHANGES
AS BUILT 3/ 1-27-89
CORRECTIONS BY RA YARGER
CONTRACT NO. 08-085404
DATE 12-6-88



SECTION B-B
½"=1'-0"

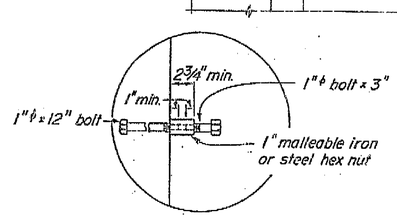


LT. WIDEN

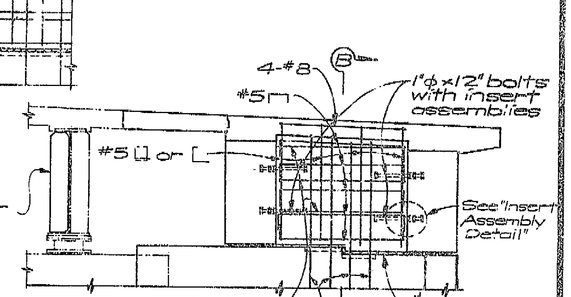


MIDDLE WIDEN

ELEVATION (60-13-1)

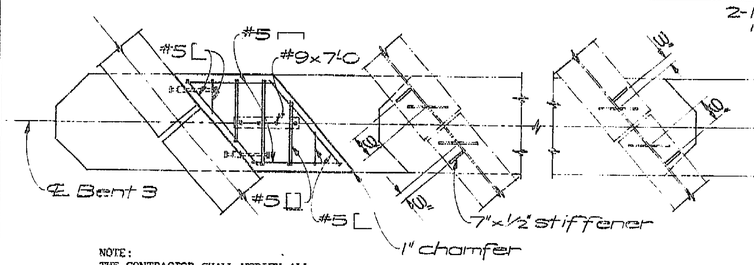


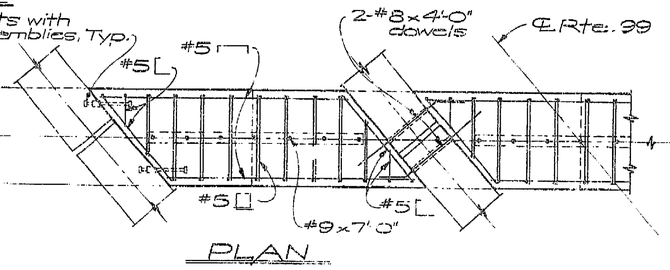
INSERT ASSEMBLY DETAIL



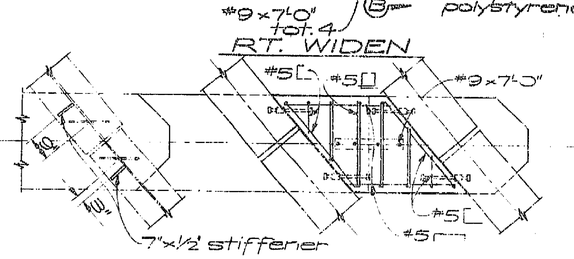
RT. WIDEN

* Same thickness as Brg pad.





PLAN



END DIAPHRAGM AT BENT 3
½"=1'-0"

Note:
For stiffener details not shown, see "Girder Details No. 2" sheet.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

128

DESIGN	By Ken Kwong 6-86	Checked Anne Jhung 6/86	State of CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	By R.K. Wong 6-86	Checked Anne Jhung 6/86	STRUCTURES - DESIGN 12
QUANTITIES	By Rand Holde 6-86	Checked Amer Bata 8-86	Ken Kwong 3/1/87 PROJECT ENGINEER — REGISTERED CIVIL ENGINEER NO.

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
WO 085401

BRIDGE NO. 42-188R
POST MILE 26.6

NIELSEN AVE. UNDERCROSSING (WIDEN)

GIRDER DETAILS NO. 1

Disregard prints bearing earlier revision dates →

REVISION DATES (USE/LINES ONLY) — SHEET 9 OF 21

AS BUILT PLANS
Contract No. 08-085404
Date Completed 12/06/88
Document No.

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 2-14-89 SIGNATURE Ronald D Blackford TITLE SUPERVISOR OF MICROFILM SERVICES

ClibPDF - www.fastio.com

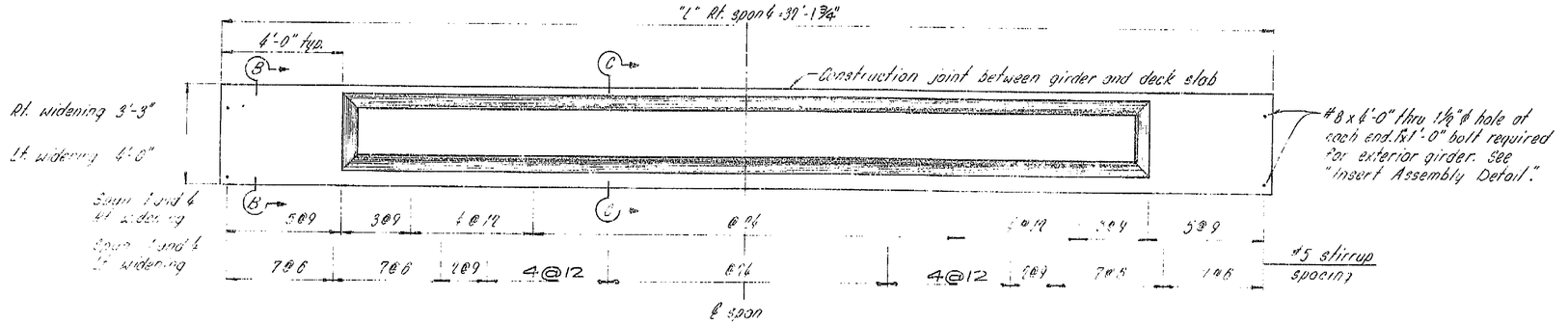
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	21.3/27.3	135	140

R A Rogerson
REGISTERED ENGINEER - CIVIL

February 2, 1987
PLANS APPROVAL DATE

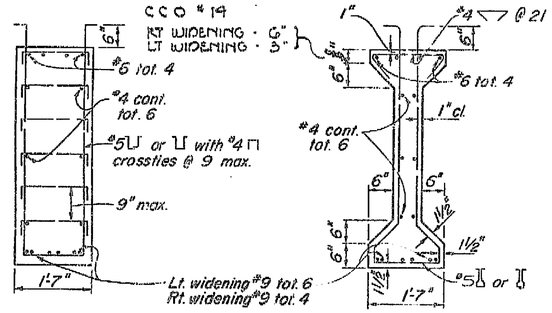
REGISTERED PROFESSIONAL ENGINEER
R A ROGERSON
No. 25712
Exp. 12-31-89
CIVIL
STATE OF CALIFORNIA

"L" - Lt span 1 - 36' 2"
"L" - Lt. span 4 - 89' 2½"
"L" - Rt span 1 - 34' 1"
"L" Rt. span 4 - 39' 1¾"



ELEVATION
Scale: ½" = 1'-0"

Note:
For reinforcement not shown, see "Typical Section" sheet.



SECTION B-B

SECTION C-C

AS BUILT PLANS
Contract No. 06-085404
Date Completed 12/06/88
Document No.

AS BUILT 1-30-89
CORRECTIONS BY RA YAEGER
CONTRACT NO. 06-085404
DATE 12-6-88

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	By Allen Swanger 9/86	Checked Dave Kim 9/86	State of CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 12	BRIDGE NO. 42-138R/L	NIELSEN AVE UNDERCROSSING (WIDEN)	
DETAILS	By Tim Chiu 9/86	Checked Omer Bata 9/86		Allen Swanger 3-14-89 PROJECT ENGINEER REGISTERED CIVIL ENGINEER NO.	POST MILE 26.6	REINFORCED CONCRETE GIRDER	
QUANTITIES	By Rand Wahl 8-86	Checked Omer Bata 8-86		CU 06200 EA 085401	Disregard prints bearing earlier revision dates →	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET 16 OF 21

135

08 050 2130 (2/86)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

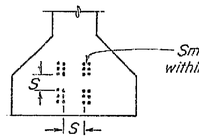
DATE 3-14-89 SIGNATURE Ronald Blackford TITLE SUPERVISOR OF MICROFILM SERVICES

843-B6-78

ClibPDF - www.fastio.com

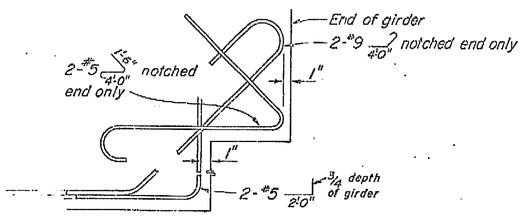
DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	21.3/27.3	132	140

R.A. Yaeger — 25712
DESIGN ENGINEER — REGISTERED CIVIL ENGINEER NUMBER
DATE APPROVED February 2, 1987

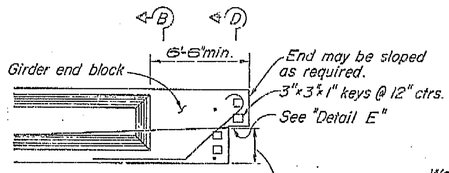


CLEARANCES FOR PRETENSIONED STRANDS

1. Strands may be bundled in groups consisting of 3 vertically and 2 horizontally, and separated at the ends.
2. The min. distance "S" between groups or individual strands is 1½" for ⅜" strands, 1¾" for 7/16" strands and 2" for ½" strands.
3. "S" is measured between centers of adjacent strands.
4. Approval of the Engineer is required for deviation.

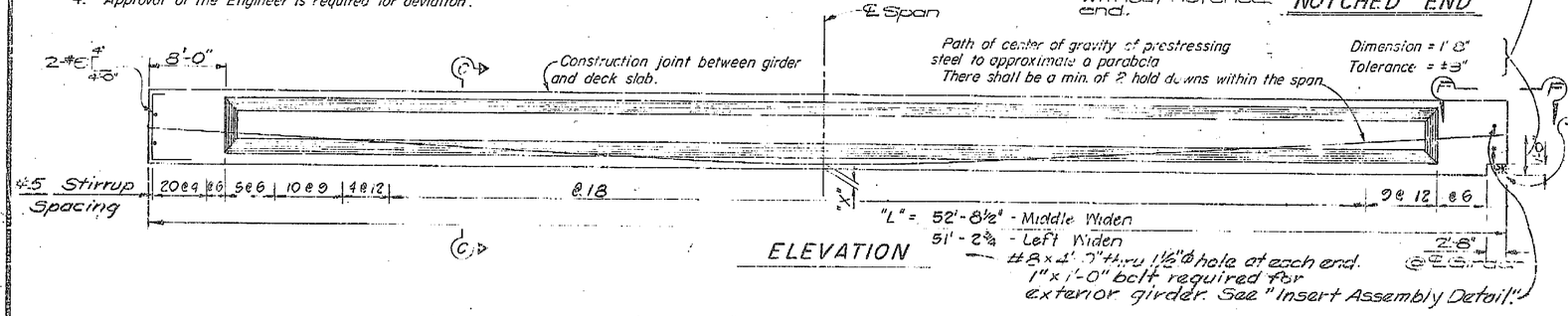


DETAIL E



NOTCHED END

*Span 3 Lt. Widen without notched end.



ELEVATION

PRESTRESSING NOTES

Working Force: The force required at center of span after all losses.

Concrete Strength: f'_{ci} is at time of initial stressing, f'_c is at 28 days, psi.

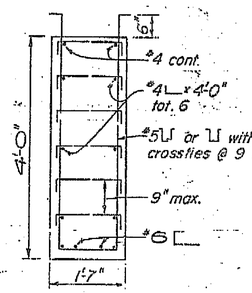
Camber: Girder soffit is to be cast parabolic with value shown as ordinate at ℄ span.

Screed line elevations for deck concrete will be determined by the Engineer.

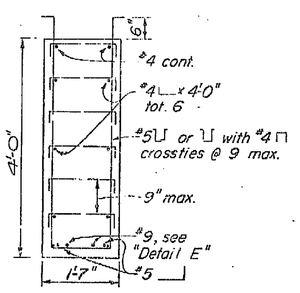
Contractor may interpolate "P" and "X" values between limits shown, as approved by the Engineer.

270 KSI Low Relaxation Strand

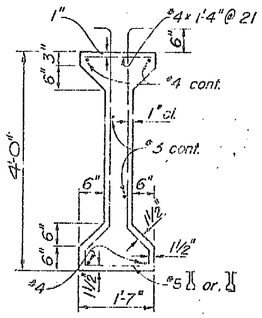
Girder location or designation and length	"X"	P = Working force in Kips.	Concrete Strength f'_{ci}	Concrete Strength f'_c	Deflection at ℄ Span due to CIP Slab	Girder Camber at ℄ Span
Middle Widen	4"	300	4000	4000	.03'	
	6"	325				
Left Widen	4"	300	4000	4000	.03'	
	6"	325				



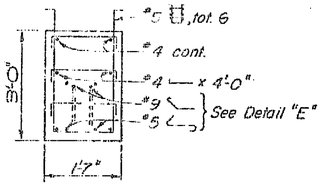
SECTION A-A



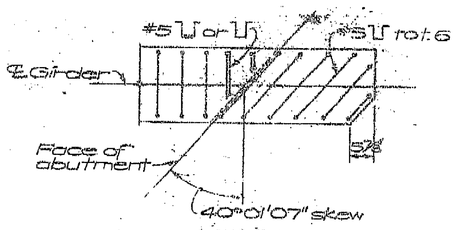
SECTION B-B



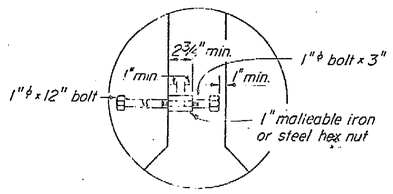
SECTION C-C



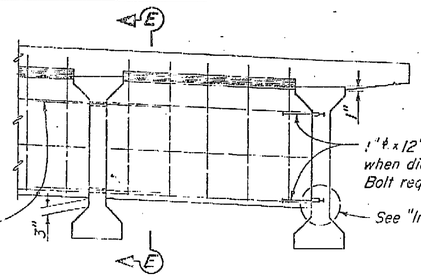
SECTION D-D



VIEW F-F

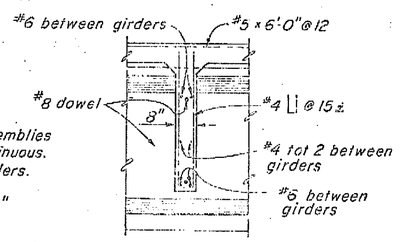


INSERT ASSEMBLY DETAIL



#8 x 4'-0" dowels placed through 1½"ϕ holes formed in girder, when diaphram is continuous. Holes need not be grouted.

INTERMEDIATE DIAPHRAGM



SECTION E-E

NOTE:
Details shown are for Pretensioned Girders. The Contractor may submit details for Post tensioning which shall be subject to the approval of the Engineer.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
NO AS BUILT CHANGES

AS BUILT 1-30-89
CORRECTIONS BY RA YAEGER
CONTRACT NO 06-085404
DATE 12-6-90

STANDARD DRAWING

FILE No. XS-12-36	DESIGN	by E.M. Bramberg	Checked [illegible]
DRAWING DATE 9/82	DETAILS	by K.C. Blechinger	Checked [illegible]
	SUBMITTED BY		Approval Recommended By [illegible] 7999

HDD D 147

State of CALIFORNIA DEPARTMENT OF TRANSPORTATION

STRUCTURES-DESIGN 12
PROJECT ENGINEER Ken Thorne

BRIDGE NO.	NIELSEN AVE UNDERCROSSING (WIDEN)
42-188R/L	
POST MILE 26.6	4'-0" PRESTRESSED I GIRDER SPAN 3

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 062200
WO 085401

Disregard prints bearing earlier revision dates →

REVISION DATES (APPROVAL DATE OF STANDARD OR STAGE GIVEN)

SHEET 13 OF 21

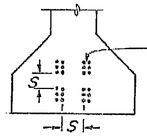
AS BUILT PLANS
Contract No. 06-085404
Date Completed 12/06/88
Document No.

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.
DATE 2-14-89 SIGNATURE [illegible] TITLE SUPERVISOR OF MICROFILM SERVICES

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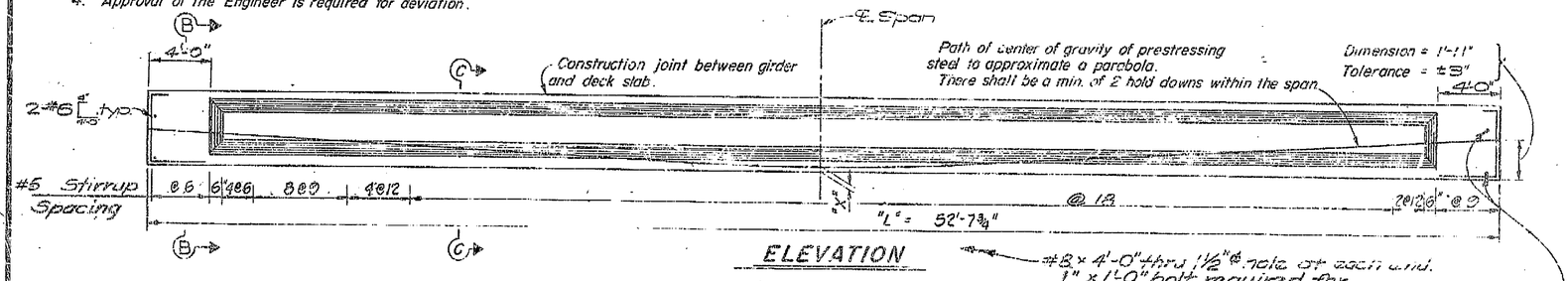
DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	21.3/27.3	134	140

K.A. Bozeman — 25712
DESIGN ENGINEER — REGISTERED CIVIL ENGINEER SIGNATURE
DATE APPROVED: February 2, 1987



CLEARANCES FOR PRETENSIONED STRANDS

1. Strands may be bundled in groups consisting of 3 vertically and 2 horizontally, and separated at the ends.
2. The min. distance "S" between groups or individual strands is 1½" for ⅜" strands, 1¾" for 7/16" strands and 2" for ½" strands.
3. "S" is measured between centers of adjacent strands.
4. Approval of the Engineer is required for deviation.



ELEVATION

PRESTRESSING NOTES

Working Force: The force required at center of span after all losses.

Concrete Strength: f'_{ci} is at time of initial stressing, f'_c is at 28 days, psi

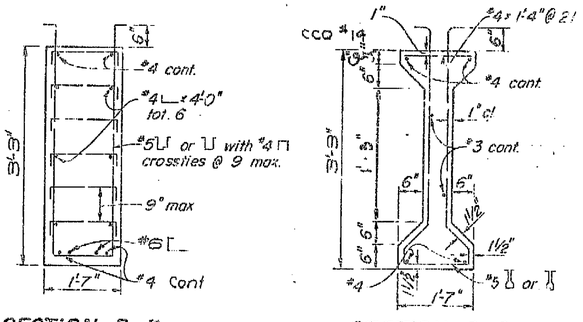
Camber: Girder soffit is to be cast parabolic with value shown as ordinate at ℄ span.

Screed line elevations for deck concrete will be determined by the Engineer.

Contractor may interpolate "P" and "X" values between limits shown, as approved by the Engineer.

270 KSI Low Relaxation Strand

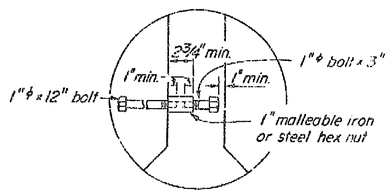
Girder location or designation and length	"X"	P = Working force in Kips	Concrete Strength f'ci	Concrete Strength f'c	Deflection at ℄ Span due to CIP Slab	Girder Camber at ℄ Span
Right Widen	4"	290	4000	4000	.02"	
	5"	280				



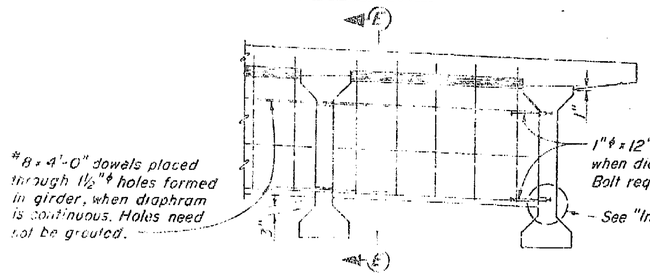
SECTION B-B

SECTION C-C

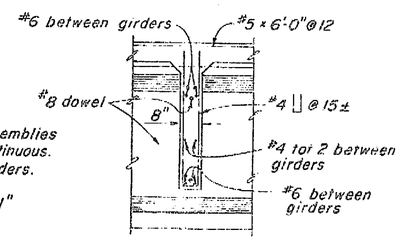
AS BUILT PLANS
Contract No 06-085404
Date Completed 12/06/88
Document No.



INSERT ASSEMBLY DETAIL



INTERMEDIATE DIAPHRAGM



SECTION E-E

NOTE:
Details shown are for Pretensioned Girders. The Contractor may submit details for Post tensioning which shall be subject to the approval of the Engineer.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

AS BUILT @ 1-30-89
CORRECTIONS BY R.L. YARGER
CONTRACT NO. 06-085404
DATE 12-6-88

STANDARD DRAWING

FILE No. XS-12-36	DESIGN	By E.M. Brumbaug	Checked
DRAWING DATE 9/82	DETAILS	By K.C. Bledsinger	Checked
	SUBMITTED BY		

Approval Recommended By — REGISTERED CIVIL ENGINEER NUMBER 7989

HDD D 147

State of CALIFORNIA DEPARTMENT OF TRANSPORTATION

STRUCTURES-DESIGN 12
PROJECT ENGINEER Allen Chung

BRIDGE No. 42-188 R/L
POST MILE 26.6

NIELSEN AVE UNDERCROSSING (WIDEN)
3'-3" PRESTRESSED I GIRDER SPAN 3

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 065200
WO 085401

Disregard prints bearing earlier revision dates

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 15 OF 21

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

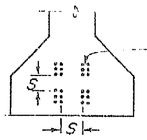
DATE 2-14-89 — DIRECTOR OF MICROFILM SERVICES

CalTrans 1987
ClibPDF - www.fastio.com

06	Fre	99	21,3127.3	1133	140

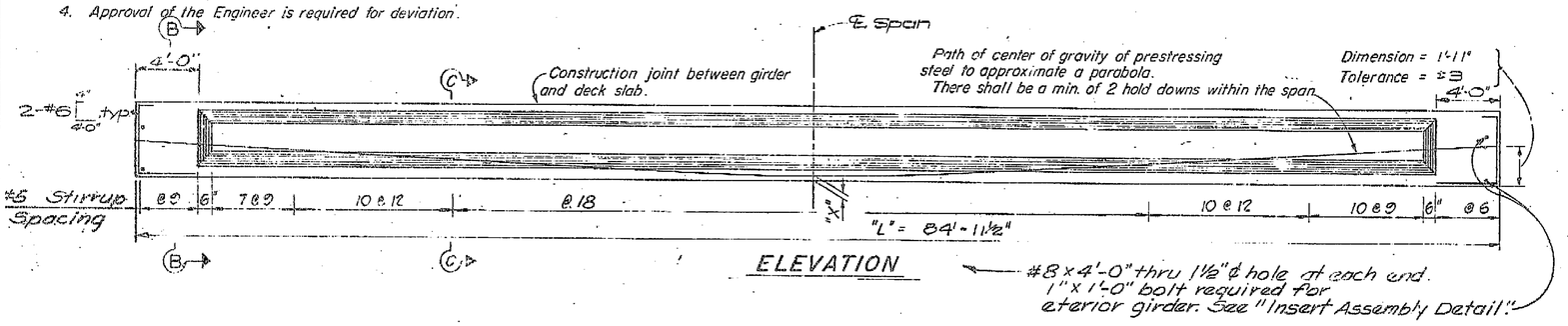
R.A. Rogers 25712
DESIGN ENGINEER

DATE APPROVED February 2, 1987



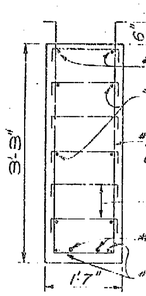
CLEARANCES FOR PRETENSIONED STRANDS

1. Strands may be bundled in groups consisting of 3 vertically and 2 horizontally, and separated at the ends.
2. The min. distance "c" between groups or individual strands is 1½" for ⅜" strands, 1¾" for 7/16" strands and 2" for ½" strands.
3. "S" is measured between centers of adjacent strands.
4. Approval of the Engineer is required for deviation.

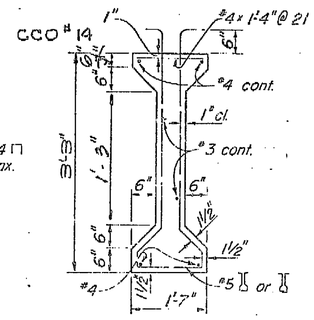


ELEVATION

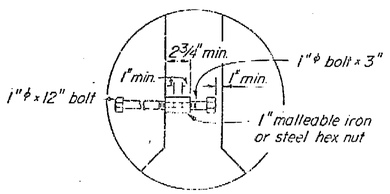
#8 x 4'-0" thru 1½"℄ hole at each end. 1" x 1'-0" bolt required for exterior girder. See "Insert Assembly Detail."



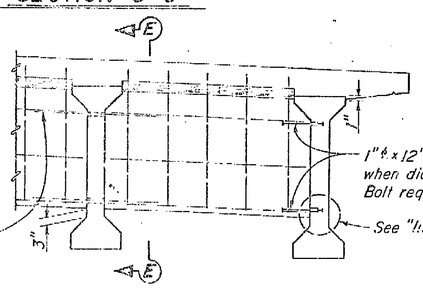
SECTION B-B



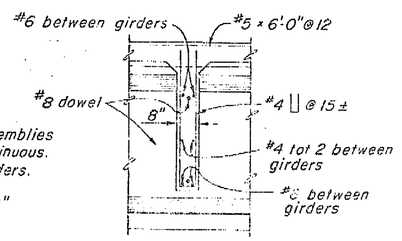
SECTION C-C



INSERT ASSEMBLY DETAIL



INTERMEDIATE DIAPHRAGM



SECTION E-E

PRESTRESSING NOTES

Working Force: The force required at center of span after all losses.

Concrete Strength: f'_{ci} is at time of initial stressing. f'_c is at 28 days, psi.

Camber: Girder soffit is to be cast parabolic with value shown as ordinate at ℄ span.

Screed line elevations for deck concrete will be determined by the Engineer.

Contractor may interpolate "P" and "X" values between limits shown, as approved by the Engineer.

270 KSI Low Relaxation Strand

Girder location or designation and length	P = Working force in Kips. "X"		Concrete Strength f'_{ci}	Concrete Strength f'_c	Deflection at ℄ Span due to CIP Slab	Girder Camber at ℄ Span
Right Widen	4"	600	4500	5200	.13'	X
	6"	655				

AS BUILT PLANS
Contract No. 06-085404
Date Completed 12/06/88
Document No.

NOTE:
Details shown are for Pretensioned Girders. The Contractor may submit details for Post tensioning which shall be subject to the approval of the Engineer.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

AS BUILT dd 1-30-89
CORRECTIONS BY RA YEAGER
CONTRACT NO. 06-085404
DATE 12-6-88

133

STANDARD DRAWING

FILE No. XS-12-36	DESIGN	By E. N. Baumberg	Checked	Approval Recommended By
DRAWING DATE 9/82	DETAILS	By K. C. Blechinger	Checked	
	SUBMITTED BY			REGISTERED CIVIL ENGINEER, 7283

HDD D 147

State of CALIFORNIA DEPARTMENT OF TRANSPORTATION

STRUCTURES-DESIGN 12
PROJECT ENGINEER Wm Thorup

BRIDGE No. 42-188 R/L
POST MILE 26.6

NIELSEN AVE UNDERCROSSING (WIDEN)
3'-3" PRESTRESSED I GIRDER SPAN 2

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 08200
WO 085401

Disregard prints bearing earlier revision dates →

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 14 OF 21

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 2-14-89 SIGNATURE Ronald K. Blechinger TITLE SUPERVISOR OF MICROFILM SERVICES

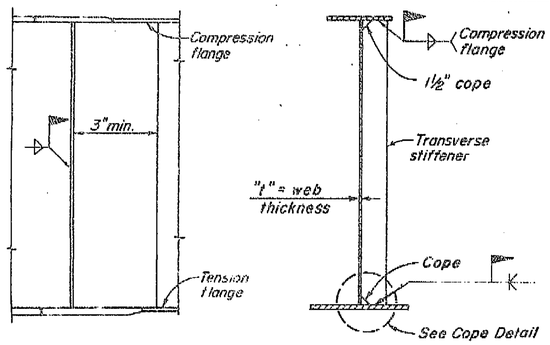
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO	TOTAL SHEETS
06	Fre	99	21.3/27.3	129	140

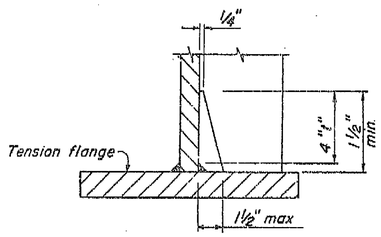
R A Roberson
REGISTERED ENGINEER - CIVIL

February 2, 1987
PLANS APPROVAL DATE

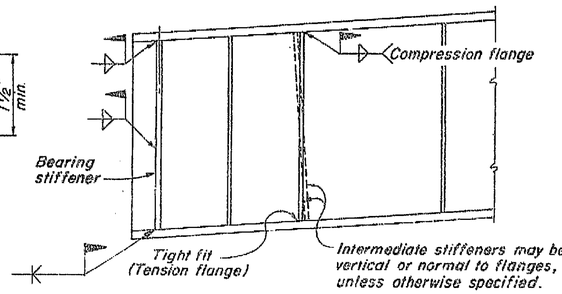
REGISTERED PROFESSIONAL ENGINEER
R A ROBERSON
No. 25712
Exp. 12-31-89
CIVIL
STATE OF CALIFORNIA



ASSEMBLY AND FABRICATION DETAILS
FOR BEARING STIFFENERS

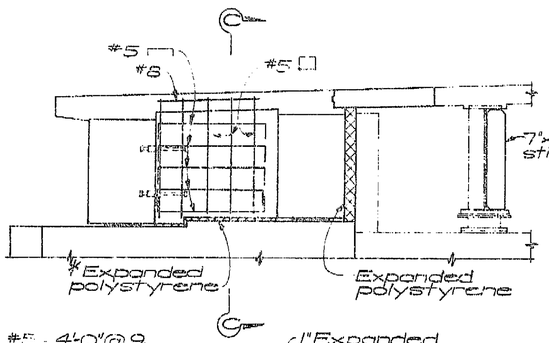


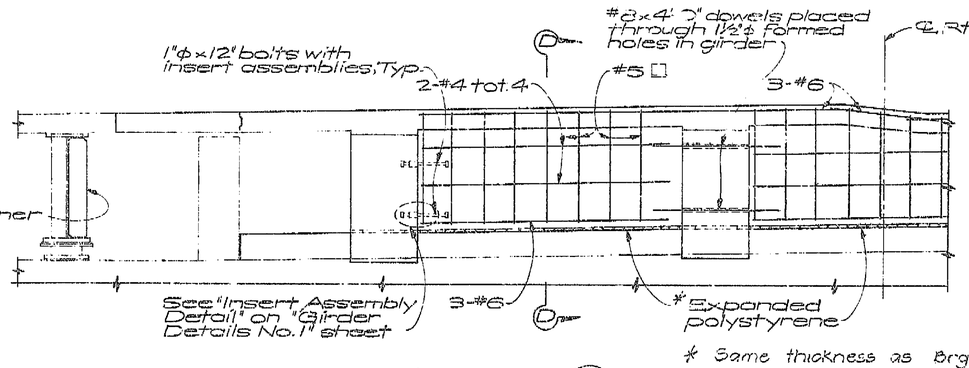
COPE DETAIL



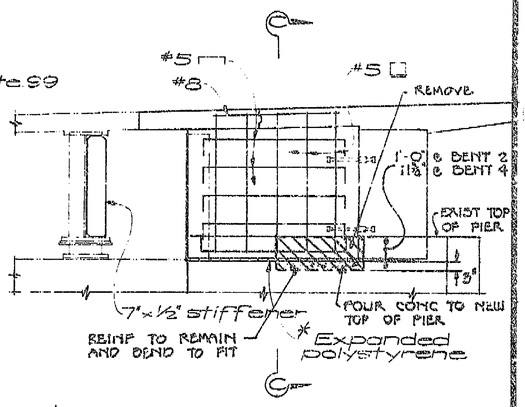
TRANSVERSE STIFFENERS

NOTE:
THE CONTRACTOR SHALL SUBMIT A WELDING SEQUENCE FOR THE ATTACHMENT OF THE STIFFENERS TO THE EXISTING GIRDERS, FOR THE APPROVAL OF THE ENGINEER.

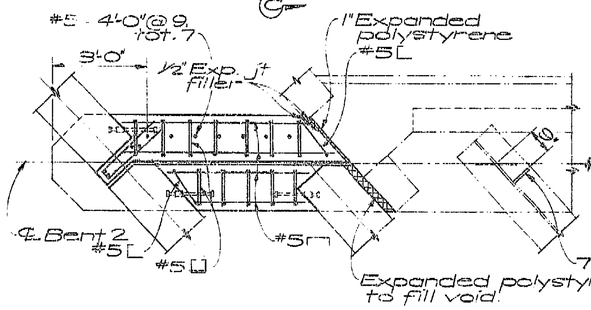




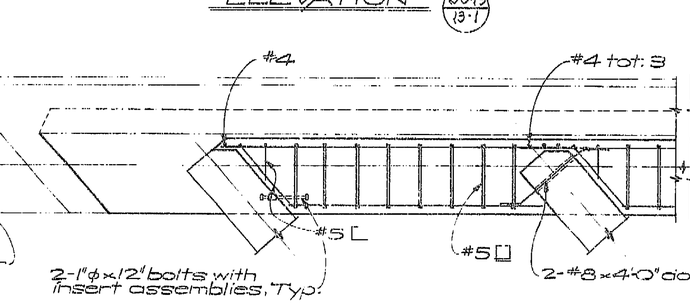
ELEVATION (80-13 19-1)



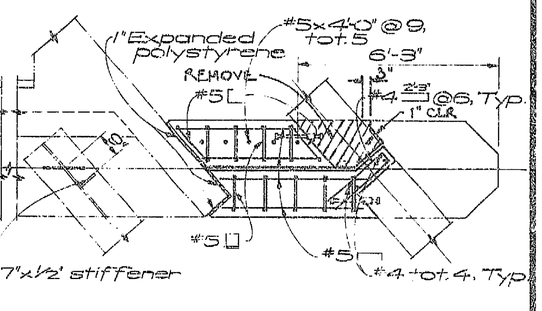
* Same thickness as Brg pad.



RT. WIDEN



MIDDLE WIDEN



LT. WIDEN

Notes:
Bent 2 shown, Bent 4 similar
For Sections "C-C" & "D-D" see "Girder Details No. 3" sheet.

PLAN
END DIAPHRAGM AT BENTS 2 & 4
½"=1'-0" (80-13 19-2)

AS BUILT per 1-90-00
CORRECTIONS BY M YAEGER
CONTRACT NO. 06-085404
DATE 12-6-88

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	By Ken Chong 7-86	Checked Dave Key 8/86	
DETAILS	By R.K. Wong 7-86	Checked Dave Key 8/86	
QUANTITIES	By Rand Hebb 8-86	Checked Anne Pole 8-86	

State of CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 12
Ken Wong 36742
PROJECT ENGINEER — REGISTERED CIVIL ENGINEER NO.

BRIDGE NO. 42-188R/L
POST MILE 26.6

NIELSEN AVE UNDERCROSSING (WIDEN)
GIRDER DETAILS NO. 2

CU 06200
EA 085401

Disregard prints bearing earlier revision dates →

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 19 OF 21

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DS 050 2139 (2/86)

129

AS BUILT PLANS
Contract No. 06-085404
Date Completed 12/06/88
Document No.

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 2-14-89 SIGNATURE Donald A Blickfeldt TITLE SUPERVISOR OF MICROFILM SERVICES

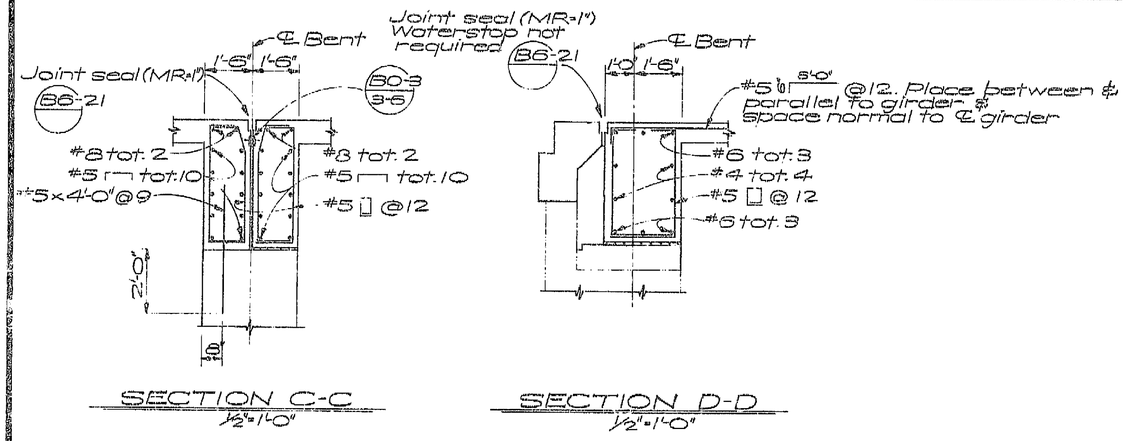
OAS-03-70

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO	TOTAL SHEETS
06	Fre	99	21.3/27.3	130	140

R A Rogerson
REGISTERED ENGINEER - CIVIL

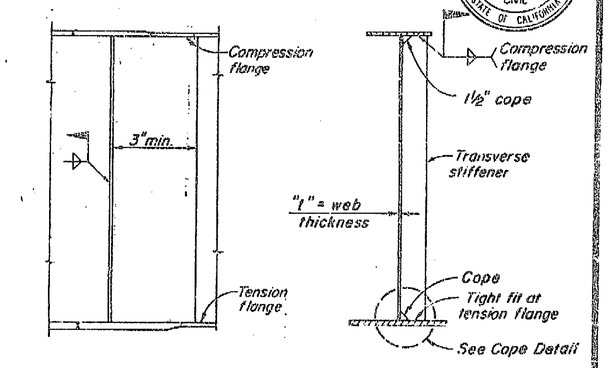
February 2, 1987
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
R A ROGERSON
No. 25712
Exp. 2-31-89
CIVIL
STATE OF CALIFORNIA



SECTION C-C
½"=1'-0"

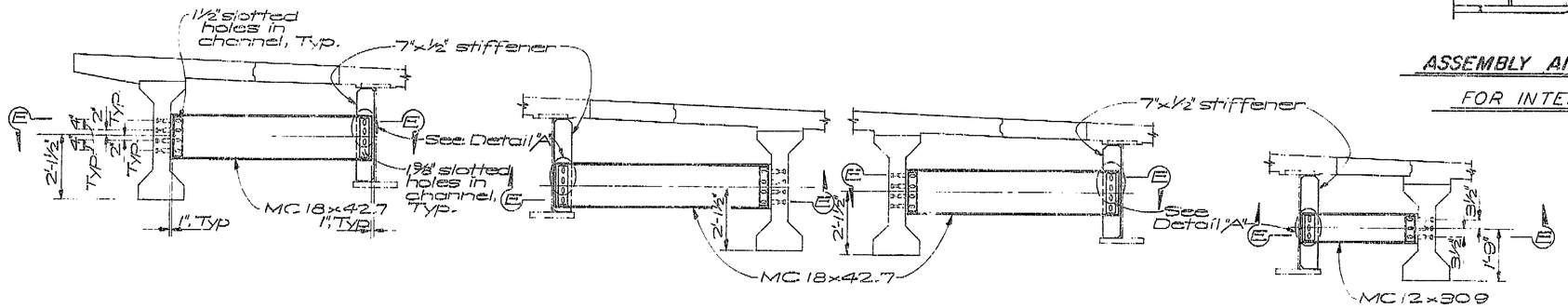
SECTION D-D
½"=1'-0"



ASSEMBLY AND FABRICATION DETAILS
FOR INTERMEDIATE STIFFENERS

Note:
For 'Cope Detail' & other stiffener details not shown, see "Girder Details No. 2" sheet

NOTE:
THE CONTRACTOR SHALL SUBMIT A WELDING SEQUENCE FOR THE ATTACHMENT OF THE STIFFENERS TO THE EXISTING GIRDERS, FOR THE APPROVAL OF THE ENGINEER.

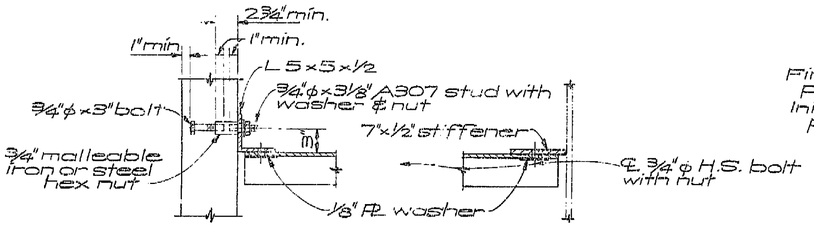


LT. WIDEN

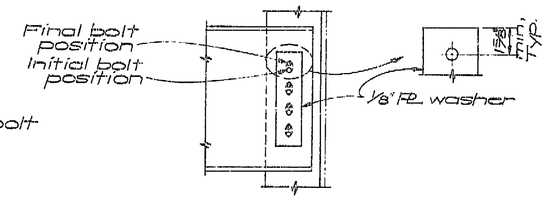
MIDDLE WIDEN

RT. WIDEN

INTERMEDIATE CROSSFRAME DETAILS
½"=1'-0"



SECTION E-E
1½"=1'-0"



DETAIL "A"
1½"=1'-0"

AS BUILT PLANS
Contract No. 06-085404
Date Completed 12/06/88
Document No.

NO AS BUILT CHANGES
AS BUILT 2-1-30-89
CORRECTIONS BY SA YARGER
CONTRACT NO. 06-085404
DATE 12-6-88

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	By Alan Thurman 7/86	Checked	
DETAILS	By R.K. Wong 7/86	Checked	
QUANTITIES	By Rand Welde 8-86	Checked	Amer Bata 8-86

State of CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 12
PROJECT ENGINEER — REGISTERED CIVIL ENGINEER NO. 34942

BRIDGE NO. 42-188 R/L
POST MILE 26.6

NIELSEN AVE UNDERCROSSING (WIDEN)
GIRDER DETAILS NO. 3

CU 06200
EA 085401

Disregard prints bearing earlier revision dates

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 11 OF 21

130

DS 000 2139 (2/86)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 3-14-89 SIGNATURE Donald Blackford TITLE SUPERVISOR OF MICROFILM SERVICES

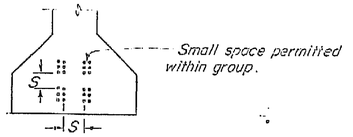
DAS-68-76

SimPDF www.fasfen.com

131

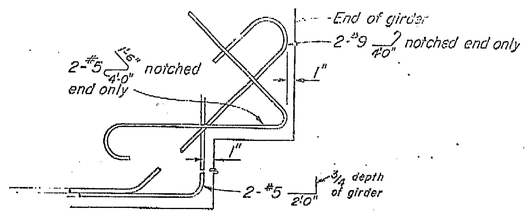
06	Fre	99	21.3/27.3	131	140

Ila Jorgensen — 25712 — February 2, 1987

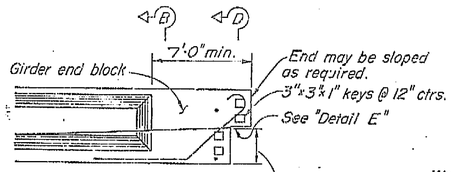


CLEARANCES FOR PRETENSIONED STRANDS

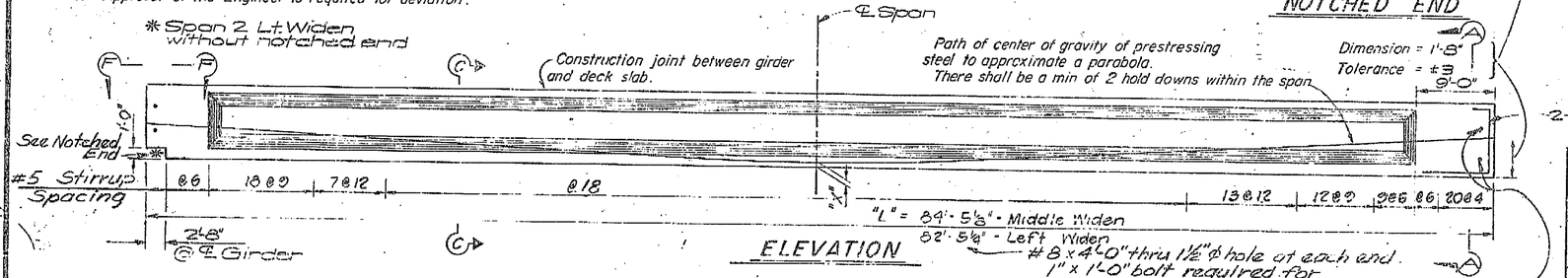
1. Strands may be bundled in groups consisting of 3 vertically and 2 horizontally, and separated at the ends.
2. The min. distance "S" between groups or individual strands is 1½" for ⅜" strands, 1¾" for 7/16" strands and 2" for ½" strands.
3. "S" is measured between centers of adjacent strands.
4. Approval of the Engineer is required for deviation.



DETAIL E



NOTCHED END



ELEVATION

PRESTRESSING NOTES

Working Force: The force required at center of span after all losses.

Concrete Strength: f'_{ci} is at time of initial stressing, f'_c is at 28 days, psi.

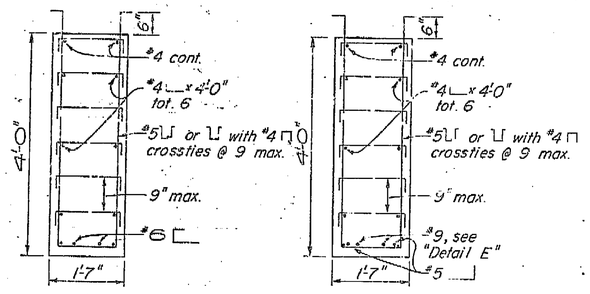
Camber: Girder soffit is to be cast parabolic with value shown as ordinate at ℄ span.

Screed line elevations for deck concrete will be determined by the Engineer.

Contractor may interpolate "P" and "x" values between limits shown, as approved by the Engineer.

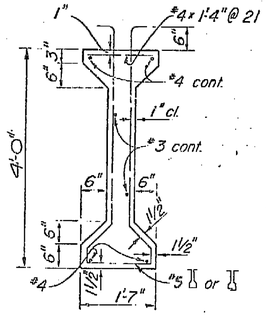
270 KSI Low Relaxation Strand

Girder location or designation and length	"x"	P = Working force in Kips.	Concrete Strength f'_{ci}	Concrete Strength f'_c	Deflection at ℄ Span due to CIP Slab	Girder Camber at ℄ Span
Middle Widen	4"	658	4500	5100	.14'	
	6"	706				
Left Widen	4"	658	4500	5100	.14'	
	6"	706				

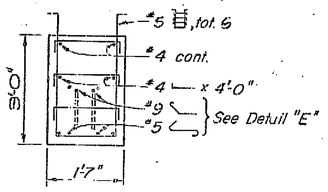


SECTION A-A

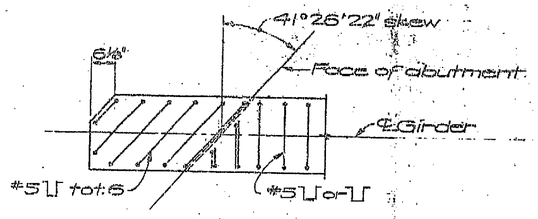
SECTION B-B



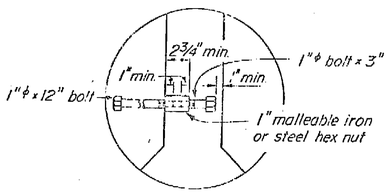
SECTION C-C



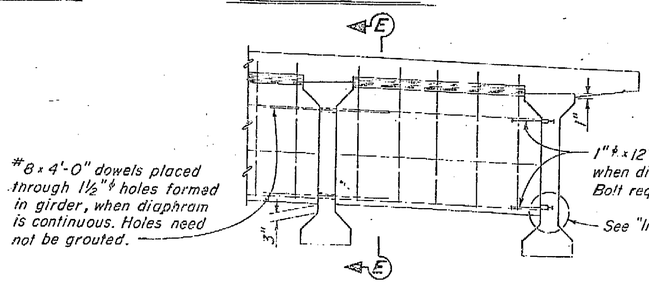
SECTION D-D



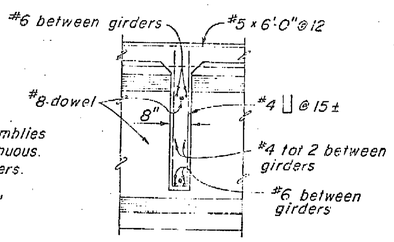
VIEW F-F



INSERT ASSEMBLY DETAIL



INTERMEDIATE DIAPHRAGM



SECTION E-E

NOTE:

Details shown are for Pretensioned Girders. The Contractor may submit details for Post tensioning which shall be subject to the approval of the Engineer.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

NO AS BUILT CHANGES

AS BUILT ✓ 1-30-89
CORRECTIONS BY EA YAEGER
CONTRACT NO. 06-085404
DATE 12-6-88

STANDARD DRAWING
FILE No. XS-12-36 | DESIGN By E. H. Braunberg Checked | DRAWING DATE 9/82 | DETAILS By K. C. Blechinger Checked | SUBMITTED BY | Approval Recommended By | REGISTERED CIVIL ENGINEER NUMBER 7989
HBD D 147

State of CALIFORNIA DEPARTMENT OF TRANSPORTATION
STRUCTURES-DESIGN 12
PROJECT ENGINEER
BRIDGE NO. 42-188 R/L
POST MILE 26.6
NIELSEN AVE UNDERCROSSING (WIDEN)
4'-0" PRESTRESSED I GIRDER SPAN 2
CU 06200 WO 085401
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3
Disregard prints bearing earlier revision dates →
REVISION DATES (PRELIMINARY STAGE ONLY)
SHEET 12 OF 21

AS BUILT PLANS
Contract No. 06-085404
Date Completed 12/06/88
Document No.

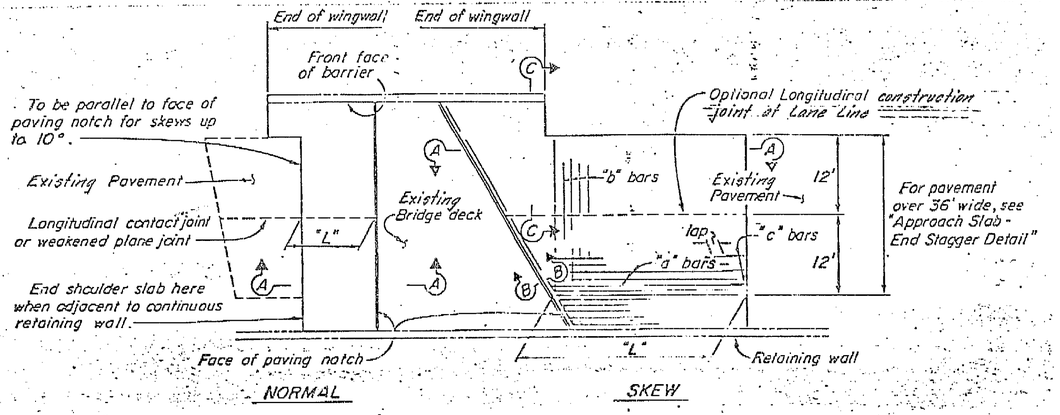
I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.
DATE 2-14-89 SIGNATURE A. Arnold Blackford TITLE SUPERVISOR OF MICROFILM SERVICES

ClibPDF - www.fastio.com

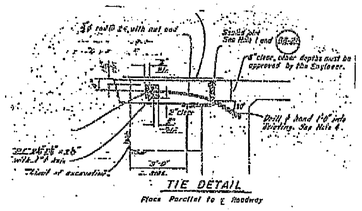
DIST.	COUNTY	ROUTE	POST MILES-TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	21.3/27.3	138	140

DESIGN ENGINEER — REGISTERED CIVIL ENGINEER NUMBER

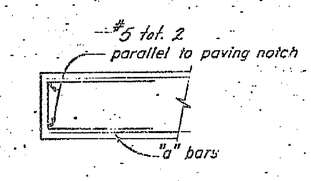
DATE APPROVED February 2, 1987



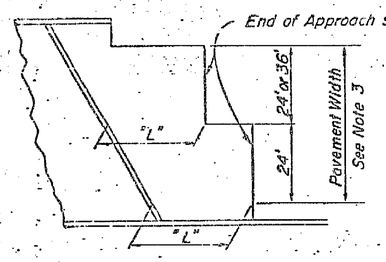
PLAN



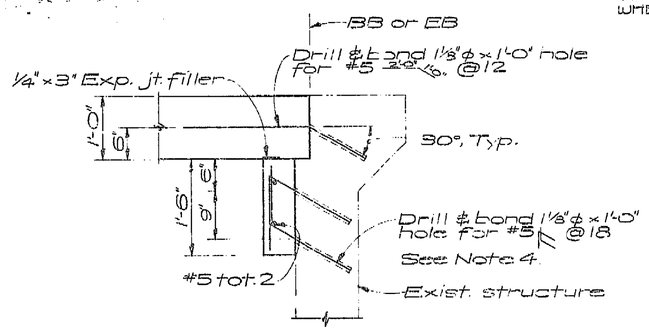
CCO #24
USED TO ANCHOR APPROACH SLAB TO NEW & EXIST STRUCTURE WHERE NEEDED, OR NOT PROVIDED.



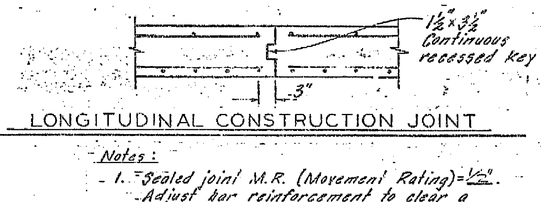
SECTION B-B



APPROACH SLAB - END STAGGER DETAIL



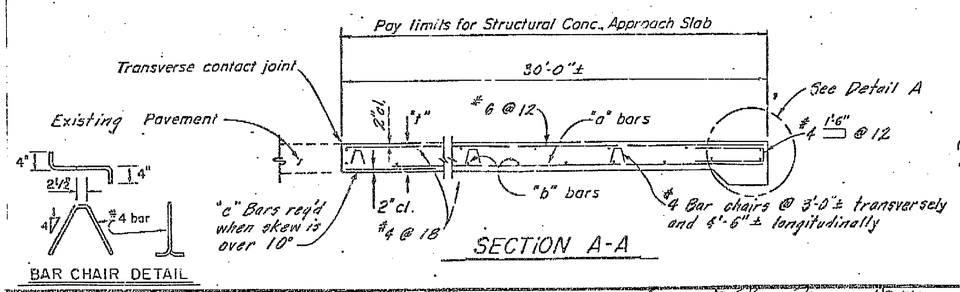
DETAIL A

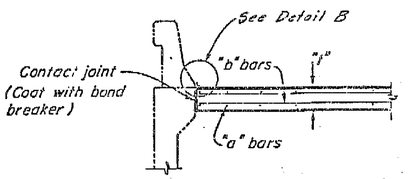


LONGITUDINAL CONSTRUCTION JOINT

Notes:
1. Sealed joint M.R. (Movement Rating)=½". Adjust bar reinforcement to clear a sawcut for sealed joint, when required.
2. All metal parts to be galvanized. #5 Grade 60 reinforcing bar may be substituted for ¾" rod. Place parallel to ℄ Roadway.
3. Approach slabs to skewed structures shall be staggered at lane lines. Staggered lines may be 24' or 36' apart for skews of 45° or less and at any lane line for skews greater than 45°.
4. Space to avoid existing prestress anchorages and main reinforcement.
5. Paving notch extension is required when the existing paving notch is less than 6" wide.

Approach Slab Type	"L"	"t"	Bar Reinforcement Table "a" bars	"b" bars	"c" bars	Lap
Type 2	30'-0"	1.00'	#8 x 29'-8" @ 6	#5 @ 12	#5 @ 12	2'-4"



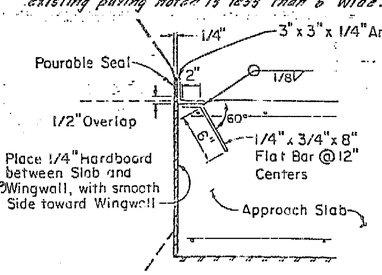


SECTION C-C

AS BUILT PLANS
Contract No. 06-085404
Date Completed 12/01/88
Document No.

AS BUILT as of 1-30-89
CORRECTIONS BY RA VANECEK
CONTRACT NO. 06-085901
DATE 12-9-88

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



DETAIL B
(Low side of roadway only)

DESIGN	By Allen Yarrough 4/86	Checked Mary Jung 4/86	State of CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN
DETAILS	By Rand Wilde 8-86	Checked Mary Jung 4/86		Allen Yarrough 34962 PROJECT ENGINEER — REGISTERED CIVIL ENGINEER NO.
QUANTITIES	By Rand Wilde 8-86	Checked Anne Bata 8-86		BRIDGE NO. 42-188 F/L; POST MILE 06.6

NIELSEN AVE UNDERCROSSING (WIDEN)
TYPE 2 APPROACH SLAB REHABILITATION

CU 06700
WO 085601

Disregard prints bearing earlier revision dates

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 19 OF 21

138

DS 0139 (Rev 6/85)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 2-14-89 SIGNATURE Donald O Black Jr. SUPERVISOR OF MICROFILM SERVICES

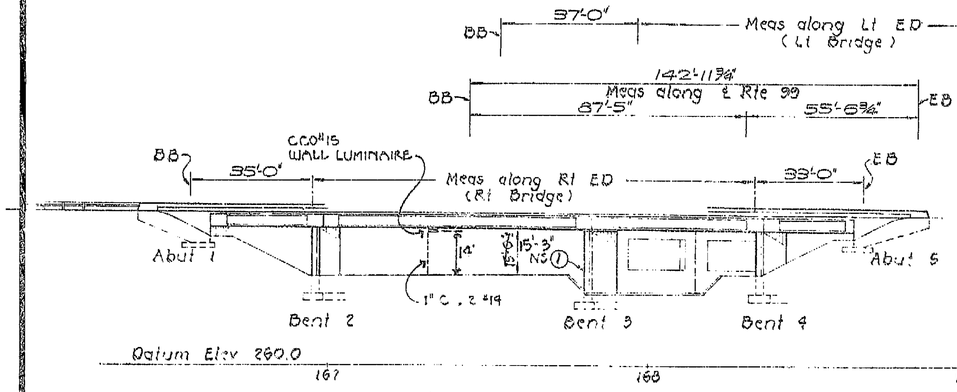
MICROFILM STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION MICROFILM SCALE 1"=60'
MICROFILM STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION MICROFILM SCALE 1"=20'
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	21.3/27.3	120	140

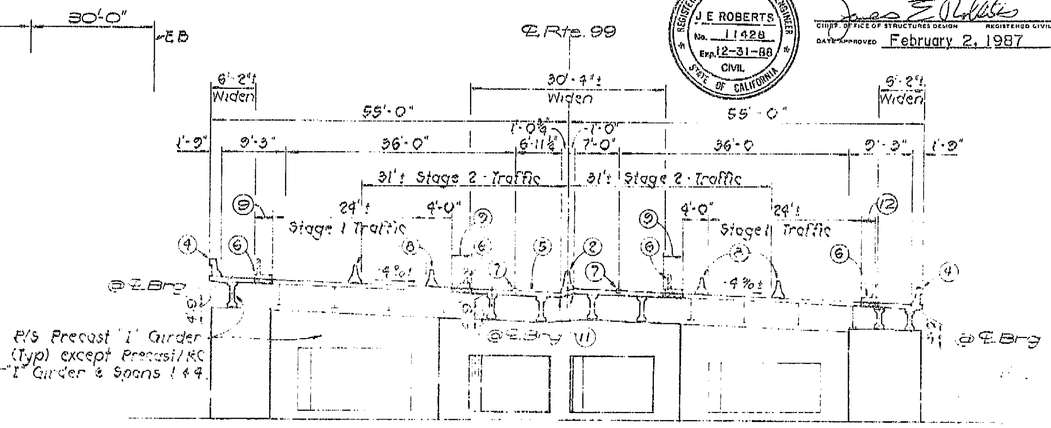
J. E. ROBERTS — REGISTERED PROFESSIONAL ENGINEER — No. 11428 — Exp. 12-31-88 — CIVIL — STATE OF CALIFORNIA

11428
CHIEF, OFFICE OF STRUCTURES DESIGN — REGISTERED CIVIL ENGINEER NUMBER

DATE APPROVED February 2, 1987



ELEVATION
1" = 20'

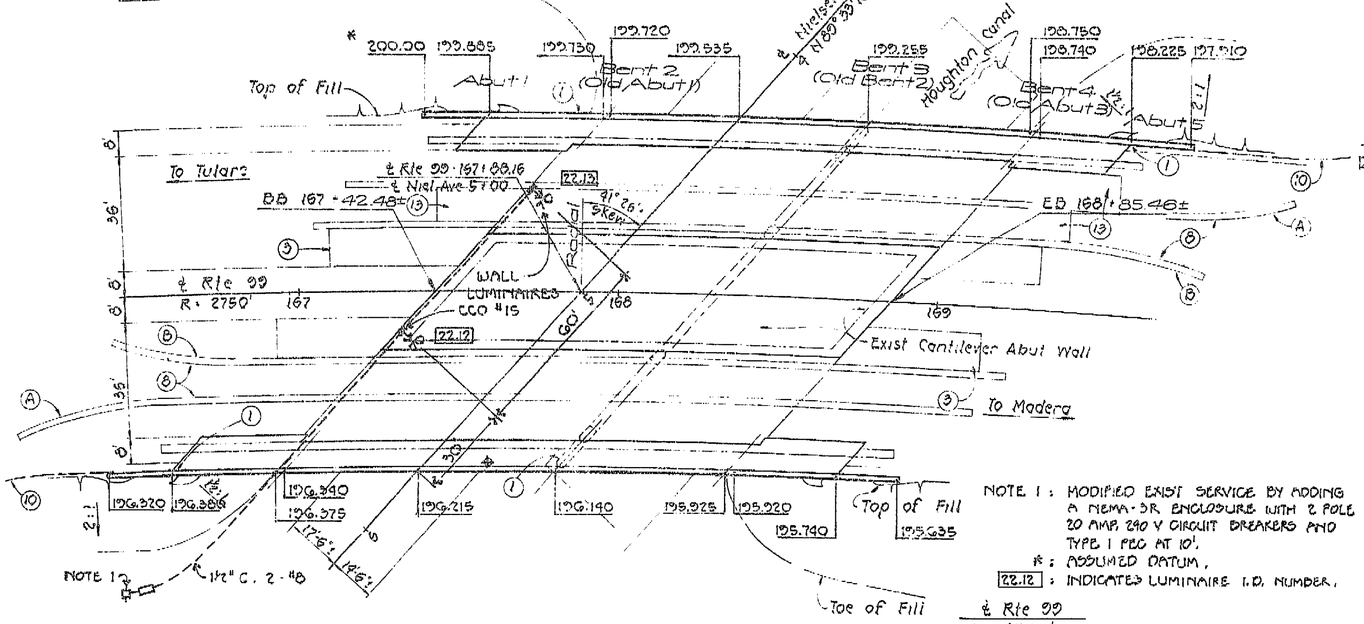


TYPICAL SECTION
1" = 10'

1. Paint "Nielsen Ave UC" @ Br No. 42-188 ℄ "L"
2. Concrete Barrier Type 50 C.
3. Approach Slab Type 2, See 'Road Plans'.
4. Concrete Barrier Type 25.
5. Match Exist Grade @ X-Slope.
6. Remove Exist Curb & Salvage Steel Railing.
7. Exist Profile Grade. (A) L = 300'-0" (B) L = 280'-0"
8. Temporary Railing (Type K)
9. 2'-10" Closure Pour.

——— Indicates Exist Structure
▨ Indicates Concrete Removal.
℄ Indicates Point of Min Vert Clr.

10. M3 & R, See "Road Plans".
11. Optional Const Jt.
12. 2'-6" Closure pour
13. Type 2 Approach Slab Rehabilitation, see "Road Plans"



NOTE 1: MODIFIED EXIST SERVICE BY ADDING A NEMA-3R ENCLOSURE WITH 2 POLE 20 AMP, 240 V CIRCUIT BREAKERS AND TYPE 1 REC AT 10'.

℄: ASSUMED DATUM.

22.12: INDICATES LUMINAIRE I.D. NUMBER.

℄ Rte 99
R = 2750'
Δ = 34° 04' 00"
T = 842.51'
L = 1635.08'

Standard Plan Sheet No.
Detail No.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

PLAN
1" = 20'

AS BUILT TO 1-26-89
CORRECTIONS BY RA YAEGER
CONTRACT NO. 06-085404
DATE 12-6-88

APPROXIMATE QUANTITIES

TEMPORARY RAILING (TYPE K)	1,160	LF
SALVAGE METAL BRIDGE RAILING	826	LF
BRIDGE REMOVAL (PORTION), LOCATION C	LUMP	SUM
DRILL AND BOND DOWEL	284	LF
FURNISH PRECAST CONCRETE GIRDER (20'-30')	1	EA
FURNISH PRECAST CONCRETE GIRDER (30'-40')	3	EA
FURNISH PRECAST PRESTRESSED CONCRETE GIRDER (50'-60')	7	EA
FURNISH PRECAST PRESTRESSED CONCREYE GIRDER (80'-90')	7	EA
ERECT PRECAST CONCRETE GIRDER	4	EA
ERECT PRECAST PRESTRESSED CONCRETE GIRDER	14	EA
WATERSTOP	59	LF
JOINT SEAL (MR 1/2")	179	LF
JOINT SEAL (TYPE B-MR 1")	222	LF
CLEAN AND PAINT STRUCTURAL STEEL	LUMP	SUM

FINAL PAY QUANTITIES

STRUCTURE EXCAVATION (BRIDGE)	465	CY
STRUCTURE BACKFILL (BRIDGE)	275	CY
PERVIOUS BACKFILL MATERIAL	7	CY
STRUCTUAL CONCRETE, BRIDGE FOOTING	82	CY
STRUCTURAL CONCRETE, BRIDGE	553	CY
BAR REINFORCING STEEL (BRIDGE)	120,600	LB
FURNISH STRUCTURAL STEEL (BRIDGE)	2,790	LB
ERECT STRUCTURAL STEEL (BRIDGE)	2,790	LB
MISCELLANEOUS METAL (RESTRAINER)	422	LB
CONCRETE BARRIER (TYPE 25)	489	LF
CONCRETE BARRIER (TYPE 50A)	143	LF

For General Notes see "Foundation Plan" sheet.

INDEX TO PLANS

SHEET NO.	TITLE
1	GENERAL PLAN
2	FOUNDATION PLAN
3	ABUTMENT DETAILS
4	BENT 3 DETAILS NO. 1
5	BENT 3 DETAILS NO. 2
6	BENT 2 & 4 DETAILS
7	TIPICAL SECTION
8	GIRDER LAYOUT
9	GIRDER DETAILS NO. 1
10	GIRDER DETAILS NO. 2
11	GIRDER DETAILS NO. 3
12	4'-0" PRESTRESS I GIRDER SPAN 2
13	4'-0" PRESTRESS I GIRDER SPAN 3
14	3'-3" PRESTRESS I GIRDER SPAN 2
15	3'-3" PRESTRESS I GIRDER SPAN 3
16	REINFORCED CONCRETE GIRDER
17	MISCELLANEOUS DETAILS
18	RESTRAINER UNIT TYPE 5 PRECAST GIRDERS
19	TYPE 2 APPROACH SLAB REHABILITATION
20	LOG OF TEST BORINGS 1 of 2
21	LOG OF TEST BORINGS 2 of 2

STANDARD PLANS DATED JULY 1984

A35-B	APPROACH SLAB
A62-C	EXCAVATION AND BACKFILL - LIMITS OF PAYMENT (BRIDGE)
A75-A	CONCRETE BARRIER TYPE 50
B0-1	BRIDGE DETAILS
B0-3	BRIDGE DETAILS
B0-5	BRIDGE DETAILS
B0-13	BRIDGE DETAILS
B6-21	JOINT SEALS
B11-30	TEMPORARY RAILINGS (TYPE K)
B11-53	CONCRETE BARRIER TYPE 25

Submitted by: R A Rogerson 1/87 — DESIGN ENGINEER — REGISTERED CIVIL ENGINEER NUMBER 25712
Recommended By: [illegible] 1/87 — DISTRICT BRIDGE ENGINEER — REGISTERED CIVIL ENGINEER NUMBER 13523

DESIGN	By Ken Rogerson	Date	LOAD FACTOR DESIGN
DETAILS	By F. Vigil	Date	LAYOUT
QUANTITIES	By Raoul Hollo 8-86	Date 1 Mar 87	SPECIFICATIONS

LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
Checked: Ken Rogerson 1/87
Plans and Specs Compared: Bob Williams 1/87

State of CALIFORNIA DEPARTMENT OF TRANSPORTATION

STRUCTURES - DESIGN 12
DIRECT ENGINEER — REGISTERED CIVIL ENGINEER NO. 34942

BRIDGE NO. 42-188 R/L
POST MILE 26.6

NIELSEN AVE UNDERCROSSING (WIDEN)

GENERAL PLAN

CU 06200
WO 085401

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3

Disregard prints bearing earlier revision dates →

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 1 OF 21

DS 0128 (8-80)

120

AS BUILT PLANS
Contract No. 06-085404
Date Completed 12/6/88
Document No.

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.
DATE 3-14-89 SIGNATURE Donald Blacklock TITLE SUPERVISOR OF MICROFILM SERVICES

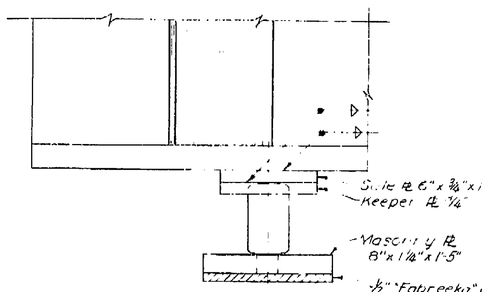
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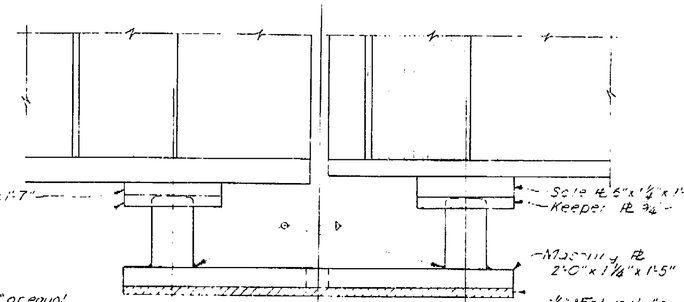
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DATE APPROVED February 28, 1955

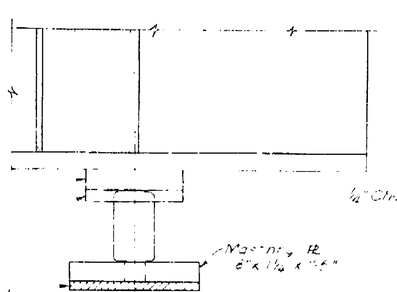
BRIDGE DEPARTMENT



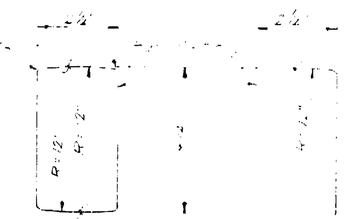
ELEVATION



ELEVATION

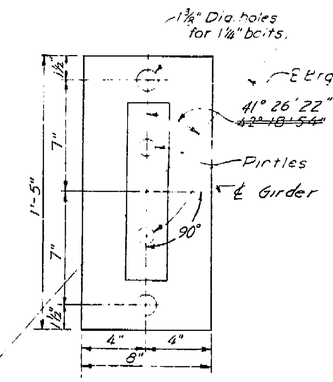


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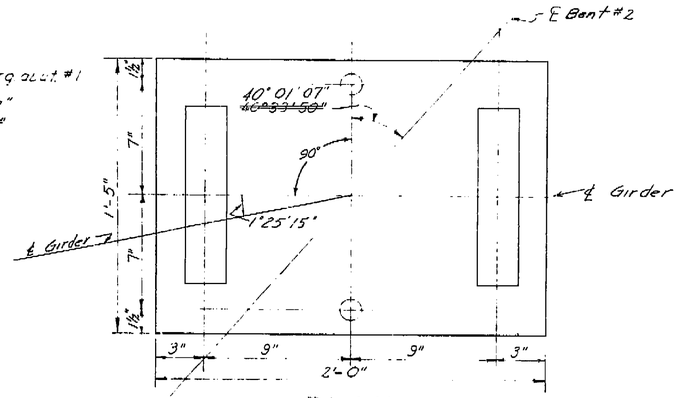


ROCKER AT ABUT #1 & #3
1/2 Actual size

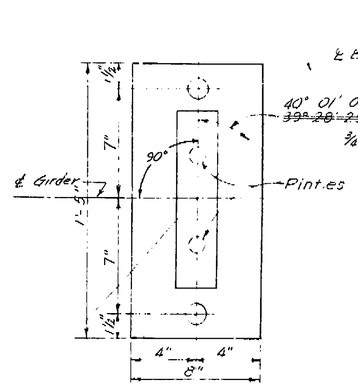
BEARING BAR AT BENT #2



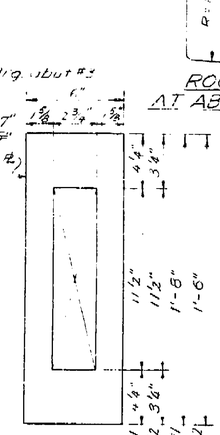
PLAN
BEARING AT ABUT #1
8 Req'd.



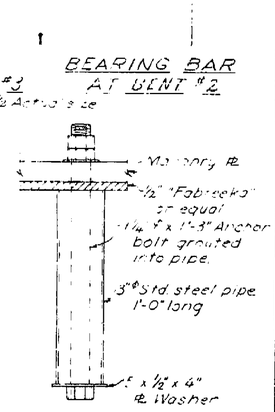
PLAN
BEARINGS AT BENT #2
8 Req'd.



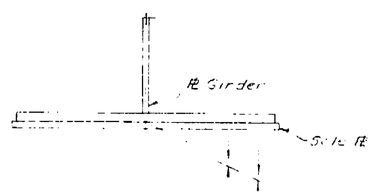
PLAN
BEARING AT ABUT #3
8 Req'd



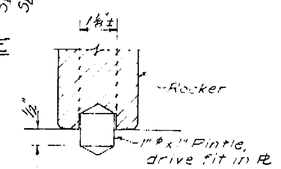
TYPICAL KEEPER PLATE



ANCHOR BOLT DETAIL



Note: Skie Pl's to be beveled as necessary to correct for out of square rolling tolerance of lower girder flange.



PINTLE DETAIL
1/2 Actual size

AS BUILT PLANS
Contract No. 56-67CL
Date Completed
Document No. 60000990

Notes:
Unless otherwise shown size of all fillet welds shall conform to A.W.S. Specifications.

AS BUILT
CORRECTIONS BY Hawkins
DATE 1/57

DESIGN SECTION 7
W.R. McAdoo
PROJECT DESIGNER

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

NIELSEN AVENUE UNDERCROSSING

BEARING DETAILS

Except as noted SCALE 3" = 1'-0" | BRIDGE 42-188 R&L | FILE | DRAWING B-350d-9

PREL. DRAWING No. P-3508

DESIGN 7 SECTION

DETAILS — Checked A.M. 6/54
QUANTITIES — Checked W.R. 10-54
SPECIFICATIONS — Checked J.C.B. 10-54

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

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FED. ROAD DIV. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF	2F-2198 (2)		102	162

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	-4	C	-2	14

BRIDGE ENGINEER - CIVIL ENGINEER - LICENSE 9283

DATE APPROVED February 28, 1955

BRIDGE DEPARTMENT

Cut-off Walls @ each end of Bent #2 Rt & Lt.

Bent # 2

Abut. # 3

288.00

Remove and replace existing conc. lining

Slope 1:1

New conc. lining

Invert El. 282.50

SECTION B-B
Scale 1/4" = 1'-0"

Canal floor

2'-0"

1'-0"

SECTION C-C

1'-0"

4'-0"

SECTION D-D

Scale 1/4" = 1'-0"

Abut #1 layout line = ℄ Brgs.

Cultivated field

Practically level @ 285 ±

Wing wall layout lines

Underground tel. cable

280.00

Vent

Nielsen Avenue

Houghton Canal

Level @ 283.3 ±

Limit of new lining

Existing lining

℄ Bents

Tentative surface

279.33

278.50

278.0

279.40

278.0

Sta 167+45.86

279.50

278.0

Sta 168+24.90

Sta 168+82.21

Radial

R=2748.5'

42°18'54"

64.6 3/8"

61'-11 1/8" ±

123.2 ±

39°28'25"

R=2795.3'

62'-9 1/8"

Ec=280.4

Ec=2701.92

R=2701.92

Vent

Construction

Wing wall layout lines

Practically level @ 285 ±

Matching existing lining

N 89°33'18" E

Pacific Pump Company

3 High voltage wires

Levee

"BK" Line

FOUNDATION PLAN

AS BUILT

CONNECTIONS BY Hornbuckle

DATE 1-11-56

AS BUILT PLANS
Contract No. 56-67C1
Date Completed
Document No. 60000990

NOTES:
Bottom of footing elevations shown thus (280.0)
Contours as of 12-53

℄ Construction
R = 2750'
Δ = 34°04'30"
T = 842.51'
L = 1695.08'

B.M. 1" Iron pipe located approximately 78' Lt. Sta. 7+80 ℄ section line - S 64°33'04" W. El. 288.91

Canal lining Class B R.C.C.

Bent # 2

288.00

Remove and replace existing conc. lining

New conc. lining

Slope 1:1

282.50

Invert El.

SECTION A-A
Scale: 4" = 1'-0"

DESIGN SECTION 7
PROJECT DESIGNER

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

NIELSEN AVENUE UNDERCROSSING

FOUNDATION PLAN

Except as noted SCALE 1" = 20'-0" | BRIDGE 42-188 R&L | FILE | DRAWING C-3508-2

PREL. DRAWING No. P-3508

	DESIGN	DETAILS	QUANTITIES	SPECIFICATIONS
Submitted by	W.W. Wilkins	A.M. Hall	E. Lee	R.B. Dunn
Date	6/54	10/54	12-54	12-54
Checked by	W.W. Wilkins	A.M. Hall	E. Lee	R.B. Dunn
Date	6/54	10/54	12-54	12-54
Approved by	R.B. Dunn			
Date	12-54			

Plan Quantities = 265

DESIGN 7 SECTION

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

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STANDARD DRAWING

Submitted by ... Standard Plans Committee 6-53

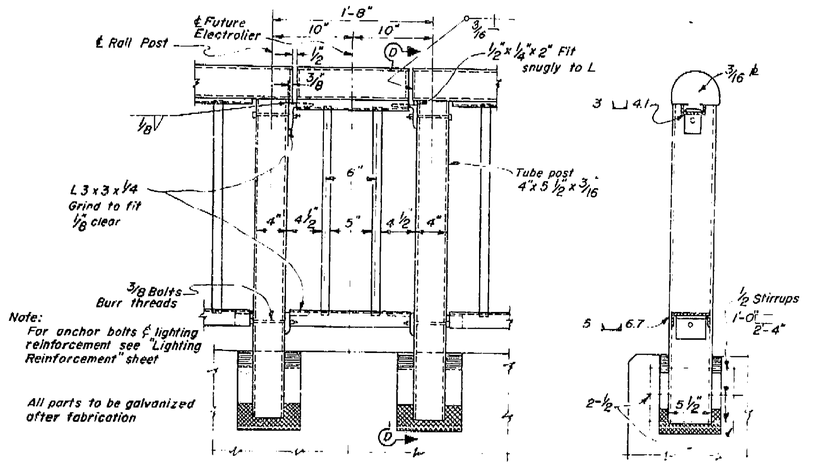
DESIGN	By Standard Plans	Checked	Standard	6-53
DETAILS	By WEP 6-53	Checked	RFL	6-53
QUANTITIES	By	Checked		
SPECIFICATIONS	By	Checked		
APPROVAL RECOMMENDED BY		ENGINEER OF DESIGN	CIVIL AND STRUCTURAL ENGINEER	CIVIL LICENSE NO.

SUBMITTED BY ... Robert L. Lloyd 6/54

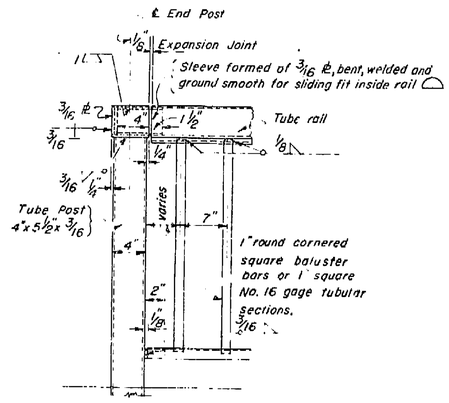
DESIGN	By R.L.L.	Checked	Robert L. Lloyd	6/54
DETAILS	By A.M.	Checked		6/54
QUANTITIES	By L.L.C.	Checked		6/54
SPECIFICATIONS	By	Checked		
APPROVAL RECOMMENDED BY		ENGINEER OF DESIGN	CIVIL AND STRUCTURAL ENGINEER	CIVIL LICENSE NO. 12536

BRIDGE DEPARTMENT

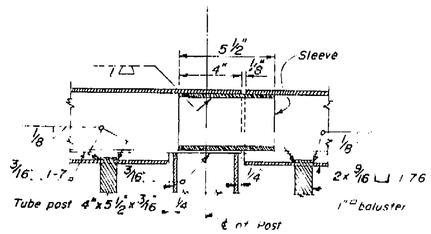
DESIGN 7 SECTION



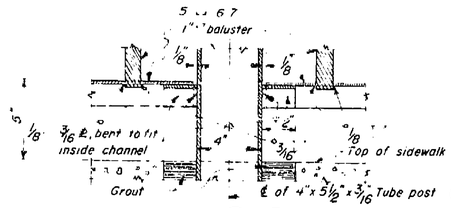
RAILING CLOSURE-DETAIL E-3 Scale: 1 1/2"=1'-0" SECTION D-D



SINGLE END POST
Scale: 1 1/2" = 1'-0"



SECTION (H)-(H)
Scale 3" = 1'-0"



SECTION (G)-(G)
Scale 3" 1'-0"

NOTES:

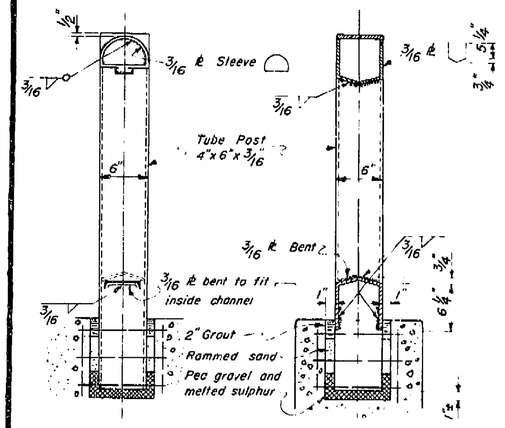
Space posts to clear expansion joints by 9" min to ℄ of post

Exact post hole locations are to be determined from approved railing shop plans

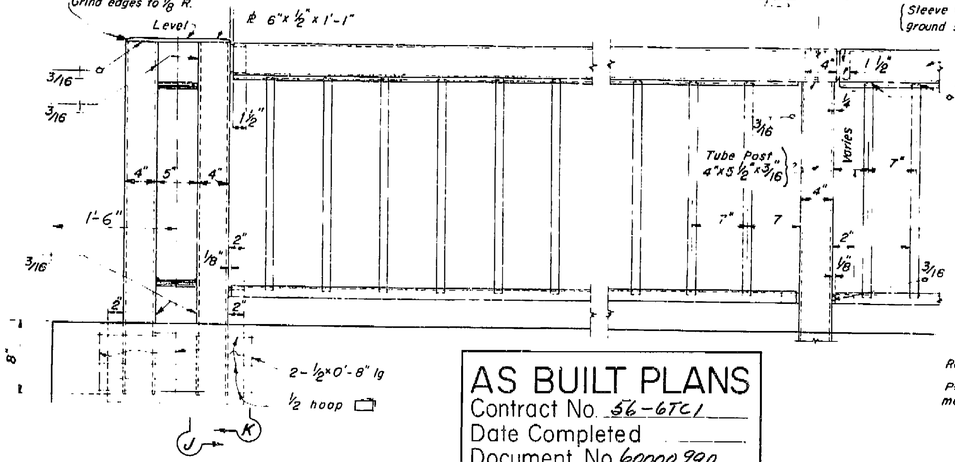
Railing shall conform to horizontal and vertical alignment. Posts and balusters shall be vertical with a maximum deviation not to exceed that represented by a rise of 1/4" in one panel.

Railing to be galvanized after fabrication. For further requirements see special provisions

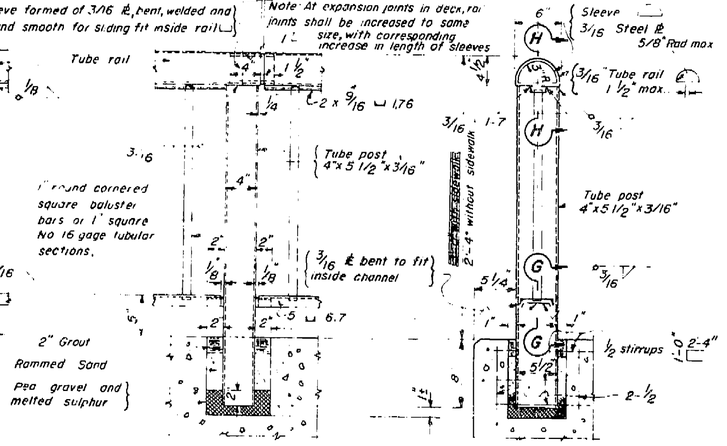
AS BUILT
NO CORRECTIONS
DATE 1-11-57



SECTION (K)-(K) SECTION (J)-(J)



DOUBLE END POST



INTERMEDIATE POST SECTION (F)-(F)

AS BUILT PLANS
Contract No. 56-67C1
Date Completed
Document No. 60000990

STEEL RAILING DETAILS
Scale: 1 1/2" = 1'-0"

DESIGN SECTION 7
PROJECT DESIGNER

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

NIELSEN AVENUE UNDERCROSSING

STEEL RAILING

SCALE As Shown | BRIDGE 43-118 R.S.L | FILE 56-7-19 | DRAWING 3506 13

PREL. DRAWING NO. P-2508

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE AS-BUILT DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE ... SIGNATURE ... TITLE ...

ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.	U-2198 (2)		104	162

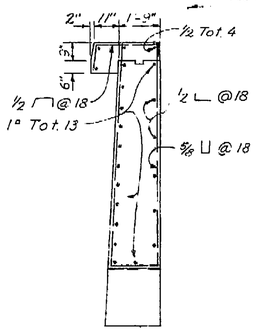
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	4	C	4	14

REGISTERED CIVIL ENGINEER—LICENSE EXPIRES

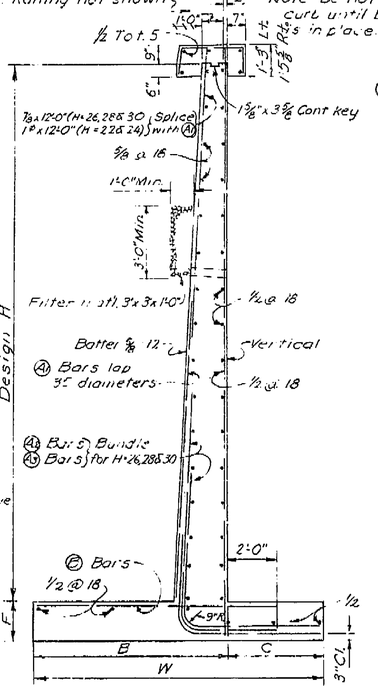
DATE APPROVED February 28, 1955

BRIDGE DEPARTMENT

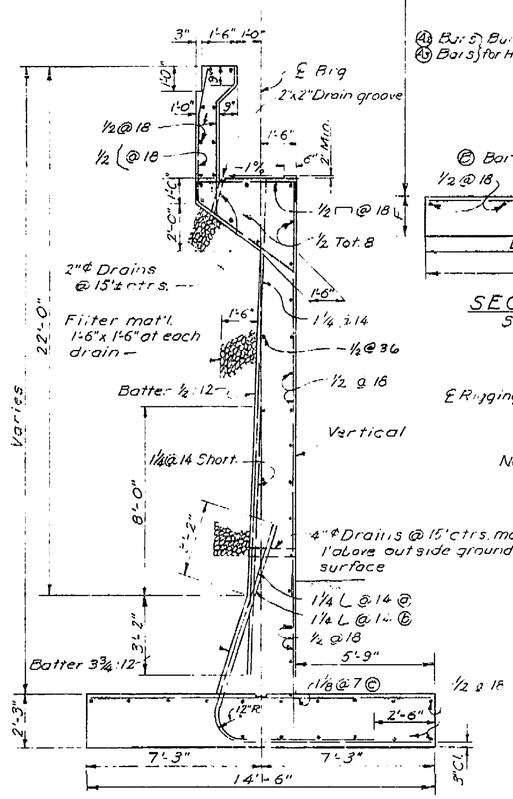
Note: Railing not shown



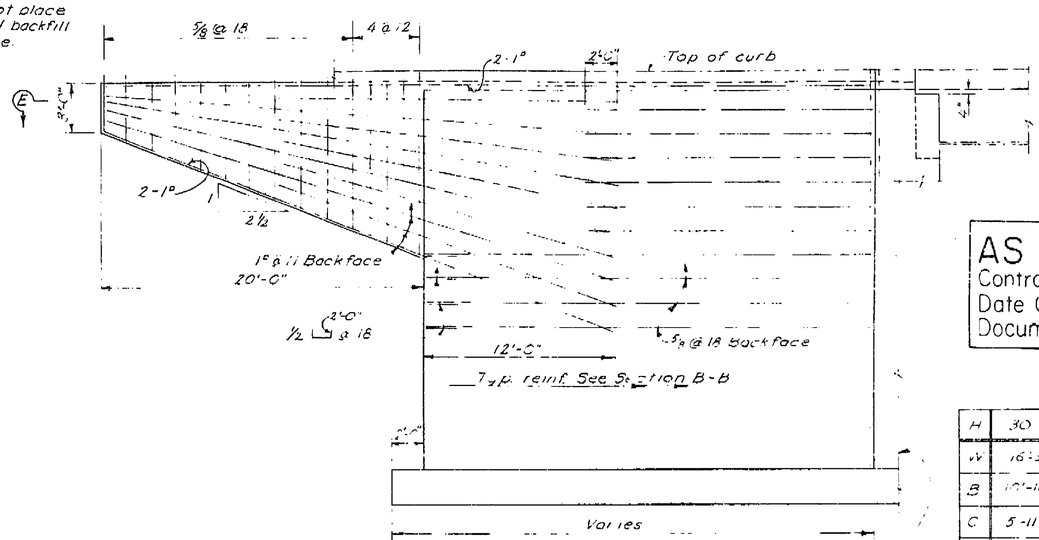
SECTION C-C
Scale: 3/4"=1'-0"



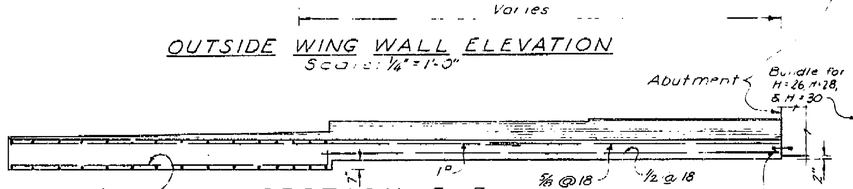
SECTION B-B
Scale: 3/8"=1'-0"



SECTION A-A
Scale: 3/8"=1'-0"



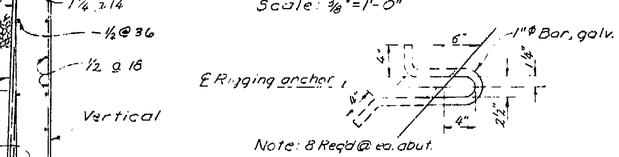
OUTSIDE WING WALL ELEVATION
Scale: 1/4"=1'-0"



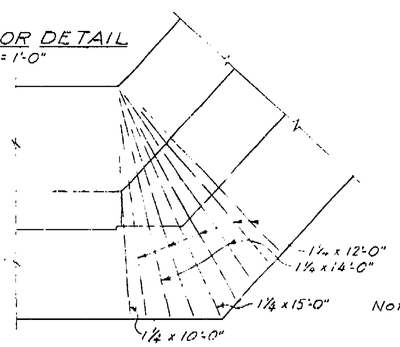
SECTION E-E
Scale 1/4"=1'-0"

Detail W-1

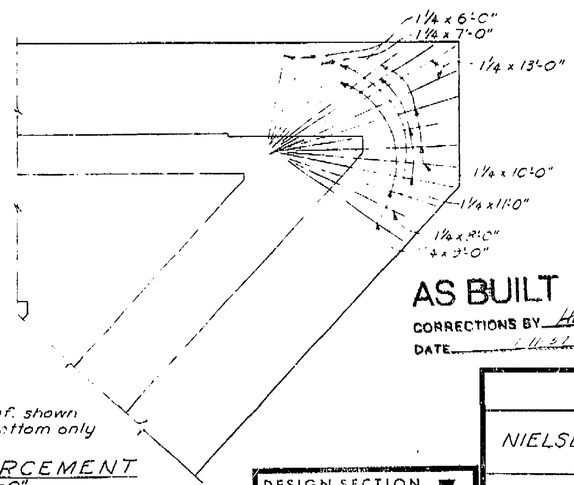
H	30	28	26	24	22
W	16'-3"	15'-3"	14'-3"	13'-3"	12'-6"
B	10'-10"	10'-2"	9'-6"	8'-10"	8'-0"
C	5'-11"	5'-7"	5'-3"	4'-11"	4'-6"
F	2'-5"	2'-3"	2'-1"	1'-11"	1'-9"
A1 Bars	1/4 @ 12	1/4 @ 13 1/2	1/4 @ 15	1/4 @ 17	1/4 @ 21
A2 Bars	1/4 x 23' @ 12	1/4 x 22' @ 13 1/2	1/4 x 21' @ 15	1/4 @ 17 x 20	1/4 @ 21 x 19'
A3 Bars	1/4 x 20'	1/4 x 18'9"	1/4 x 18'9"	1/4 @ 17 x 18'	1/4 @ 21 x 16'
B Bars	1/4 @ 6 x 11'8"	1/4 @ 6 1/2 x 11'2"	1/4 @ 6 1/2 x 10'8"	1/4 @ 7 x 10'0"	1/4 @ 11 x 9'0"

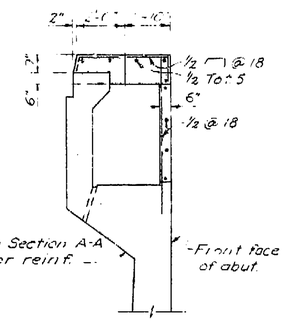


RIGGING ANCHOR DETAIL
Scale: 1 1/2"=1'-0"



FOOTING REINFORCEMENT
Scale: 1/4"=1'-0"





SECTION D-D
Scale: 3/8"=1'-0"

AS BUILT
CORRECTIONS BY Houston
DATE 11-82

AS BUILT PLANS
Contract No 56-6TC1
Date Completed
Document No 60000 990

DESIGN	Initial	Date
DETAILS		
QUANTITIES		
SPECIFICATIONS		

Submitted by

Approved for environmental requirements

Chief, Office of Design

DESIGN 7 SECTION

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

NIELSEN AVENUE UNDERCROSSING

ABUTMENT DETAILS

DESIGN SECTION 7
W R McCabe
PROJECT DESIGNER

SCALE As noted | BRIDGE 42-188 R5'L | FILE | DRAWING C-3508-4

PREL. DRAWING No. P-3508

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE ..... SIGNATURE ..... TITLE .....

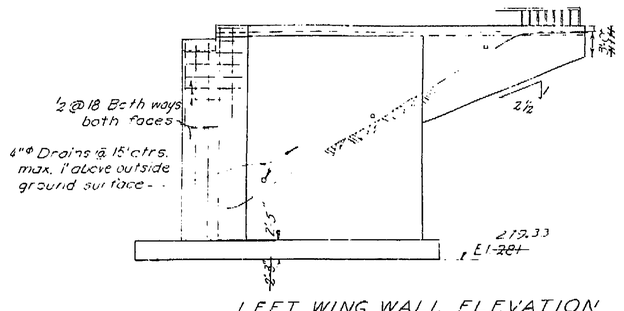
ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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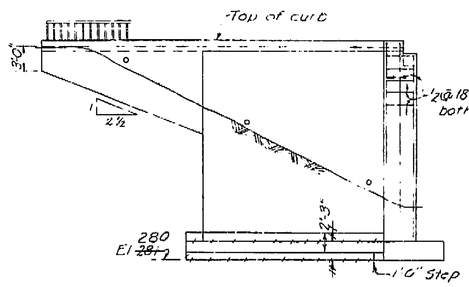
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	4	C	3	14

DATE APPROVED: February 28, 1955

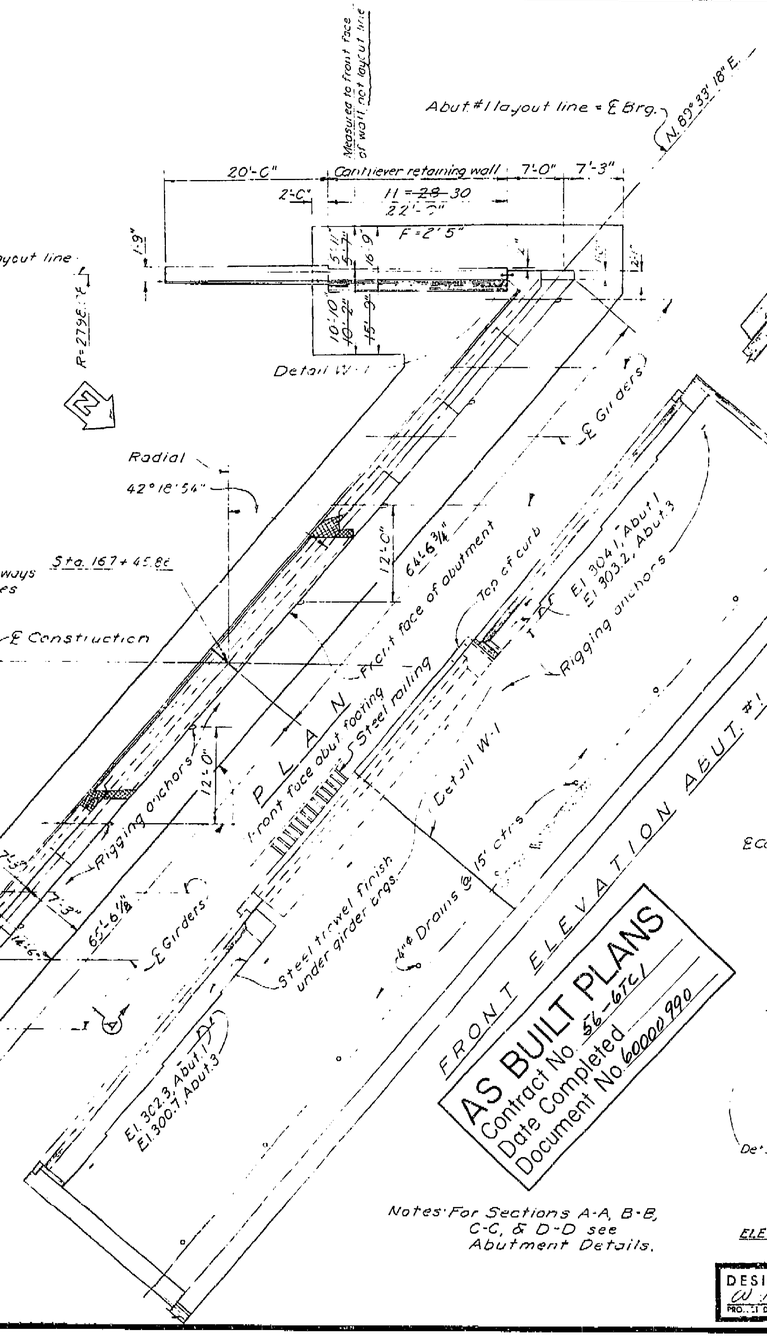
BRIDGE DEPARTMENT

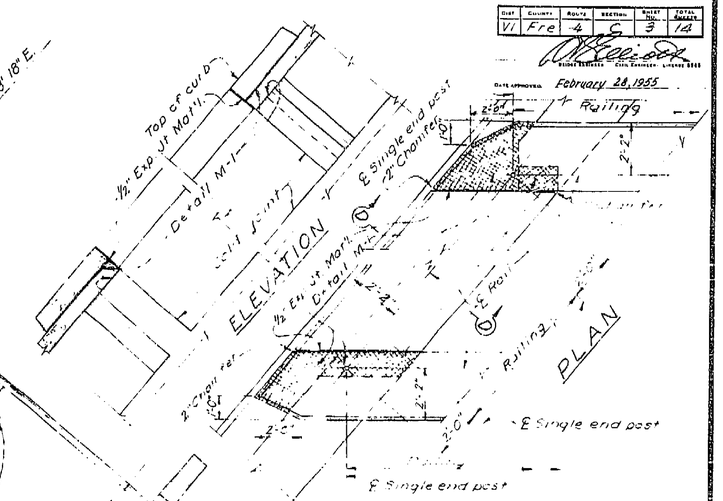


LEFT WING WALL ELEVATION
ABUT. #1

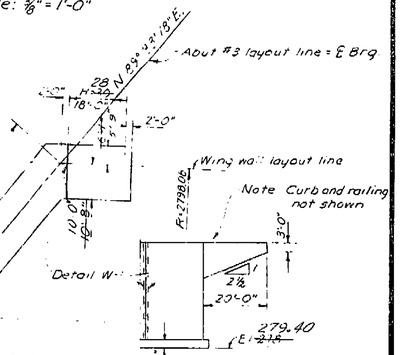


RIGHT WING WALL ELEVATION
ABUT. #1

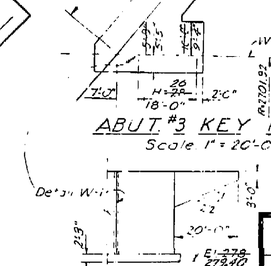




DETAIL OF ABUTMENT MEDIAN
Scale: ⅜" = 1'-0"



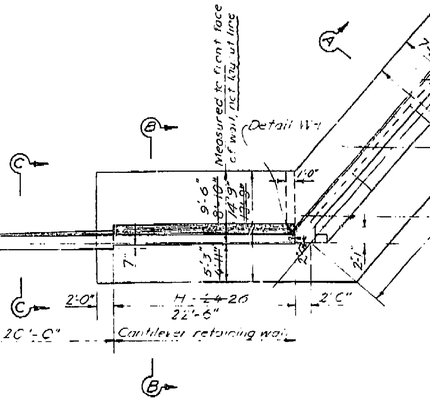
ELEVATION LEFT WING WALL
ABUT #3



ELEVATION RIGHT WING WALL
ABUT. #3

ABUT. #3 KEY PLAN
Scale 1" = 20'-0"

Note. Abutment wall, wing walls, and cantilever overhang not shown on Abut #3 Key Plan.



Notes: For Sections A-A, B-B, C-C, & D-D see Abutment Details.

AS BUILT PLANS
Contract No. 56-67E1
Date Completed
Document No. 60000990

AS BUILT
CORRECTIONS BY Headley
DATE 7-11-57

DESIGN SECTION 7
PROJECT DESIGNER W. R. Hartsdale

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

NIELSEN AVENUE UNDERCROSSING

ABUTMENT LAYOUT

Except as noted SCALE ⅛" = 1'-0" | BRIDGE 42-188 R&L | FILE | DRAWING C-3508-3

PREL. DRAWING No. P-3508 | 8 | 46 | 31

Submitted by [illegible] Date 11-5-54
DESIGN DETAILS — Checked [illegible] Date 11-5-54
QUANTITIES — Checked [illegible] Date 11-5-54
SUPERVISIONS — Checked [illegible] Date 11-5-54
Approved for record [illegible] Date 12-10-54
Bridge Engineer — Chief Engr.
Plan Number 7-564-364

DESIGN 7 SECTION

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE [illegible] SIGNATURE [illegible] TITLE [illegible]

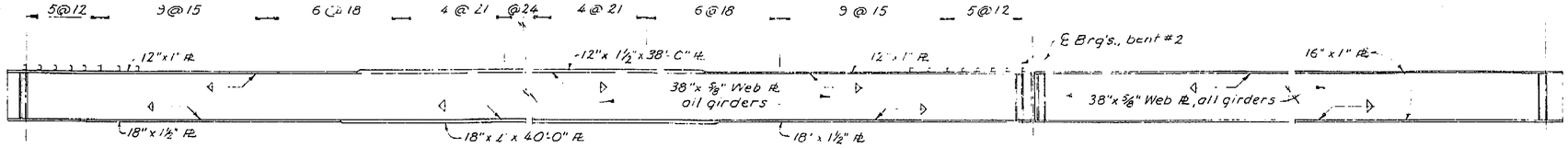
ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF	U 0394 (2)		110	162

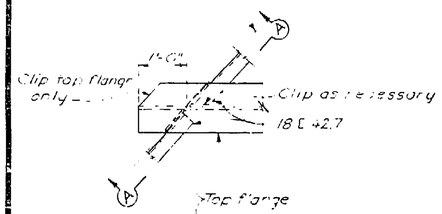
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	4	C	10	14

DATE APPROVED: February 28, 1955

Connector spacing 5@12 — 3@15 — 6@18 — 4@21 — @24 — 4@21 — 6@18 — 9@15 — 5@12

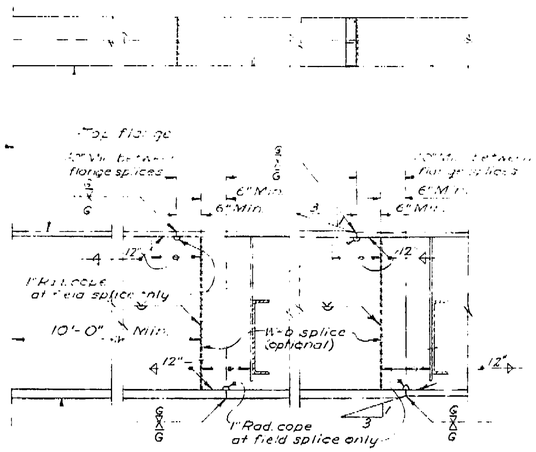


PART ELEVATION
Scale 1/2"=1'-0"

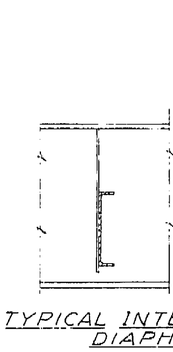


SECTION A-A

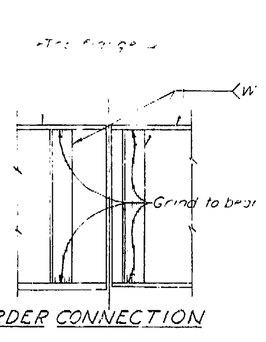
END DIAPHRAGM



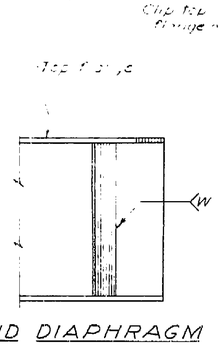
GIRDER SPLICE DETAIL (OPTIONAL)



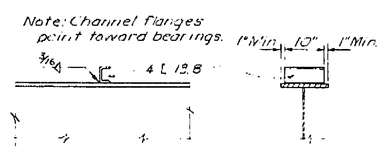
TYPICAL INTERMEDIATE DIAPHRAGM



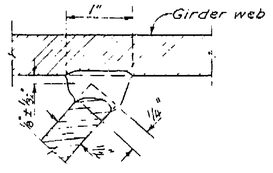
GIRDER CONNECTION



END DIAPHRAGM



CONNECTOR DETAIL



WELD "W"
Full size

Note: Use of high tensile steel bolts or weld at option of contractor. Unless otherwise shown size of fillet welds shall conform to A.W.S. Specifications.

AS BUILT PLANS
Contract No. 56-6TC1
Date Completed
Document No. 60000990

AS BUILT
NO CORRECTIONS ~~BE~~.
DATE 1-11-57

DESIGN SECTION 7
PROJECT DESIGNER W.R. McAdoo

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

NIELSEN AVENUE UNDERCROSSING

GIRDER DETAILS

Except as noted SCALE 3/4"=1'-0" | BRIDGE 42-188 R8.2 | FILE | DRAWING C-3503-10

PREL. DRAWING No. P-3508

BRIDGE DEPARTMENT

	BY	DATE
DESIGN	W.R.McAdoo	6-54
DETAILS	A.M.	6-54
QUANTITIES	R.E. Tesch	6-54
SPECIFICATIONS		
Approved for Submission		

Submitted by

DESIGN SECTION 7

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE: _____ TITLE _____

ClibPDF - www.fastio.com

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2	CAL.	U-0194 121		114	162

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
12	Ora	57	Sec C	44	14

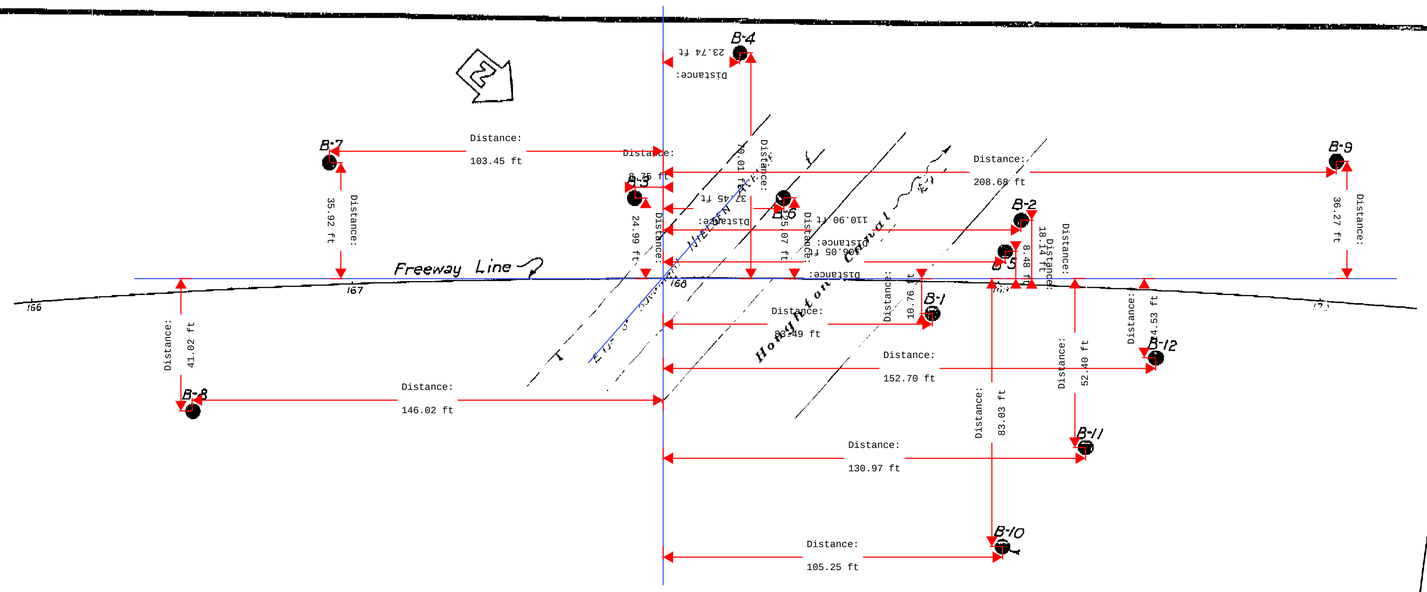
BRIDGE ENGINEER CIVIL ENGINEER 5585

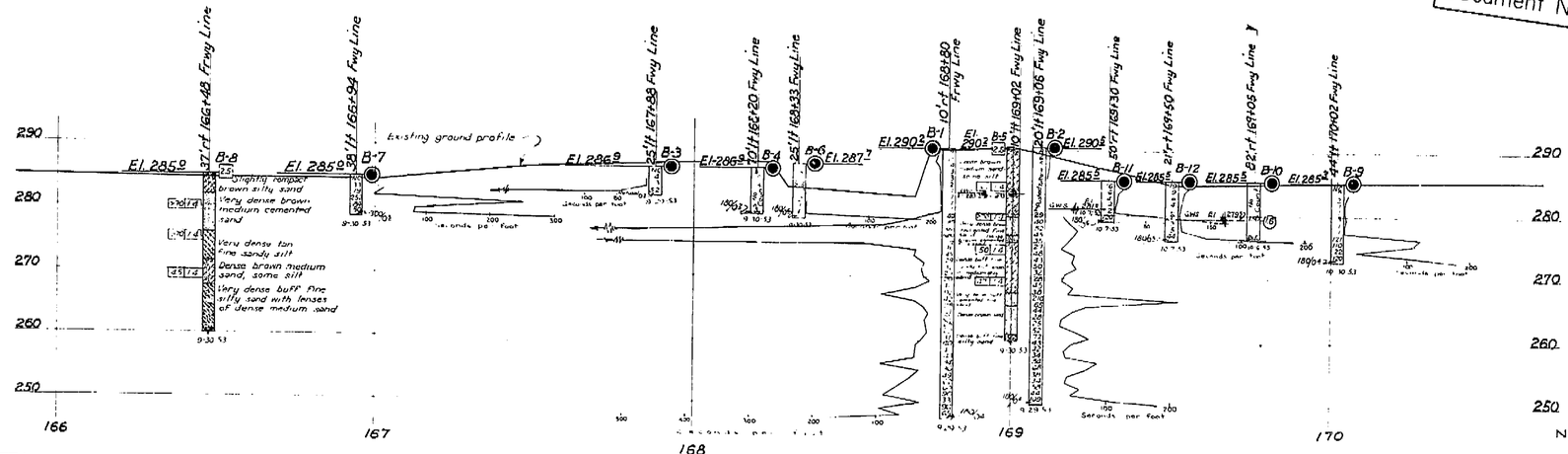
APPROVED February 28, 1955

BRIDGE DEPARTMENT

FIELD STUDY	W.C. Marek 1953
DRAWN	W.A.D. Derr 1954
CHECKED	W.C. Marek & W.A.D. 1955

Approved & Recommended by: W.C. Marek
Engineering Geologist
Materials Engineer





B M
1" iron pipe located approximately 76' ft. S'ly & section line S 89°33'04" W Elev. 288.91

Note Groundwater measured in B-5, B-10 & B-11 is seepage from Houghton Canal

No groundwater was encountered during drilling operations.

AS BUILT
NO CORRECTIONS
DATE 1-11-57

CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS

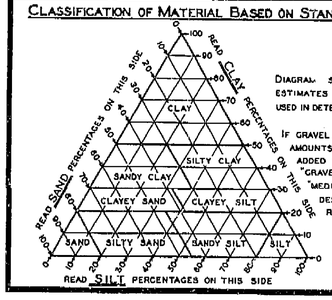


DIAGRAM SHOWING THE BASIS FOR ESTIMATES OF GRADE SIZE DISTRIBUTION USED IN DETERMINATION OF CLASS NAMES

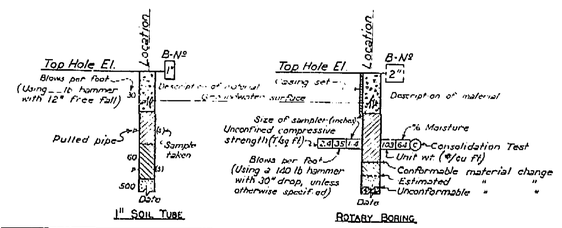
IF GRAVEL IS PRESENT IN APPRECIABLE AMOUNTS THE TERM "GRAVELLY" MAY BE ADDED TO THE CLASS NAME, VIS. "GRAVELLY SAND." THE TERMS "COARSE," "MEDIUM" AND "FINE" WHEN USED TO DESCRIBE GRAVEL, SAND AND SILT REFER TO STANDARD GRADE SIZE LIMITS.

LEGEND OF EARTH MATERIALS

- GRAVEL
- SAND
- SILT
- CLAY
- SANDY CLAY OR CLAYEY SAND
- SANDY SILT OR SILTY SAND
- SILTY CLAY OR CLAYEY SILT
- PEAT AND/OR ORGANIC CLAY
- FILLED MATERIAL
- IGNEOUS ROCK
- SEDIMENTARY ROCK
- METAMORPHIC ROCK

LEGEND OF BORING OPERATIONS

- PLAN OF ANY BORING
- PENETROMETER
- 2½" CONE PENETROMETER
- SAMPLER BORING (DRY)
- ROTARY BORING (WET)
- AUGER BORING (DRY)
- JET BORING
- CORE BORING
- TEST PIT



NOTES

THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 2, ARTICLE (c) OF THE STANDARD SPECIFICATIONS AND TO THE SPECIAL PROVISIONS ACCOMPANYING THIS SET OF PLANS. CLASSIFICATION OF EARTH MATERIAL AS SHOWN ON THIS SHEET IS BASED UPON FIELD INSPECTION AND IS NOT TO BE CONSTRUED TO IMPLY MECHANICAL ANALYSIS.

PENETROMETER BORINGS HAVING A RATE OF PENETRATION MEASURED IN SECONDS PER FOOT ARE DRIVEN WITH A Nº 2 MERIERNAN-TERRY AIR HAMMER AT 115 PSI.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

NIELSEN AVENUE UNDERCROSSING

LOG OF TEST BORINGS

SCALE HORIZ.	1"=20'	BRIDGE	42-188	FILE	E-42	DRAWING	3-3008 14
VERT.	1"=10'						

AS BUILT PLANS
Contract No. 56-67C1
Date Completed
Document No. 60000990

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

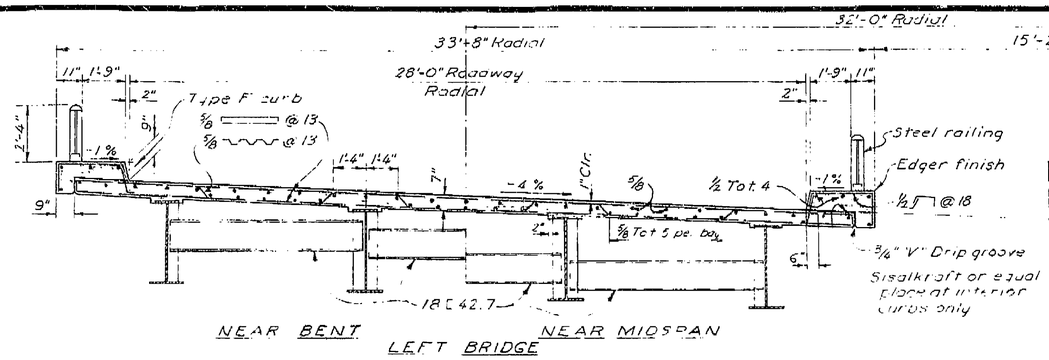
EST. 6647: 85000 7-63 1M State Printing Office

ClibPDF - www.fastio.com

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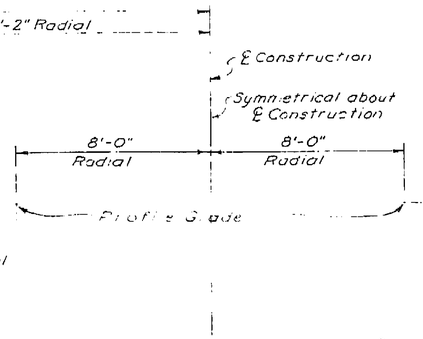
DIST	COUNTY	ROUTE	SECTION	SHEET NO	TOTAL SHEETS
VI	Fre	4	C	-6	14

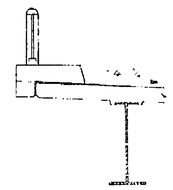
DATE APPROVED February 28, 1958



NEAR BENT NEAR MIDSPAN

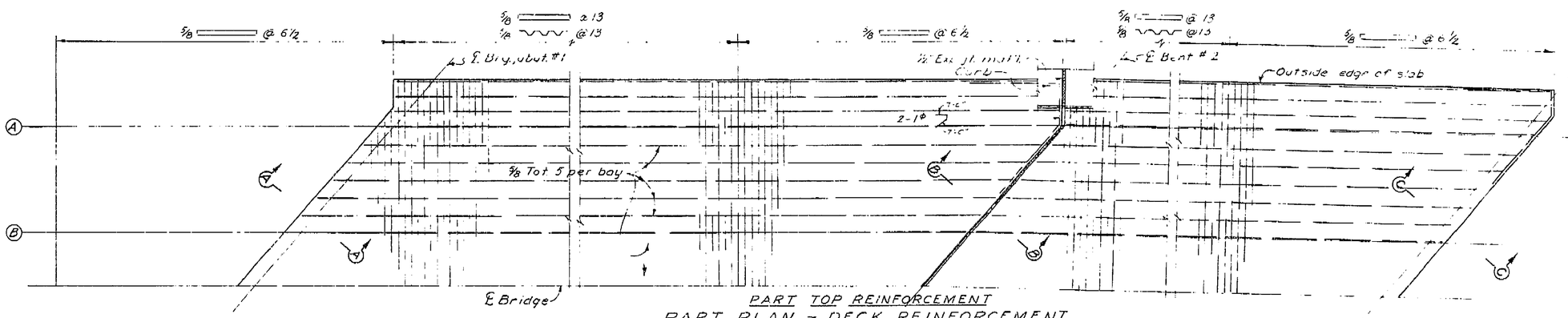
LEFT BRIDGE





TYPICAL SECTION

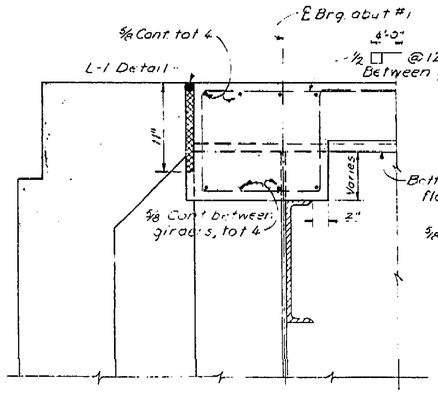
Scale: 3/8" = 1'-0"



PART TOP REINFORCEMENT

PART PLAN - DECK REINFORCEMENT

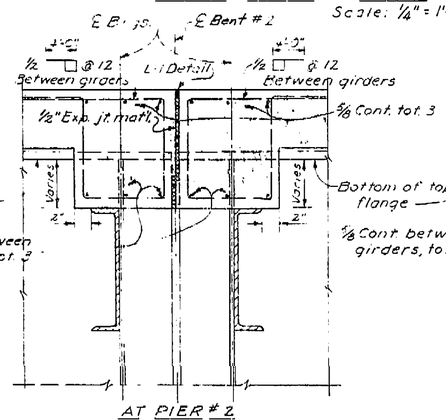
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AT ABUT. #1

SECTION A-A

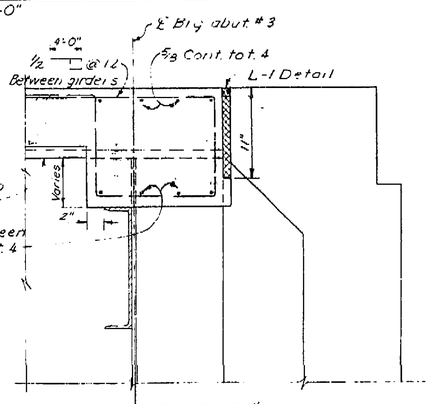
Scale. 1½"=1'-0"



AT PIER # 2.

SECTION B-B

Scale. 1½"=1'-0"



AT ABUT. #3

SECTION C-C

Scale: 1½"=1'-0"

AS BUILT PLANS
Contract No 56-67C1
Date Completed
Document No 60000990

AS BUILT
NO CORRECTIONS
DATE 6-6-67

DESIGN SECTION 7
PROJECT DESIGNER W R McAdoo

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

NIELSEN AVENUE UNDERCROSSING

TYPICAL SECTION

SCALE As noted | BRIDGE 42-188R&L | FILE | DRAWING C-3508-6

PREL. DRAWING No P- 3508

BRIDGE DEPARTMENT

Submitted		1-27-58	Design		
Checked		1-27-58	Detail		
Checked		1-27-58	Check		
QUANTITIES		1-27-58	Detail		
SPECIFICATIONS		1-27-58	Check		
Approved for submission			Bridge Engineer		

DESIGN 7 SECTION

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE AS-BUILT DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE ____ SIGNATURE ____ TITLE ____

ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.	0-2194 (2)		107	162

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
11	Fre	4	C	9	14

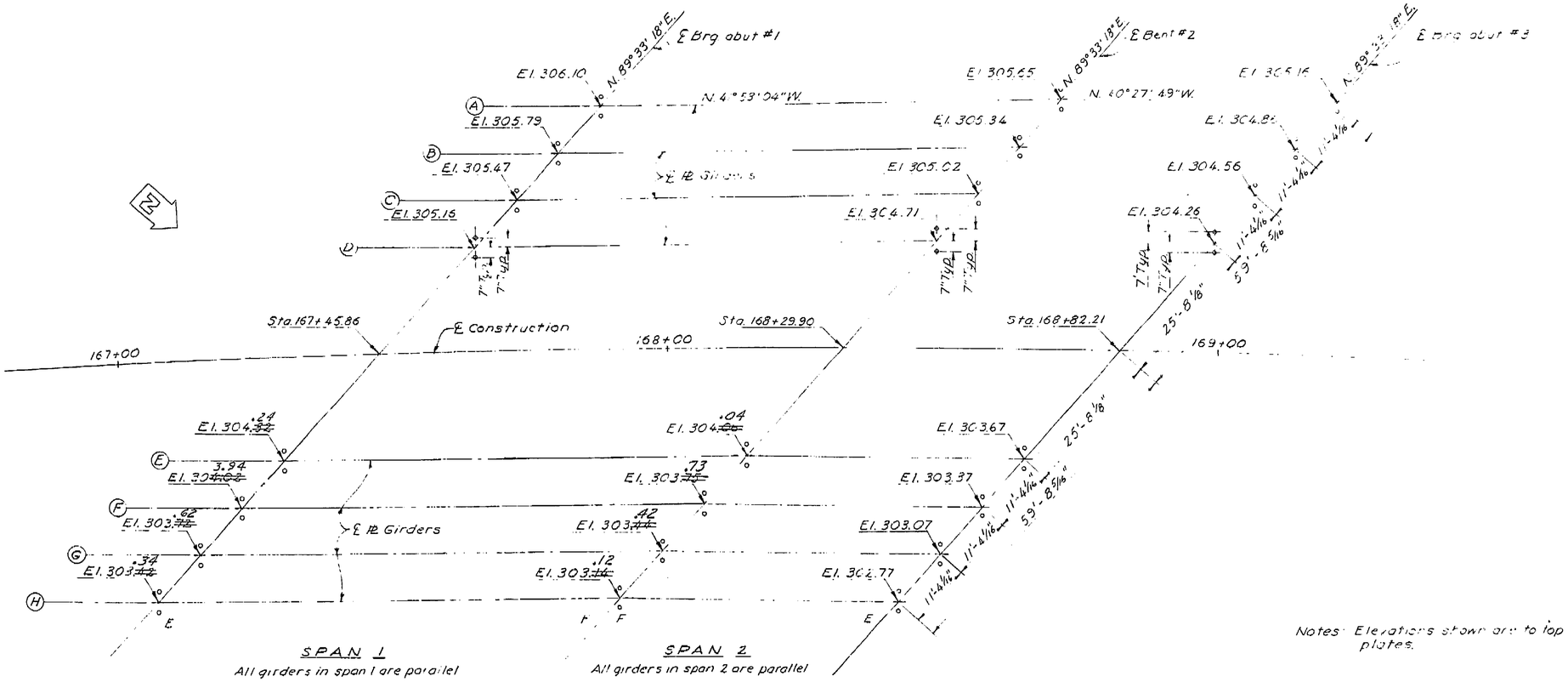
W. R. McCutcheon
DISTRICT BRIDGE ENGINEER — CIVIL ENGINEER — CIVIL ENGINEER

DATE APPROVED February 28, 1955

BRIDGE DEPARTMENT

DESIGN 7 SECTION

Submitted by W. R. McCutcheon
Assistant
DESIGN — Initials — Date
DETAILS — Initials — Date
QUANTITIES — Initials — Date
SPECIFICATIONS — Initials — Date
Approved for submission by W. R. McCutcheon
Bridge Engineer



Notes: Elevations shown are to top of masonry plates.

AS BUILT
CORRECTIONS BY Hpeterson
DATE 6-6-57

AS BUILT PLANS
Contract No. 56-6TC1
Date Completed
Document No. 60000990

DESIGN SECTION 7
W.R. McCutcheon
PROJECT DESIGNER

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

NIELSEN AVENUE UNDERCROSSING

ANCHOR BOLT LAYOUT

SCALE 1"= 10'-0" | BRIDGE 62-138R&L | FILE | DRAWING C-3508-7

PREL. DRAWING NO. P- 3508

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

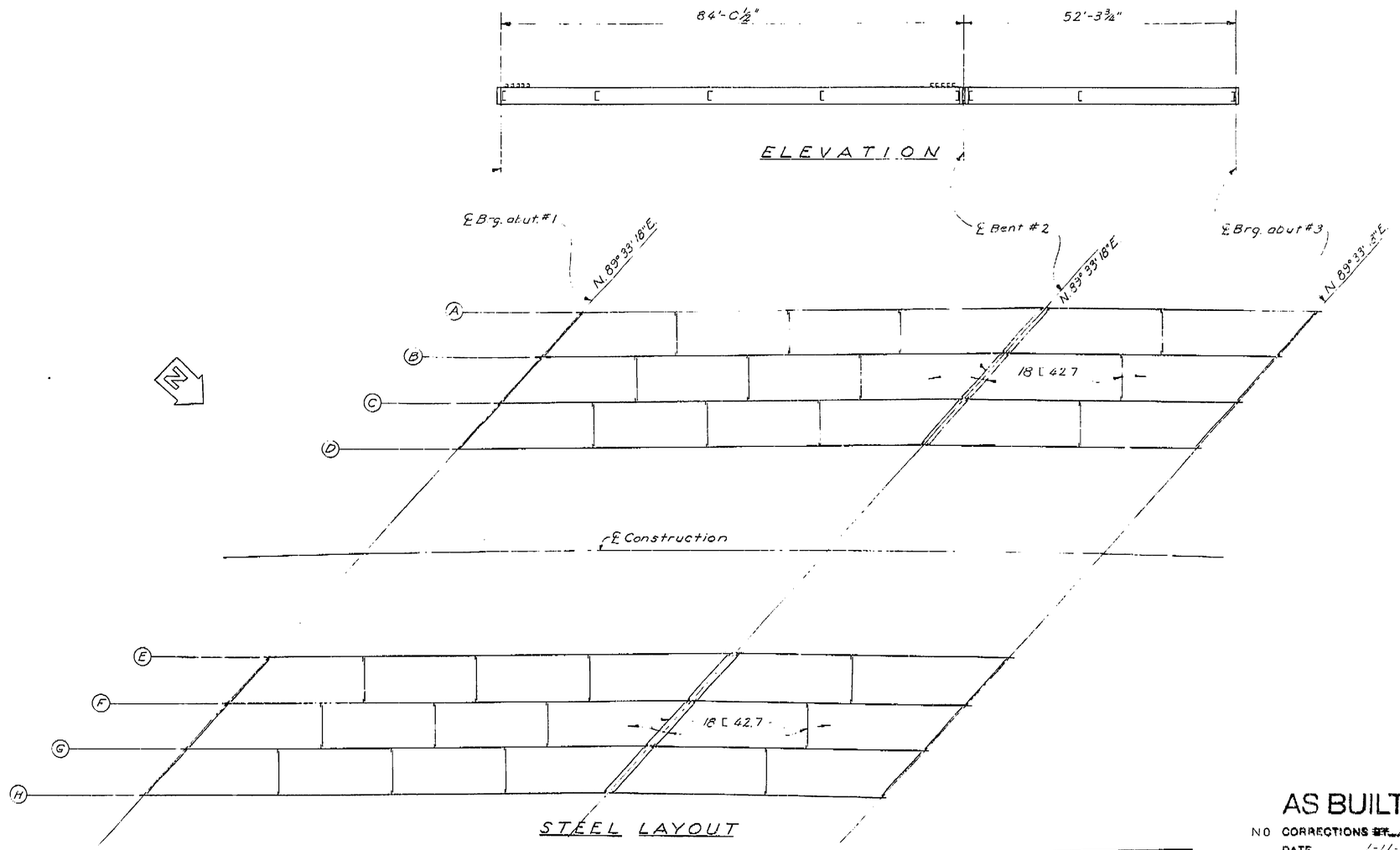
DATE _____ SIGNATURE _____ TITLE _____

ClibPDF - www.fastio.com

FED ROAD DIV NO	STATE	PROJ NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
7	CALIF.	U 8194		108	162

UNIT	COUNTY	ROUTE	SECTION	SHEET NO	TOTAL SHEETS
VI	Fre	4	G	8	14

DATE APPROVED February 28, 1955



AS BUILT
NO CORRECTIONS ~~ET~~ Hawkins
DATE 1-11-57

AS BUILT PLANS
Contract No. 56-67C1
Date Completed
Document No. 60000990

DESIGN SECTION 7
W R McAdoo
PROJECT DESIGNER

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

NIELSEN AVENUE UNDERCROSSING

GIRDER LAYOUT

SCALE 1" = 10'-0" | BRIDGE 42-188R&L | FILE | DRAWING C-3508-B

PREL. DRAWING NO. P-3508 | X | 25 | 30

BRIDGE DEPARTMENT

	Submitted by	Checked by	Date
DETAILS			
QUANTITIES			
SPECIFICATIONS			

DESIGN 7 SECTION

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

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FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.	U-0198 (5)		101	162

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	-4	C	-1	14

DATE APPROVED February 28, 1958

BRIDGE DEPARTMENT

DESIGN 7 SECTION

DESIGN	Bent #2	Sheet 5	Dwg. No. 3508-5	Quantities	Bent #2	Sheet 5	Dwg. No. 3508-5
DETAILS	Bent #2	Sheet 5	Dwg. No. 3508-5	Specifications	Bridge	Sheet 5	Dwg. No. 3508-5

Submitted by [signature] Date 1-11-57

Approved for record [signature] Date 1-11-57

Bridge Engineer

Bridge No. 42-188 R/W 1566-368

Rate of change = R = C.539 %/Sta.
1000' V.C.

+2.50% — 162+30.00 E.C. El 303.37 — 172+30.00 E.C. El 301.42 — -2.89%

PROFILE GRADE
No Scale

① For side 8' above roadway

E.B. — E.B. Brg. abut. 1 — 142'-11¾" — E Bent 2 — 52'-3⅜" — E.B. — E Brg. abut. 3

3'-6½" — 84'-0½" — 3'-3"

15.08 Min.

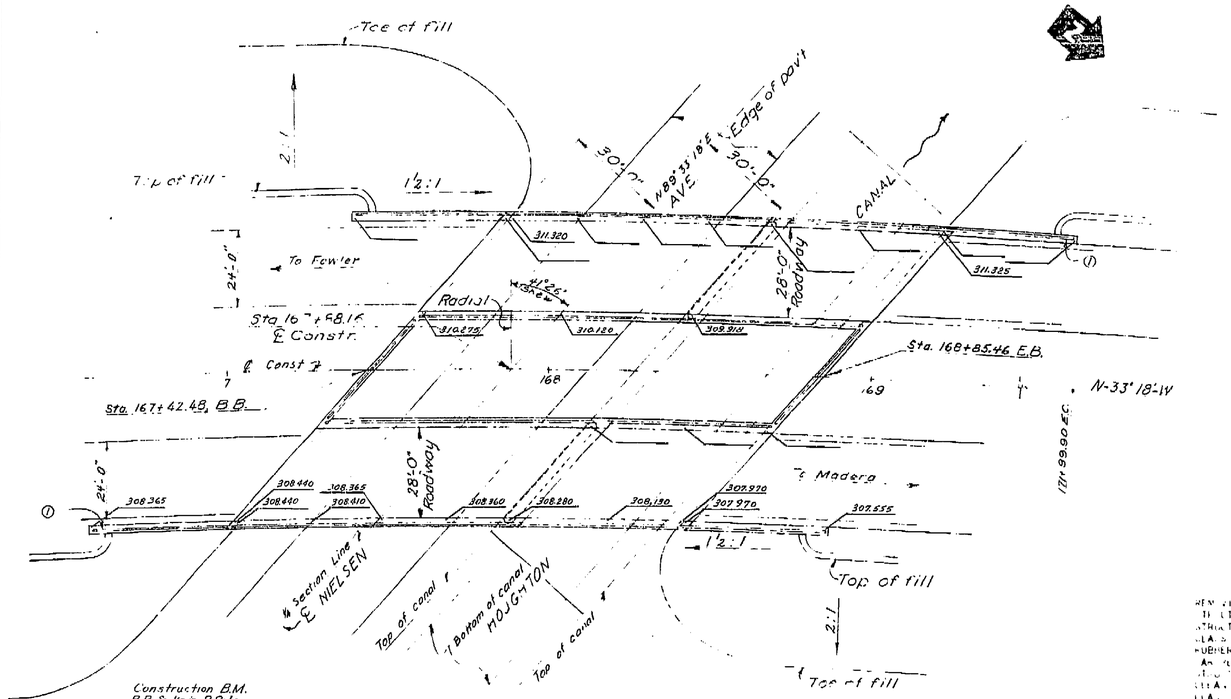
El 281 — El 279 — El 278

Original ground — Abut No. 1 — ① Near side 8' above roadway — Bent No. 2 — Abut No. 3

Datum Elev. 260.0

7 — 168 — 9

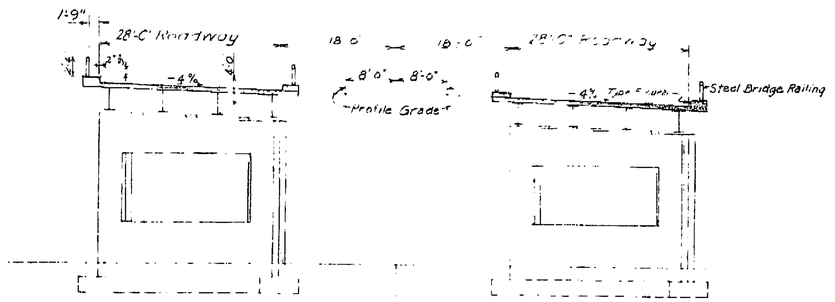
ELEVATION



PLAN

℄ Const.
Curve Data
Δ = 34°04'
R = 2750'
T = 842.51'
L = 1635.08'

℄ Const.



TYPICAL SECTION
Scale 1" = 10'

INDEX

SHEET NO.	TITLE
1	General Plan
2	Foundation Plan
3	Abutment Layout
4	Abutment Details
5	Bent #2 Details
6	Typical Section
7	Anchor Bolt Layout
8	Girder Layout
9	Bearing Details
10	Girder Details
11	Standard Details
12	Curbs
13	Steel Railing
14	Log of Test Borings

AS BUILT PLANS
Contract No. 56-67C1
Date Completed
Document No. 60000990

① Bridge No. & Date

Live Loading = H20-S16-44

Note: For General Notes see sheet 12.

AS BUILT
CORRECTIONS BY [signature]
DATE 1-11-57

DESIGN 7
[signature] [signature]
PREPARED BY

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

NIELSEN AVENUE UNDERCROSSING
LOCATED ABOUT 0.4 MILES WEST OF THE WEST CITY LIMITS OF FRESNO IN FRESNO COUNTY

GENERAL PLAN

Except as noted SCALE 1" = 20' | BRIDGE 42-188 R/W | FILE | DRAWING 0-3508-1

PREL. DRAWING No. P-3508

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE [illegible] SIGNATURE [illegible] TITLE [illegible]

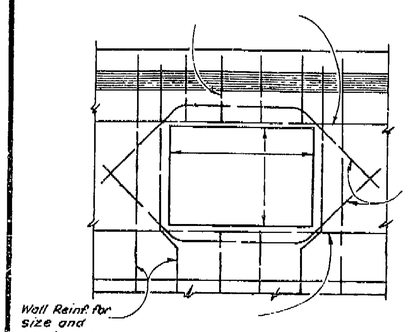
ClibPDF - www.fastio.com

STANDARD DWG	Initial	Date
Design		
Detail	R.A.	10-53
Check		
Quant		
Check		
Supervised		

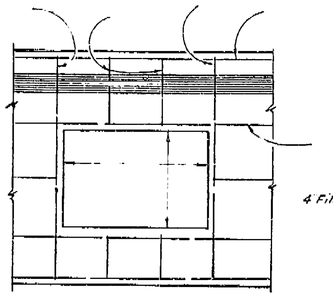
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2	CAL	U-023(4)		111	162

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	4		11	14

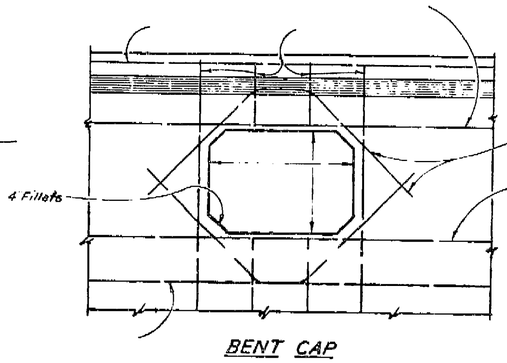
Approved February 28, 1955



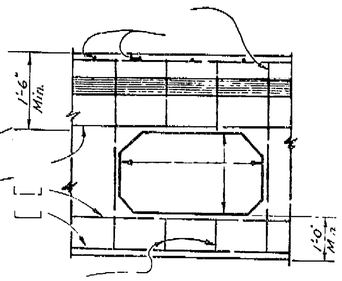
ABUTMENT BACKWALL
DETAIL U1



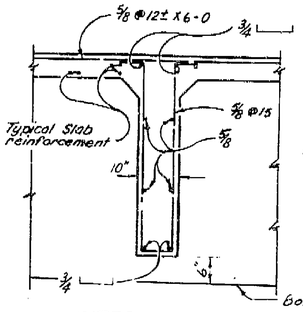
END DIAPHRAGM
DETAIL U2



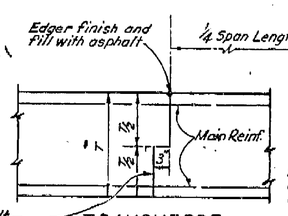
BENT CAP
DETAIL U3



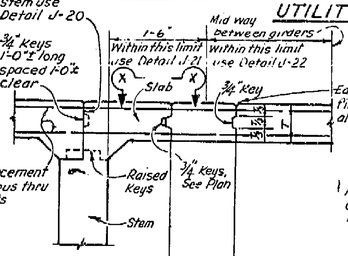
INTERMEDIATE DIAPHRAGM
DETAIL U4



INTERMEDIATE DIAPHRAGM SECTION
DETAIL D1

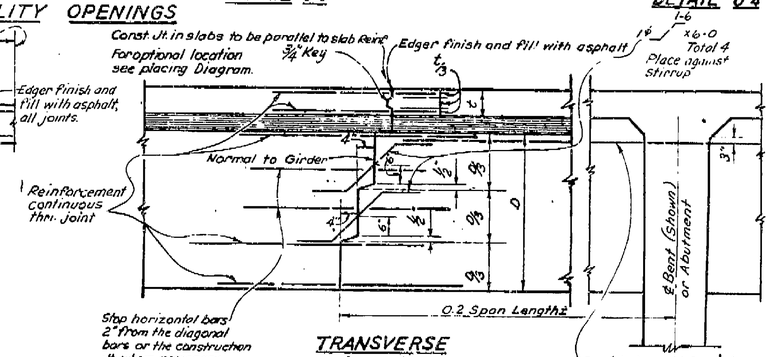


TRANSVERSE SLAB BRIDGE
DETAIL J-1

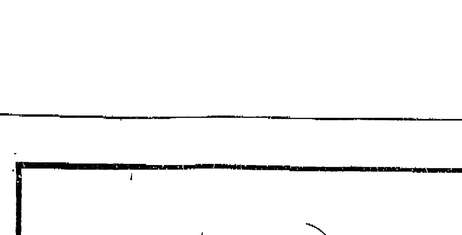


DETAIL J-20 DETAIL J-21 DETAIL J-22

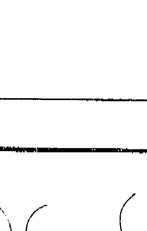
UTILITY OPENINGS



TRANSVERSE GIRDER
DETAIL J-3



SECTION A-A

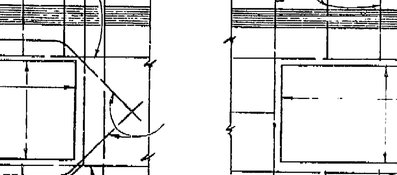


PART PLAN X-X

Note: Location of longitudinal construction joints in slabs to be at edge of traffic lanes except as approved by the Engineer

LONGITUDINAL DECK SL1B

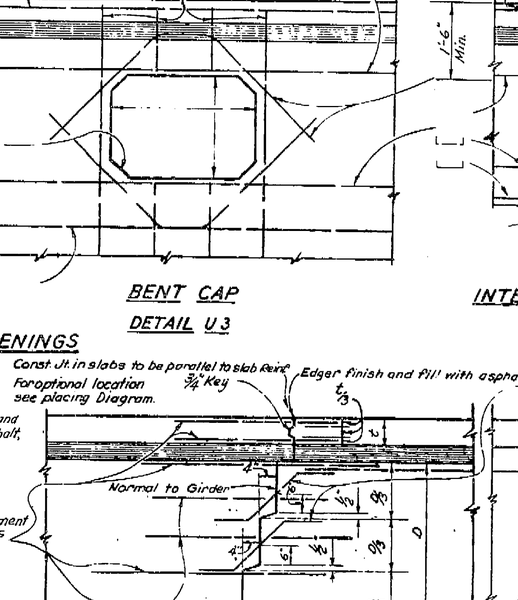
PART SECTION EXTERIOR GIRDER WITH SLAB CANTILEVER



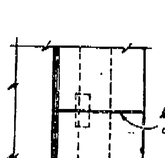
PART SECTION INTERIOR GIRDER

PART SECTION EXTERIOR GIRDER WITH CURB

KEY - GIRDER STEM TO SLAB
DETAIL J-5

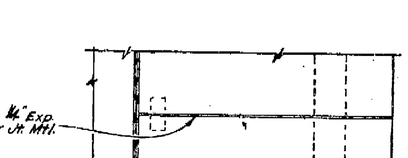


BENT CAP DIAPHRAGMS
LONGITUDINAL
DETAIL J-4



DESIGN SECTION 7
PROJECT DESIGNER

RUBBER WATERSTOP
DETAIL W1
For use where watertight joint is required



LATEX AT EXPANSION JOINT
DETAIL L1

CURB
DETAIL C1

SIDEWALK
DETAIL S1

CURB AND SIDEWALK EXPANSION JOINTS

NOTE: In simple spans place joint at midspan. In continuous spans place joint over ℄ interior piers or bents and at midspans.

AS BUILT
NO CORRECTIONS
DATE 1-11-57

CONSTRUCTION JOINTS

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

NIELSEN AVEN... UN... ...ING

STANDARD DETAILS

SCALE None	BRIDGE 4... MAL	XS-16-21	DRAWING C-3508-11

DRAWING NO. 3...

T BEAM

AS BUILT PLANS
Contract No 56-67C1
Date Completed
Document No 60000 990

DESIGN 7 SECTION

ORIGINAL DO NOT USE

I HEREBY CERTIFY THAT THIS ... WAS PREPARED BY ME OR UNDER MY DIRECTION AND ... APPROVAL BY THE DEPARTMENT OF ...

DATE ... SIGNATURE ...

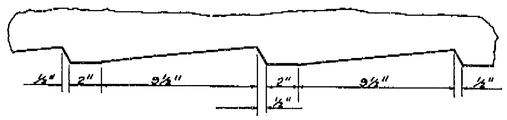
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FED ROAD DIST NO	STATE	PROJ NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
2	CAL	0 8198 (3)		112	162

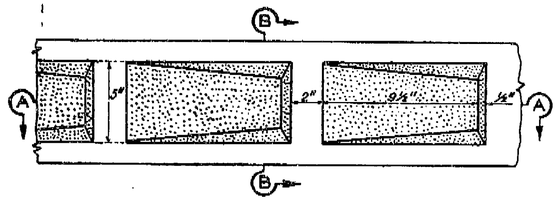
DIST	COUNTY	ROUTE	SECTION	SHEET NO	TOTAL SHEETS
VI	Fre	4	C	42	14

Stewart Mitchell
BRIDGE ENGINEER — CIVIL ENGINEER LICENSE 5628

APPROVED February 28, 1955

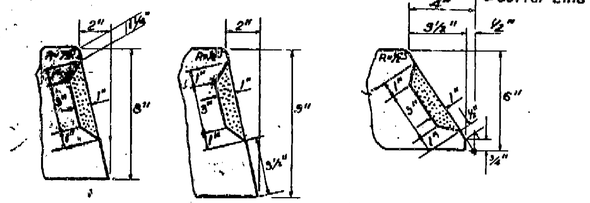


SECTION A-A
SCALE ½"= 1"



PANEL
SCALE ½"= 1"

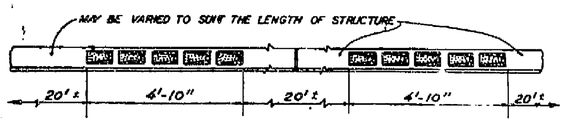
WHERE CURBS OF ANY OTHER HEIGHT ARE USED THE RECESSES SHALL BE IN THE SAME RELATIVE POSITION FROM THE TOP OF CURB.



SECTION B-B
TYPE A
SCALE ½"= 1"

SECTION B-B
TYPE F
SCALE ½"= 1"

SECTION B-B
TYPE B
SCALE ½"= 1"



DIRECTION OF TRAFFIC FLOW
DIVIDING STRIP AND BRIDGE CURB
SCALE 1"= 2'

Dividing strip installation shown

SURFACES SHOWN THUS ▨ SHALL BE PAINTED

GENERAL NOTE

SPECIFICATIONS
EXCEPT AS SHOWN, DATED 1953 WITH SUPPLEMENT REVISIONS, AND ENTIRE DEPARTMENT SUPPLEMENT DATED 1953.

AS BUILT PLANS
Contract No. 56-6TC1
Date Completed
Document No. 60000990

AS BUILT
NO CORRECTIONS BY: Hawkins
DATE 6-11-57

DESIGN SECTION 7
PROJECT DESIGNER Wk McAdoo

NIELSEN AVENUE UNDERCROSSING

CURBS

SCALE As noted | FILE NO. XS-11-17

BRIDGE NO. 42-188 R&L | DRAWING NO. B-3503-12

PREL. DRAWING NO. P-3508 | 12-7

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE ____ SIGNATURE ____ TITLE ____

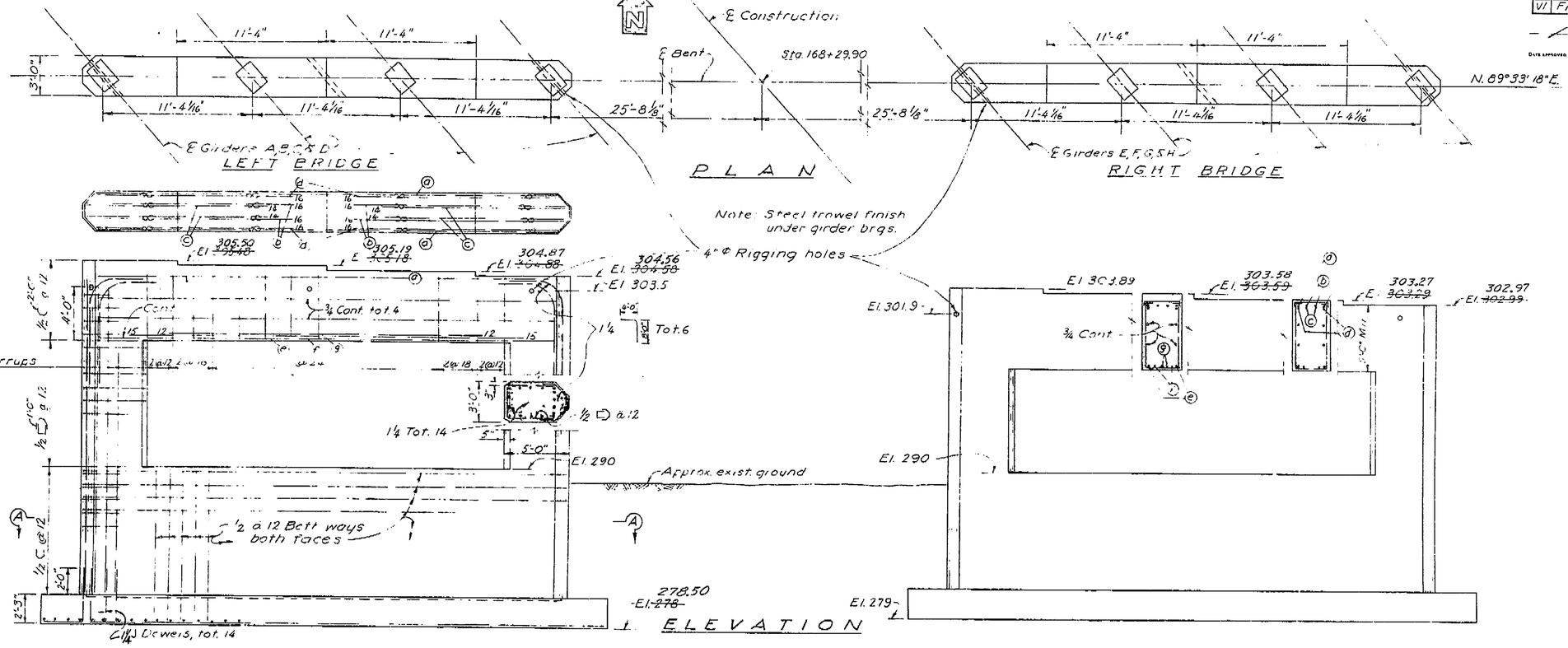
ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEARS	SHEET NO.	TOTAL SHEETS
7	CALIF.	11-015-A (2)		105	162

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	-4	C	5	14

DATE APPROVED February 28, 1955

BRIDGE DEPARTMENT



AS BUILT
CORRECTIONS BY Henderson
DATE 1-11-57

AS BUILT PLANS
Contract No. 56-6TC1
Date Completed
Document No. 60000990

NOTES
All bars 1¼ unless otherwise noted.
Bundled bars shown thus

DESIGN SECTION 7
PROJECT DESIGNER C.U.R. McCabe

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

NIELSEN AVENUE UNDERCROSSING

BENT #2 DETAILS

SCALE 1/4"=1'-0" | BRIDGE 42-188 R&L | FILE | DRAWING C-3508-3

PREL. DRAWING No. P-3525

DESIGN 7 SECTION

REVISIONS	BY	DATE
Design		
Details		
Quantities		
Specifications		

Submitted for Approval: [illegible]
Approval Recommended: [illegible]

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE [illegible] SIGNATURE [illegible] TITLE [illegible]

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California Department of Transportation
Division of Maintenance

Structure Maintenance and Investigations

BRIDGE

INSPECTION

RECORDS

INFORMATION

SYSTEM

The requested documents have been generated by BIRIS.

These documents are the property of the California Department of Transportation and should be handled in accordance with Deputy Directive 55 and the State Administrative Manual.

Records for “Confidential” bridges may only be released outside the Department of Transportation upon execution of a confidentiality agreement.

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	128	133

10/3/00
REGISTERED CIVIL ENGINEER

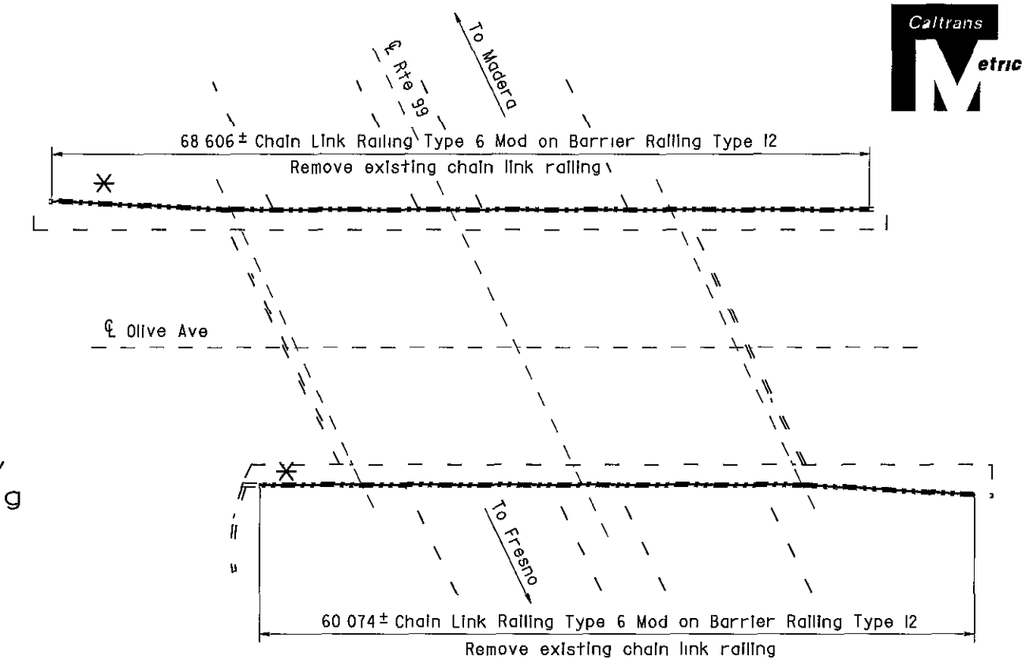
11-13-00
PLANS APPROVAL DATE

DIOSDADO ACOBA No 52003 Exp 12-31 02 CIVIL STATE OF CALIFORNIA REGISTERED PROFESSIONAL ENGINEER

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.



OLIVE AVENUE OC

Br No 42-0187, Fre, KP 37 5
1 250

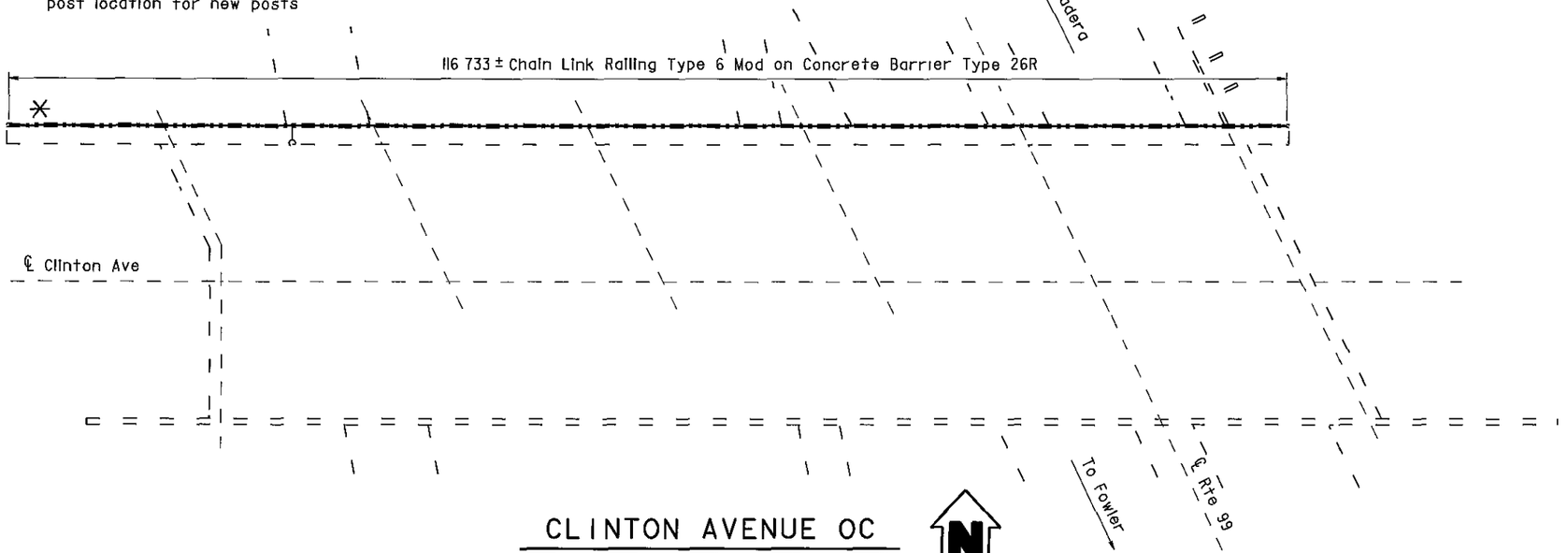
NOTES

— — Indicates existing

℄ Indicates approximate location of existing electrolier (To remain)

Note

Remove existing Chain Link Railing Type 7 core 152 mm x 230 mm deep hole at existing post location for new posts



CLINTON AVENUE OC

Br No 42-0183, Fre, KP 39 3
1 250

OLIVE AVENUE OC 42-0187
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION M	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	129 m

CLINTON AVENUE OC 42-0183
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION N	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	116 m

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED		BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00	LAYOUT	K Endow	4/00	D Acoba 4/00
DETAILS	K Endow	4/00	F Tannous	5/00				
QUANTITIES	D Acoba	5/00	F Tannous	5/00	SPECIFICATIONS	J Maroney	9/00	PLANS AND SPECS COMPARED J Maroney 9/00

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 6

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE => nagp6.dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/17/00 | 9/26/00 | 10/3/00

SHEET 6 OF 11

USERNAME => mcarlson DATE PLOTTED => 03 JAN-2003 TIME PLOTTED => 08 53

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	129	133

10/3/00
REGISTERED CIVIL ENGINEER

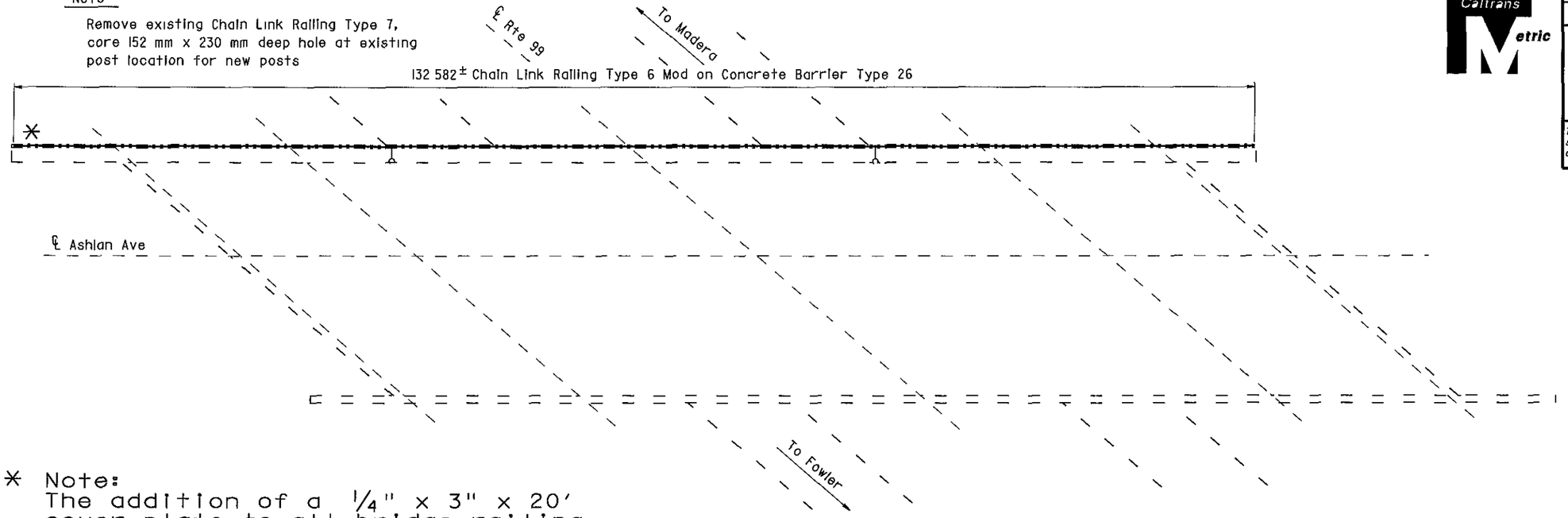
11-13-00
PLANS APPROVAL DATE

DIOSDADO ACOBA No 52003 Exp 12-31-02 CIVIL STATE OF CALIFORNIA

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Note

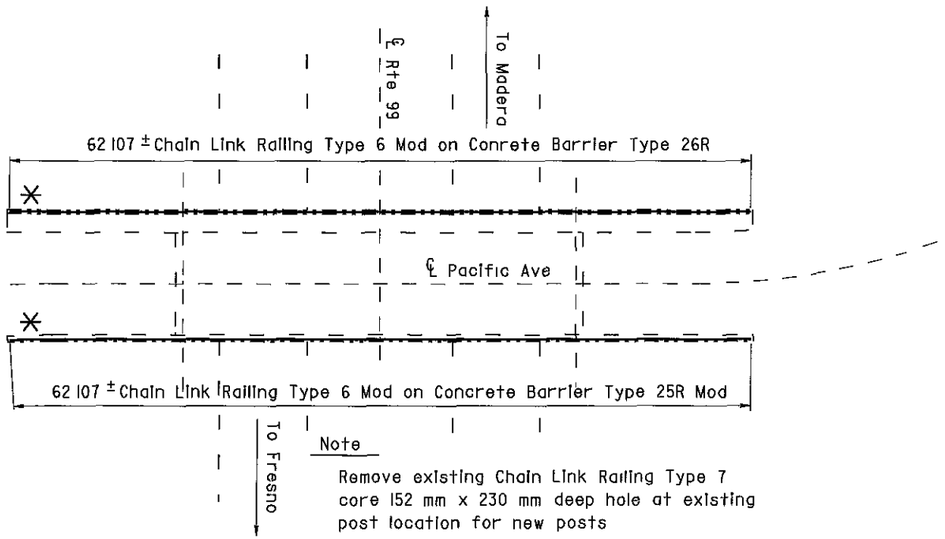
Remove existing Chain Link Railing Type 7, core 152 mm x 230 mm deep hole at existing post location for new posts



* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

ASHLAN AVENUE OC

Br No 42-0140, Fre, KP 42 8
1 250



Note

Remove existing Chain Link Railing Type 7 core 152 mm x 230 mm deep hole at existing post location for new posts

PACIFIC AVENUE OC

Br No 42-0189, Fre, KP 36 0
1 250

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

NOTES

— — Indicates existing

℄ ↓ Indicates approximate location of existing electrolier (To remain)

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

ASHLAN AVENUE OC 42-0140
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION O	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	133 m

PACIFIC AVENUE OC 42-0189
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION P	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	124 m

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

DESIGN	BY D Acoba 4/00	CHECKED F Tannous 5/00	LAYOUT	BY K Endow 4/00	CHECKED D Acoba 4/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE
DETAILS	BY K Endow 4/00	CHECKED F Tannous 5/00					
QUANTITIES	BY D Acoba 5/00	CHECKED F Tannous 5/00	SPECIFICATIONS	BY J Maroney 9/00	PLANS AND SPECS COMPARED J Maroney 9/00		

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 7

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE => nagp7.dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 5/15/00 7/17/00 9/26/00 10/3/00

SHEET 7 OF 11

USERNAME -> mgarrison DATE PLOTTED => 03 JAN 2003 TIME PLOTTED => 11:45

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	127	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

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FRESNO STREET OC 42-0170
QUANTITIES

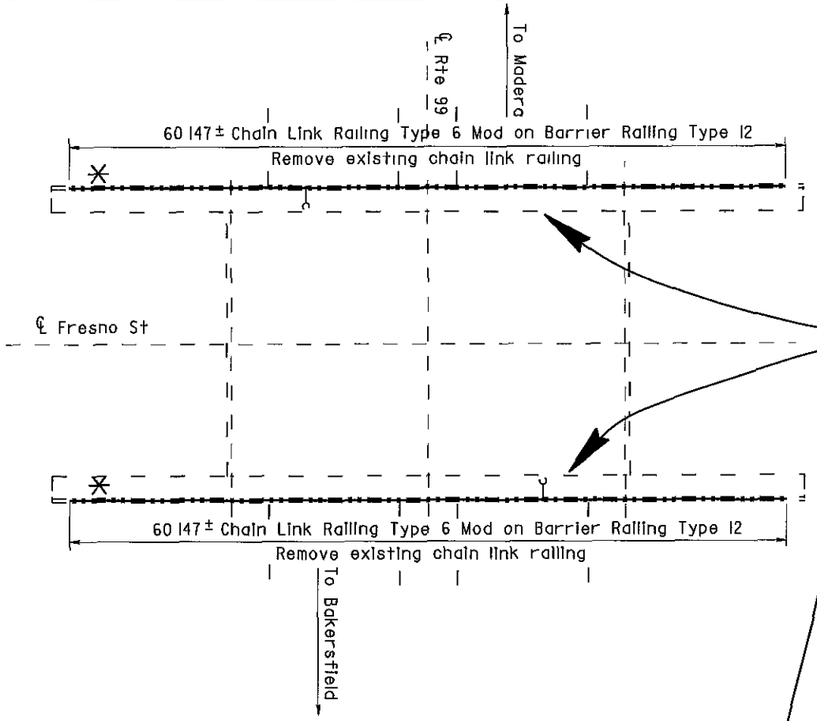
BRIDGE REMOVAL (PORTION), LOCATION J	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	120 m

EL DORADO STREET OC 42-0184
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION K	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	122 m

BELMONT AVENUE OC 42-0186
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION L	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	138 m



Handrail added to Fresno St. and Belmont Ave. OC

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

NOTES

— — Indicates existing

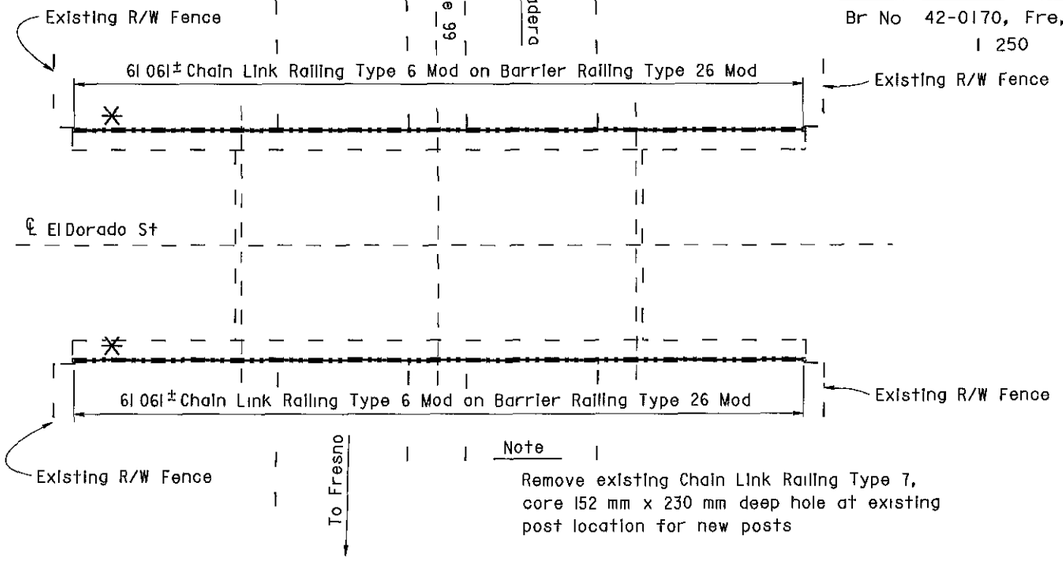
℄ Indicates approximate location of existing electrolier (To remain)

Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

FRESNO STREET OC

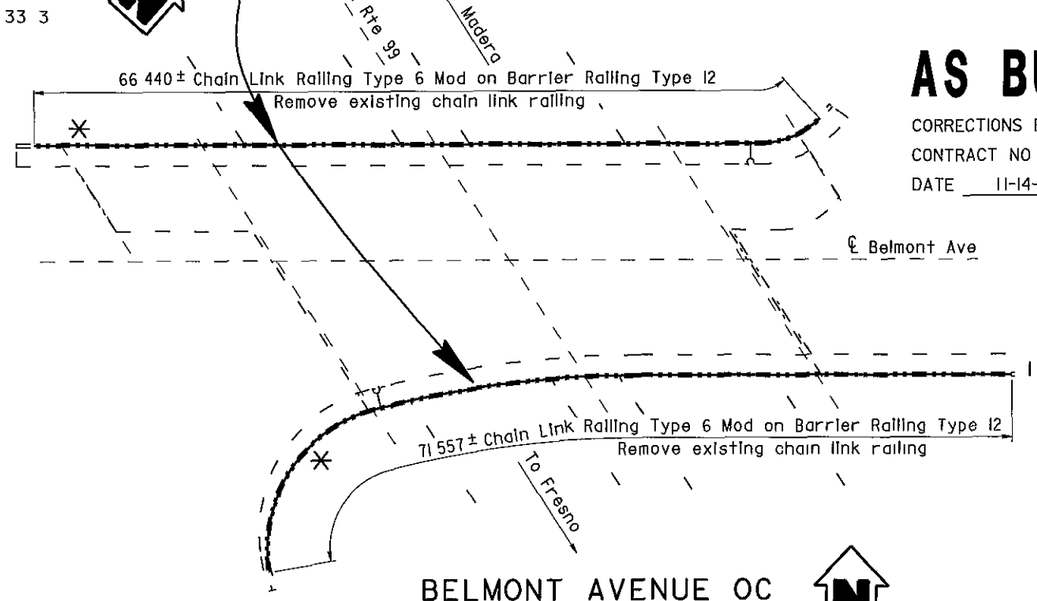
Br No 42-0170, Fre, KP 33 3
1 250



Note
Remove existing Chain Link Railing Type 7, core 152 mm x 230 mm deep hole at existing post location for new posts

EL DORADO STREET OC

Br No 42-0184, Fre, KP 34 6
1 250



BELMONT AVENUE OC

Br No 42-0186, Fre, KP 36 5
1 250

AS BUILT
MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED		LAYOUT	BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00		K Endow	4/00	D Acoba	4/00
DETAILS	K Endow	4/00	F Tannous	5/00				PLANS AND SPECS COMPARED	
QUANTITIES	D Acoba	5/00	F Tannous	5/00	SPECIFICATIONS	J Maroney	9/00	J Maroney	9/00

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

CU 06015
EA 440101

FILE => nogp5.dgn

BRIDGE NO	Various
KILOMETER POST	Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 5

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)									
5/15/00	7/17/00	9/26/00	10/3/00						

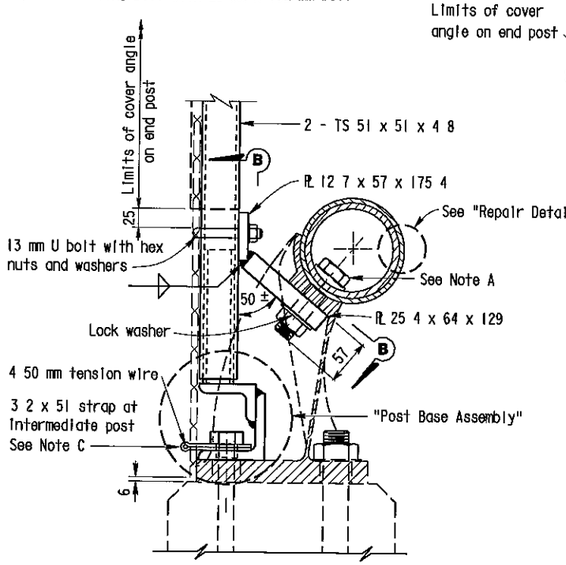
SHEET 5 OF 11

USERNAME => marison DATE PLOTTED => 03-JAN 2003 TIME PLOTTED => 06 50

ClibPDF - www.fastio.com

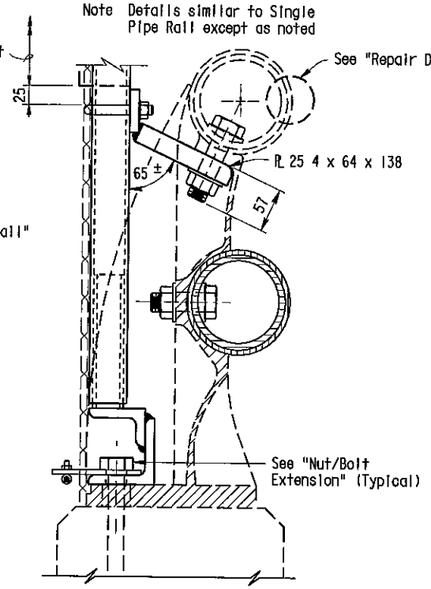
Note A

Replace existing bolt with 25 mm x 102 mm bolt



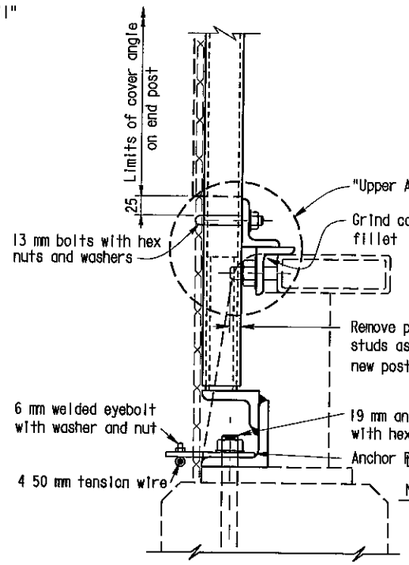
SECTION A-A (SINGLE PIPE RAIL)

Note Details similar to Single Pipe Rail except as noted



SECTION A-A (DOUBLE PIPE RAIL)

Note Details for Type 9 and Type 11 Metal Railing are similar, Type 11 not shown



SECTION A-A (TUBE RAIL)

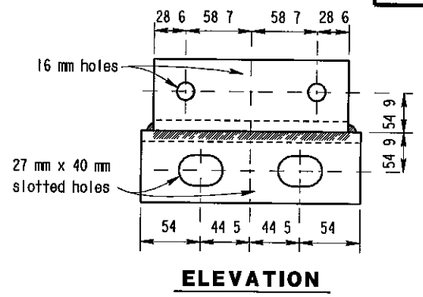
NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Note B

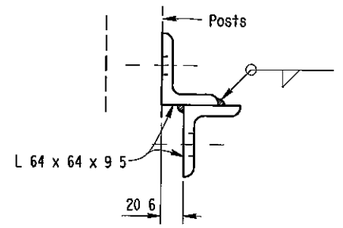
Paint all cut and ground surfaces with zinc rich paint

Note C

At intermediate posts only contractor has an alternate of 3 mm x 51 mm strap or 6 4 mm anchor plate with eyebolt



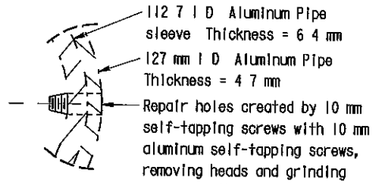
ELEVATION



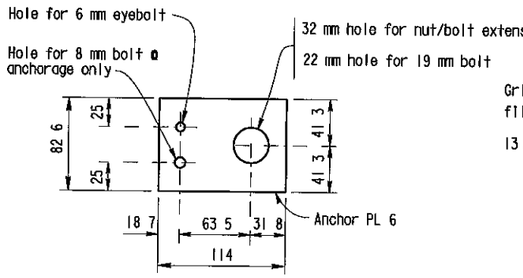
SIDE VIEW

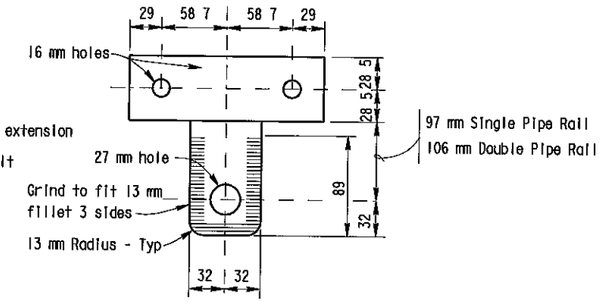
UPPER ANGLE BRACKET

ATTACHMENT DETAILS



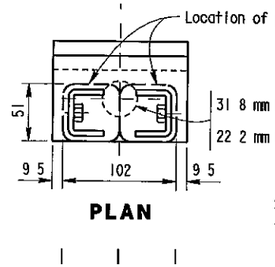
REPAIR DETAIL



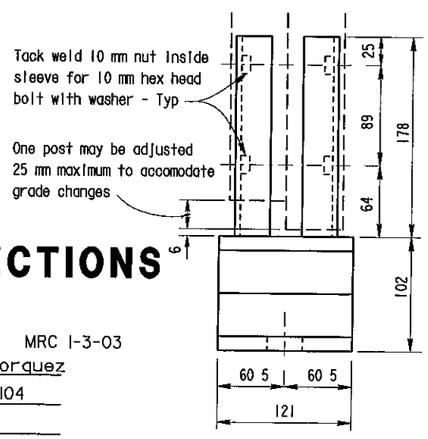


VIEW B-B

(Developed view of upper bracket)

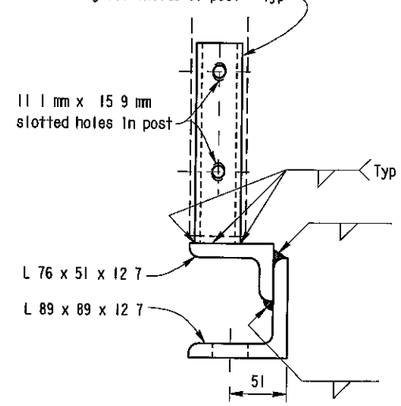


PLAN



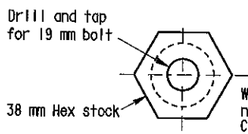
ELEVATION

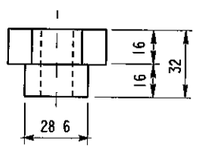
Sleeve formed from PL 4 7, bent thus ⊔ for sliding fit inside of post - Typ



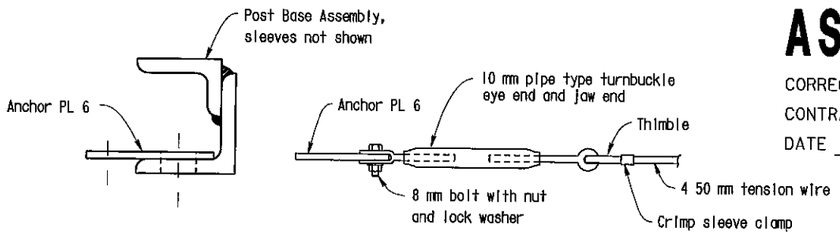
SIDE VIEW

POST BASE ASSEMBLY





NUT/BOLT EXTENSION



BOTTOM ANCHORAGE DETAIL

NO CORRECTIONS AS BUILT

MRC 1-3-03

CORRECTIONS BY John Borquez

CONTRACT NO 06-440104

DATE 11-14-02

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	132	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DIOSDADO ACOBA No 52003 Exp 12-31 02 CIVIL STATE OF CALIFORNIA

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DESIGN	BY D Acoba	5/00	CHECKED F Tannous	5/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY K Endow	5/00	CHECKED F Tannous	5/00	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE
QUANTITIES	BY D Acoba	5/00	CHECKED F Tannous	5/00	CU 06015 EA 440101

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
CHAIN LINK RAILING TYPE 6 MOD NO. 3

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

FILE > nat63 dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 7/17/00 9/26/00 10/3/00

SHEET 10 OF 11

USERNAME > mgarlson DATE PLOTTED > 03 JAN 2003 TIME PLOTTED > 13:26

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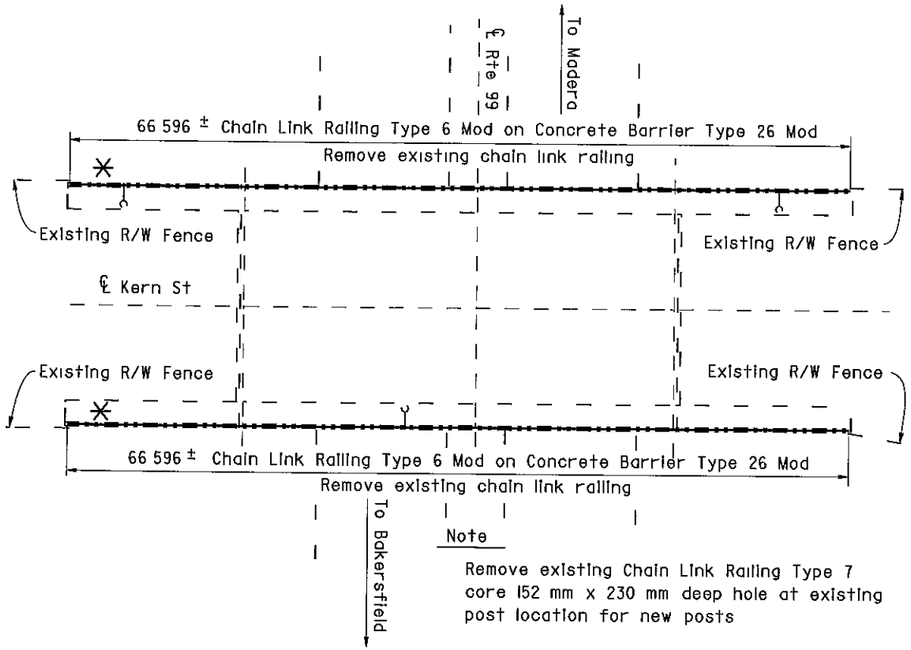
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06	Fre	99	23 3/50 7	126	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

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Note

Remove existing Chain Link Railing Type 7 core 152 mm x 230 mm deep hole at existing post location for new posts

KERN STREET OC

Br No 42-0159, Fre, KP 33 0
1 250

KERN STREET OC 42-0159
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION H	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	133 m

TULARE STREET OC 42-0169
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION I	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	166 m

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

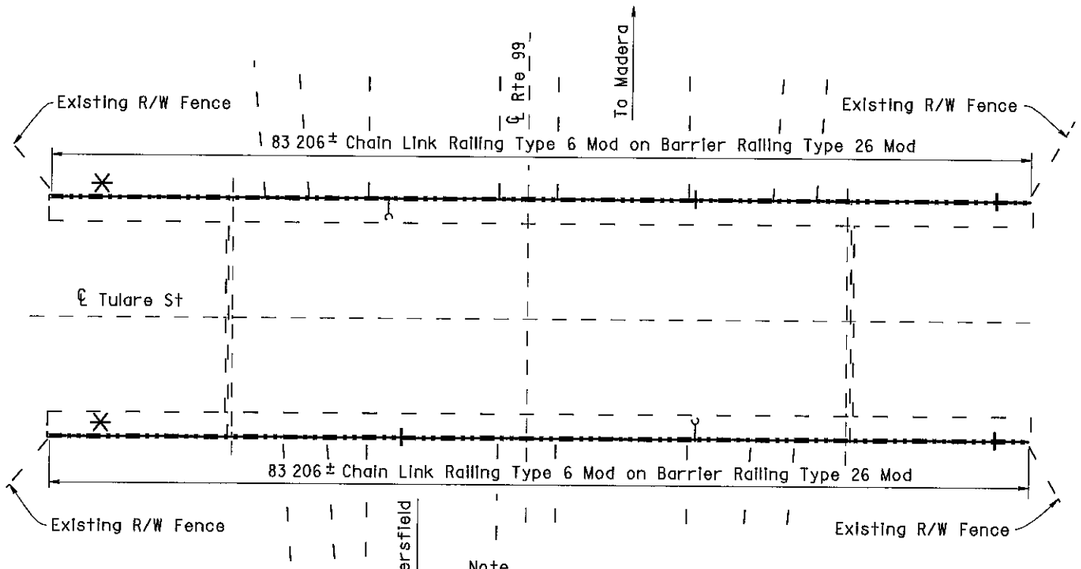
NOTES

— — Indicates existing

℄ Indicates approximate location of existing electrolier (To remain)

Indicates approximate location of remove and reinstall sign on new post

Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details



Note

Remove existing Chain Link Railing Type 7 core 152 mm x 230 mm deep hole at existing post location for new posts

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

TULARE STREET OC

Br No 42-0169, Fre, KP 33 2
1 250

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borguez
CONTRACT NO 06-440104
DATE 11-14-02

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00 DESIGN ENGINEER	DESIGN	BY D Acoba 4/00	CHECKED F Tannous 5/00	LAYOUT	BY K Endow 4/00	CHECKED D Acoba 4/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE	BRIDGE NO Various
	DETAILS	BY K Endow 4/00	CHECKED F Tannous 5/00						KILOMETER POST Varies
	QUANTITIES	BY D Acoba 5/00	CHECKED F Tannous 5/00	SPECIFICATIONS	BY J Maroney 9/00	PLANS AND SPECS COMPARED J Maroney 9/00		CU 06015 EA 440101	DISREGARD PRINTS BEARING EARLIER REVISION DATES

ROUTE 99 BRIDGES
GENERAL PLAN NO. 4

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 7/17/00 9/26/00 10/3/00

SHEET 4 OF 11

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

FILE > nagp4 dgn

USERNAME > mcarlson DATE PLOTTED > 03-JAN-2003 TIME PLOTTED => 08:38

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NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Caltrans Metric

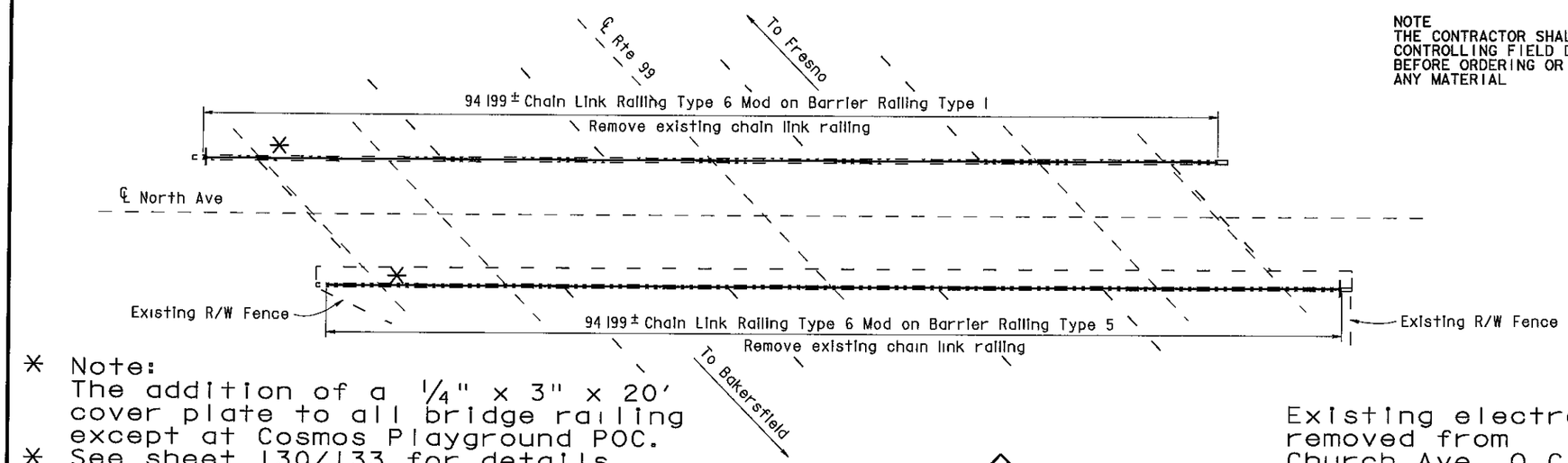
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	123	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DIOSDADO ACOBA
No 52003
Exp 12-31-02
CIVIL
STATE OF CALIFORNIA

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* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

NORTH AVENUE OC

Br No 42-0210, Fre, KP 27 8
1 250

Existing electroliers removed from Church Ave. O.C.

NOTES

— — Indicates existing

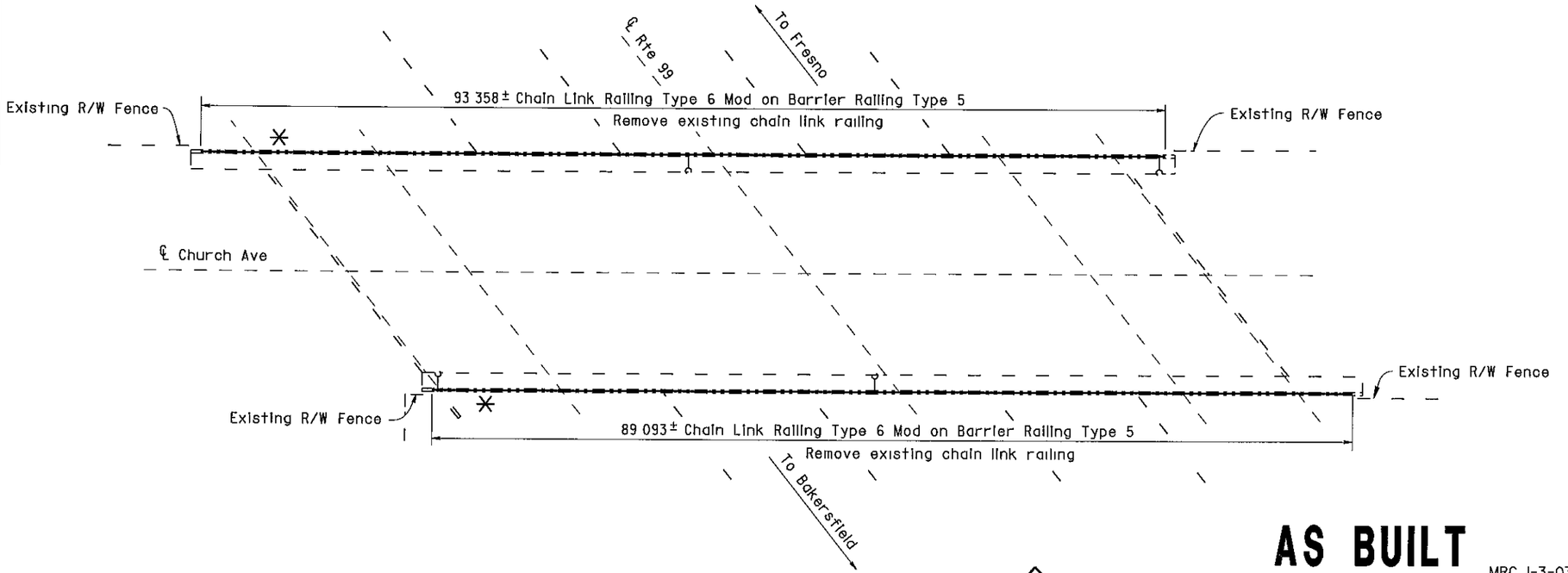
℄ Indicates approximate location of existing electrolier (To remain)

Indicates approximate location of remove and reinstall sign on new post

Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details

INDEX TO PLANS

SHEET NO	TITLE
1	GENERAL PLAN NO 1
2	GENERAL PLAN NO 2
3	GENERAL PLAN NO 3
4	GENERAL PLAN NO 4
5	GENERAL PLAN NO 5
6	GENERAL PLAN NO 6
7	GENERAL PLAN NO 7
8	CHAIN LINK RAILING TYPE 6 MOD NO 1
9	CHAIN LINK RAILING TYPE 6 MOD NO 2
10	CHAIN LINK RAILING TYPE 6 MOD NO 3
11	CHAIN LINK RAILING TYPE 3 MOD



CHURCH AVENUE OC

Br No 42-0214, Fre, KP 30 9
1 250

AS BUILT MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

NORTH AVENUE OC 42-0210
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION A	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	189 m

CHURCH AVENUE OC 42-0214
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION B	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	183 m

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED		BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00	LAYOUT	K Endow	4/00	D Acoba	4/00
DETAILS	K Endow	4/00	F Tannous	5/00				PLANS AND SPECS COMPARED	
QUANTITIES	D Acoba	5/00	F Tannous	5/00	SPECIFICATIONS	J Maroney	9/00	J Maroney	9/00

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 1

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 5/15/00 7/17/00 9/26/00 10/3/00

SHEET 1 OF 11

FILE -> nagpl.dgn

USERNAME -> mgarson DATE PLOTTED -> 02 JAN 2003 TIME PLOTTED -> 16:55

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
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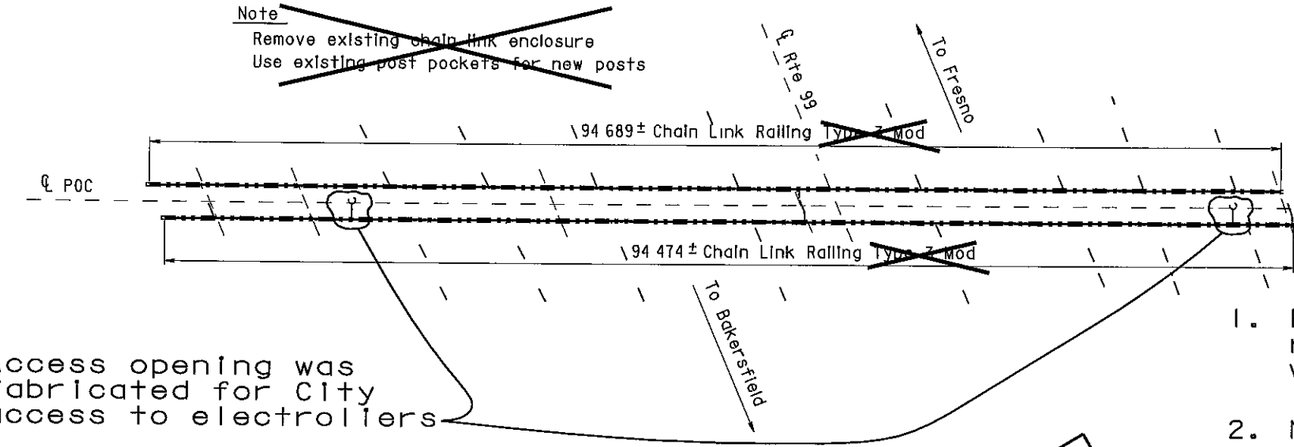
10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

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Note
Remove existing chain link enclosure
Use existing post pockets for new posts



COSMOS PLAYGROUND POC

Br No 42-0215, Fre, KP 31 2
1 250

1. Existing chain link railing remained and was painted.
2. New 1" mesh was installed and replaced the old 2" mesh.
3. Existing electroliers remained.

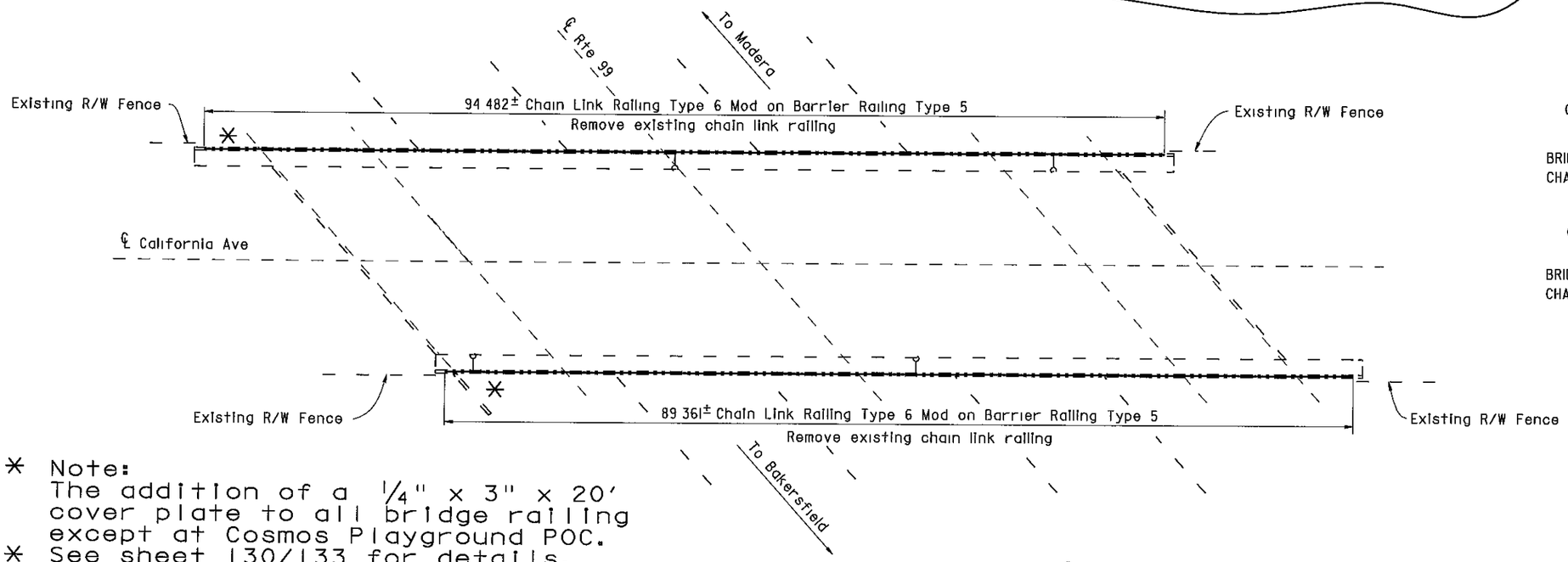
NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

NOTES

— — Indicates existing

℄ Indicates approximate location of existing electroliter (To remain)

Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details



COSMOS PLAYGROUND POC 42-0215
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION C	LUMP SUM
CHAIN LINK RAILING (TYPE 3 MODIFIED)	209 m

CALIFORNIA AVENUE OC 42-0217
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION D	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	184 m

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

CALIFORNIA AVENUE OC

Br No 42-0217, Fre, KP 32 0
1 250

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borguez
CONTRACT NO 06-440104
DATE 11-14-02

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00
DETAILS	K Endow	4/00	F Tannous	5/00
QUANTITIES	D Acoba	5/00	F Tannous	5/00
LAYOUT	K Endow	4/00	D Acoba	4/00
SPECIFICATIONS	J Maroney	9/00	J Maroney (PLANS AND SPECS COMPARED)	9/00

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

CU 06015
EA 440101

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 2

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

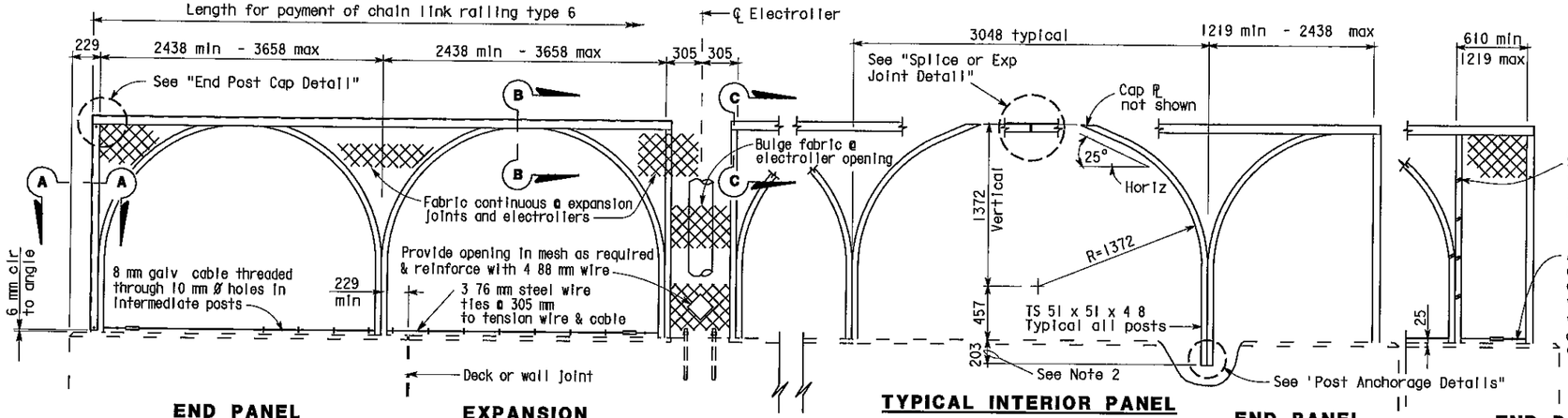
REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/12/00 | 9/26/00 | 10/3/00

SHEET 2 OF 11

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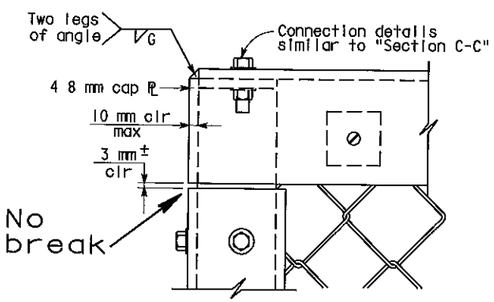
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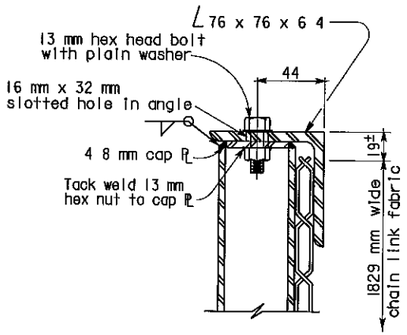


END PANEL 2438 mm - 3658 mm | **EXPANSION PANEL AT ELECTROLIER** | **TYPICAL INTERIOR PANEL** | **END PANEL 1219 mm - 2438 mm** | **END PANEL 610 mm - 1219 mm**

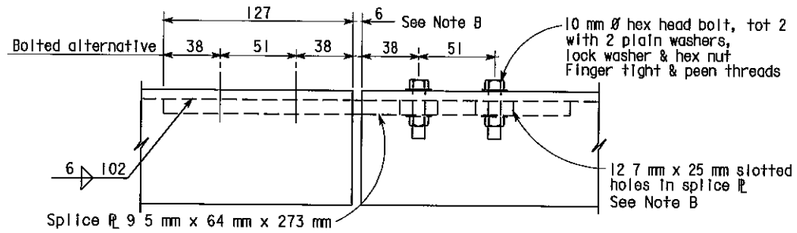
ELEVATION



END POST CAP DETAIL

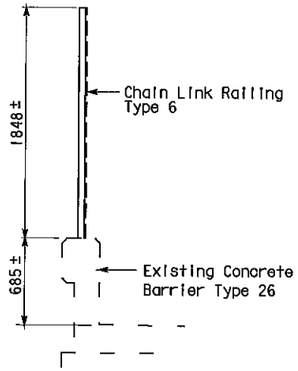


SECTION C-C

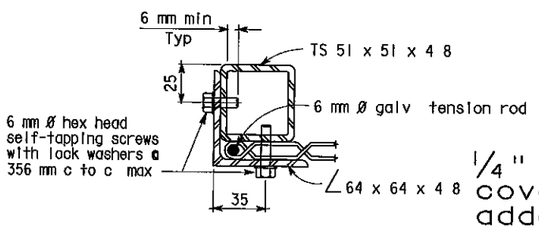


SPLICE OR EXPANSION JOINT DETAIL

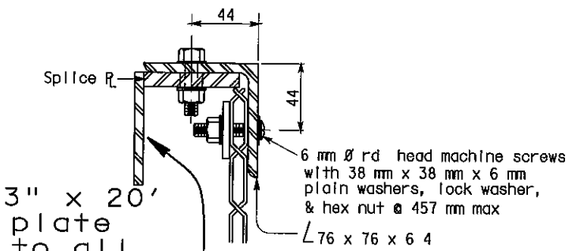
Note B Expansion joint same dimension as expansion joint in deck or wall Increase slotted hole length and splice ℙ length correspondingly



TYPICAL SECTIONS



SECTION A-A



SECTION B-B

NOTES

1. Horizontal angle shall be continuous over not less than two intermediate posts except that a shorter length is permitted at expansion joints, electrollers and other rail discontinuities
2. One post may be embedded 152 mm minimum to accomodate grade changes, otherwise fabricate post lengths as required
3. Curved posts may be rotated in plan within its post pocket to accomodate curved horizontal alignment
4. Straight posts and straight portions of curved posts shall be installed normal to bridge profile grade
5. Top horizontal angle shall be parallel to bridge profile grade and shall be shop bent to fit horizontal curves
6. When railing is on slope, fabric shall be placed parallel to slope
7. Alternative details may be submitted by Contractor for Engineer's approval
8. Railing assembly except chain link fabric shall be galvanized after fabrication
9. For details and reinforcement not shown, see "Concrete Barrier Type 25 or 26" sheet
10. See Bridge Plans for limits of Chain Link Railing Type 6 Mod
11. Provide thimbles at all cable loops
12. Chain link fabric to be 1829 mm wide with 25 mm mesh and with knuckled selvage top and bottom
13. When railing is placed on a horizontal alignment with a radius of 45 72 m or less, thread 8 mm cable through 10 mm Ø welded eye rods embedded 102 mm into the top of the concrete parapet and equally spaced to limit the middle ordinate distance between the 8 mm cable and the curve to 25 mm max
14. Splices and expansion joints shall be located at ℄ panel
15. Holes in posts for 8 mm cable and its anchorage may be field drilled and painted with zinc rich paint

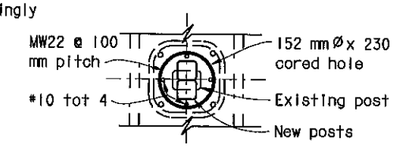
AS BUILT

MRC 1-3-03

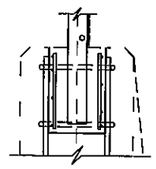
CORRECTIONS BY John Borquez

CONTRACT NO 06-440104

DATE 11-14-02



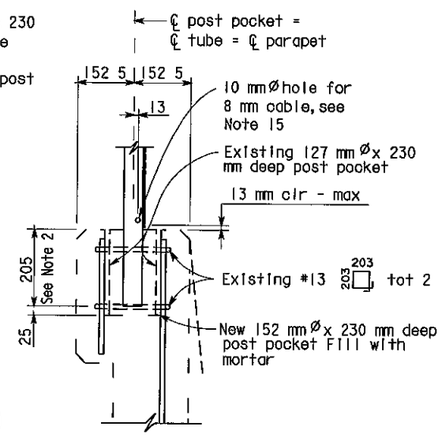
PLAN



SECTION

Detail omitted

POCKET DETAILS



POST ANCHORAGE DETAIL

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	130	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

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DESIGN	BY D Acoba	5/00	CHECKED F Tannous	5/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY K Endow	5/00	CHECKED F Tannous	5/00	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE
QUANTITIES	BY D Acoba	5/00	CHECKED F Tannous	5/00	BRIDGE NO Various; KILOMETER POST Varies

ROUTE 99 BRIDGES

CHAIN LINK RAILING TYPE 6 MOD NO. 1

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV 10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE > nat61.dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

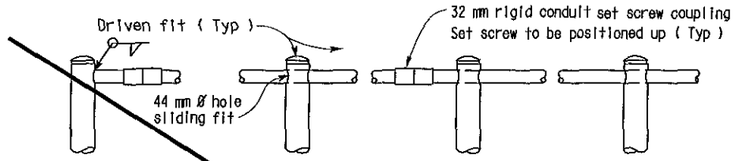
REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/17/00 | 9/26/00 | 10/3/00

SHEET 8 OF 11

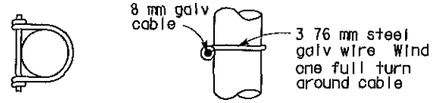
USERNAME mcarlson DATE PLOTTED > 03-JAN-2003 TIME PLOTTED => 12:11

ClibPDF - www.fastio.com

RELEASED 6-9-98



END POST **INTERMEDIATE POSTS**



PLAN **ELEVATION**

DETAIL H

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
06	Fre	99	23 3/50 7	133	133

10-3-00
REGISTERED ENGINEER - CIVIL

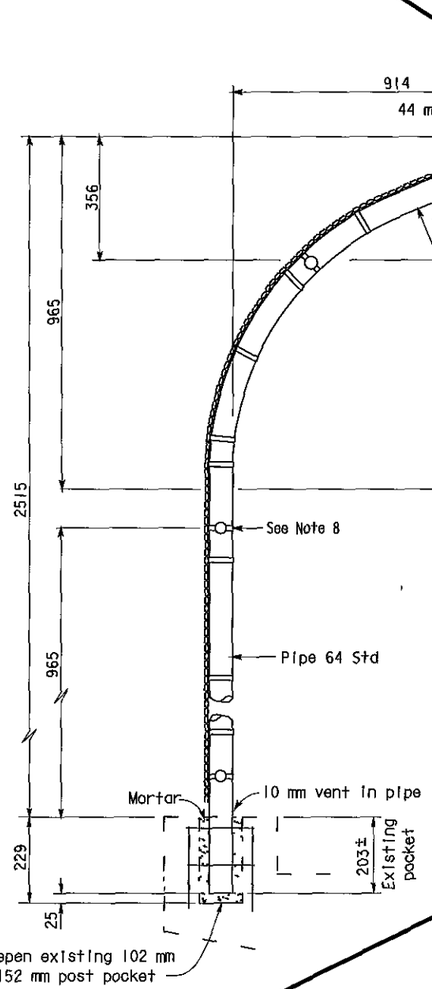
11-13-00
PLANS APPROVAL DATE

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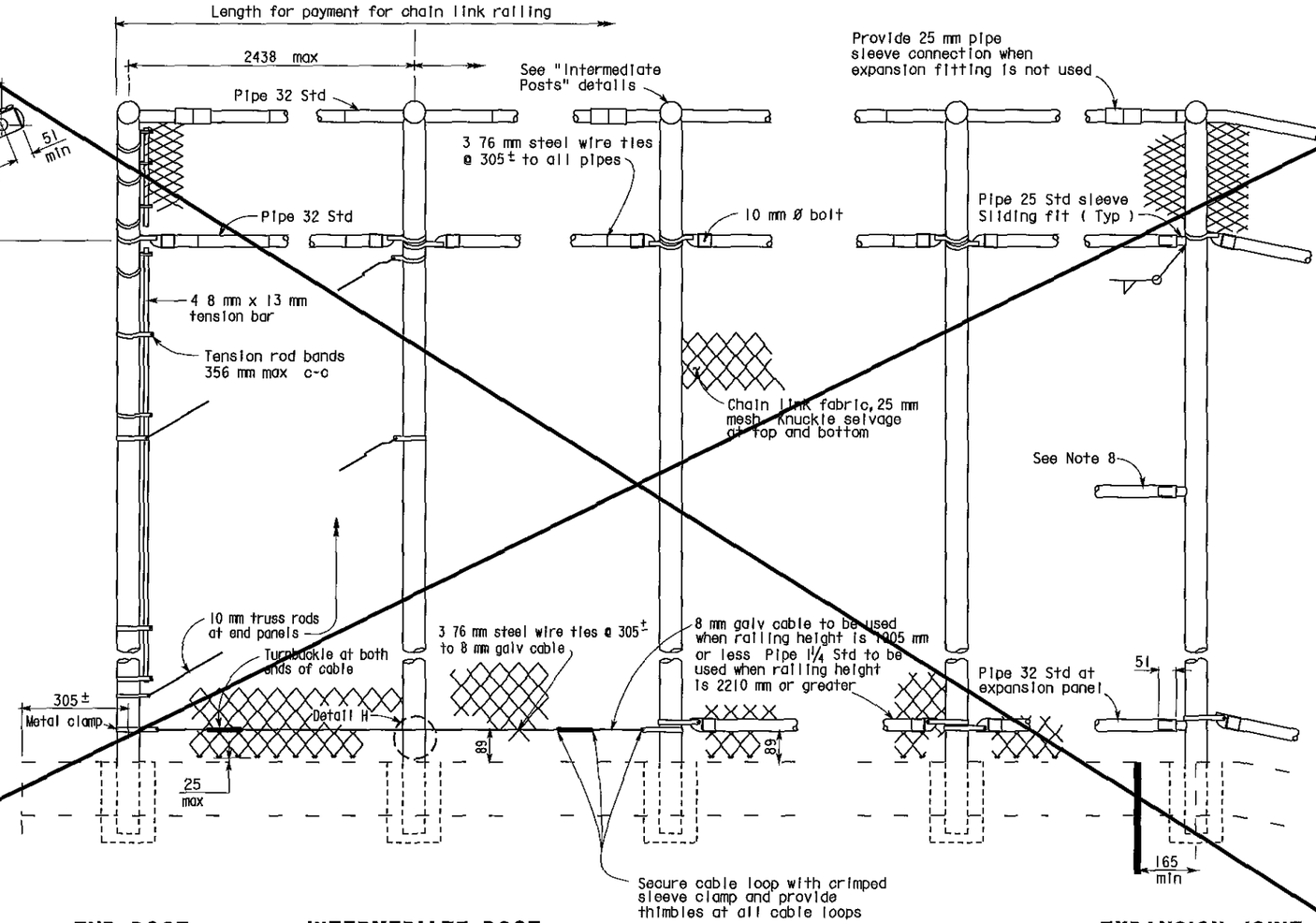
REGISTERED PROFESSIONAL ENGINEER
DIOSDADO ACOBA
No 52003
Exp 12 31 02
CIVIL
STATE OF CALIFORNIA

NOTES:

1 Railing assembly except chain link fabric to be galvanized after fabrication
2 Railing shall conform to horizontal and vertical alignment Posts shall be vertical Horizontal pipes shall be bent if radius is 45 72 m or less may be on 2 438 m chords If radius is over 45 72 m
3 Peen all 10 mm Ø bolts
4 When railing is on slope fabric shall parallel to slope
5 Alternative details may be submitted by Contractor for Engineer's approval
6 Additional pipe 32 std required on radius less than 45 72 m



TYPICAL POST DETAIL



END POST **INTERMEDIATE POST** **EXPANSION JOINT**

ELEVATION

Sheet Deleted

No Type 3 Modified Railing was used on this contract

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

SPECIAL DETAIL

NO SCALE
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

STANDARD DRAWING				
FILE NO XS 9 81	DESIGN BY R W BISHOP	CHECKED J HAMAGUCHI	APPROVAL RECOMMENDED BY	
DRAWING DATE Revised	DETAILS BY R YEE	CHECKED J HAMAGUCHI		
	SUBMITTED BY R W BISHOP		DESIGN SUPERVISOR	

DS OSD 2147A (METRIC) (REV 2/25/97)

1 Revised sheet - removed handrailing and electrical details and notes

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

CU 06105
EA 452001

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
CHAIN LINK RAILING TYPE 3 MOD 1

DISREGARD PRINTS BEARING EARLIER REVISION DATES
REVISION DATES (PRELIMINARY STAGE ONLY) 5/30/00 7/17/00 9/28/00 10/3/00

SHEET 11 OF 11

USERNAME > mgarlson
x5981 dgn
XS981 DGN

DATE PLOTTED > 03-JAN-2003 TIME PLOTTED > 13 32

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	131	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

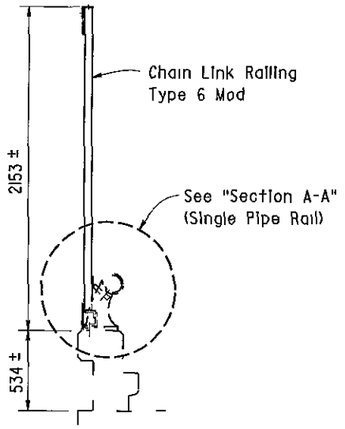
REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

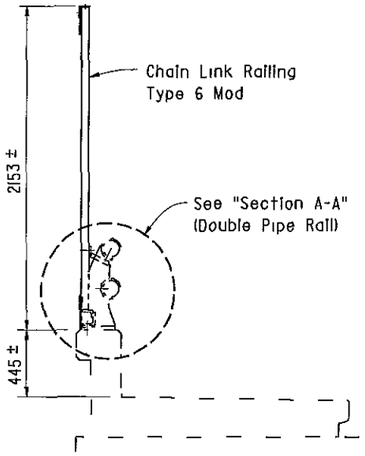
NO CORRECTIONS
AS BUILT

MRC 1-3-03

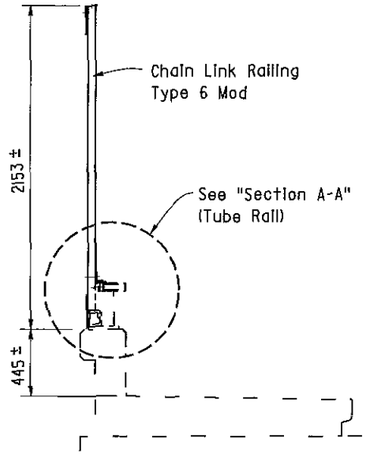
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02



TYPE 1



TYPE 5



TYPE 12

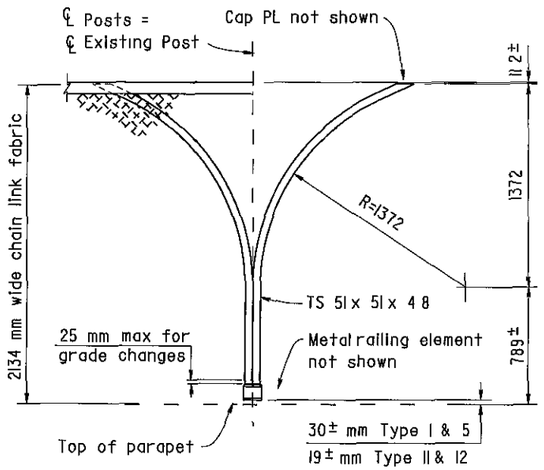
BARRIER RAILING SECTIONS

Existing chain link railing not shown

I 20

TYPE A
- NORTH AVE OC - 2 Locations
- CHURCH AVE OC - 4 Locations
- CALIFORNIA AVE OC - 4 Locations
- VENTURA ST OC - 4 Locations

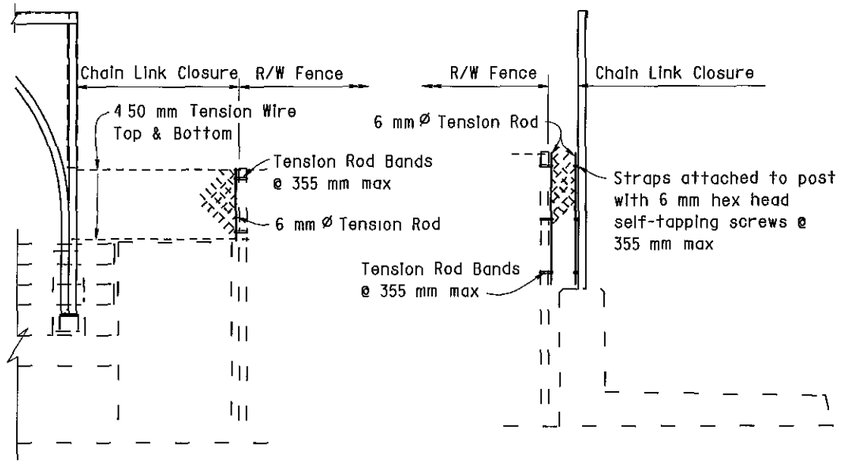
TYPE B
- KERN ST OC - 4 Locations
- TULARE ST OC - 4 Locations
- EL DORADO ST OC - 4 Locations



PART OUTSIDE ELEVATION

Note For details and notes not shown, see "Chain Link Railing Type 6 Mod No 1" sheet

I 10

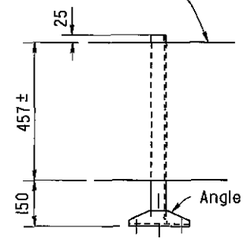


TYPE A TYPE B

R/W FENCE CONNECTION

I 10

Remove existing sign panels and reinstall on new post



TULARE ST OC

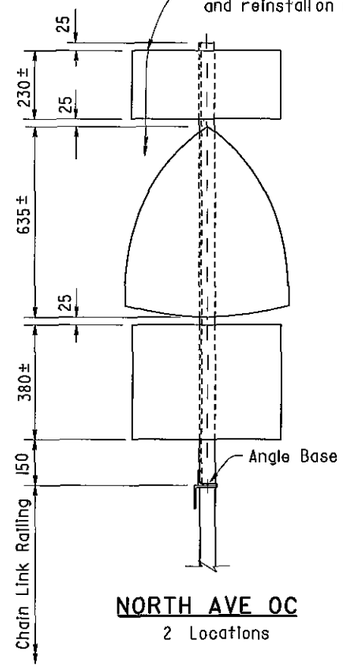
4 Loactions

Note

Reinstall signs at approximately the same location on chain link railing as existing

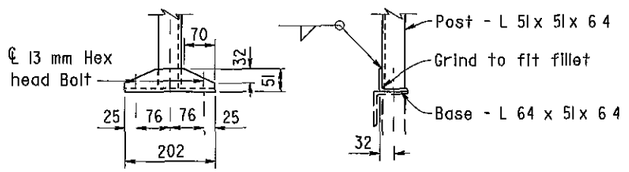
NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Remove existing sign panels and reinstall on new post



NORTH AVE OC

2 Locations



ANGLE BASE

Note

Hot dip galvanize sign post after fabrication
Field drilled holes to be painted with zinc rich paint

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

	BY		CHECKED	
DESIGN	D Acoba	5/00	F Tannous	5/00
DETAILS	K Endow	5/00	F Tannous	5/00
QUANTITIES	D Acoba	5/00	F Tannous	5/00

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
CHAIN LINK RAILING TYPE 6 MOD NO. 2

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE > nat62.dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/17/00 | 9/26/00 | 10/3/00

SHEET 9 OF 11

USERNAME => mcarlson DATE PLOTTED > 03-JAN-2003 TIME PLOTTED > 13:23

ClibPDF - www.fastio.com

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	99	23 3/50 7	125	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

VENTURA STREET OC 42-0158K
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION E	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	78 m

VENTURA STREET OC 42-0158E
QUANTITIES

BRIDGE REMOVAL (PORTION) LOCATION F	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	122 m

VENTURA STREET OC 42-0158S
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION G	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	74 m

NOTES

— — Indicates existing

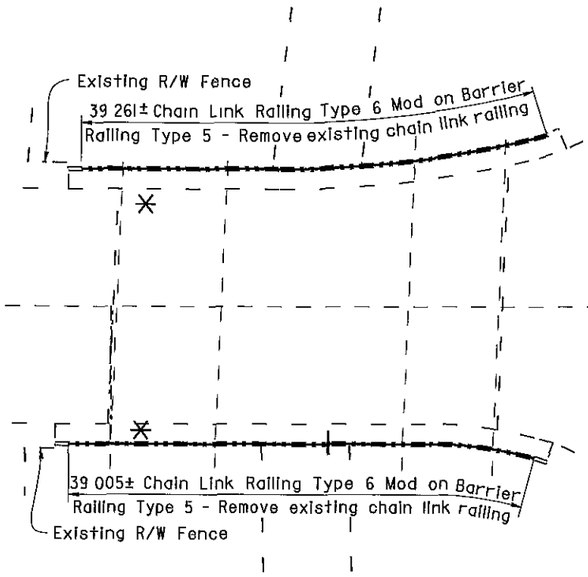
℄ Indicates approximate location of existing electroller (To remain)

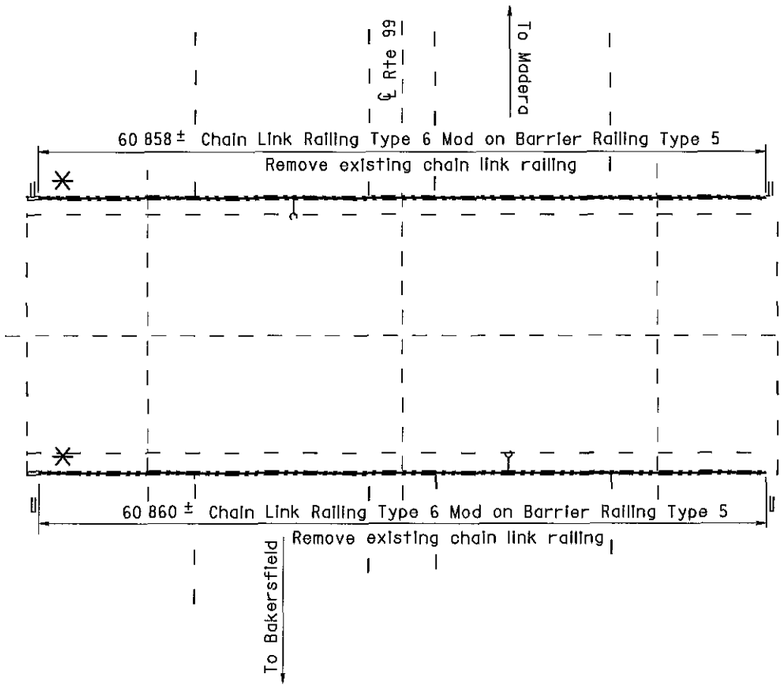
Indicates approximate location of remove and reinstall sign on new post

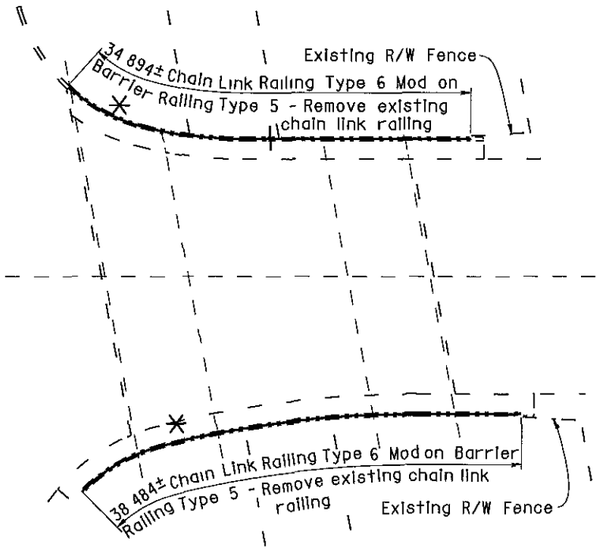
Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.







Br No 42-0158K

Bridges 42-0158K and 42-0158S were both painted with Color No. 20109 - "Deep red".

Br No. 42-0158E

VENTURA STREET OC

Fre, KP 32 5
I 250

AS BUILT
MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

Br No 42-0158S

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

	BY		CHECKED			BY		CHECKED			
DESIGN	D Acoba	4/00	F Tannous	5/00	LAYOUT	K Endow	4/00	D Acoba	4/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE
DETAILS	K Endow	4/00	F Tannous	5/00				PLANS AND SPECS COMPARED			
QUANTITIES	D Acoba	5/00	F Tannous	5/00	SPECIFICATIONS	J Maroney	9/00	J Maroney	9/00		

Michael J Lee 10/3/00
DESIGN ENGINEER

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE => nagp3.dgn

BRIDGE NO Various
KILOMETER POST Varies

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/17/00 | 9/28/00 | 10/1/00

ROUTE 99 BRIDGES
GENERAL PLAN NO. 3

SHEET 3 OF 11

USERNAME => mcarlson DATE PLOTTED => 03 JAN 2003 TIME PLOTTED => 08 32

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DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	23.3	IV	IV

DATE APPROVED 197

VI-0194 (1)

DIST.	COUNTY	ROUTE	POST MILES	SHEET NO.	TOTAL SHEETS
06	Fre	99	33.1/41		

DIST.	COUNTY	ROUTE	POST MILES	SHEET NO.	TOTAL SHEETS
06	Fre	99	40.0	15	

April 8, 197[illegible]

LEGEND OF BORING OPERATIONS

Penetrometer
2½" Cone Penetrometer
Sampler Boring (Dry)
Rotary Boring (Wet)
Auger Boring (Dry)
Jet Boring
Core Boring
Test Pit

Penetration Boring

Rotary Boring

1" Soil Tube

LEGEND OF EARTH MATERIALS

Gravel
Sand
Silt
Clay
Sandy Clay or Clayey Sand
Sandy Silt or Silty Sand
Silty Clay or Clayey Silt
Peat and/or Organic Matter
Fill Material
Igneous Rock
Sedimentary Rock
Metamorphic Rock

CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS

Diagram showing the basis for estimated of grade size distribution used in determination of class names

If gravel is present in appreciable amounts the term "gravelly" may be added to the class name, viz "gravelly sand" the terms "coarse," "medium" and "fine" when used to describe gravel, sand and silt refer to standard grade size limits.

Read Silt percentages on this side

Read Sand percentages on this side

Read Clay percentages on this side

NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

BRIDGE DEPARTMENT
ENGINEERING GEOLOGY SECTION

FIELD STUDY	By
DRAWN	By
CHECKED	By

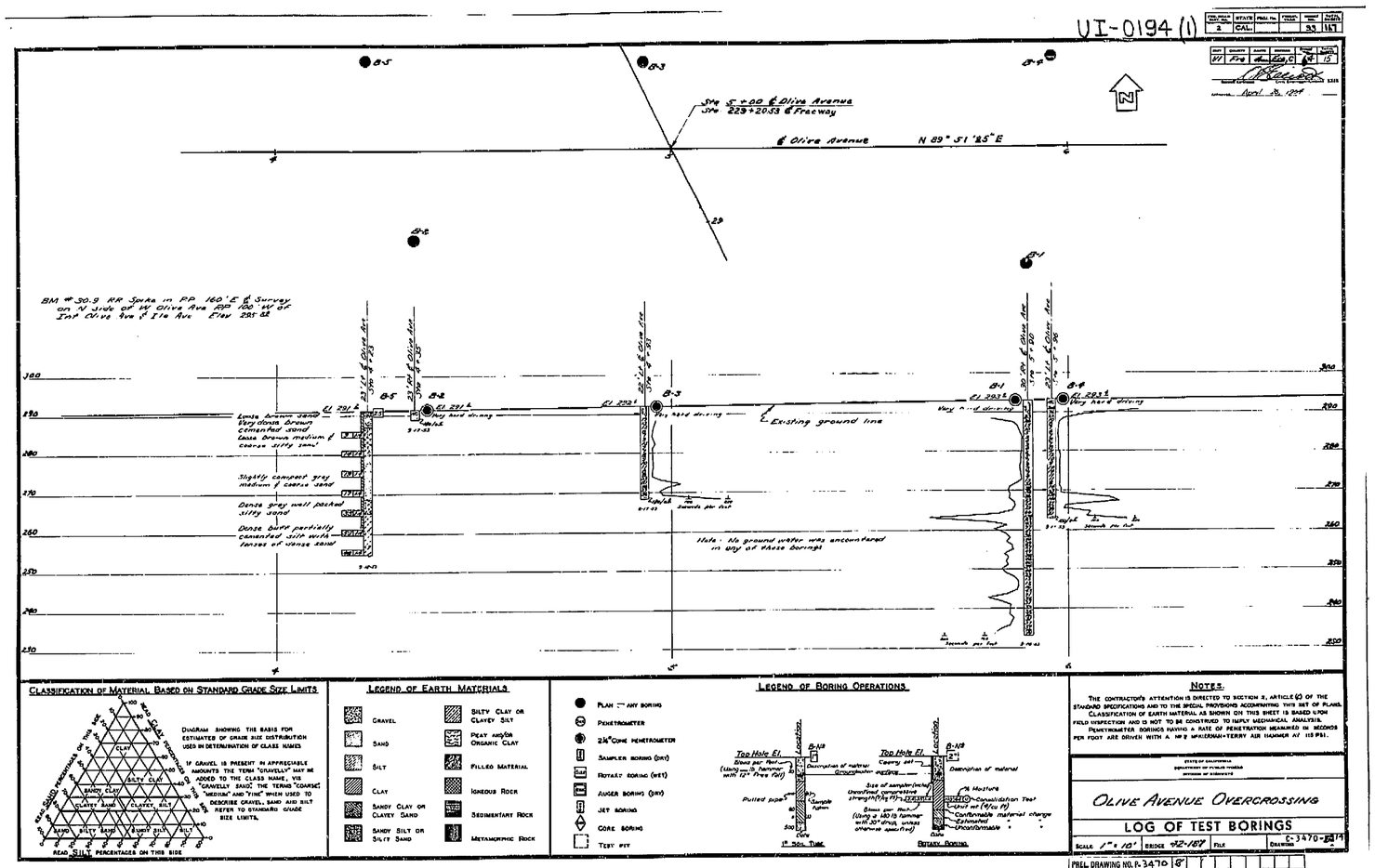
Approved Recommended by: C. [illegible] Engineering Geologist

W.O. 0148
ACCT. NO. 112
FILE NO. 2911
REF. & HWY.

CITY OF FRESNO — DEPARTMENT OF PUBLIC WORKS

OLIVE AVE WIDENING
HUGHES TO MOTEL DR
UNIT 1

APPROVED
CONST. ENGR.
CITY ENGR.
OFFICE ENGR.
DR. BY R.P.S.
CH. BY
DATE 11-70
SCALE AS SHOWN
SHEET NO. 11
OF SHEETS
15-E-1258



CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS

Diagram showing the basis for estimated of grade size distribution used in determination of class names

If gravel is present in appreciable amounts the term "gravelly" may be added to the class name, viz "gravelly sand" the terms "coarse," "medium" and "fine" when used to describe gravel, sand and silt refer to standard grade size limits.

Read Silt percentages on this side

LEGEND OF EARTH MATERIALS

Gravel
Sand
Silt
Clay
Sandy Clay or Clayey Sand
Sandy Silt or Silty Sand
Silty Clay or Clayey Silt
Peat and/or Organic Clay
Filled Material
Igneous Rock
Sedimentary Rock
Metamorphic Rock

LEGEND OF BORING OPERATIONS

Plan of any boring
Penetrometer
2½" Cone Penetrometer
Sampler Boring (Dry)
Rotary Boring (Wet)
Auger Boring (Dry)
Jet Boring
Core Boring
Test Pit

Top Hole El.
Pulled pipe
1" Soil Tube
Rotary Boring
Consolidation Test
Corrosion Test
Confinable material charge
Estimated
Unconfinable

NOTES.

The contractor's attention is directed to section 2, article (2) of the standard specifications and to the special provisions accompanying this set of plans. Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis. Penetrometer borings having a rate of penetration measured in seconds per foot are driven with a no 2 Wilkerman-Terry air hammer at 115 psi.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

Olive Avenue Overcrossing

LOG OF TEST BORINGS

Scale 1" = 10' | Bridge 42-187 | File | Drawing C-3470-B

PREL. DRAWING NO. P-3470 B

AS BUILT PLANS
Contract No. 06-085304
Date Completed
Document No. 6 0000872

AS BUILT
CORRECTION BY O.T. Painter
CONTRACT NO. 06-085304
12-21-71 SY 4-72

WO 085300
CU 06202

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

OLIVE AVENUE OVERCROSSING - WIDEN

LOG OF TEST BORINGS

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-187			1	11

REVISION DATES (PRELIMINARY STAGE ONLY)

Disregard prints bearing earlier revision dates → 3/10/72 | 3/4/10

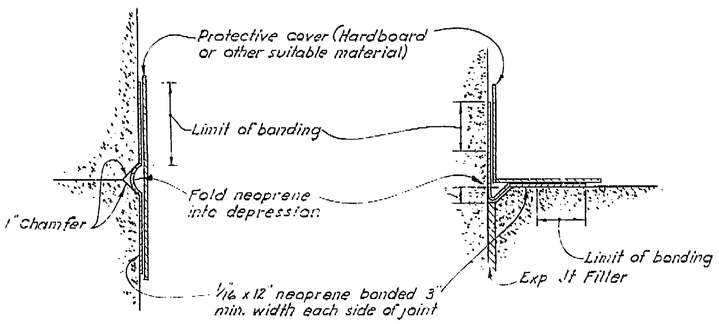
I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE ..... SIGNATURE ..... TITLE .....

ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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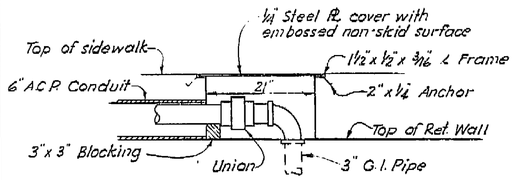
DESIGN SUPERVISION: John A. Canfield — REGISTERED CIVIL ENGINEER NO. — DATE APPROVED: 1971



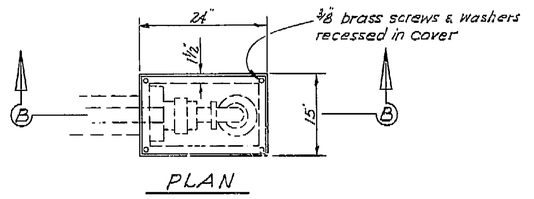
HORIZONTAL VERTICAL

STRIP WATERSTOP DETAILS

No Scale



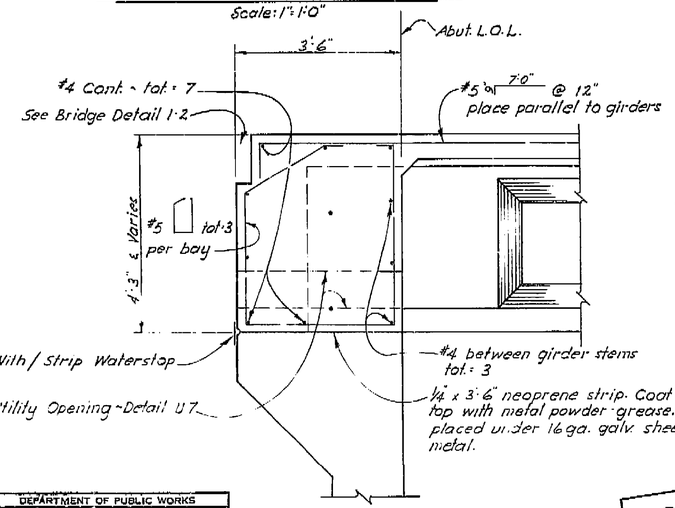
SECTION B-B



PLAN

WATER LINE SERVICE BOX

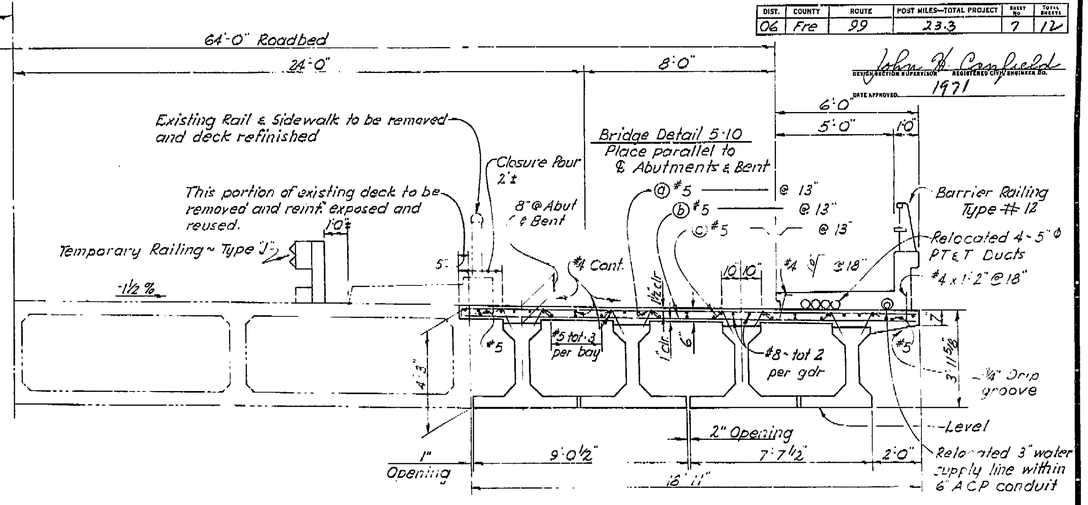
Scale: 1" = 1'-0"



TREND DIAPHRAGM SECTION A-A

Scale: 3/4" = 1'-0"

SEE sheet 5S

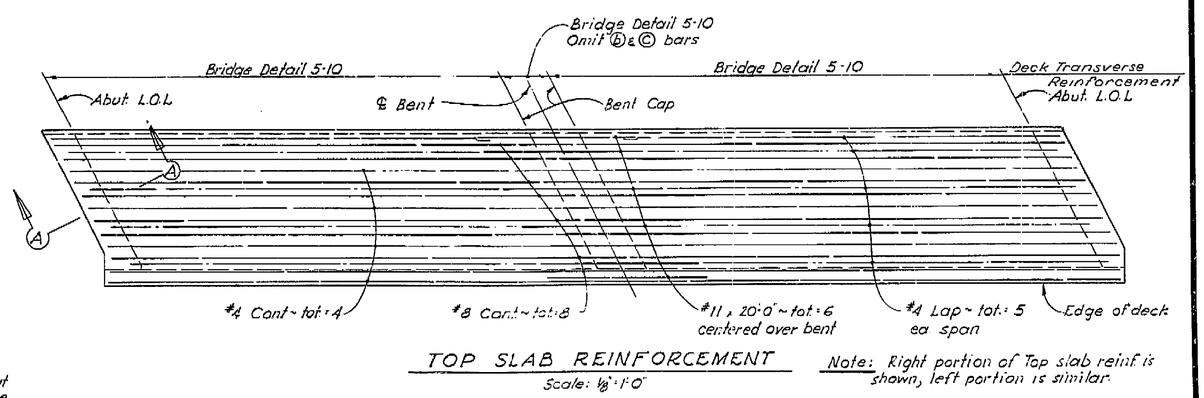


TYPICAL SECTION

Scale: 3/8" = 1'-0"

Note: For Girder Details See "Girder Details" Sheet

DESIGNED BY O.T. Painter
CONTRACT NO. 06-085304
12-21-71 SY 4-72 (SEE sheet 5S)



TOP SLAB REINFORCEMENT

Scale: 1/2" = 1'-0"

Note: Right portion of Top slab reinf is shown, left portion is similar.

W.O. 0348
ROUTE NO. 112
FILE NO. 5011
REF. & REV.

CITY OF FRESNO — DEPARTMENT OF PUBLIC WORKS
JAMES L. MARTIN
APPROVED
CONST. ENGR.
CITY ENGR.
OFFICE ENGR.
DR. BY
CH. BY
DATE
SCALE
SHEET NO.
OF SHEETS
15-E-1255

OLIVE AVE. WIDENING HUGHES TO MOTEL DR. UNIT 1

AS BUILT PLANS
Contract No. 06-085304
Date Completed
Document No. 6 0000376

NOTE:
THE CONTRACTOR SHALL VERIFY ALL DEPENDENT DIMENSIONS IN THE FIELD BEFORE ORDERING OR FABRICATING ANY MATERIAL.

BRIDGE DEPARTMENT
DESIGN SECTION 4
Project Engineer: J. Miyaoka

DESIGN	By	J. Miyaoka 3-70
	Checked	Walter W. White 3-70
DETAILS	By	Joe Pi-Sui 3-70
	Checked	Walter W. White 3-70
QUANTITIES	By	M. Mitchell 3-70
	Checked	J. Sandhu 3-70

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

OLIVE AVENUE OVERCROSSING WIDEN

TYPICAL SECTION & DECK DETAILS

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-187			6	11

WO
CU

Disregard prints bearing earlier revision dates →

REVISION DATES (PRELIMINARY STAGE ONLY)

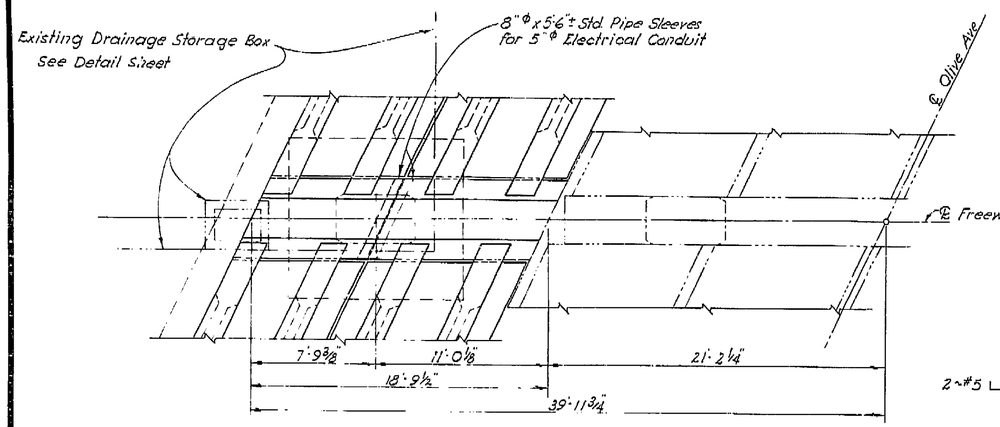
7/4/70	3/4	5/4/70	7/6/71						

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

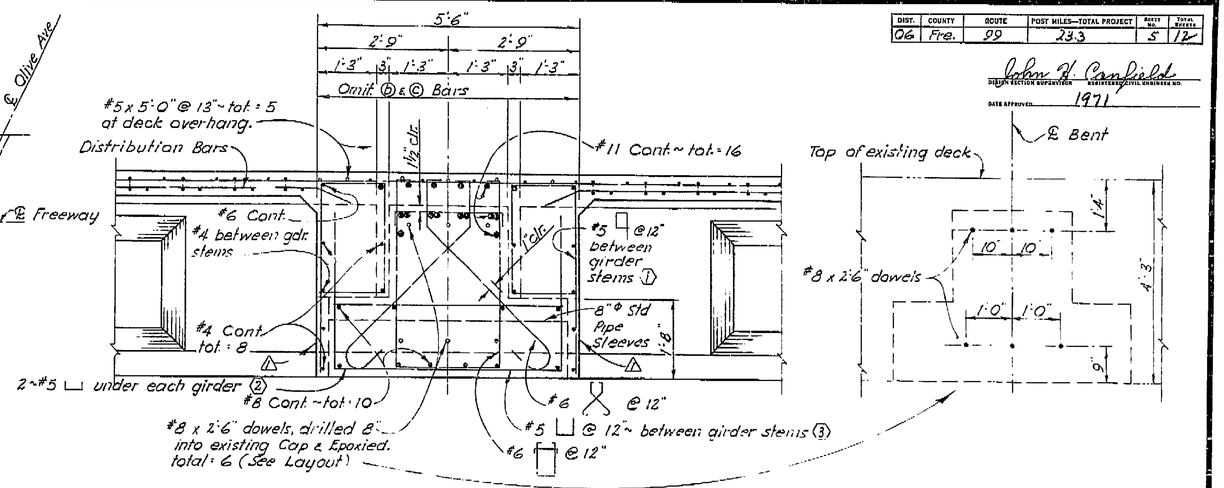
MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50' 0 100 200 300 400 500 600 700
SCALE 1" = 20' 0 50 100 200 50 50 60 70 80 300

ClibPDF - www.fastio.com



PLAN

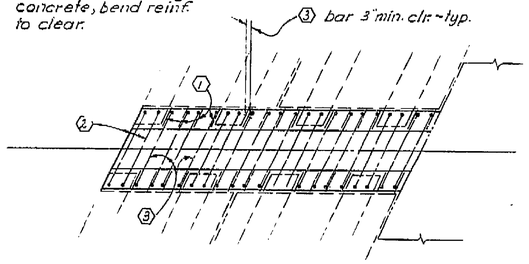
Scale: 1/4"=1'-0"



CAP SECTION

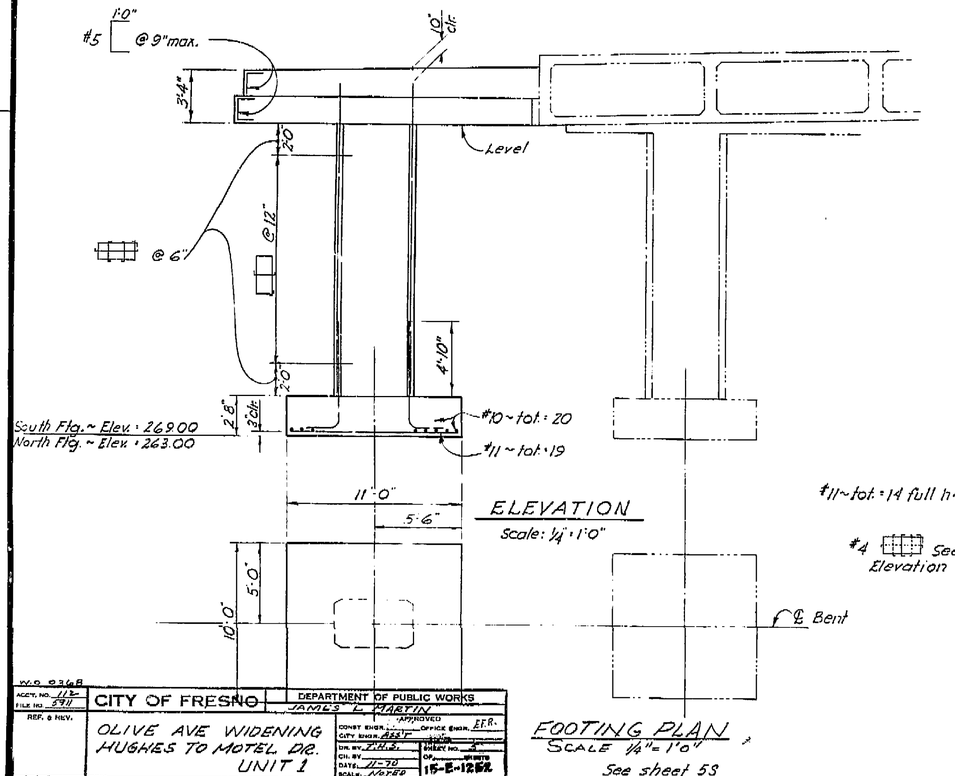
Scale: 3/4"=1'-0"

⚠ Provide 2-8"Φ opening in concrete, bend reinf. to clear.



PLAN ~ PARTIAL CAP REINF.

Scale: 1/4"=1'-0"



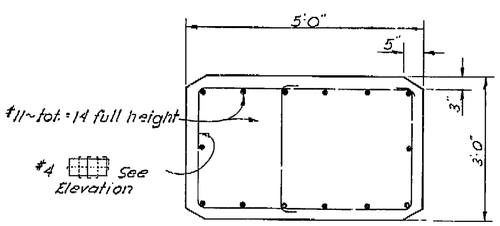
ELEVATION

Scale: 1/4"=1'-0"

FOOTING PLAN

SCALE 1/8"=1'-0"

See sheet 5S



COLUMN SECTION

Scale: 3/4"=1'-0"

See Sheet 5S

NOTE:
THE CONTRACTOR SHALL VERIFY ALL DEPENDENT DIMENSIONS IN THE FIELD BEFORE ORDERING OR FABRICATING ANY MATERIAL.

AS BUILT PLANS
Contract No. 06-085304
Date Completed
Document No. 60000876

AS BUILT
Checked by O.T. Painter
Contract No. 06-085304
12-21-71 SY 4-72 (SEE sheet 5S)

DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre.	99	23.3	5	12

John V. Canfield
DISTRICT BRIDGE ENGINEER
DATE APPROVED 1971

W.O. 9368
ACCT. NO. 112
FILE NO. 5911
REF. & REV.

CITY OF FRESNO — DEPARTMENT OF PUBLIC WORKS
JAMES L. MARTIN — APPROVED
CONST. ENGR. ____ OFFICE ENGR. E.F.R.
CITY ENGR. ASST.
DR. BY J.H.S.
CK. BY ____ SHEETS ____
DATE 11-70 SHEET NO. ____
SCALE NOTED 15-E-1252

OLIVE AVE WIDENING HUGHES TO MOTEL DR. UNIT 1

BRIDGE DEPARTMENT
DESIGN SECTION 4
Project Engineer G. Mirabile

DESIGN	By G. Mirabile	3-70
	Checked Walter W. Wirtz	3-70
DETAILS	By Jos. J. Pecora	2-70
	Checked Walter W. Wirtz	3-70
QUANTITIES	By J.D. Marshall	2-70
	Checked J. Samuelson	3-70

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

OLIVE AVENUE OVERCROSSING WIDEN

BENT DETAILS

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-187			5	11

Disregard prints bearing earlier revision dates

REVISION DATES (PRELIMINARY STAGE ONLY)
4/14/70 7/4 9/9/70

WO
CU

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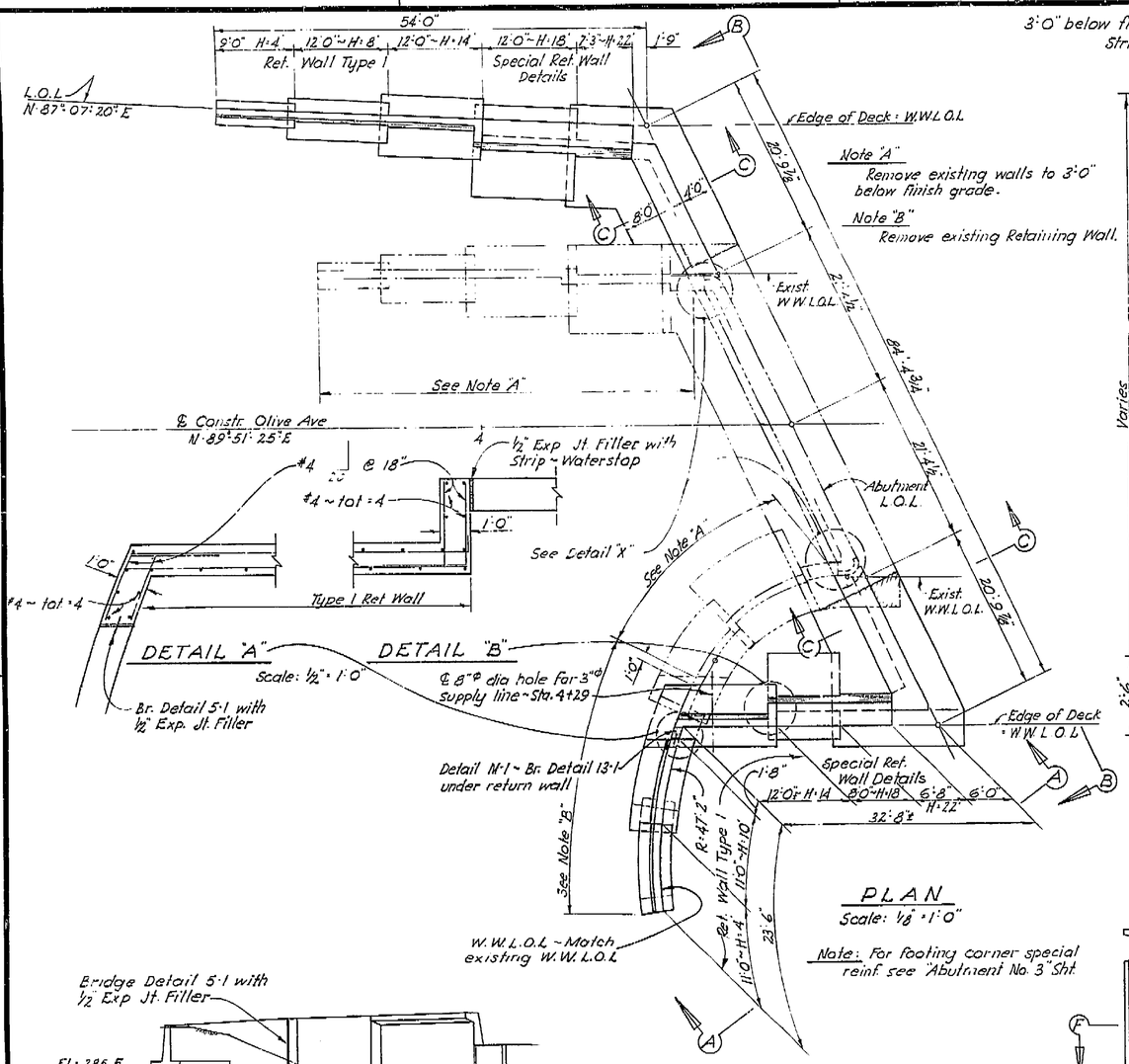
DATE ____ SIGNATURE ____ TITLE ____

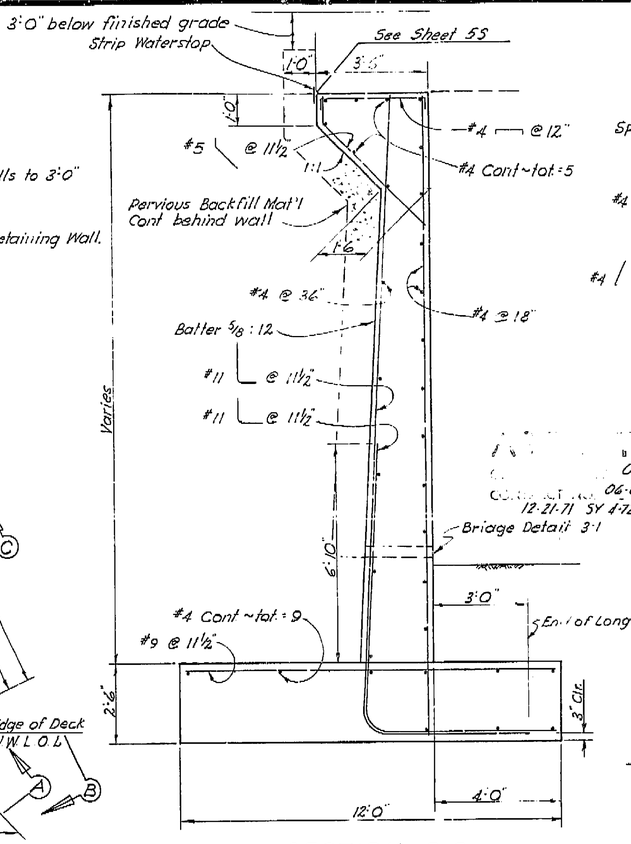
ClibPDF - www.fastio.com

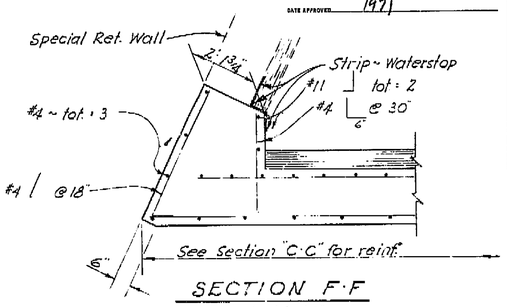
DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	23.3	3	12

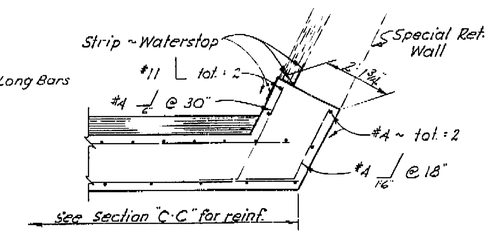
CONSTRUCTION SUPERVISOR — REGISTERED CIVIL ENGINEER NO.

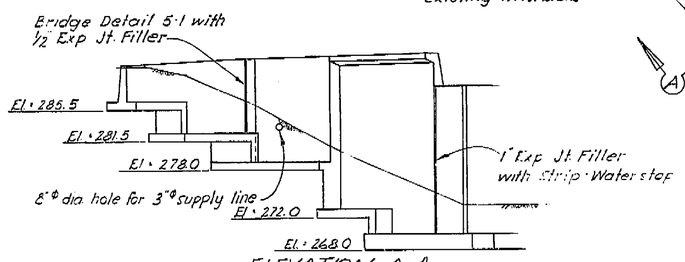
DATE APPROVED 1971

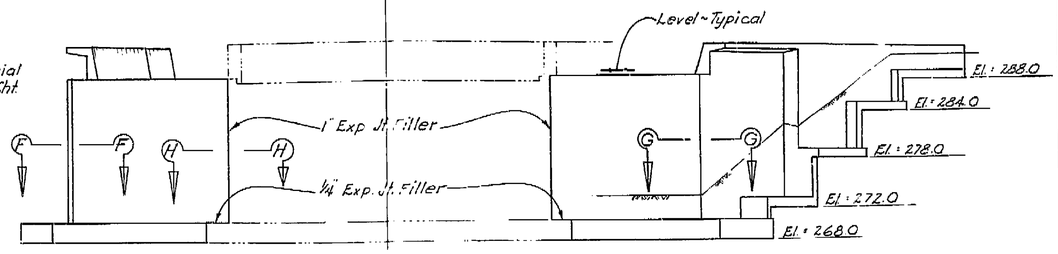


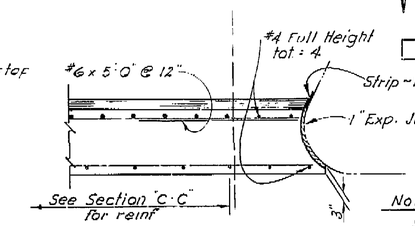












NOTE:
THE CONTRACTOR SHALL VERIFY ALL EQUIPMENT DIMENSIONS IN THE FIELD PRIOR TO ORDERING OR FABRICATING ANY MATERIAL.

W.O. 0368
PROJECT NO. 1/3
FILE NO. 2811
REF. & REV.

CITY OF FRESNO — DEPARTMENT OF PUBLIC WORKS
JAMES A. MARTIN — APPROVED
OLIVE AVE. WIDENING HUGHES TO MOTEL DR. UNIT 1
CHIEF ENGR. — ASST. ENGR. — ENGR. OF DESIGN — ENGR. OF TRAFFIC
DR. BY T.H.S. — SHEET 2 OF 11 SHEETS
4-70 NOTED
15-E-1250

BRIDGE DEPARTMENT
DESIGN SECTION 4
Project Engineer J. Meyerhoff

DESIGN	By J. Meyerhoff	3-70
	Checked Walter W. Wirick	3/70
DETAILS	By Ora Williams	12-69
	Checked Walter W. Wirick	3-70
QUANTITIES	By S. Markwell	3-70
	Checked J. Sandhu	3-70

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

OLIVE AVENUE OVERCROSSING WIDEN

ABUTMENT NO. 1

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-187			3	11

WO 085301
CU 06202

Disregard prints bearing earlier revision dates →

REVISION DATES (PRELIMINARY STAGE ONLY)

AS BUILT PLANS
Contract No. 06-085304
Date Completed
Document No. 6 0000876

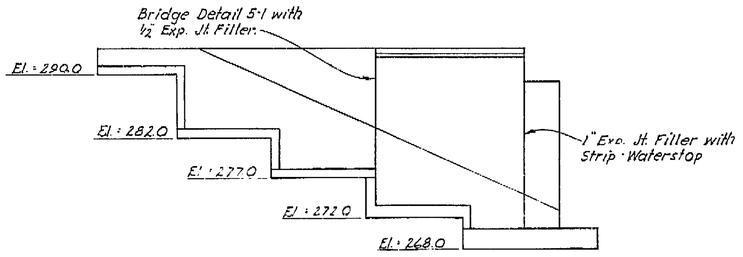
I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

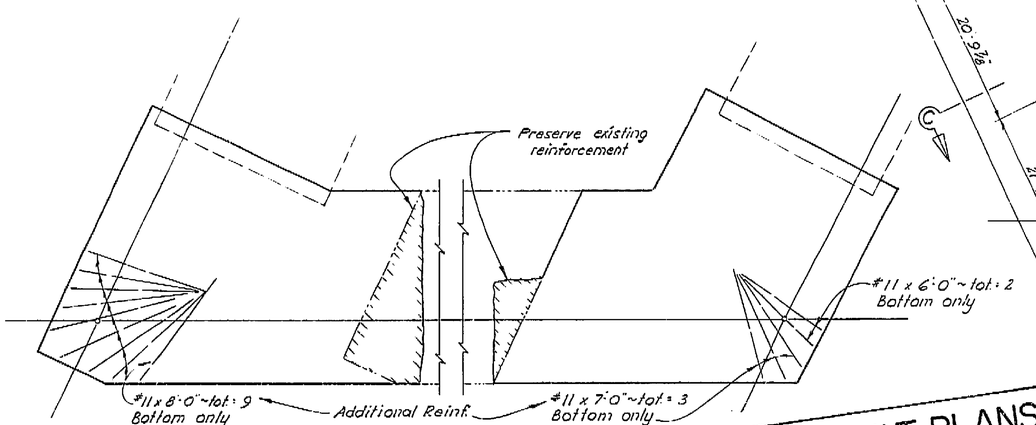
MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50'
SCALE 1" = 20'
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre.	99	23.3	4	12

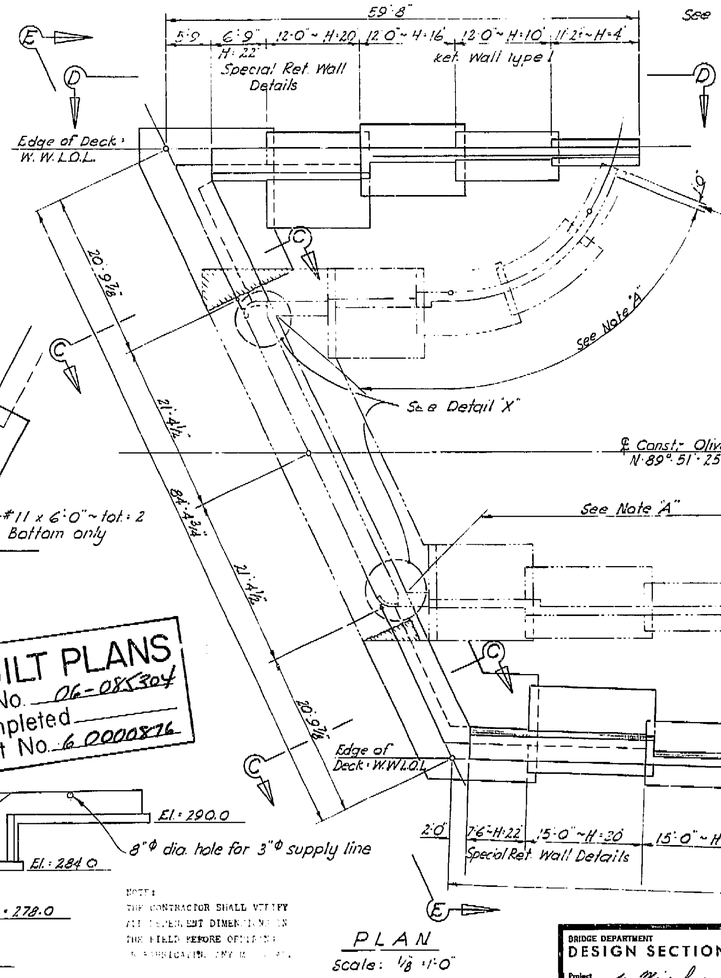
Joan H. Canfield
DESIGN SECTION SUPERVISOR — REGISTERED CIVIL ENGINEER NO.
DATE APPROVED 1971



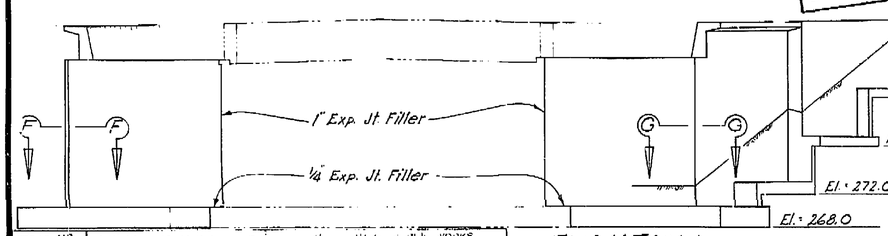
ELEVATION D·D
Scale: ⅛"=1'0"



FOOTING REINF ~ AT CORNERS
Scale: ¼"=1'0"

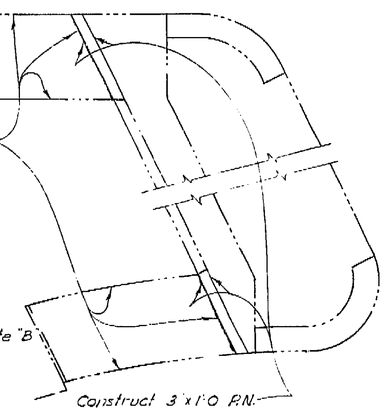


PLAN
Scale: ⅛"=1'0"



ELEVATION
SCALE ½"=1'0"

Note:
For Sections C·C, F·F, G·G & Notes "A" & "B" See Abut. No. 1 Sheet.



DETAIL "X"
Scale: ¾"=1'0"

Note:
Indicates portion of existing footing to be removed & existing reinf reused.

"AS-BUILT CORRECTIONS"
AS BUILT
CONSTRUCTION ENGINEER O.T. Pointer
CONTRACT NO. 06-085304
12-21-71 - SY 4-12

AS BUILT PLANS
Contract No. 06-085304
Date Completed
Document No. 6 0000876

NOTE:
THE CONTRACTOR SHALL VERIFY ALL EQUIPMENT DIMENSIONS IN THE FIELD BEFORE ORDERING. ANY DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.

ACCT. NO. 112
FILE NO. 5911
REF. & RM.

CITY OF FRESNO — DEPT. OF PUBLIC WORKS
JAMES L. MARTIN
CITY ENGINEER
OFFICE ENGR. F.J.O.

OLIVE AVE WIDENING HUGHES TO MOTEL DR UNIT 1

CONST. ENGR. C.I.T. ENGR. ASST
DR. BY JHS
CH. BY
DATE 11-70
PLOTTED 12-70
SHEET NO. 4
OF 11 SHEETS
15-E-1251

BRIDGE DEPARTMENT
DESIGN SECTION 4
Project Engineer G. Miyaoka

DESIGN	by	G. Miyaoka 3-70
	Chkd	Walter W. Wilk 3-70
DETAILS	by	Joe D'Silva 12-69
	Chkd	Walter W. Wilk 3-70
QUANTITIES	by	A. Mankoff 3-70
	Chkd	J. Sandhu 3-70

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

OLIVE AVENUE OVERCROSSING WIDEN

ABUTMENT NO. 3

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-187			4	11

Disregard prints bearing earlier revision dates →
REVISION DATES (PRELIMINARY STAGE ONLY)
3/4/70

WO
CU

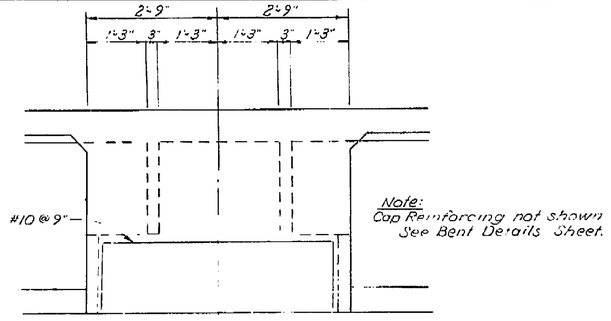
I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE ____ SIGNATURE ____ TITLE ____

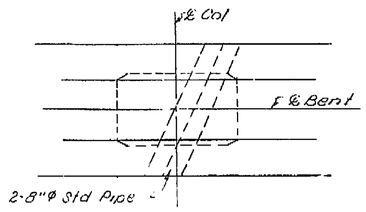
MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM
SCALE 1"= 50'
SCALE 1"= 20'
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	23.3	6	17

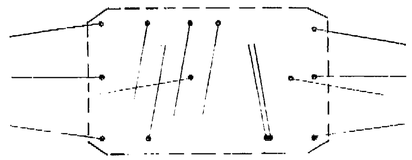
John H. Canfield
DISTRICT BRIDGE ENGINEER — REGISTERED CIVIL ENGINEER NO. 9366
DATE APPROVED APR 1 1971



CAP SECTION
Scale 3/4"=1'-0"

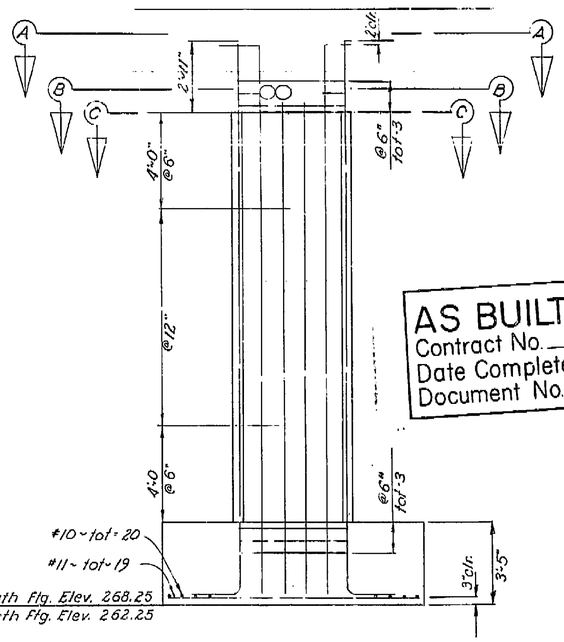


PLAN

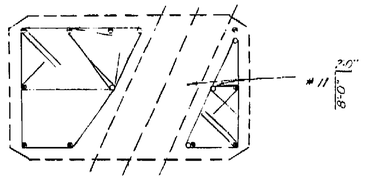


SECTION A-A

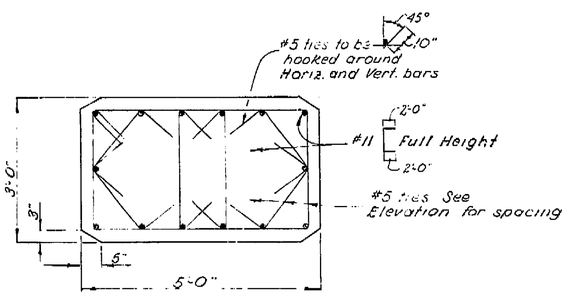
Note:
Where necessary cut column reinforcement to clear pipe by 2" and replace cut column reinforcement with Detail as shown on Section B-B



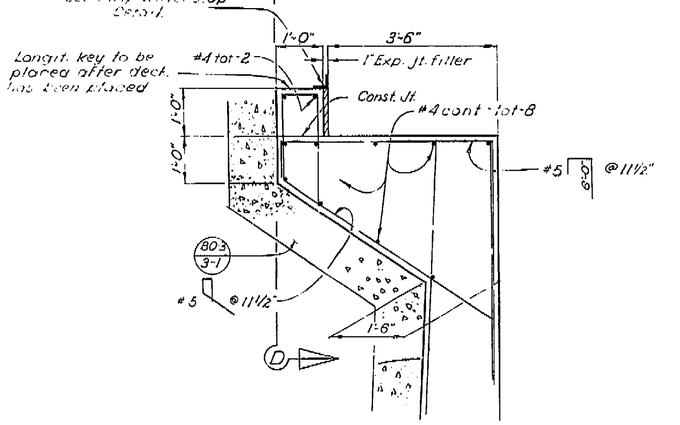
ELEVATION
Scale: 3/8"=1'-0"



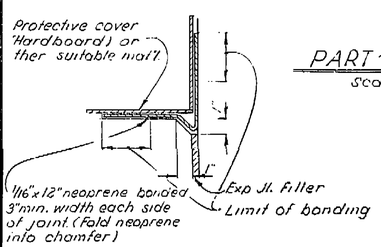
SECTION B-B



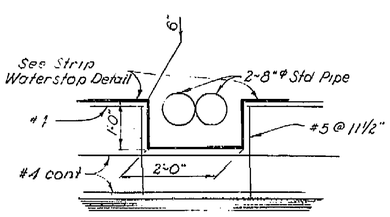
SECTION C-C
Scale: 3/4"=1'-0"



PART-ABUTMENT
Scale: 3/4"=1'-0"



STRIP WATERSTOP DETAIL



SECTION D-D
Scale: 3/4"=1'-0"

AS BUILT PLANS
Contract No. 06-085304
Date Completed
Document No. 6 0000826

OT Painter
06-085304
12-21-71 SY 4-72 (SEE Sheet 5)

SUPPLEMENTAL SHEET

BRIDGE DEPARTMENT
DESIGN SECTION 4
Project Engineer: G. Miyase 4-71

DESIGN	By	G. Miyase 4-71
	Check	T. McLaurin 4-71
DETAILS	By	J. Ramkauer 4/71
	Check	T. McLaurin 4/71
QUANTITIES	By	
	Check	

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

OLIVE AVENUE OVERCROSSING WIDEN

ABUTMENT AND BENT DETAILS

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-187			58	11

WO
CU

Disregard prints bearing earlier revision dates →

REVISION DATES (PRELIMINARY STAGE ONLY)
7/15/71

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 7/15/71 SIGNATURE _____ TITLE _____

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"= 50'
SCALE 1"= 20'
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
6	Fre	99	23.3	2	12

DATE APPROVED 1971

GENERAL NOTES

Design: AASHO Dated 1969 with Revisions and as supplemented by Bridge Planning & Design Manual.

Live Loading: HS20-44 and Alternative

Reinforced Concrete: Fs = 24,000 P.S.I., except = 20,000 P.S.I. in transverse deck slabs and stirrups

Fc = 1,300 P.S.I., except = 1,200 P.S.I. in transverse deck slabs

Footing Pressure: N = 10

(Tons Per S.F.) Allowable	Design
Abutments 5.0	4.0
Bents 5.0	5.0

"OLIVE" 5+00.00 POT= "FRE-99" 229+20.53 POT

N 25° 55' 35" W

"FRE-99" ℄

To Madera

Drainage Storage Box

2" Sprinkler Pipe

AC Berm

PCC Curb

PCC Pump Hse

Steel Plate

42.187 W

54'-0"

59'-8"±

Edge of deck : W.W.L.O.L.

1" Sprinkler Pipe

PCC SW

"OLIVE AVE" ℄

N 89° 51' 25" E

4+35.86 BB

El 292.68

84'-4 3/4" (PCC Deck)

42'-2 3/8"

32'-2 3/8"

12" RCP

20" Water casing in Girder

4" PG&E Gas Main in Girder

4-5" PT&T Ducts in SW

3" Sprinkler Pipe on rail base

5+64.14 EB

El 293.66

OLIVE AVE (AC)

PCC Rolled Gutter

(AC Is.)

2" Pipe

3" Sprinkler Pipe

32'-8"±

23'-6"

3/4" Sprinkler Pipe (Exposed)

EAST R/E 99 (PCC)

TO BAKERSFIELD

AC Berm

PCC Curb

2" Sprinkler Pipe

91'-7 1/4"±

BM #4
3" I.P. w/ guard & tack
No. 11 "Olive" 2+35
Elev 288.73

BM #5
3" I.P. w/ guard & tack
No. Lt "Olive" 7+65
Elev 294.36

Note: All Footings shown on this sheet to the limit of the top of footings are Structure Concrete, Bridge Footing.

PR-42187-1

O.T. Painter
06-085304
12-21-71
SY 4.72

NOTE:
THE CONTRACTOR SHALL VERIFY ALL DEPENDENT DIMENSIONS IN THE FIELD BEFORE ORDERING OR FABRICATING ANY MATERIAL.

AS BUILT PLANS
Contract No. 06-085304
Date Completed 06-05-74
Document No. 6-0206074

SCALE 1" = 10'
LEVEL DATUM: CITY OF FRESNO
FOR ALIGNMENT TIES SEE PR-19187-24 As Built
CONTOURS AS OF March 1968
SITE PLAN TO SUPPLEMENT DISTRICT DATA.
SURVEY BY DJB DATE 3-68
DRAWN BY DJB-DWP DATE 3-68
TRACED BY RDR DATE 3-68

WO. 0368
ACCT. NO. 113
FILE NO. 3911
REF. & REV.

CITY OF FRESNO — DEPARTMENT OF PUBLIC WORKS — JAMES L. MARTIN

OLIVE AVE. WIDENING HUGHES TO MOTEL DR. UNIT 1

Asst. T.H.S. 11-70 NOTED

EIR 2 SHEETS 15-E-1249

BRIDGE DEPARTMENT
DESIGN SECTION

Project Engineer J. Mizuba

DESIGN	By J. Mizuba	3-70
	Checked Walter W. White	3/70
DETAILS	By Joe Price	2-70
	Checked Walter W. White	3/70
QUANTITIES	By J.S. Marshall	3/70
	Checked J. Sanchez	3/70

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

OLIVE AVENUE OVERCROSSING

FOUNDATION PLAN

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-187	23.3	B-42	2	11

WO 085300
CU 06202

Disregard prints bearing earlier revision dates →

REVISION DATES (PRELIMINARY STAGE ONLY)
7/14/70 3/4 4/5/71

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

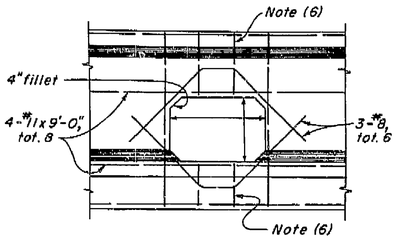
DATE _____ SIGNATURE _____ TITLE _____

MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM
SCALE 1"= 50' SCALE 1"= 50' SCALE 1"= 20' SCALE 1"= 20'
ClibPDF - www.fastio.com

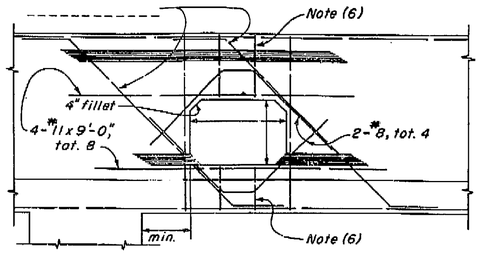
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre.	99	23.3	11	17

BRIDGE ENGINEER — CIVIL ENGINEER-LICENSE 2583

APPROVED 1971

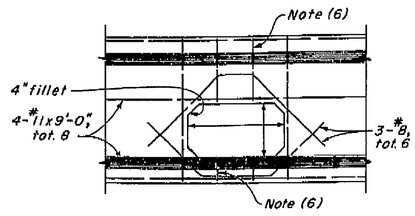


TYPICAL
DETAIL U1

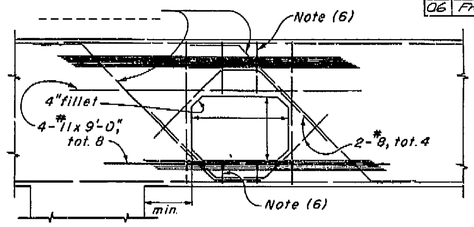


NEAR COLUMN
DETAIL U2

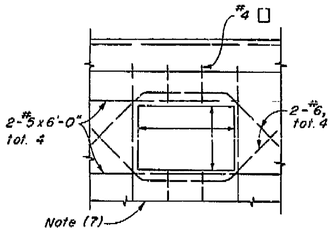
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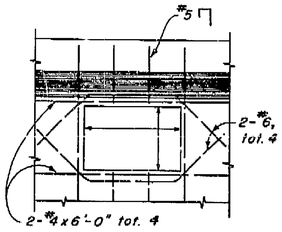
TYPICAL
DETAIL U3



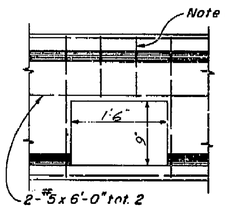
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DETAIL U4



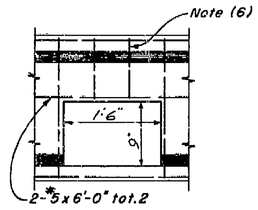
RIGID FRAME
DETAIL U5



CANTILEVER TYPE
DETAIL U6



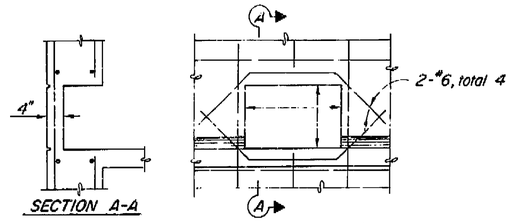
END
DETAIL U7



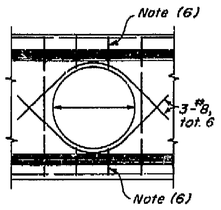
INTERMEDIATE
DETAIL U8

ABUTMENT BACKWALL

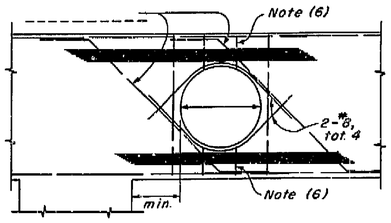
DIAPHRAGMS



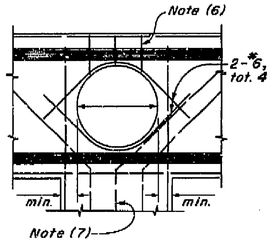
PROVISION FOR FUTURE UTILITY
THROUGH ABUTMENT BACKWALL
DETAIL U9



TYPICAL
DETAIL U12

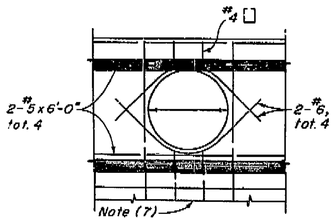


NEAR COLUMN
DETAIL U13

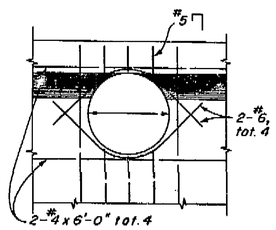


AT COLUMN
DETAIL U14

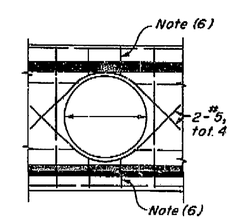
BENT CAP



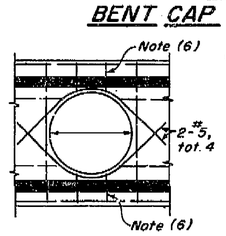
RIGID FRAME
DETAIL U15



CANTILEVER TYPE
DETAIL U16



END
DETAIL U17



INTERMEDIATE
DETAIL U18

ABUTMENT BACKWALL

DIAPHRAGMS

AS BUILT PLANS
Contract No. 06-085304
Date Completed
Document No. 6 0000876

"NO AS-BUILT CORRECTIONS"
AS BUILT
CORRECTIONS BY O.T. Pointer
CONTRACT NO. 06-085304
12-21-71 SY 4-72

NOTES

(1) For exact location and direction of openings see other sheets.
(2) Location and size of utility openings may be modified as directed by the Engineer, provided minimum dimensions are maintained.
(3) Girders not shown, see other sheets.
(4) Seal around utilities at abutments to be of sufficient strength to withstand earth pressure.
(5) All reinforcement detailed to be placed in addition to reinforcement shown on other sheets.
(6) Stirrups are same size as adjacent stirrups shown on other sheets.
(7) Main reinforcement to clear opening as detailed on other sheets.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL DEPENDENT DIMENSIONS IN THE FIELD BEFORE ORDERING OR FABRICATING ANY MATERIAL.

11/69 — STATE OF CALIFORNIA BUSINESS AND TRANSPORTATION AGENCY DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS — XS 16-49

OLIVE AVENUE OVERCROSSING
WIDEN

UTILITY OPENINGS - BOX GIRDER

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-187			10	11

REVISION DATES (PRELIMINARY STAGE ONLY) 3/4/70

W.O — Disregard prints bearing earlier revision dates →

STANDARD DRAWING
DESIGN
DETAILS
Approved for Use
Bridge Engineer

Rev.: Bar totals 2/9/61 LPS.

REGISTER TITLE BLOCK
DELETE "DETAILS U9, U10 AND U11" ADD U5 EJS

REVISED TITLE
29 NOV 66 EJS

CITY OF FRESNO
DEPARTMENT OF PUBLIC WORKS
APPROVED
CITY ENGINEER
DATE
SHEET NO.
JOB NO.
DWG. NO.
REV. & INIT.
OLIVE AVE. WIDEN
AUGUST 1969

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS
BRIDGE DEPARTMENT

15-2-1257

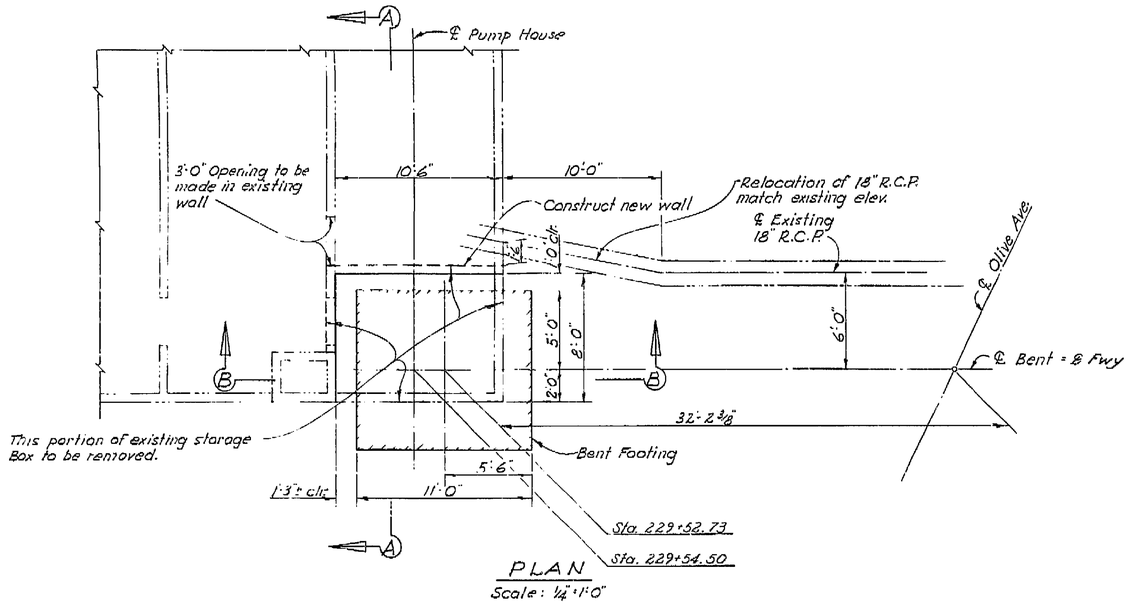
I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE

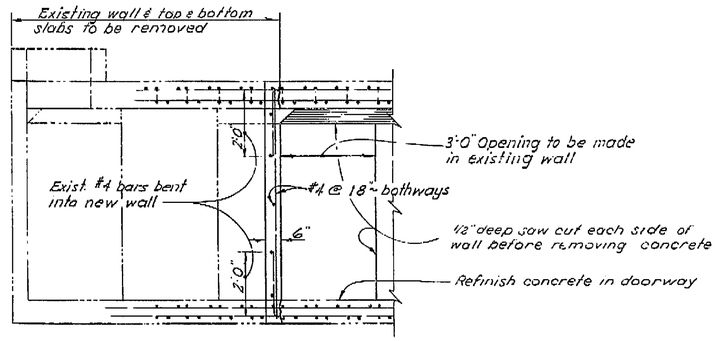
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DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre.	99	23.3	9	14

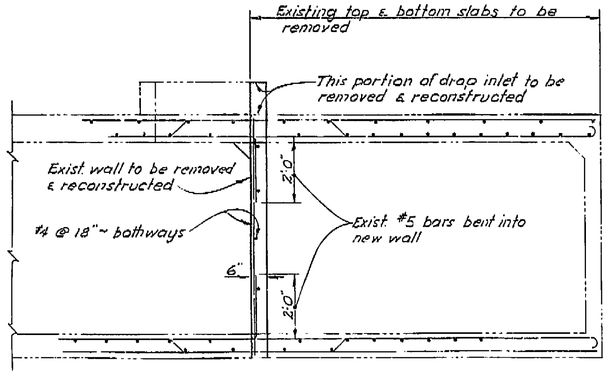
Arthur H. Campfield
DISTRICT BRIDGE ENGINEER — REGISTERED CIVIL ENGINEER NO.
DATE APPROVED 1971



PLAN
Scale: 1/4"=1'-0"



SECTION A-A
Scale: 1/2"=1'-0"



SECTION B-B
Scale: 1/2"=1'-0"

AS BUILT PLANS
Contract No. 06-085304
Date Completed
Document No. 6-0000876

AS BUILT CORRECTIONS
AS BUILT
CONTRACTOR O.T. Painter
CONTRACT NO. 06-085304
12-21-71 SY 4-72

NOTE:
THE CONTRACTOR SHALL VERIFY ALL DEPENDENT DIMENSIONS IN THE FIELD BEFORE ORDERING OR FABRICATING ANY MATERIAL.

BRIDGE DEPARTMENT DESIGN SECTION 4		
Project Engineer Y. Mujaba		
DESIGN	By Y. Mujaba 3-70	
	Chkd Walter W. Wirth 3-70	
DETAILS	By Jos J. Sousa 2-70	
	Chkd Walter W. Wirth 3-70	
QUANTITIES	By M. Mitchell 3-70	
	Chkd J. Saunders 5-70	

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

OLIVE AVENUE OVERCROSSING WIDEN

DRAINAGE STORAGE BOX DETAILS

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-187			8	11

REVISION DATES (PRELIMINARY STAGE ONLY): 4/4/70 3/4

Disregard prints bearing earlier revision dates →

W.O. 0868
MDTL NO. 1112
FILE NO. 5911
REF. & REV.

CITY OF FRESNO — DEPARTMENT OF PUBLIC WORKS
JAMES E. MARTIN
COUNTY ENGR. APPROVAL
CITY ENGR. APPROVAL
OFFICE ENGR.
DR. BY F.H.S.
CH. BY
DATE 11-70
SCALE: NOTED
SHEET NO. 8 OF SHEETS
15-E-1255

OLIVE AVE. WIDENING
HUGHES TO MOTEL DR.
UNIT 1

WO
CU

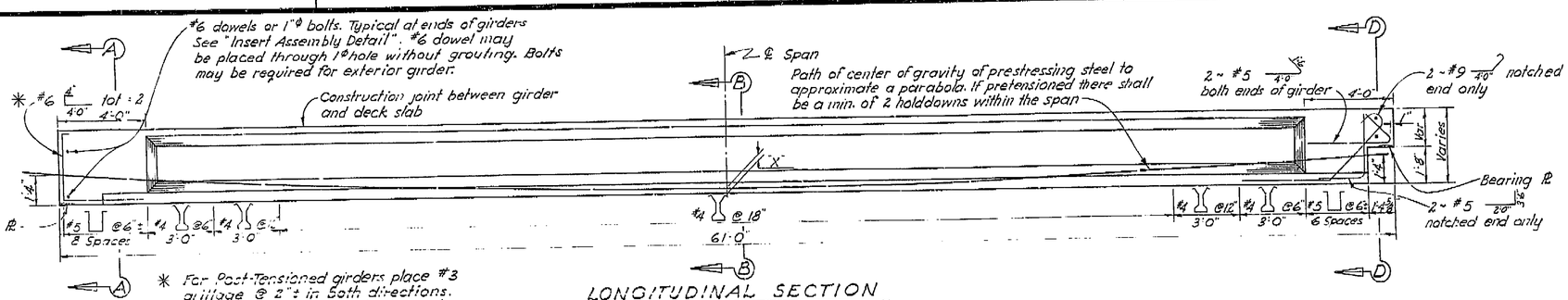
I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 4/13/72 SIGNATURE [illegible] TITLE [illegible]

ClibPDF - www.fastio.com

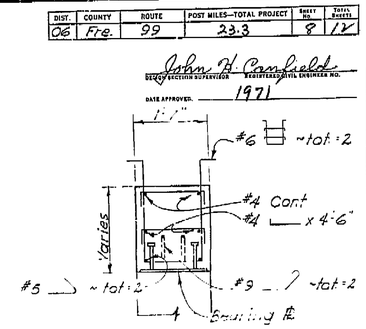
DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre.	99	23.3	8	11

John H. Canfield
DESIGN SECTION SUPERVISOR — REGISTERED CIVIL ENGINEER NO.
DATE APPROVED: 1971

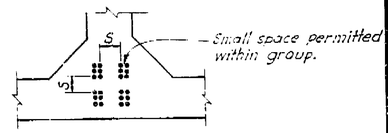


* For Post-Tensioned girders place #3 grillage @ 2"± in both directions. Grillage to be placed 2"± behind anchorages, both ends of girder.

LONGITUDINAL SECTION
Scale: 3/8"=1'-0"



SECTION D-D
Scale: 3/4"=1'-0"



CLEARANCES FOR PRETENSIONED STRANDS

1. Strands may be bundled in groups consisting of 3 vertically and 2 horizontally, and separated at the ends.
2. The min. distance "S" between groups or individual strands is 1½" for 3/8" strands, 1¾" for 7/16" strands and 2" for ½" strands.
3. "S" is measured between centers of adjacent strands.
4. Approval of the Engineer is required for deviation.

CLEARANCES FOR POST-TENSIONED UNITS

1. Horizontal clearance between units = 2½" min.
2. Units may be bundled vertically in groups of 3 max.
3. Vertical clearance between bundled units = 3" min.
4. Approval of the Engineer is required for deviation.

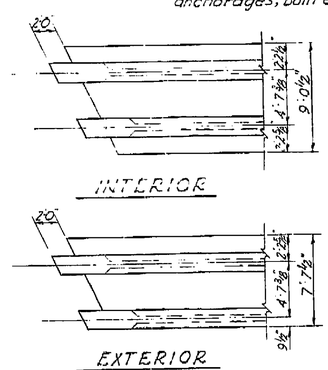
PRESTRESSING NOTES

Working Force: The force remaining per girder after all losses.

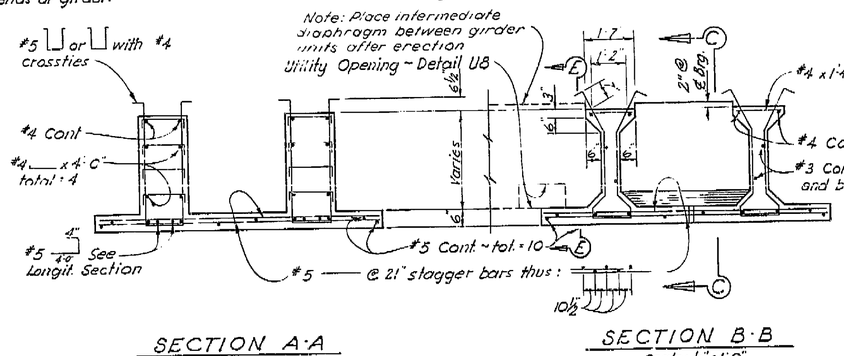
Concrete Strength: f'ci is at time of initial stressing, f'c is at 28 days, psi.

Camber: Soffit is to be cast parabolic with value shown as ordinate at ℄ span.

Screed Line will be determined by the Engineer.



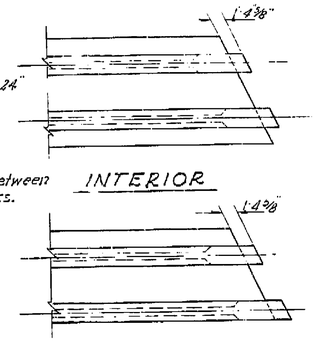
PLAN AT ABUTMENT
Scale: 3/16"=1'-0"



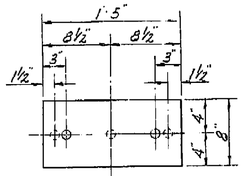
SECTION A-A
Scale: ½"=1'-0"

SECTION B-B
Scale: ½"=1'-0"

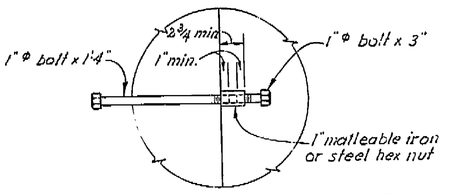
Note: Sections A-A & B-B are of interior girders; exterior girders are similar, except bottom slab width



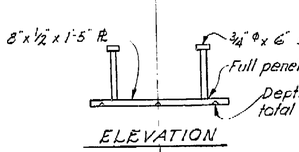
PLAN AT BENT
Scale: 3/16"=1'-0"



PLAN

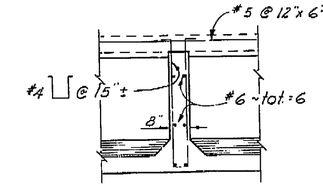


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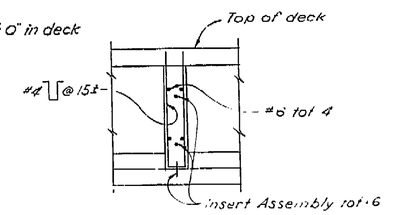


ELEVATION

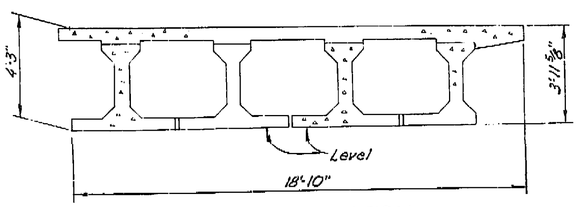
BEARING PLATE
(Galvanize after fabrication)



INTERMEDIATE DIAPHRAGM
SECTION C-C
Scale: ½"=1'-0"



SECTION E-E
Scale: ½"=1'-0"



Note: Reinf not shown.

TYPICAL SECTION
Scale: 3/8"=1'-0"

Girder Location or Designation (Length)	"X"	Pf = Working force, Kips Post-ten	Pre-ten	Concrete Strength Post-ten	Pre-ten	Deflection at ℄ Span due to C.I.P. Slab	Camber @ ℄ Span
Exterior (61'-0")	3"	690	590	f'ci = 3,500	f'ci = 4,000	1/2	1/2
	4"	720	610				
	5"	750	640	f'c = 3,500	f'c = 4,000		
Interior (61'-0")	3"	660	540			1/2	1/2
	4"	690	560				
	5"	720	580				

AS [illegible]
CO
CONST
12-21-71 SY 4-72
O.T. Painter
06-085304
Revised by C.C.O. No. 2 ~ See attached shop plans for details

NOTE:
THE CONTRACTOR SHALL VERIFY ALL DEPENDENT DIMENSIONS IN THE FIELD BEFORE ORDERING OR FABRICATING ANY MATERIAL.

BRIDGE DEPARTMENT
DESIGN SECTION 4
Project Engineer: H. Mojaba

DESIGN	By	H. Mojaba 3-70
	Checked	Walter W. Wirth 3-70
DETAILS	By	Jose Pinon 3-70
	Checked	Walter W. Wirth 3-70
QUANTITIES	By	M. Mirabelli 3-70
	Checked	J. Sanders 3-70

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

OLIVE AVENUE OVERCROSSING WIDEN
GIRDER DETAILS

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-187			7	11

REVISION DATES (PRELIMINARY STAGE ONLY)
7/6/70 | 3/4 | 7/6 | 9/5/11

Disregard prints bearing earlier revision dates →

WO 085301
CU 06202

AS BUILT PLANS
Contract No. 06-085304
Date Completed
Document No. 6 0000876

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE: _____ TITLE _____

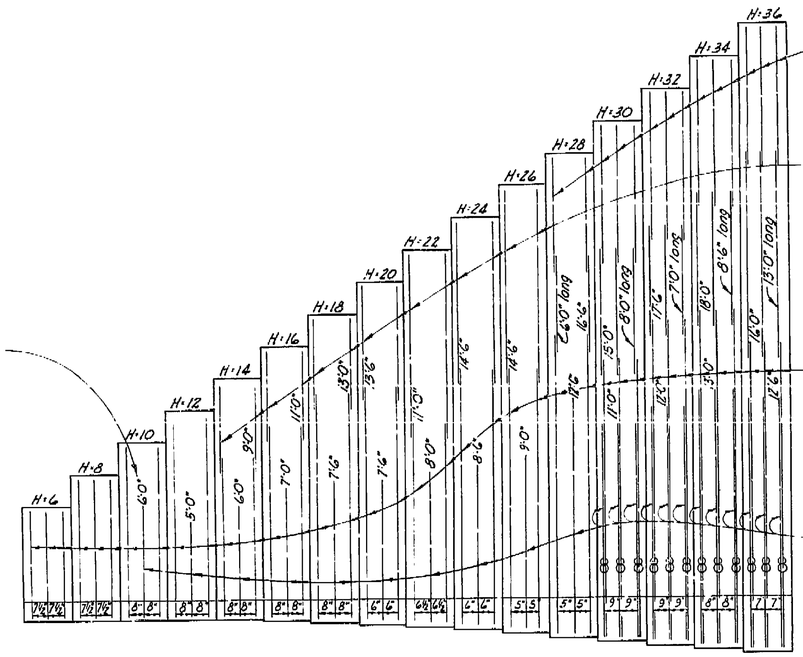
CITY OF FRESNO
DEPARTMENT OF PUBLIC WORKS
APPROVED _____ DIRECTOR
OLIVE AVE. WIDENING
HUGHES TO MOTEL DR
UNIT I
DESIGNED T.S.
DRAWN
CHECKED
QUANTITIES
SHEET NO. 7
15-E-1254

ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre.	99	23.3	10	11

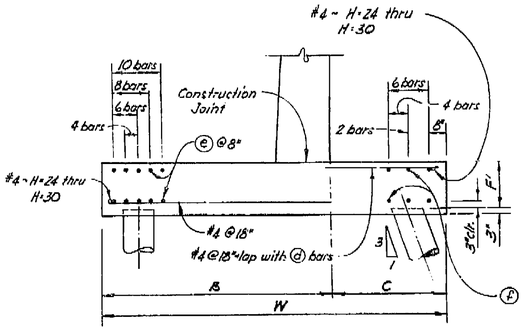
John B. Caulfield
HIGHWAY BRIDGE ENGINEER
DATE APPROVED 1971

Note: Bar cut-offs may be varied in increments of 6".

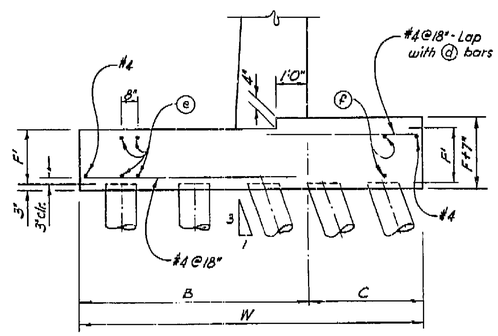


ELEVATION

SPREAD FOOTING
H=6' thru H=36'



PILE FOOTING
H=6' thru H=30'



PILE FOOTING
H=32' thru H=36'

TABLE OF REINFORCING STEEL DIMENSIONS AND DATA

Design H	6'	8'	10'	12'	14'	16'	18'	20'	22'	24'	26'	28'	30'	32'	34'	36'
W	5'6"	6'6"	7'6"	8'3"	9'3"	10'3"	11'0"	12'0"	13'3"	14'3"	15'3"	16'3"	17'3"	18'6"	19'8"	20'9"
C	1'10"	2'2"	2'6"	2'9"	3'1"	3'5"	3'8"	4'0"	4'6"	4'9"	5'9"	6'1"	6'5"	6'10"	7'3"	7'7"
B	3'8"	4'4"	5'0"	5'6"	6'2"	6'10"	7'4"	8'0"	8'9"	9'6"	9'6"	10'2"	10'10"	11'8"	12'5"	13'2"
Batter	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	5/8:12	5/8:12	5/8:12	3/4:12	3/4:12	7/8:12	1:12	1:12
ⓐ Bars	—	—	—	—	—	—	—	—	—	—	—	#7@10"	#7@9"	#7@9"	#6@8"	#6@7"
ⓑ Bars	—	—	—	—	#8@16"	#8@16"	#6@16"	#6@12"	#8@13"	#8@12"	#8@10"	#9@10"	#7@9"	#9@9"	#9@8"	#9@7"
ⓒ Bars	#4@7½"	#5@7½"	#6@8"	#7@8"	#8@8"	#9@8"	#10@8"	#10@6"	#11@6½"	#11@6"	#11@5"	#11@5"	#11@5" ℓ	#11@5" ℓ	#11@4" ℓ	#11@4" ℓ
ⓓ Bars	#4@7½"	#4@7½"	#6@8"	#7@8"	#8@8"	#9@8"	#10@8"	#9@6"	#10@6½"	#10@6"	#10@5"	#10@5"	#9@5" ℓ	#10@5" ℓ	#10@4" ℓ	#9@4" ℓ
ⓔ Bars	6-#6	6-#6	10-#7	10-#7	10-#7	10-#7	8-#7	8-#7	8-#7	4-#7	4-#7	4-#7	4-#7	4-#7	4-#7	4-#7
ⓕ Bars	—	—	6-#7	6-#7	6-#7	6-#7	4-#7	4-#7	4-#7	2-#7	2-#7	2-#7	2-#7	2-#7	2-#7	2-#7
F (Spread)	1'-2"	1'-2"	1'-2"	1'-2"	1'-2"	1'-3"	1'-5"	1'-7"	1'-9"	1'-11"	2'-2"	2'-6"	2'-9"	3'-0"	3'-3"	3'-6"
F' (Pile)	1'-2"	1'-2"	1'-2"	1'-2"	1'-3"	1'-8"	1'-8"	1'-8"	1'-9"	1'-11"	2'-6"	3'-3"	2'-11"	3'-7"	3'-10"	4'-1"

ℓ · Denotes a bundle of 2 bars

"NO AS-BUILT CORRECTIONS"
AS BUILT
CORRECTIONS BY O.T. Pointer
CONTRACT NO. 06-085304
12-21-71 SY 4-72

Note: For details not shown and drainage notes see "Retaining Wall Details No. 1".

Note: Pile footing reinforcement detailed is to be placed in addition to that shown for spread footing. All piles not shown, see pile layout on other sheets.

AS BUILT PLANS
Contract No. 06-085304
Date Completed 6-2000276
Document No.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL DEPENDENT DIMENSIONS IN THE FIELD BEFORE ORDERING OR FABRICATING ANY MATERIAL.

WR. 0348
ACCT. NO. 116
FUND NO. 68 14
JOB NO. & PROJ.

CITY OF FRESNO — DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
OLIVE AVE. WIDENING HUGHES TO MOTEL DR. UNIT 1
APPROVED
ASST. ENGR. — OFFICE ENGR.
CITY ENGR.
DR. BY — EVELY NO. 0
CK. BY — OF — SHEETS
DATE 11-70
SCALE None
15-6-1256

BRIDGE DEPARTMENT
DESIGN SECTION 4
Project Engineer J. Miyake

DESIGN	By	J. Miyake 3-70
	Checked	D.E.S.
DETAILS	By	Jack D'Orsi 2-70
	Checked	D.E.S.
QUANTITIES	By	A.D. Marshall 2-70
	Checked	J. Sanchez 3-70

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

OLIVE AVENUE OVERCROSSING
WIDEN

SPECIAL RETAINING WALL DETAILS

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-187		9	11	

WO 085301
CU 06202

Disregard prints bearing earlier revision dates →

REVISION DATES (PRELIMINARY STAMP ONLY)

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE ____ SIGNATURE ____ TITLE ____

ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.				

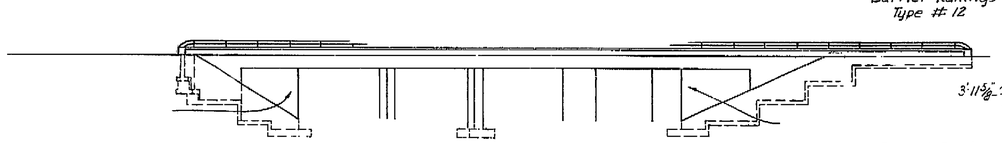
DIST	COUNTY	ROUTE	POST MILES - TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	23.3	1	12

BRIDGE ENGINEER — REGISTERED CIVIL ENGINEER NUMBER 5585

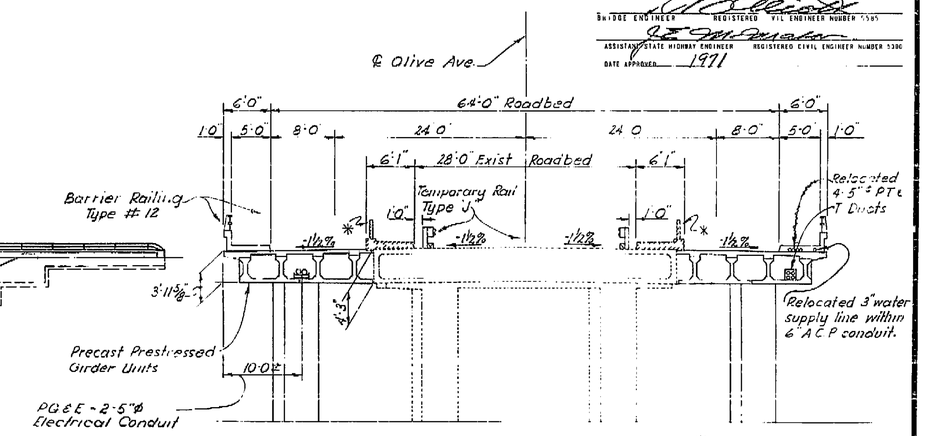
ASSISTANT STATE HIGHWAY ENGINEER — REGISTERED CIVIL ENGINEER NUMBER 5336

DATE APPROVED 1971

BRIDGE DEPARTMENT



ELEVATION
Scale: 1" = 20'



TYPICAL SECTION
Scale: ⅛" = 1'-0"

□ Chiseled on sidewalk 4" face of sidewalk.

* Existing Rail & Sidewalk to be removed & Deck to be refinished.

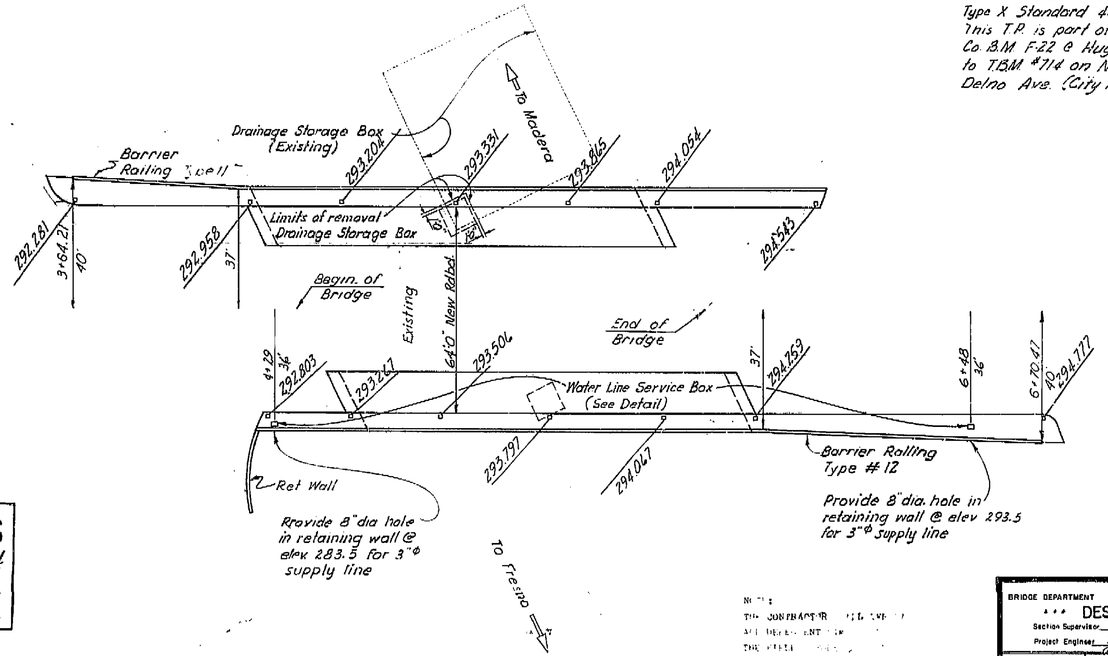
BM (T.P. #3A) El. 294.74 on S.E. Anchor bolt of Type X Standard 40'± Lt. of Sta. 7+27
This T.P. is part of circuit run from Co. B.M. F.22 @ Hughes & Olive Ave. to T.B.M. #714 on N.E. cor. of Olive & Delno Ave. (City Datum)

INDEX TO PLANS

Sheet No.	Title
1	GENERAL PLAN
2	FOUNDATION PLAN
3	ABUTMENT NO. 1
4	ABUTMENT NO. 3
5	BENT DETAILS
6	TYPICAL SECTION AND DECK DETAILS
7	GIRDER DETAILS
8	DRAINAGE STORAGE BOX DETAILS
9	SPECIAL RETAINING WALL DETAILS
10	UTILITY OPENINGS - BOX GIRDER
11	LOG OF TEST BORINGS

STANDARD PLANS DATED JULY, 1969

A35-B	PCC PAVING DETAILS AND BRIDGE APPROACHES
A62-B.2	EXCAVATION AND BACKFILL, BRIDGES AND WALLS
B0-1.3 & 5	BRIDGE DETAILS
B3-1	RETAINING WALL - TYPE 1 (H 4 to 30)
B3-8	RETAINING WALL DETAILS NO. 1
R7-1	BOX GIRDER DETAILS
B11-30	*EMPORARY RAILINGS
B11-41	BARRIER RAILING TYPE 11
B11-43	METAL RAILING DETAILS TYPES 9, 10 & 11



PLAN
Scale: 1" = 20'

FOR GENERAL NOTES SEE Foundation Plan

LIVE LOADING HS20-44 AND ALTERNATIVE

	Submitted by	Recommended by	Approved by
DESIGN			
DETAILS	By W.P.N. 2-71	Dated H-L 1-71	
QUANTITIES	By D.L.C. 11-53	Dated H.L. 1-13	
SPECIFICATIONS	By M.E. 2-71	Dated 2-26-71	
		Type of Bridge P.C.	
		Design Live Load HS20-44	
		Skew or Angle of Skew 55°-0" x 32.8	
		Length of Bridge 64'-0"	

AS BUILT PLANS
Contract No. 06-085304
Date Completed
Document No. 6 0000876

W.O. 09369
DIST. NO. 06
FILE NO. 591.1
REF. S.P.

CITY OF FRESNO — DEPARTMENT OF PUBLIC WORKS
JAMES L. MARTIN — DIRECTOR

OLIVE AVENUE WIDENING
HUGHES TO MOTEL DRIVE
UNIT 1

ASST. DIRECTOR — THS
APPROVED 4-7-70
DATE 4-20-70
15-E-1246

BRIDGE DEPARTMENT
*** DESIGN SECTION 4
Section Supervisor Conor N. Campbell
Project Engineer G. Mirjahe

DESIGN	By G. Mirjahe 3-70	Checked	3/30
DETAILS	By Dar 2 Bay 3-70	Checked	3/30
LAYOUT	By G. Mirjahe 3-70	Checked	3/30
QUANTITIES	By E.M.P. Mitchell 3-70	Checked	3/30
SPECIFICATIONS	By Dar Mayhew 4-70	Plans and specs. Compared	

Approval Recommended By _____ DESIGN ENGINEER — REGISTERED CIVIL ENGINEER LIC. NO. 7280

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

OLIVE AVENUE OVERCROSSING WIDEN

LOCATED IN THE CITY OF FRESNO IN FRESNO COUNTY

GENERAL PLAN

BRIDGE NO.	POST MILE	SHEET	OF
42-187	23.3	1	11

REVISION DATES (PRELIMINARY STAGE ONLY)
Disregard prints bearing earlier revision date → 3/26 4/8 4/19 4/22 4/26 5/20 5/23 5/24 3/24

Lengthen Abut. 3 wingwall, Elevation 1'-0" dia. to keep part. Type J

WO 085301
CU 06202

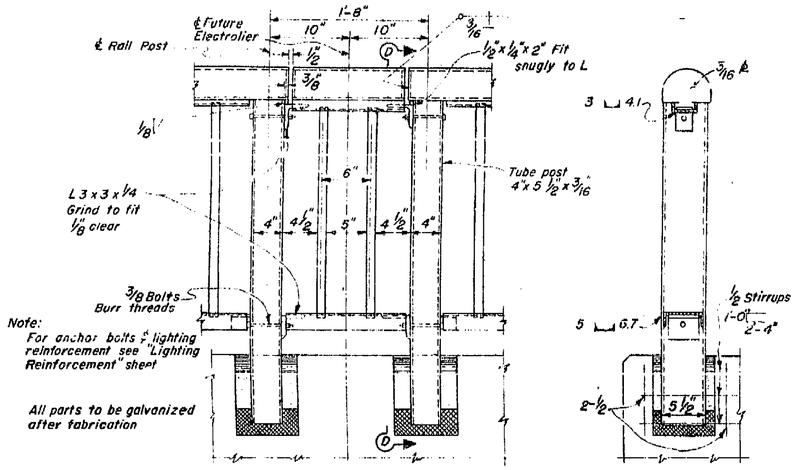
I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

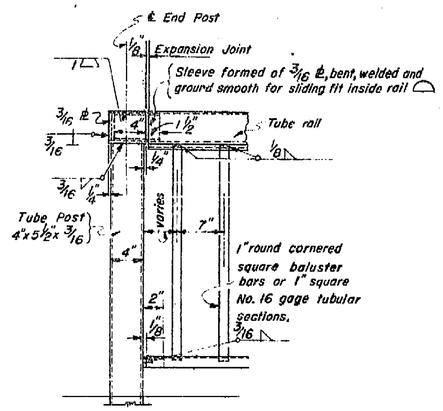
O.T. Pointer
06-085304
12-21-71 SY 4-72

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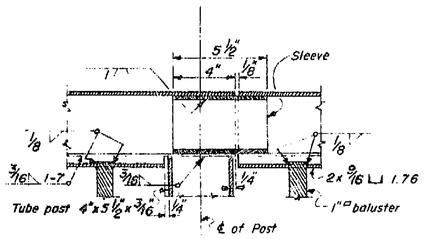
STANDARD DRAWING
Submitted by ... Date ... 12-23-53
DESIGN 1 Standard Highway Planning Standard
DETAILS 2 Standard Highway Planning Standard
QUANTITIES 3 WEB E-33 Checked ... Standard
SPECIFICATIONS 4 Checked ... Standard
APPROVAL RECOMMENDED BY ... DATE ... 1953
Approval Recommended By ... Date ... 1953
ENGINEER OF DESIGN ... CIVIL AND STRUCTURAL ENGR. LICENSE NO. ...
DESIGN 1 SECTION
DESIGN W.R.M. 2-54 CHECKED H.K. 2-54
DETAILS O.C.D. 11-53 CHECKED O.G.I. 2-54
QUANTITIES C.A.C. 2-54 CHECKED ... 2-54
SPECIFICATIONS ... CHECKED ... 2-54
APPROVAL RECOMMENDED BY ... ENGINEER OF DESIGN ...
SUBMITTED ... DATE ...
BRIDGE DEPARTMENT



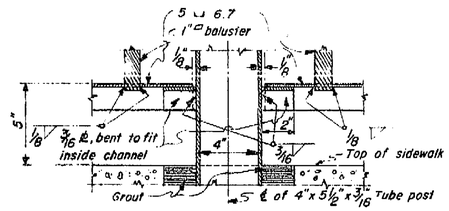
RAILING CLOSURE-DETAIL E-3 Scale: 1½"=1'-0" SECTION D-D



SINGLE END POST
Scale: 1½" = 1'-0"



SECTION (H)-(H)
Scale: 3" = 1'-0"



SECTION (G)-(G)
Scale: 3" = 1'-0"

VI Fre — — 12 — 15
Bridge Engr. Civil Engr Lic. No. 8585
Approved April 26, 1954

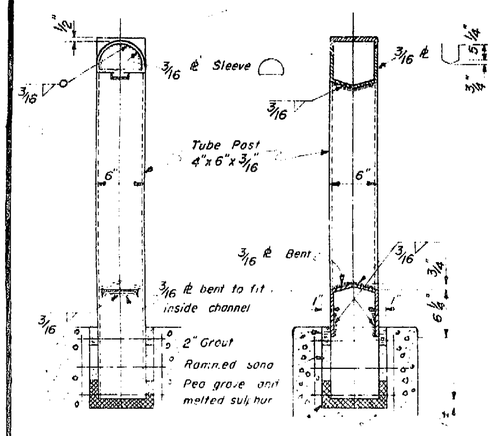
NOTES:

Space posts to clear expansion joints by 9" min. to ℄ of post.

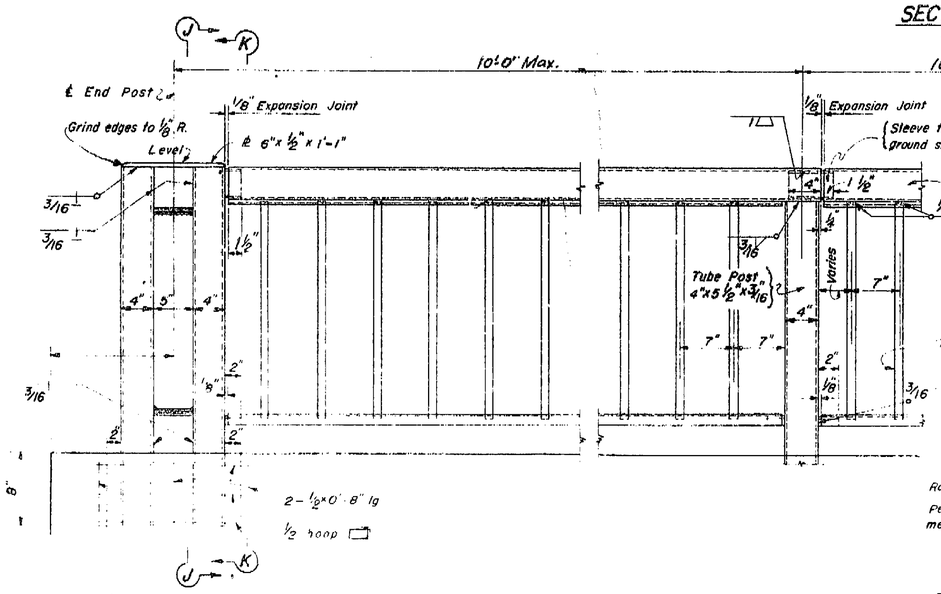
Exact post hole locations are to be determined from approved railing shop plans.

Railing shall conform to horizontal and vertical alignment. Posts and balusters shall be vertical with a maximum deviation not to exceed that represented by a rise of 1/4" in one panel.

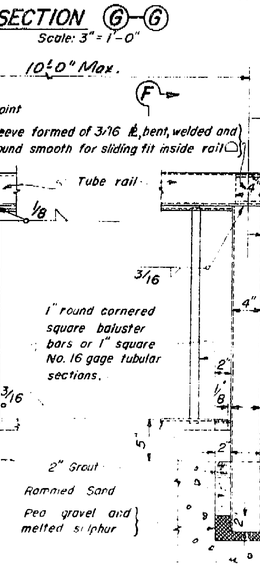
Railing to be galvanized after fabrication. For further requirements see special provisions.



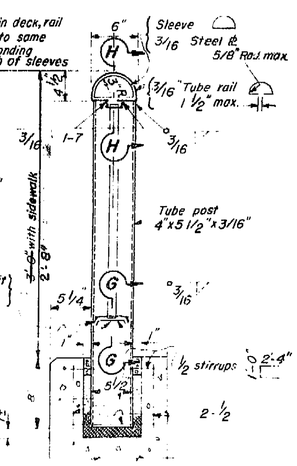
SECTION (K)-(K) SECTION (J)-(J)



DOUBLE END POST



INTERMEDIATE POST



SECTION (F)-(F)

STEEL RAILING DETAILS
Scale: 1½" = 1'-0"

AS BUILT
CORRECTIONS BY D.E. CARLSON
CONTRACT NO. 55-6TC4
DATE 12/1/55
J.A.C. 7/19/79

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

OLIVE AVENUE OVERCROSSING

STEEL RAILING

SCALE As Shown | BRIDGE 42-187 | FILE X-5-7-49 | DRAWING 3470-12

PREL. DRAWING NO. P-3470 47

AS BUILT PLANS
Contract No. 55-6TC4
Date Completed ...
Document No. ...

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.
DATE 1-30-80 SIGNATURE Joseph M Cota TITLE SUPERVISOR OF MICROFILM SERVICES

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UI-0194 (1)

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2	CAL.			33	167

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
11	Fre	9	Fre,C	14	15

BRIDGE ENGINEER — CIVIL ENGINEER-LICENSE 5865

APPROVED April 26, 1954

DESIGN 7 BRIDGE DEPARTMENT

SECTION

FIELD STUDY	In C.H. Wood 3-14-53	
DRAWN	In C.H. Wood 3-14-53	
CHECKED	In C.H. Wood 3-14-53	
Approved Recommended for Construction		

Distance: 7.56 ft
Distance: 78.92 ft
Distance: 96.72 ft
Distance: 22.53 ft
Distance: 22.30 ft
Distance: 24.44 ft
Sta. 5+00 ℄ Olive Avenue
Sta. 229+20.33 ℄ Freeway
℄ Olive Avenue N 89° 51' 25" E
Distance: 23.95 ft
Distance: 66.41 ft
Distance: 29.02 ft
Distance: 91.10 ft
B-5
B-3
B-4
B-2
B-1

AS BUILT
CORRECTIONS BY D.P. Carlson
DATE 12/1/55

BM at 30.9 RR Spike in PP 150'± ℄ Survey on N side of ℄ Olive Ave PP 150'± W of 5th Olive Ave & Elm Ave. Elev 295.22

23' Lt. of Olive Ave Sta. 4+23
23' Rt. of Olive Ave Sta. 4+35
22' Lt. of Olive Ave. Sta. 4+93
30' Rt. of Olive Ave Sta 5+80
23' Lt. of Olive Ave Sta 5+96

300 290 280 270 260 250 240 230

El. 291 ± — Very hard driving — 9-17-53
El. 291 ± — Very hard driving — 9-17-53
El. 292 ± — Very hard driving — 9-17-53
Existing ground line
El. 293 ± — Very hard driving — 9-17-53
El. 293 ± — Very hard driving — 9-17-53

Loose brown sand
Very dense brown cemented sand
Loose brown medium & coarse silty sand
Slightly compact grey medium & coarse sand
Dense grey well packed silty sand
Dense buff partially cemented silt with lenses of dense sand

Note: No ground water was encountered in any of these borings.

5 5' 6

Classification of Material Based on Standard Grade Size Limits

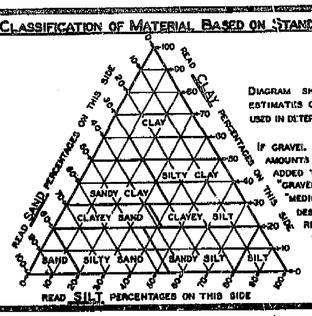


Diagram showing the basis for estimating of grade size distribution used in determination of class named

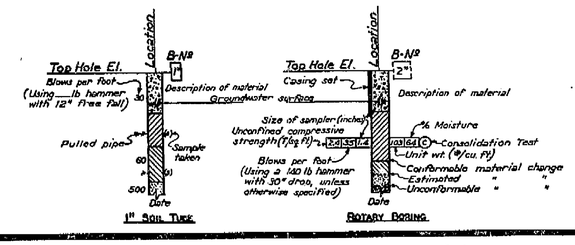
If gravel is present in appreciable amounts the term "gravelly" may be added to the class name, viz. "gravelly sand". The terms "coarse", "medium" and "fine" when used to describe gravel, sand and silt refer to standard grade size limits.

Legend of Earth Materials

- Gravel
- Sand
- Silt
- Clay
- Sandy Clay or Clayey Sand
- Sandy Silt or Silty Sand
- Silty Clay or Clayey Silt
- Peat and/or Organic Clay
- Filled Material
- Igneous Rock
- Sedimentary Rock
- Metamorphic Rock

Legend of Boring Operations

- Plan of any boring
- Penetrometer
- 2½" Cone penetrometer
- Sampler boring (dry)
- Rotary boring (wet)
- Auger boring (dry)
- Jet boring
- Core boring
- Test pit



Notes

The contractor's attention is directed to Section 2, Article (c) of the Standard Specifications and to the special provisions accompanying this set of plans. Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

Penetrometer borings having a rate of penetration measured in seconds per foot are driven with a № 2 McKiernan-Terry air hammer at 115 PSI.

State of California
Department of Public Works
Division of Highways

Olive Avenue Overcrossing

Log of Test Borings

SCALE: 1" = 10'	BRIDGE 42-187	FILE	DRAWING C-3470-8

PREL. DRAWING NO. P-3470 8

AS BUILT PLANS
Contract No. 55-6TC4
Date Completed
Document No. 60000992

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 1-30-80 SIGNATURE Joseph M Cash TITLE SUPERVISOR OF MICROFILM SERVICES

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UI-0194(1)

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.			100	157

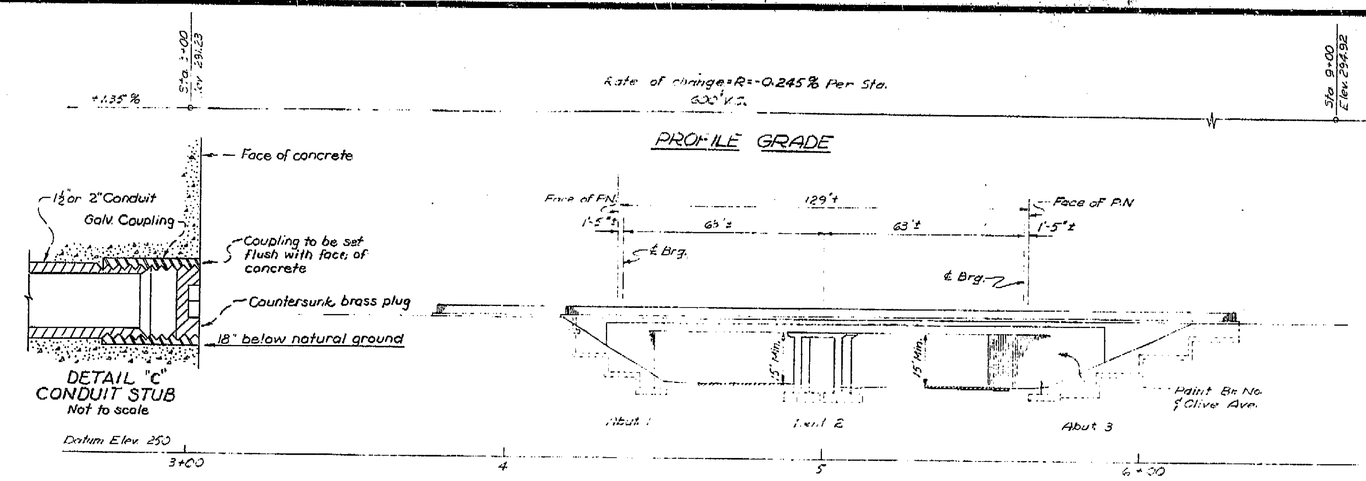
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre			16	45

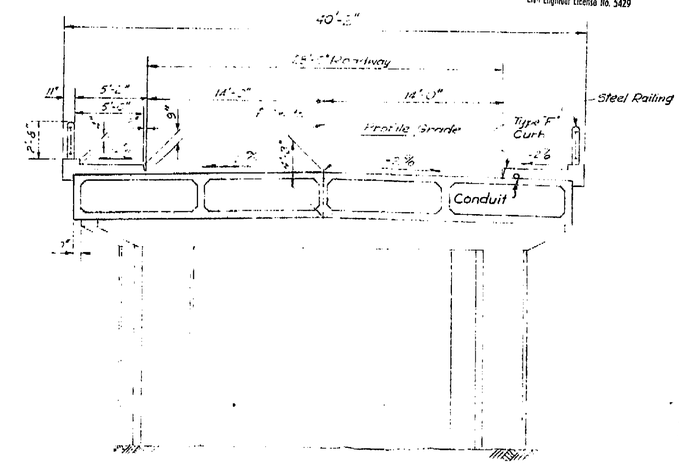
E. T. Scott
District Engineer

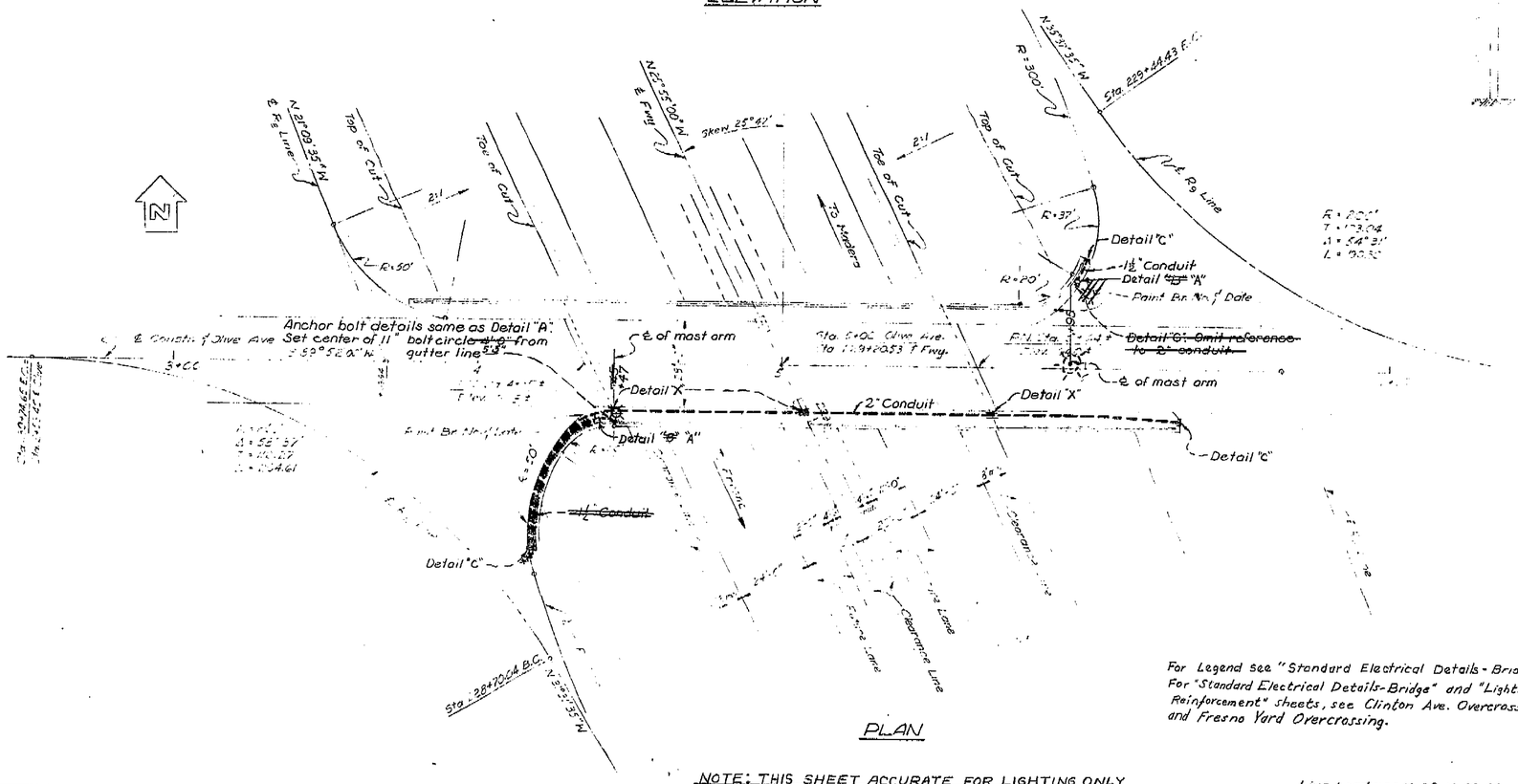
DATE APPROVED: April 26, 1954

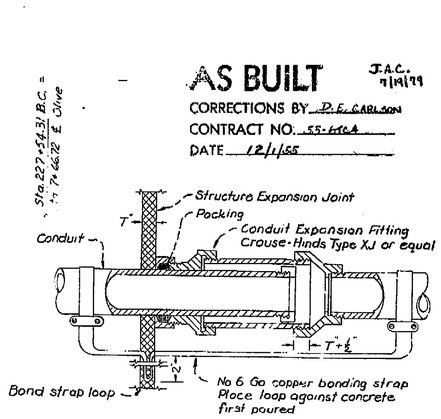
Traffic Engineer
Civil Engineer License No. 5429

BRIDGE DEPARTMENT









Submitted by		Old Dates	
DESIGN	By	Dec. 1955	Glover
DETAILS	By		Crosby
QUANTITIES	By		Crosby
SPECIFICATIONS	By		Joint with Bridge Dept.
Approx. Recommended by: C. E. Engineer			Dec. 1955

NOTE: THIS SHEET ACCURATE FOR LIGHTING ONLY

For Legend see "Standard Electrical Details - Bridge" For "Standard Electrical Details-Bridge" and "Lighting Reinforcement" sheets, see Clinton Ave. Overcrossing and Fresno Yard Overcrossing.

Live Loading = H-20-S-16-44

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

OLIVE AVENUE OVERCROSSING
LOCATED NEAR NORTH CITY LIMIT OF FRESNO ON NEW ALIGNMENT OF ROAD

LIGHTING PLAN

SCALE	BRIDGE	FILE	DRAWING
Except as noted 1"=20'	42-187		3470

REL. DRAWING NO. P. 3470 | R | 25

AS BUILT PLANS
Contract No. 55-646464
Date Completed 12-1-55

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.
DATE 1-30-59 SIGNATURE Joseph M Carter TITLE SUPERVISOR OF MICROFILM SERVICES

ClibPDF - www.fastio.com

UI-0194(1)

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2	CAL.			91	167

DIST.	COUNTY	ROUTE	SECT.	SHEET NO.	TOTAL SHEETS
VI	Fre			6	15

5585

September 1, 1955

State Highway Engineer
Civil Engineer License No 20694

To Accompany Plans Dated April 20, 1955

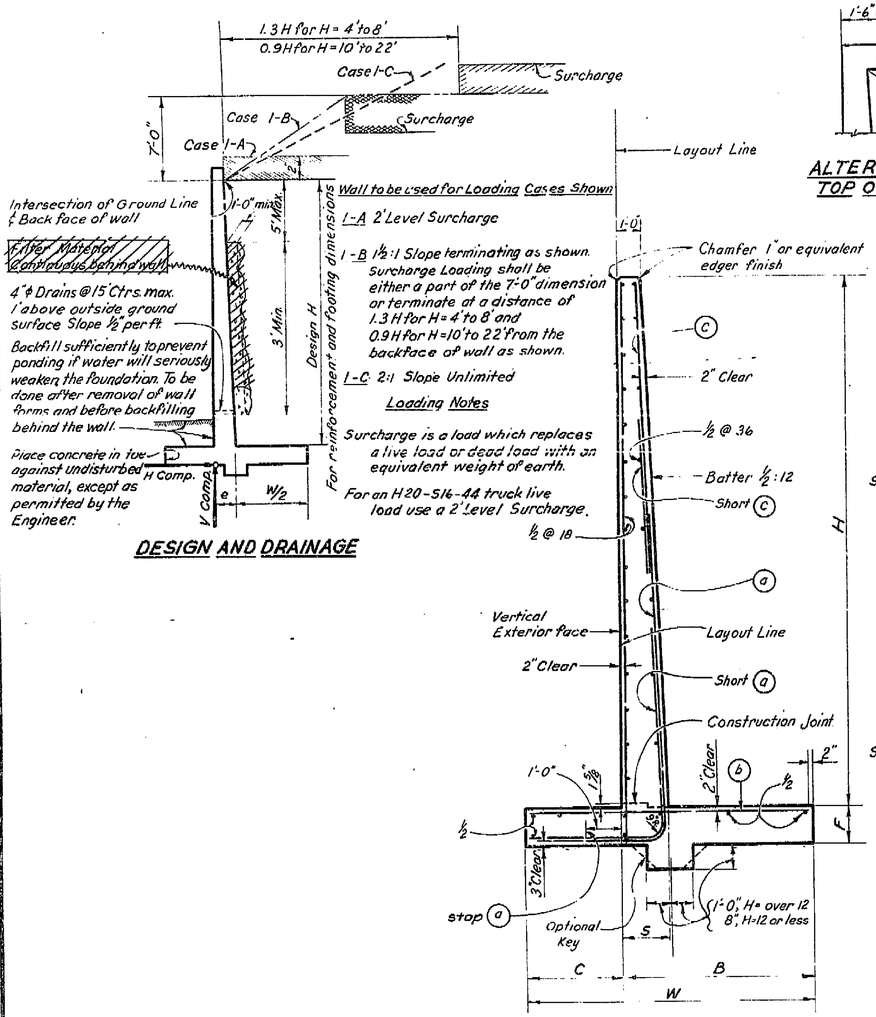
STANDARD DRAWING

Standard Specifications	Dec. 1953	Sheet Piling	Dec. 1953
Bridge Details	Dec. 1953	Timber Piles	Dec. 1953
Falsework for Bridges	Dec. 1953	Prestressed Concrete	Dec. 1953
Bridge Railings	Dec. 1953	Log Cribbing	Dec. 1953
Miscellaneous Iron & Steel	Dec. 1953	Reinforcing Steel	Dec. 1953

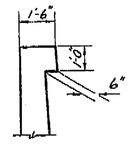
DESIGN 7 — BRIDGE DEPARTMENT

Checked by [illegible] Dec. 1954
Detailed by [illegible] Dec. 1954
Traced by [illegible] Dec. 1954
Quantities by [illegible] Dec. 1954
Approved [illegible] Dec. 1954

Joseph Jacobsen
Designed by [illegible] Dec. 1954
Checked by [illegible] Dec. 1954

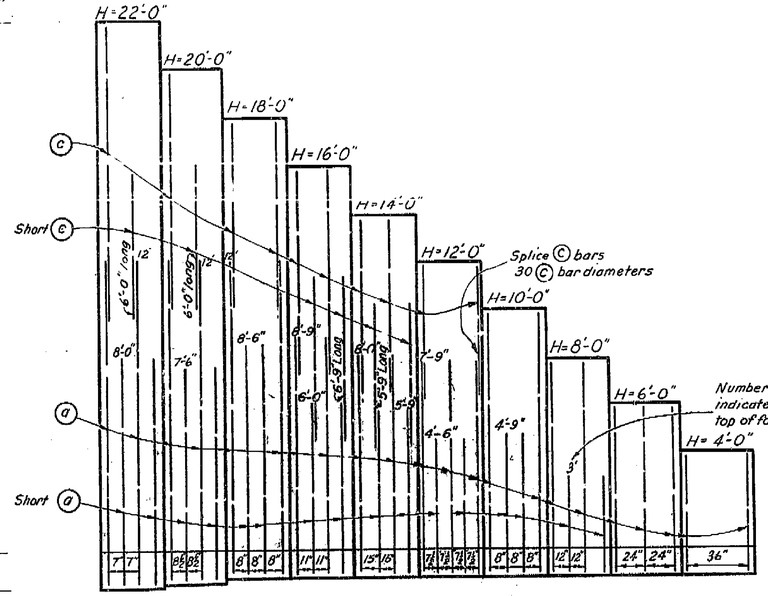


DESIGN AND DRAINAGE



ALTERNATIVE TOP OF WALL

SECTION


H=22'-0"
H=20'-0"
H=18'-0"
H=16'-0"
H=14'-0"
H=12'-0"
H=10'-0"
H=8'-0"
H=6'-0"
H=4'-0"
C
Short E
Short a
Splice C bars 30 C bar diameters
Number beside a bars indicates distance from top of footing to upper end of a bar
8'-0"
7'-6"
6'-6"
6'-9"
6'-9" Long
6'-0"
5'-9" Long
5'-0"
4'-6"
4'-9"
3'
1'-9"
1'
1'
1'

VI-0194 (1)

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.			90	167

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	~~[illegible]~~		5	15

BRIDGE ENGINEER — CIVIL ENGINEER — LICENSE 5683

DATE APPROVED April 24, 1958

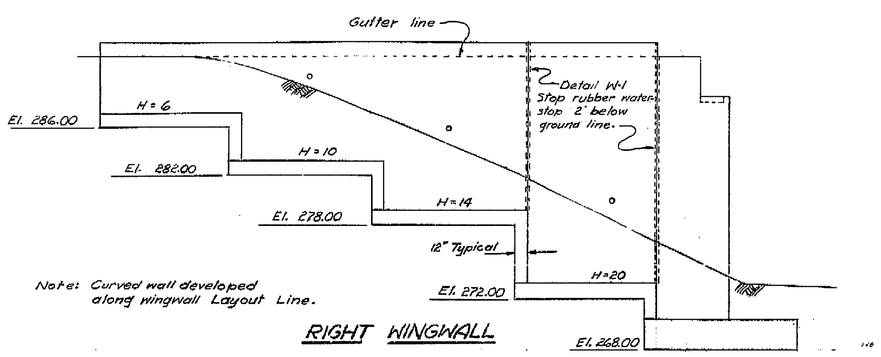
BRIDGE DEPARTMENT

DESIGN 7 SECTION

Submitted by			
DESIGN	by O.J. 12-57	Checked	W.K. 2-58
DETAILS	by D.H. 12-57	Checked	W.K. 2-58
QUANTITIES	by R.C. 2-58	Checked	W.K. 2-58
SPECIFICATIONS	by [illegible]	Checked	[illegible]

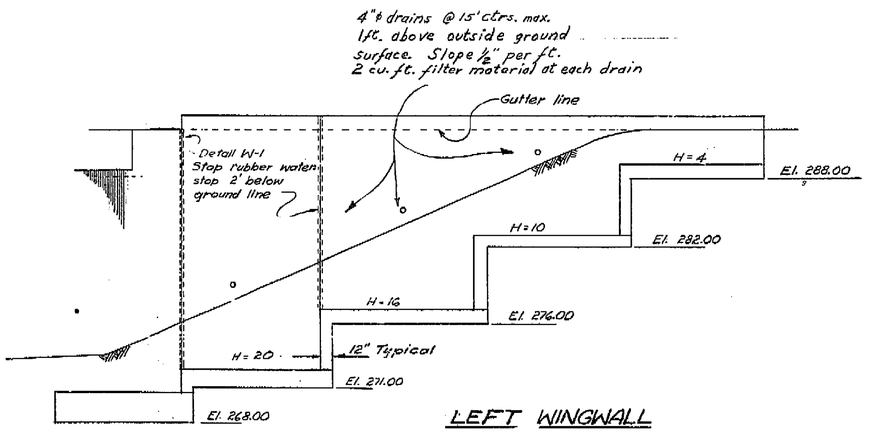
Approved for Accommodation of Utilities [illegible] Dist. Engr. 1656 w. 368

ABUTMENT NO. 1



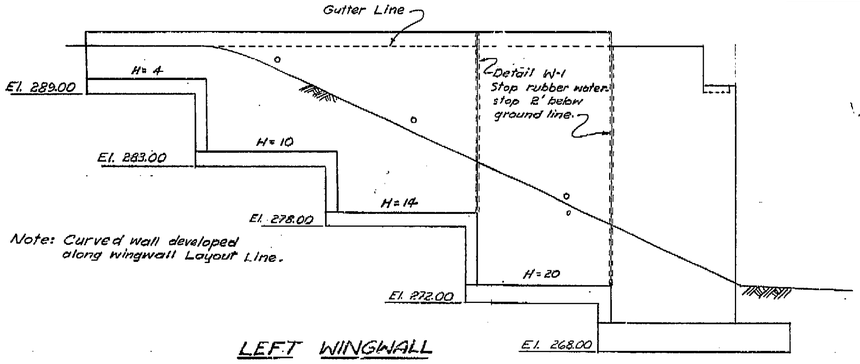
Note: Curved wall developed along wingwall Layout Line.

RIGHT WINGWALL



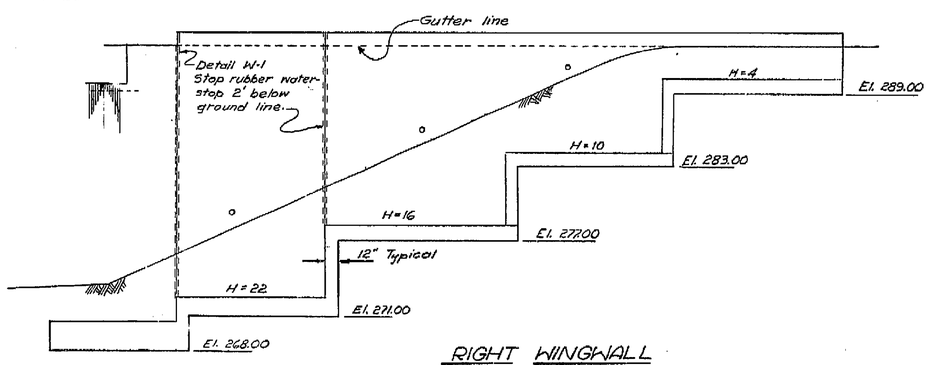
LEFT WINGWALL

ABUTMENT NO. 3



Note: Curved wall developed along wingwall Layout Line.

LEFT WINGWALL



RIGHT WINGWALL

NO AS BUILT CHANGES
AS BUILT J.A.C. 7/18/79
CORRECTIONS BY D.E. CARLSON
CONTRACT NO. 55-61764
DATE 12/1/65

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

OLIVE AVENUE OVERCROSSING

WINGWALL ELEVATIONS

SCALE 3/16" = 1'-0" | BRIDGE 42-187 | FILE | DRAWING C-3470-B25.

PREL. DRAWING NO. P-3470 Rev

ClibPDF - www.fastio.com

UI-0194(1)

REG. FOR DIST. NO.	STATE	B.C. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2	CAL.			35	185

DIST.	County	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre				

April 26, 1954

STANDARD DWG

	Initial	Date
Design		
Detail	R.A.	10-53
Check		
Quant.		
Check		

Supervised

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS
BRIDGE DEPARTMENT

DESIGN 7 SECTION

Submitted by	R. W. Ard	2-1953	Checked	Ruff	3-1953
Details	D. Reed	11-53	Checked	Ulf Ard	2-1953
Quantities	D. Cox	2-54	Checked		
Structure Approved			Recommended		

ABUTMENT BACKWALL
DETAIL U1

Wall Reinf. for size and spacing see Abutment details

END DIAPHRAGM
DETAIL U2

BENT CAP
DETAIL U3

INTERMEDIATE DIAPHRAGM
DETAIL U4

INTERMEDIATE DIAPHRAGM SECTION
DETAIL D1

VENT
DETAIL V1

UTILITY OPENINGS

TRANSVERSE SLAB BRIDGE
DETAIL J1

DETAIL J-20 DETAIL J-21 DETAIL J-22

TRANSVERSE GIRDER
DETAIL J-3

SECTION A-A

PART SECTION INTERIOR GIRDER

LONGITUDINAL DECK SLAB

PART SECTION EXTERIOR GIRDER WITH SLAB CANTILEVER

PART SECTION EXTERIOR GIRDER WITH CURB

KEY - GIRDER STEM TO SLAB
DETAIL J-5

CONSTRUCTION JOINTS

BENT CAP DIAPHRAGMS
LONGITUDINAL
DETAIL J-4

CURB
DETAIL C1

SIDEWALK
DETAIL S1

CURB AND SIDEWALK EXPANSION JOINTS

NOTE: In simple spans place joint at midspan. In continuous spans place joint over interior piers or bents and at midspans.

RUBBER WATERSTOP LATEX AT EXPANSION JOINT
DETAIL L1

RUBBER WATERSTOP
DETAIL W1

DETAIL M-1

AS BUILT
CORRECTIONS BY D.E. CARLSON
CONTRACT NO. 55-6TC4
DATE 12/1/55

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

OLIVE AVENUE OVERCROSSING

STANDARD DETAILS

SCALE None	BRIDGE 42-187	XS-16-22	DRAWING 3470-M

PREL. DRAWING NO. P-3470 M6

AS BUILT PLANS
Contract No. 55-6TC4
Date Completed
Document No. 60000992

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 1-30-80 SIGNATURE Joseph M Cota TITLE SUPERVISOR OF MICROFILM SERVICES

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VI-0194(1)

FED. ROAD DIV. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.			32	167

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre			7	15

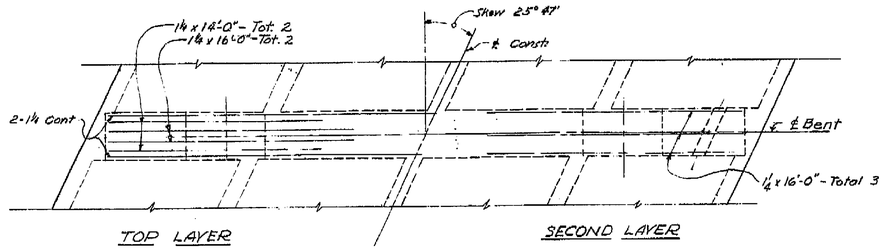
DATE APPROVED April 26, 1954

BRIDGE DEPARTMENT

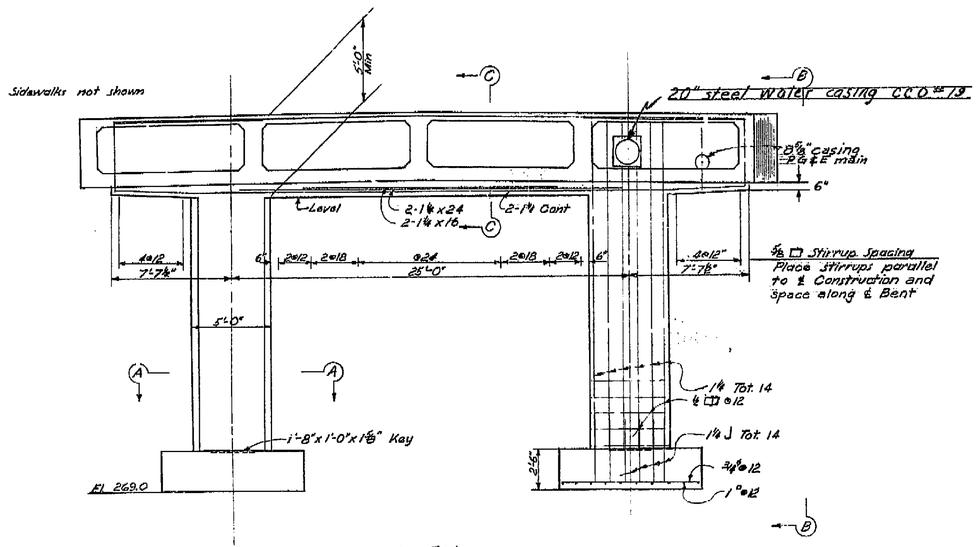
DESIGN 7 SECTION

Shielded by	Cost Center			
DESIGN	By MRM	Checked H.K. 2-54		
DETAILS	By DEC	Checked H.K. 4-54		
QUANTITIES	By DEC	Checked D.G.A. 2-54		
SPECIFICATIONS	By	Checked		

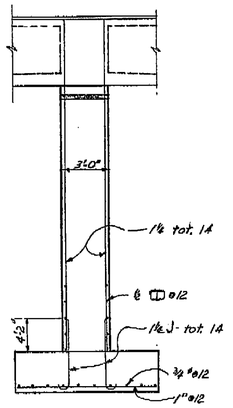
Agency Recommended by [illegible] Date [illegible] Bridge No. 55C-9-36.0



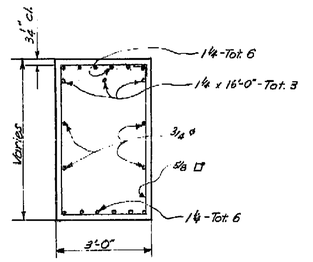
PLAN OF CAP



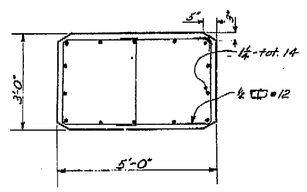
ELEVATION



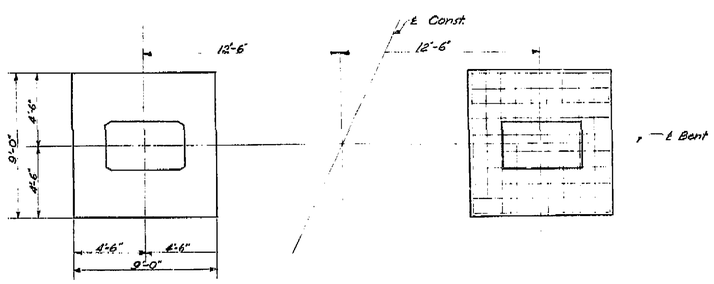
VIEW B-B



SECTION C-C
Scale: ½" = 1'-0"



SECTION A-A
Scale: ½" = 1'-0"



FOUNDATION PLAN

AS BUILT J.A.C. 7/18/79
CORRECTIONS BY D.E. CARLSON
CONTRACT NO. 55-6104
DATE 12/1/55

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

OLIVE AVENUE OVERCROSSING

BENT No. 2

Except as shown SCALE ½" = 1'-0" | BRIDGE 42-187 | FILE | DRAWING C-3470-#7

PREL. DRAWING NO. P-3470

AS BUILT PLANS
Contract No. 55-6104
Date Completed
Document No. [illegible]

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THE DATE IN SAID NOTED, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.
DATE 1-31-80 SIGNED [illegible] TITLE SUPERVISOR OF MICROFILM SERVICES

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VI-0194 (1)

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.			89	167

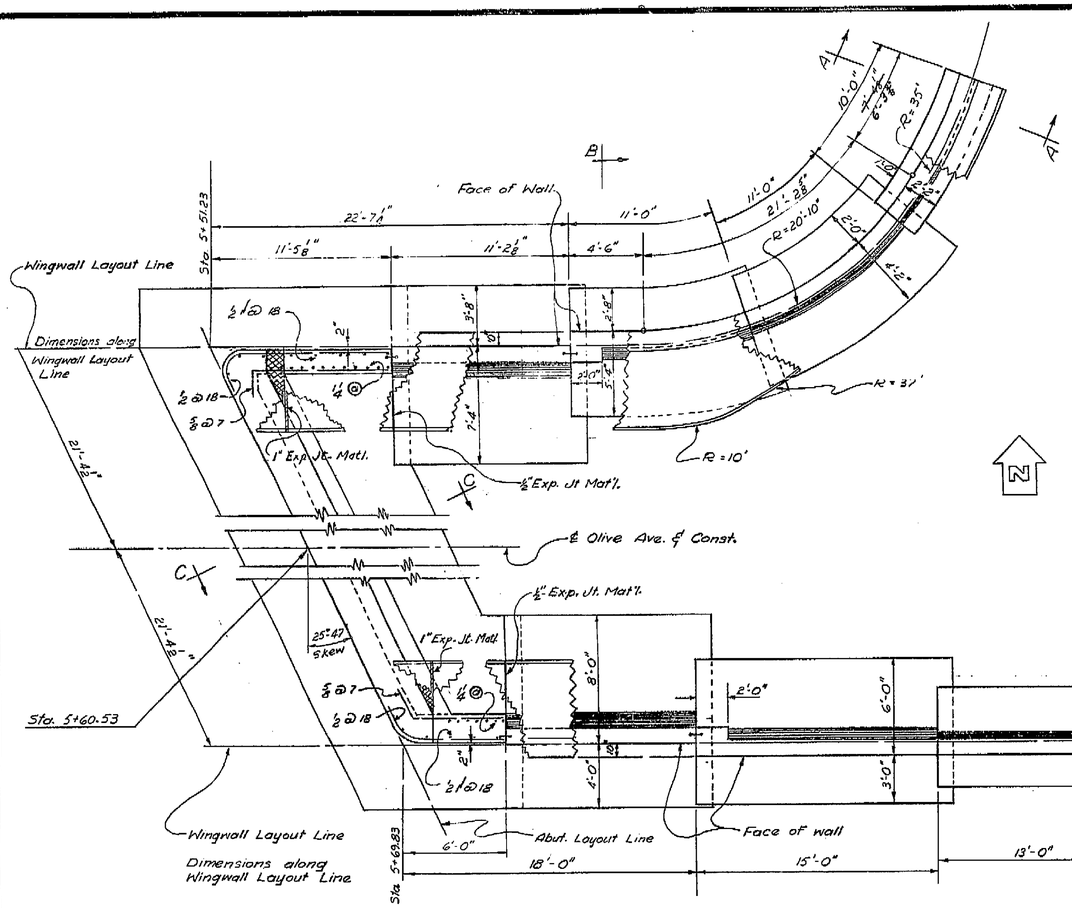
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre			4	16

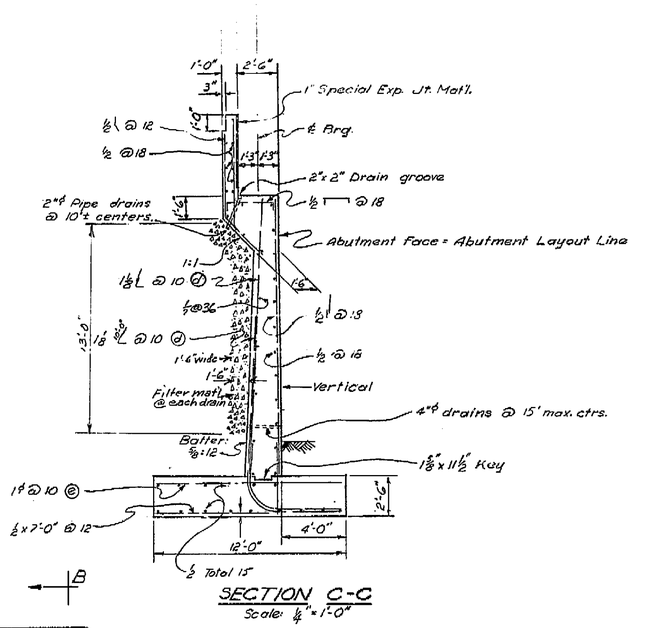
BRIDGE ENGINEER — CIVIL and STRUCTURAL ENGINEER—LICENSE No. 5205

DATE APPROVED April 26, 1954

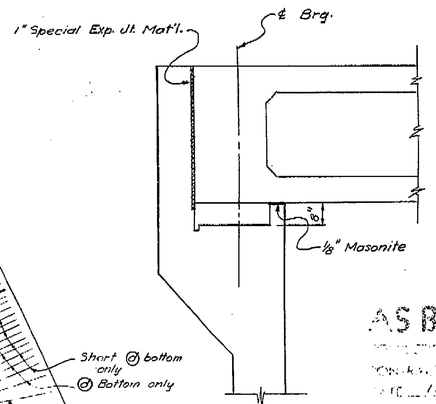
BRIDGE DEPARTMENT

DESIGN 7 SECTION





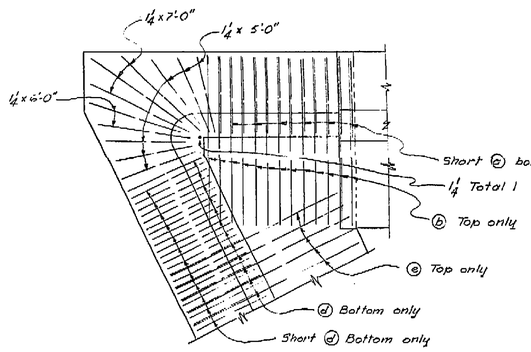
SECTION C-C
Scale: ¼"=1'-0"



SECTION D-D
Scale: ½"=1'-0"

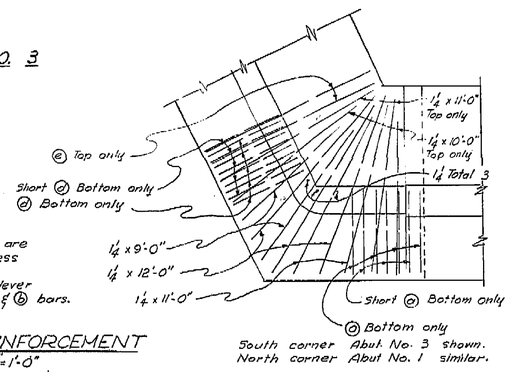
AS BUILT
J.A.C. 7-12-79
D.E. CARLSON
55-6TC4
12-1-55

PLAN
ABUTMENT NO. 3
Scale: ¼"=1'-0"



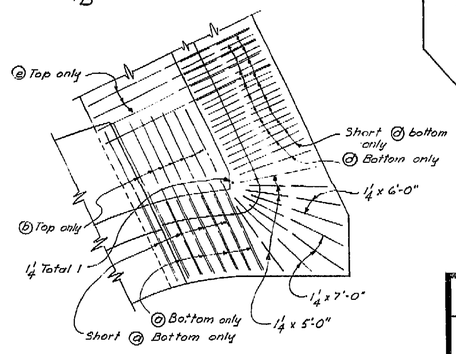
North corner Abut. No. 3

Notes:
All 1¼ reinforcement are top and bottom unless otherwise noted.
See Type 7 Cantilever Retaining Wall for ⓒ & ⓑ bars.



FOOTING REINFORCEMENT
Scale: ¼"=1'-0"

South corner Abut. No. 3 shown.
North corner Abut No. 1 similar.



South corner Abut. No. 1 shown.

Submitted for	By	Date	Checked	Date
DESIGN	R. C. J.	12-54	Checked	1-2-54
DETAILS	R. C. J.	12-53	Checked	1-2-54
QUANTITIES	R. E.	1-54	Checked	2-5-54
SPECIFICATIONS	R.		Checked	
Approved Zoomboards			Engineer of Design	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

OLIVE AVENUE OVERCROSSING

ABUTMENT NO. 3

SCALE As shown | BRIDGE 42-187 | FILE | DRAWING C-3470-314

PREL. DRAWING NO. P-3470

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UI-0194 (1)

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	~~5~~ 180		3	15

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.			88	167

BRIDGE ENGINEER — CIVIL AND STRUCTURAL ENGINEER — LICENSE 15128

DATE APPROVED April 26, 1954

BRIDGE DEPARTMENT

DESIGN 7 SECTION

Submitted by		Checked by	
DESIGN	By D.J.L. Date 12-53	Date	By H.K. 3/54
DETAILS	By D.J.L. Date 12-53	Date	By H.K. 3/54
QUANTITIES	By F.E.C. Date 3-54	Date	By H.K. 3/54
STRUCTURE DESIGN	By Date	Date	By Date

Approved Recommended for approval

Bridge Engineer

Dist. Bridge Engineer

Head of Office

Plans Submitted to Dist. Engineer 5-5-54 Approved 5-26-54

Plans Submitted to Bridge Engineer 5-5-54 Approved 5-26-54

Quantities 2,534

Design Data: Live Load H-20-S16 Impact 30% Unit Stress 1,350 psi

Concrete: f'_c = 3,000 psi at 28 days

Reinforcement: Intermediate grade billet steel bars, f_s = 20,000 psi

Soil Pressure: 4,000 psf

Earth Pressure: 30 pcf equivalent fluid

Coefficient of Friction: 0.50

Seismic Coefficient: 0.10

Steel Piles: 12" dia. 0.25" wall, 40 ksi yield point

Pile Capacity: 40 tons

Pile Spacing: 3'-0" c. to c.

Pile Length: 30'-0"

Pile Driving: Drive to refusal

Pile Cut-off: 2'-0" below footing

Pile Reinforcement: 3 - #6 bars, 2'-0" long

Pile Concrete: 3,000 psi at 28 days

Pile Tip Reinforcement: 1/2" plate, 12" dia.

Pile Splice: 1/2" plate, 12" dia.

Pile Shoe: 1/2" plate, 12" dia.

Pile Cap: 1/2" plate, 12" dia.

Pile Cap Reinforcement: 3 - #6 bars, 2'-0" long

Pile Cap Concrete: 3,000 psi at 28 days

Pile Cap Thickness: 1'-0"

Pile Cap Width: 2'-0"

Pile Cap Length: 3'-0"

Pile Cap Spacing: 3'-0" c. to c.

Pile Cap Number: 3

Pile Cap Total: 9

Pile Cap Weight: 2,534 lbs

Pile Cap Volume: 2,534 cu. ft.

Pile Cap Area: 2,534 sq. ft.

Pile Cap Perimeter: 2,534 ft.

Pile Cap Diameter: 2,534 ft.

Pile Cap Radius: 2,534 ft.

Pile Cap Height: 2,534 ft.

Pile Cap Depth: 2,534 ft.

Pile Cap Width: 2,534 ft.

Pile Cap Length: 2,534 ft.

Pile Cap Thickness: 2,534 ft.

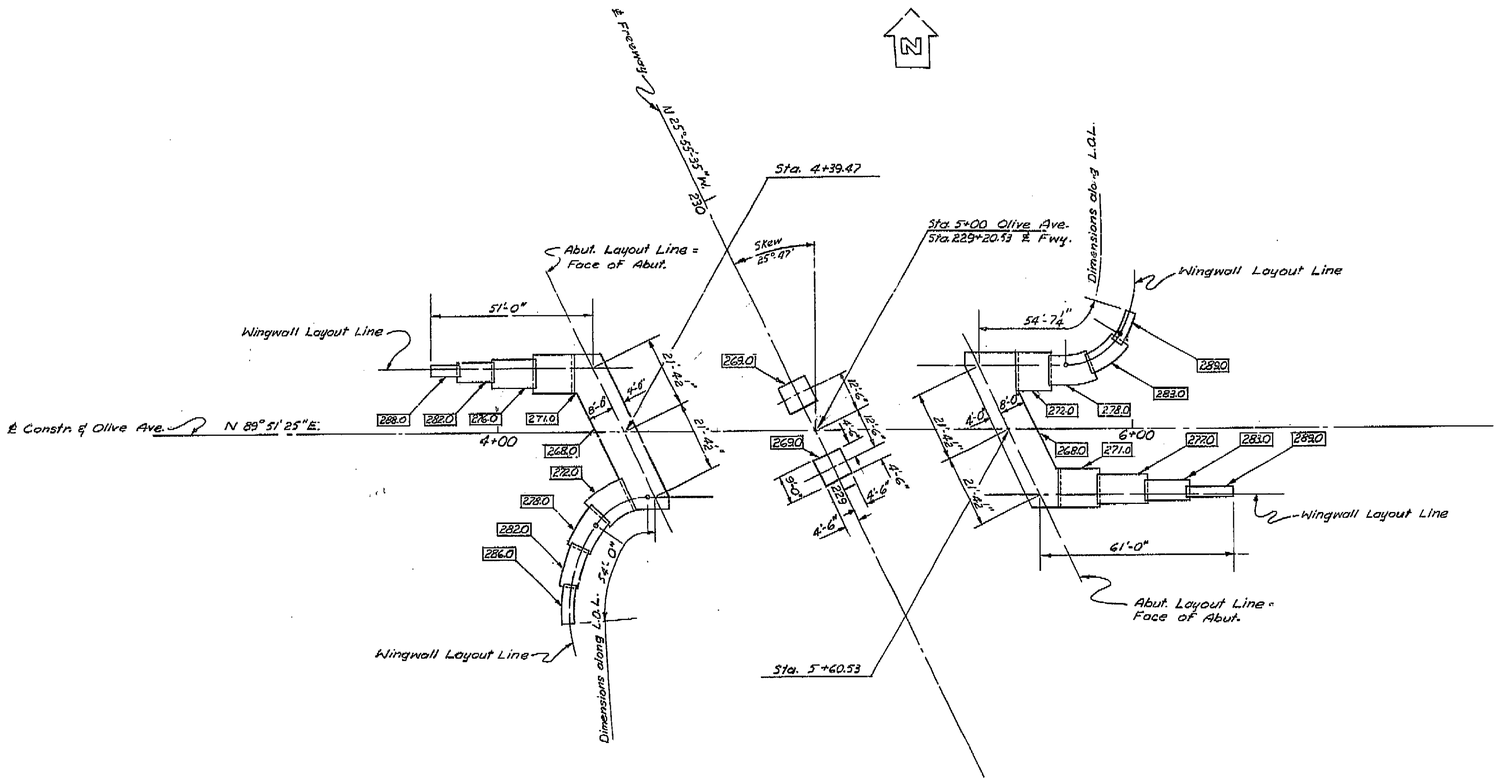
UI-0194(1)

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.			67	167

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	[illegible]	[illegible]	2	16

[illegible] ENGINEER — CIVIL ENGINEERING REGISTER — LICENSE NUMBER 5986

DATE APPROVED April 26, 1938



Bench Mark no.

760 ± Rt. Sta. 229+55 ± ℄ Fwy

Top of outfall box.

Elev. 293.22

~~Bench Mark No. 309~~

~~R.R. Spike in P.P. 160' E. ℄ Survey on N. side of West Olive Ave. P.P. 100' W. of Int. of Olive Ave. and Ho Ave. Elev. 295.29 City of Fresno Datum~~

Notes:
Bottom of footing elevations shown thus: 000
All bents and abutments parallel.
For detailed abutment layout see sheets "Abut. No. 1" and "Abut. No. 3".

AS BUILT
CORRECTIONS BY D.E. CARLSON
CONTRACT NO. 55-47C4
DATE 11/30/55

J.A.C. 7/7/79

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

OLIVE AVENUE OVERCROSSING

FOUNDATION PLAN

SCALE: 1"=20' | BRIDGE 42-127 | FILE | DRAWING 8-3470-Sh 2

PREL. DRAWING NO. P-3470

BRIDGE DEPARTMENT

DESIGN 7 SECTION

Submitted for				
DESIGN	By	D.J.F. 12-31	Checked AHK 3/54	
DETAILS	By	D.J.F. 2-33	Checked AHK 3/54	
QUANTITIES	By	A.L.L. 3-34	Checked AHK 3-54	2-34
SPECIFICATIONS	By		Checked	
Approved Recommended for	Bridge Engineer		Bridge Engineer	1556 Y 3462

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UI-0194(1)

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.			93	167

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre			8	15

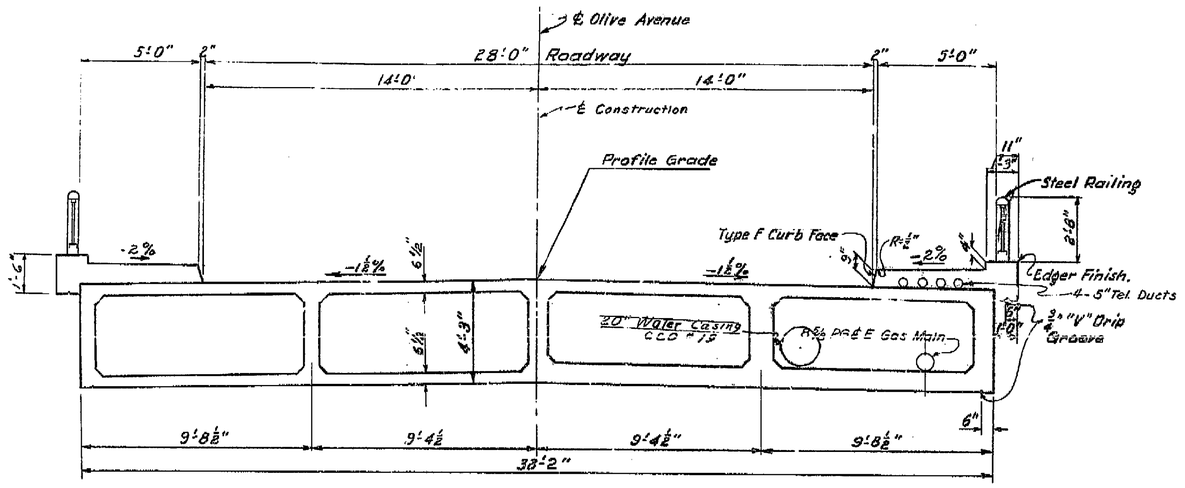
BRIDGE ENGINEER — CIVIL AND STRUCTURAL ENGINEER — LICENSE 5580

DATE APPROVED April 26, 1954

BRIDGE DEPARTMENT

DESIGN 7 SECTION

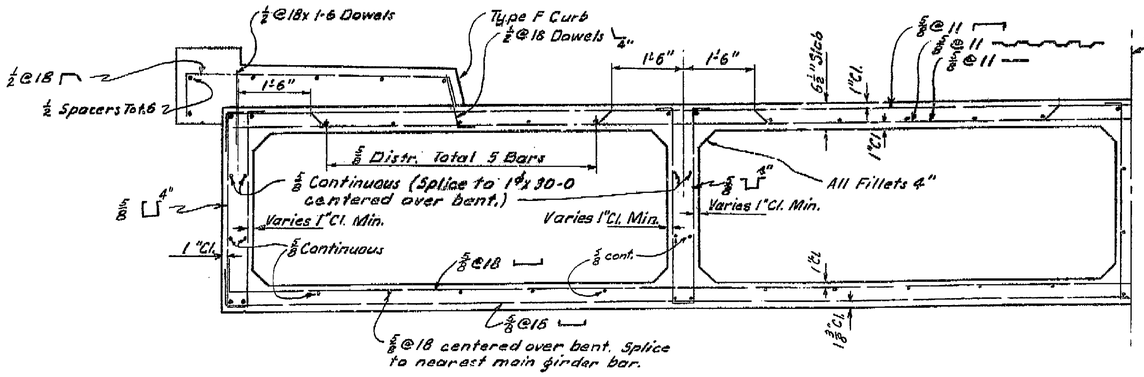
Submitted for Approval			
DESIGN	1-2 WRM 2-54	Check	WR 2-54
DETAILS	1-2 DCD 11-53	Check	WR 2-54
QUANTITIES	1-2 CEC 1-54	Check	DCD 2-54
SPECIFICATIONS		Check	
Approved Exceptions Req'd	Design Data: Live Load HS20-S16-44; Unit Stresses: f_s = 20,000 P.S.I., f_c = 1250 P.S.I., n = 10; Footing Pressure: 4 T.S.F.		



HALF SECTION NEAR MIDSPAN HALF SECTION NEAR BENT

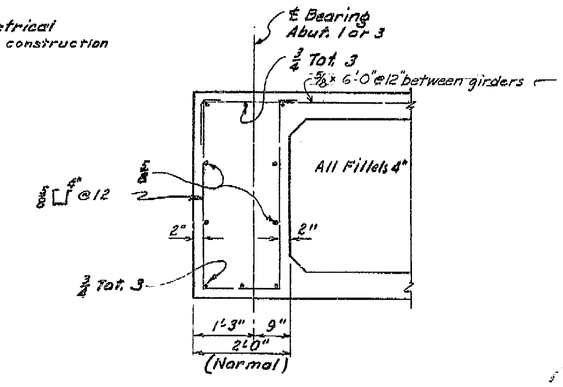
TYPICAL SECTION

⅜" = 1'0"



PART SECTION

¾" = 1'0"



END DIAPHRAGM

¾" = 1'0"

Note: All reinforcement not shown see "GIRDER REINFORCEMENT" sheet

GENERAL NOTES

SPECIFICATIONS:

DESIGN: A.A.S.H.O. DATED 1953 WITH SUBSEQUENT REVISIONS, AND BRIDGE DEPARTMENT SUPPLEMENT DATED 1953.

CONSTRUCTION: STANDARD SPECIFICATIONS, DIVISION OF HIGHWAYS, DATED JANUARY 1949 A'D THE SPECIAL PROVISIONS.

LIVE LOADING: H20-S16-44

UNIT STRESSES:

REINFORCED CONCRETE: F_s = 20,000 P.S.I., F_c = 1250 P.S.I., N = 10

FOOTING PRESSURE: 4 TONS P.S.F.

REINFORCEMENT: EMBEDMENT IS CLEAR TO OUTSIDE OF BAR AND IS 2" TO MAIN REINFORCEMENT, EXCEPT AS NOTED. BACKING FOR HOOKS IS FOUR DIAMETERS, EXCEPT AS NOTED.

BAR AREAS ARE BASED ON ROUNDS FOR LESS THAN 1" AND SQUARES FOR OVER 1".

WHERE REINFORCING BARS ARE SPLICED THEY SHALL HAVE A 20 DIAMETER LAP UNLESS OTHERWISE CALLED FOR ON THE PLANS.

AS BUILT J.A.C. 7/19/79

CORRECTIONS BY D.E. CARLSON

CONTRACT NO. 55-67C4

DATE 12/1/55

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

OLIVE AVENUE OVERCROSSING

TYPICAL SECTIONS

SCALE As Noted	BRIDGE 42-187	FILE	DRAWING C-3470-B 8

PRELIM. DRAWING NO. P-3470 B

AS BUILT PLANS
Contract No. 55-67C4
Dist. 6

I HEREBY CERTIFY THAT THIS IS A TRUE AND CORRECT COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.
SUPERVISOR OF

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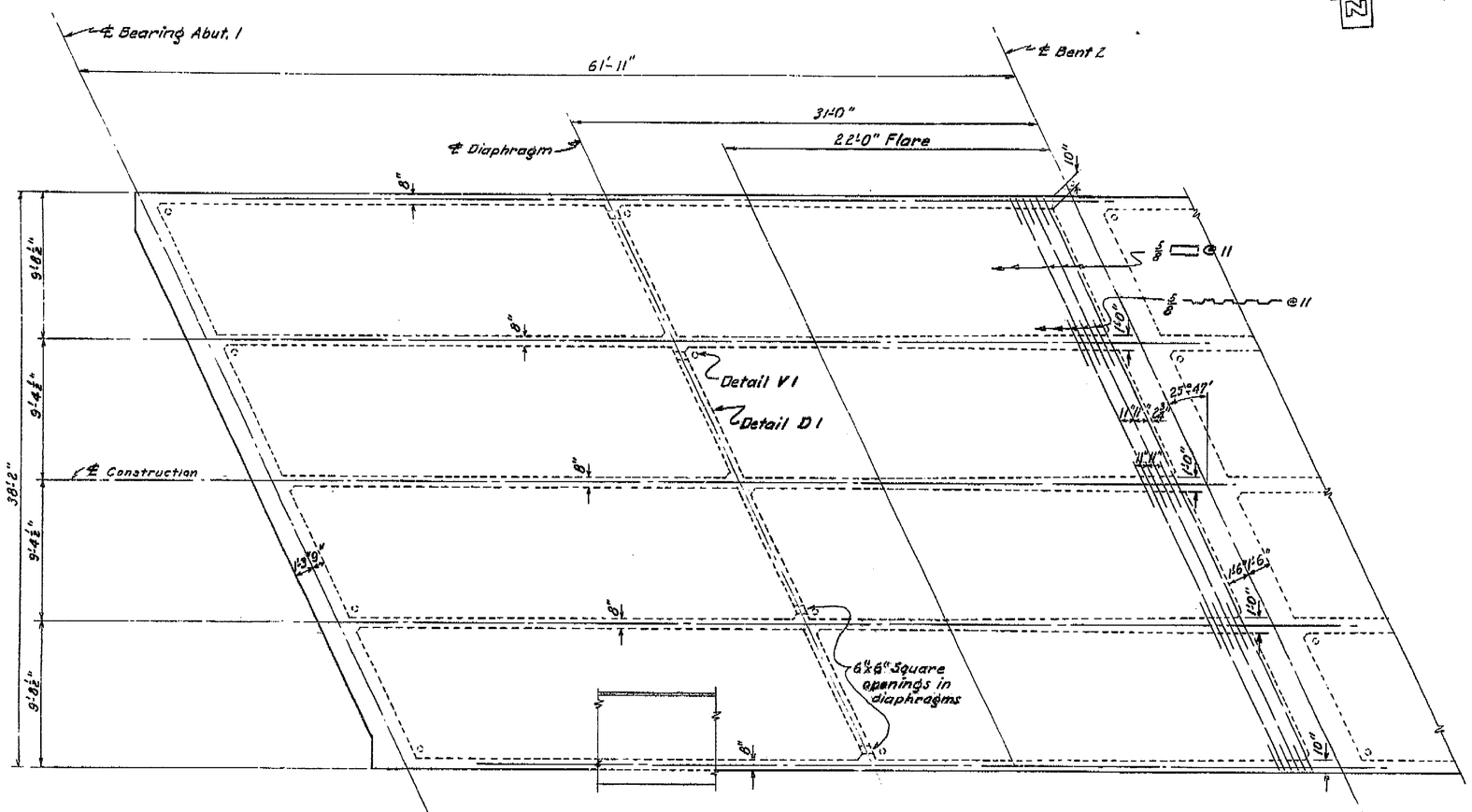
UI-0194 (1)

FED. ROAD DIV. No.	STATE	PROJ. No.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.			94	167

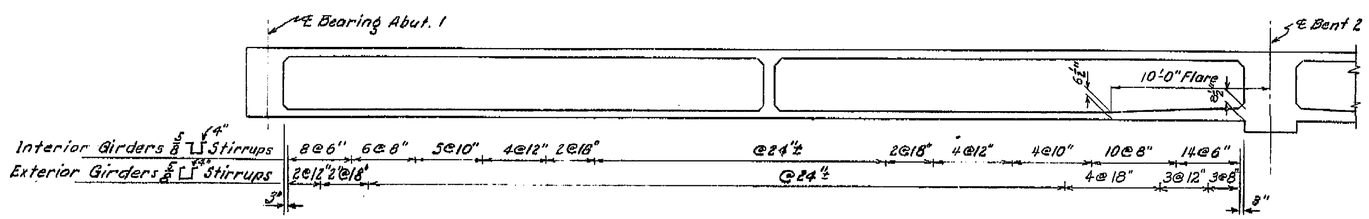
DIST.	COUNTY	ROUTE	SECTION	WHEAT NO.	TOTAL SHEETS
VI	Fre			9	15

BRIDGE ENGINEER — CIVIL ENGINEER — LICENSE 8503

DATE APPROVED April 26, 1954



PART PLAN



PART LONGITUDINAL SECTION

Note:
For Placing Diagram and Curb Details see "Miscellaneous Detail" sheet.
For Expansion Bearing Assembly see North Fresno Undercrossing "Miscellaneous Detail" sheet.

NO AS BUILT CHANGES
AS BUILT J.A.C. 7/19/49
CORRECTIONS BY D. E. CARLSON
CONTRACT NO. 55-617C4
DATE 12/1/55

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

OLIVE AVENUE OVERCROSSING

GIRDER LAYOUT

SCALE ¼"=1'-0" | BRIDGE 42-187 | FILE | DRAWING C-3470-B 9

PREL. DRAWING NO. P-3470 W

DESIGN 7 SECTION

BRIDGE DEPARTMENT

Submitted by	Date	Checked	Date	Approved	Date

ISSUED	By	Date	Checked	Date	Approved	Date
DESIGN	W.C.M.	2-54	H.K.	4-54		
DETAILS	D.C.	2-54	J.G.	4-54		
QUANTITIES	K.C.C.	2-54	Checked		Engineer in Charge	
SPECIFICATIONS	By		Checked		Engineer in Charge	

Approved Recommended by Bridge Engineer — Chief, Bridge Department — Assistant State Engineer

AS BUILT PLANS
Contract No. 55-617C4
Date Completed

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT WHICH WAS PREPARED UNDER MY DIRECTION AND CONTROL OR TO BE ENGINEERED IN CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.
1-30-59 Joseph M. Cota TITLE SUPERVISOR OF DRAFTING SERVICES

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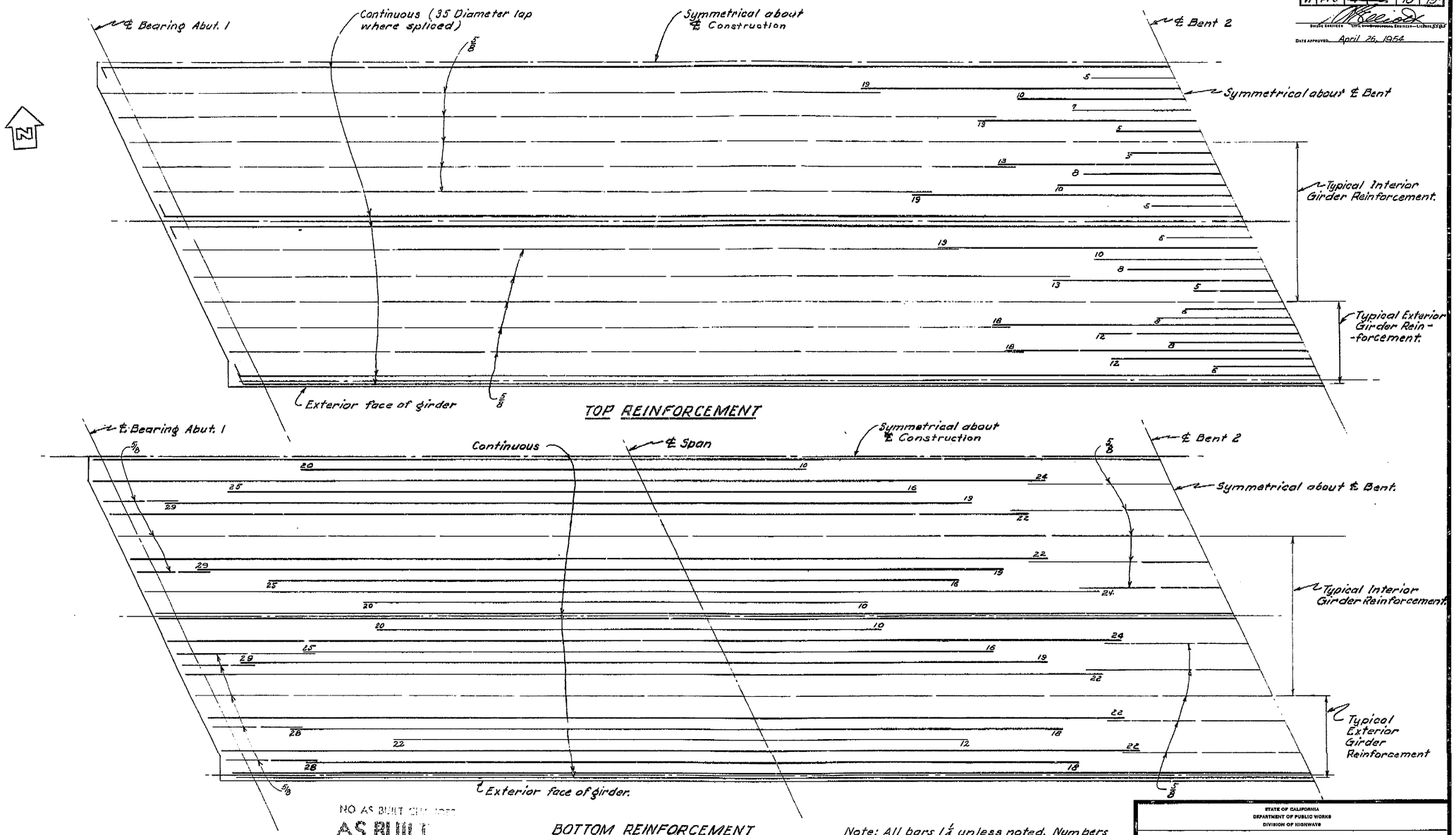
UI-0194(1)

FED. ROAD DIV. No.	STATE	PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
7	CAL.			35	167

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	Fre	[illegible]	C.	10	15

BRIDGE ENGINEER — CIVIL ENGINEER — LICENSE 5168

DATE APPROVED April 26, 1954



NO AS BUILT CHANGES

AS BUILT

JAC 7-18-79

CORRECTIONS BY D.E. CARLSON

CONTRACT NO. 55-6TC4

DATE 12-1-55

Note: All bars 1¼ unless noted. Numbers at ends of bars indicate distances from ℄ Bent or ℄ Span.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

OLIVE AVENUE OVERCROSSING

GIRDER REINFORCEMENT

SCALE	BRIDGE	FILE	DRAWING
3/4"=1'-0"	42-187		C-3470-B 10

PREL. DRAWING NO. P-3470 B

BRIDGE DEPARTMENT

DESIGN 7 SECTION

Submitted for	By	Date	Checked	Checked	Checked
DESIGN	R. WRM	7-55			
DETAILS	R. DGD	11-55			
QUANTITIES	R. CEC	2-56			
SPECIFICATIONS	R.				

Approved Recommended for Approval

Engineer in Charge

CO. ENGINEER — Sig. Lic. No. 5564 — 7-368

Bridge Engineer

AS BUILT PLANS
Contract No. 55-6TC4
Date Completed

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 1-30-80 SIGNATURE [signature] TITLE SUPERVISOR OF MICROFILM SERVICES

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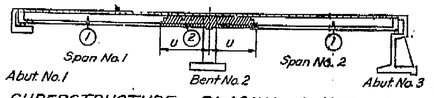
UI-0194(1)

FED. ROAD DIV. No.	STATE	PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
7	CAL.			98	167

DIST.	COUNTY	ROUTE	SECTION	BRIDGE No.	TOTAL PROJECT
VI	Fre	180		73	15F

BRIDGE ENGINEER CIVIL ENGINEER-LICENSE 5585

DATE APPROVED April 26, 1954



SUPERSTRUCTURE PLACING DIAGRAM

No Scale

Note: Numbers ① and ② indicate sequence of placing bottom slab and girder stems.

No. ② concrete may be placed with adjacent No. ① concrete when approved.

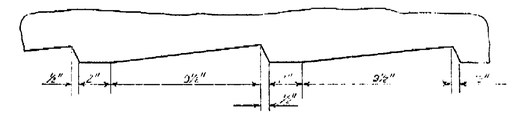
Top slab ③ may be placed separately or with ① and ② except no construction joints in the area "T" or "U".

T = 1/5 Span length

U = 1/4 Span length

Longitudinal construction joints may be used when approved.

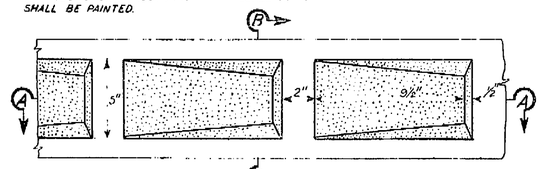
Except as noted, Contractor may submit alternative scheme for Engineer's approval.



SECTION A—A

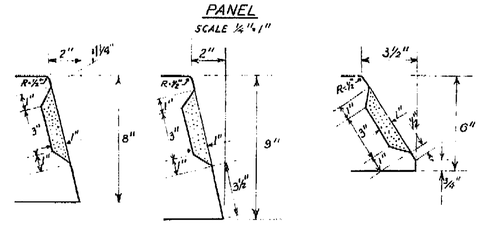
SCALE ¼" = 1"

SURFACES SHOWN THUS [illegible] SHALL BE PAINTED.



PANEL

SCALE ¼" = 1"



SECTION B-B TYPE A

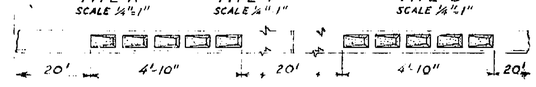
SCALE ¼" = 1"

SECTION B-B TYPE F

SCALE ¼" = 1"

SECTION B-B TYPE B

SCALE ¼" = 1"



SCALE 1" = 2'

DIRECTION OF TRAFFIC FLOW

DIVIDING STRIP AND BRIDGE CURB

NO AS BUILT CHANGES

AS BUILT J.A.C. 7/19/79

CORRECTIONS BY D.E. CARLSON

CONTRACT NO. 55-6TC4

DATE 12/1/55

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

OLIVE AVENUE OVERCROSSING

MISCELLANEOUS DETAILS

SCALE As Noted	BRIDGE 42-187	FILE	DRAWING B-3470-[illegible]13

PREL. DRAWING NO. P-3470 [illegible]

DESIGN 7 SECTION

BRIDGE DEPARTMENT

Submitted by	Checked by	Approved by	Date
DESIGN	b	WEM	1-55
DETAILS	b	ATB	3-54
QUANTITIES	b	CEC	4-54
SPECIFICATIONS	b	CEC	4-54

Approved for Construction [illegible] Engineer

AS BUILT PLANS
Contract No. 55-6TC4
Date Completed
Document No. 60000992

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 1-30-80 SIGNATURE [signature] TITLE SUPERVISOR OF MICROFILM SERVICES

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UI-0194(1)

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.			86	167

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	7	C	1	15

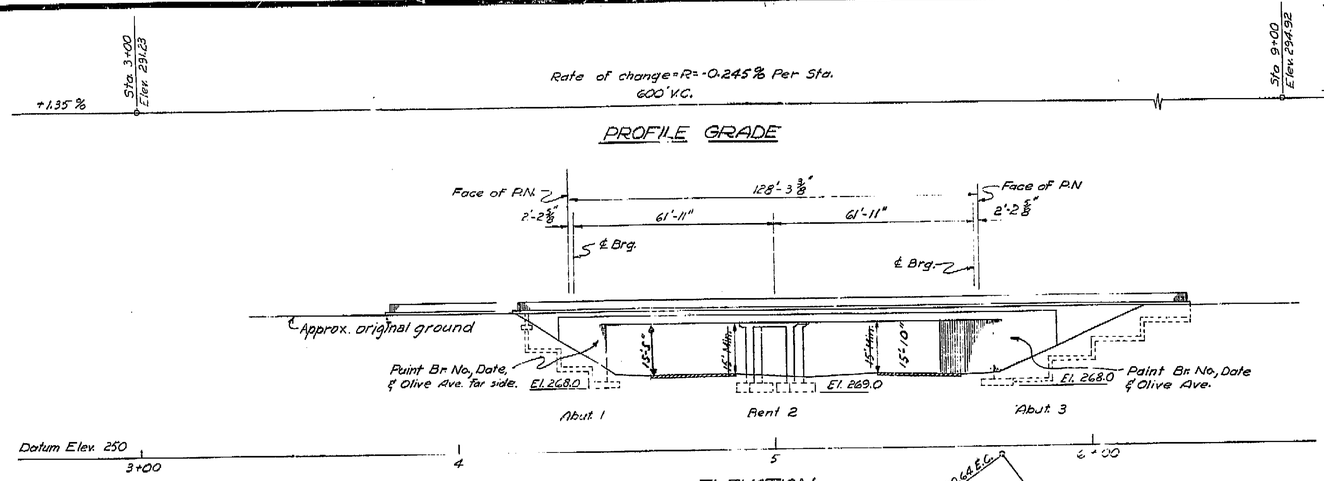
Rte 99
PM 23.3

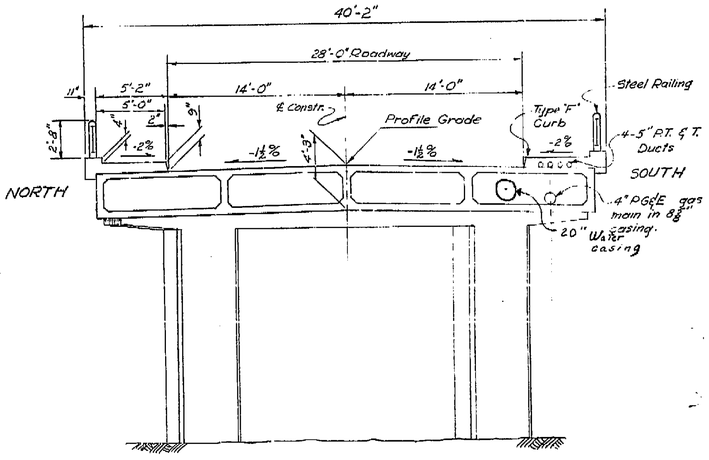
DESIGN ENGINEER — CIVIL AND STRUCTURAL ENGINEER — LICENSE 5496

DATE APPROVED April 26, 1954

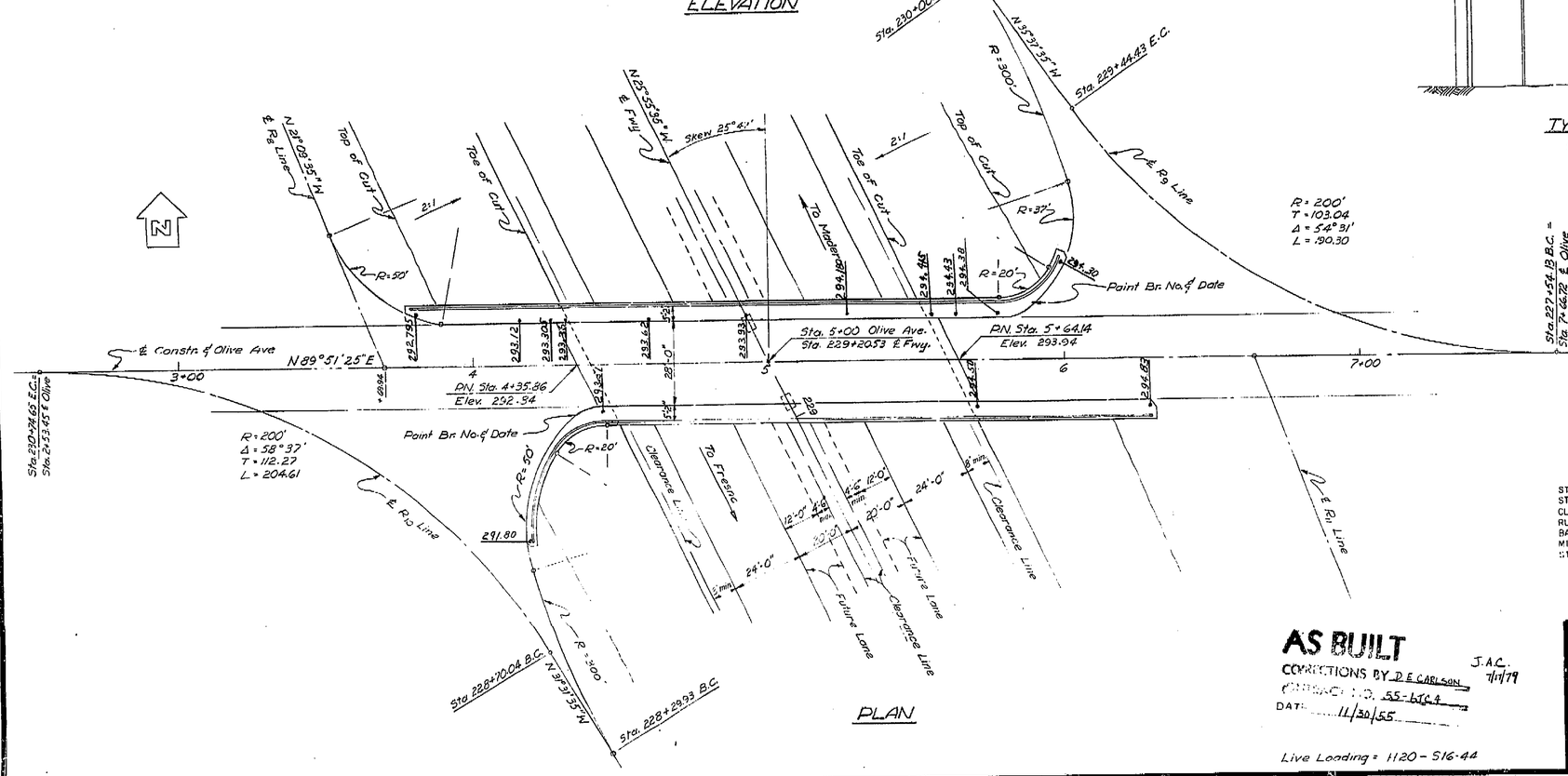
STATE ENGINEER — CIVIL ENGINEER — LICENSE 2006

BRIDGE DEPARTMENT





TYPICAL SECTION
Scale: 1" = 5'-0"



INDEX TO PLANS

Sheet No.	Title
1.	General Plan
2.	Foundation Plan
3.	Abutment No. 1
4.	Abutment No. 3
5.	Wingwall Elevations
6.	Type I Cantilever Retaining Wall
7.	Bent No. 2
8.	Typical Sections
9.	Girder Layout
10.	Girder Reinforcement
11.	Standard Details
12.	Steel Railing
13.	Miscellaneous Details
14.	Log of Test Borings
15.	Lighting Plan

APPROXIMATE QUANTITIES

STRUCTURE EXCAVATION	920 C.Y.
STRUCTURE BACKFILL	1,140 C.Y.
CLASS "A" P.C.C.	940 C.Y.
RUBBER WATERSTOPS	142 L.F.
BAR REINFORCING STEEL (#7,000 LBS.)	LUMP SUM
MISCELLANEOUS IRON & STEEL	3,900 LBS.
STEEL RAILING	460 L.F.

#1 556TC4

For General Notes see Typical Sections.

Submitted by	Date	Approved	Date
DESIGN	8 WLM 2-54	Dist. Bridge Engr.	Dist.
DETAILS	8 DJZ 11-53	State Bridge Engr.	
QUANTITIES	8 JEE 2-54	Bridge No.	42-187
CHECKED	8 WLM 2-54	Type of Bridge	Reinforced Concrete Slab
Signed Reinforced Plans	8 WLM 2-54	Length of Bridge	204'-0"
		Width of Bridge	40'-2"
		Skew	25°41'

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

OLIVE AVENUE OVERCROSSING
LOCATED NEAR NORTH CITY LIMIT OF FRESNO ON NEW ALIGNMENT OF ROAD

GENERAL PLAN

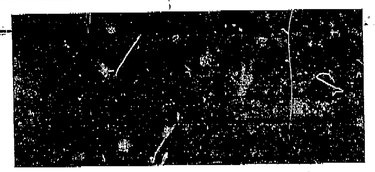
Except as noted SCALE 1"=20'	BRIDGE 42-187	FILE	DRAWING C-3470-1

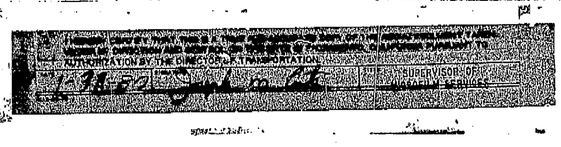
AS BUILT
CORRECTIONS BY D E CARLSON
CONTRACT NO. 55-56TC4
DATE 11/30/55
J.A.C. 7/1/79

Live Loading = 1120 - 516-44

BOW 105

PREL. DRAWING NO. P. 3470 R





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California Department of Transportation
Division of Maintenance

Structure Maintenance and Investigations

BRIDGE

INSPECTION

RECORDS

INFORMATION

SYSTEM

The requested documents have been generated by BIRIS.

These documents are the property of the California Department of Transportation and should be handled in accordance with Deputy Directive 55 and the State Administrative Manual.

Records for “Confidential” bridges may only be released outside the Department of Transportation upon execution of a confidentiality agreement.

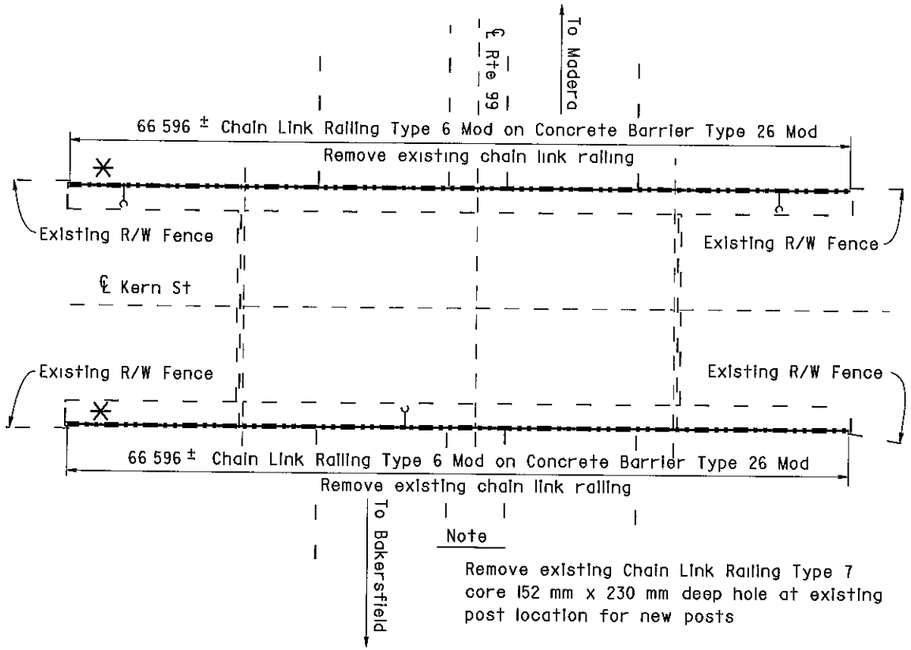
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	126	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet



Note

Remove existing Chain Link Railing Type 7 core 152 mm x 230 mm deep hole at existing post location for new posts

KERN STREET OC

Br No 42-0159, Fre, KP 33 0
1 250

KERN STREET OC 42-0159
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION H	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	133 m

TULARE STREET OC 42-0169
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION I	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	166 m

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

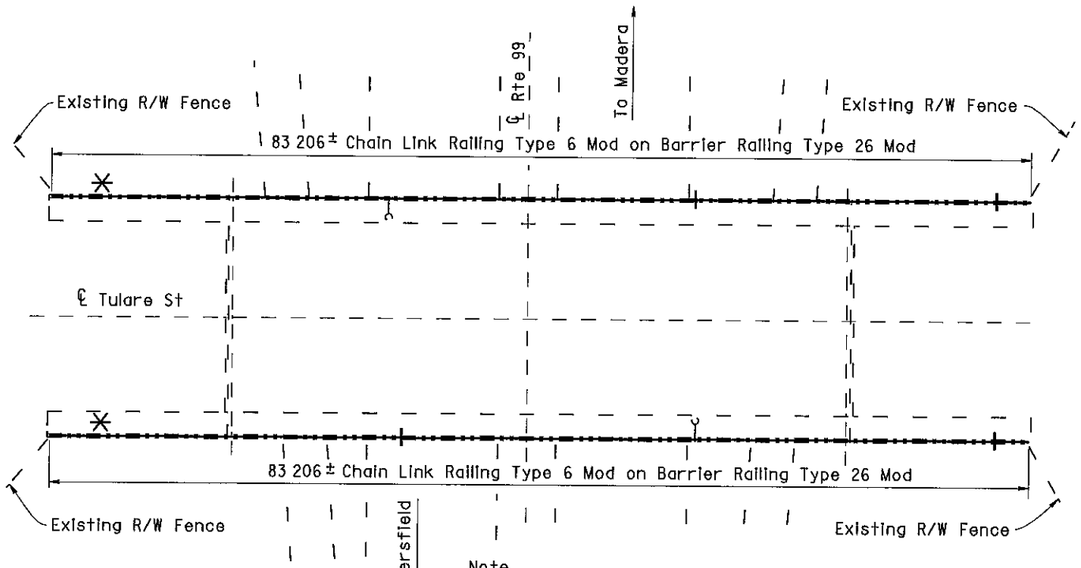
NOTES

— — Indicates existing

℄ Indicates approximate location of existing electrolier (To remain)

Indicates approximate location of remove and reinstall sign on new post

Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details



Note

Remove existing Chain Link Railing Type 7 core 152 mm x 230 mm deep hole at existing post location for new posts

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

TULARE STREET OC

Br No 42-0169, Fre, KP 33 2
1 250

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00 DESIGN ENGINEER	DESIGN	BY D Acoba 4/00	CHECKED F Tannous 5/00	LAYOUT	BY K Endow 4/00	CHECKED D Acoba 4/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE	BRIDGE NO Various
	DETAILS	BY K Endow 4/00	CHECKED F Tannous 5/00						KILOMETER POST Varies
	QUANTITIES	BY D Acoba 5/00	CHECKED F Tannous 5/00	SPECIFICATIONS	BY J Maroney 9/00	PLANS AND SPECS COMPARED J Maroney 9/00		CU 06015 EA 440101	DISREGARD PRINTS BEARING EARLIER REVISION DATES

ROUTE 99 BRIDGES
GENERAL PLAN NO. 4

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 7/17/00 9/26/00 10/3/00

SHEET 4 OF 11

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

FILE > nagp4 dgn

USERNAME > mcarlson DATE PLOTTED > 03-JAN-2003 TIME PLOTTED => 08:38

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	127	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

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FRESNO STREET OC 42-0170
QUANTITIES

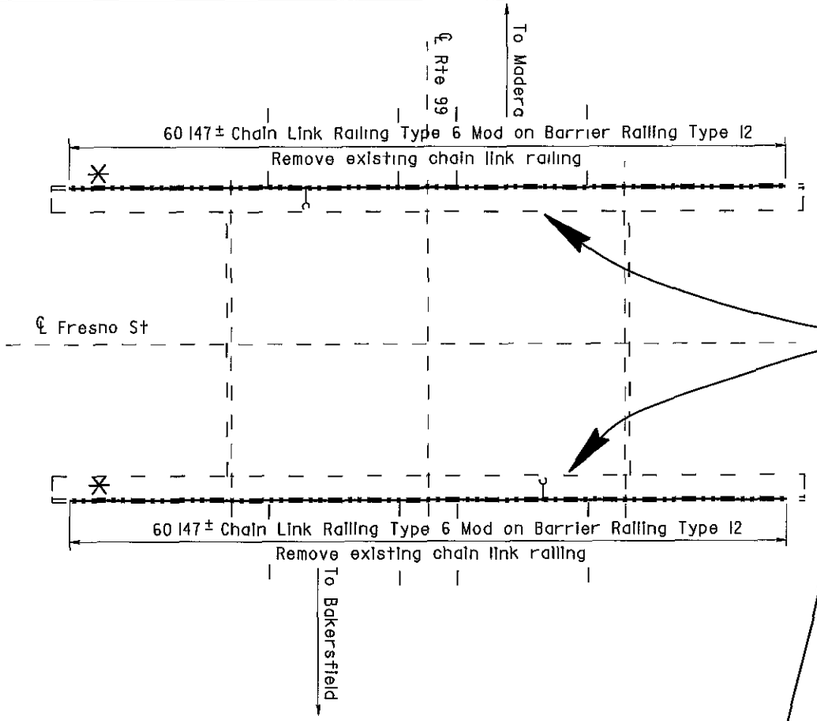
BRIDGE REMOVAL (PORTION), LOCATION J	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	120 m

EL DORADO STREET OC 42-0184
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION K	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	122 m

BELMONT AVENUE OC 42-0186
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION L	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	138 m



Handrail added to Fresno St. and Belmont Ave. OC

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

NOTES

— — Indicates existing

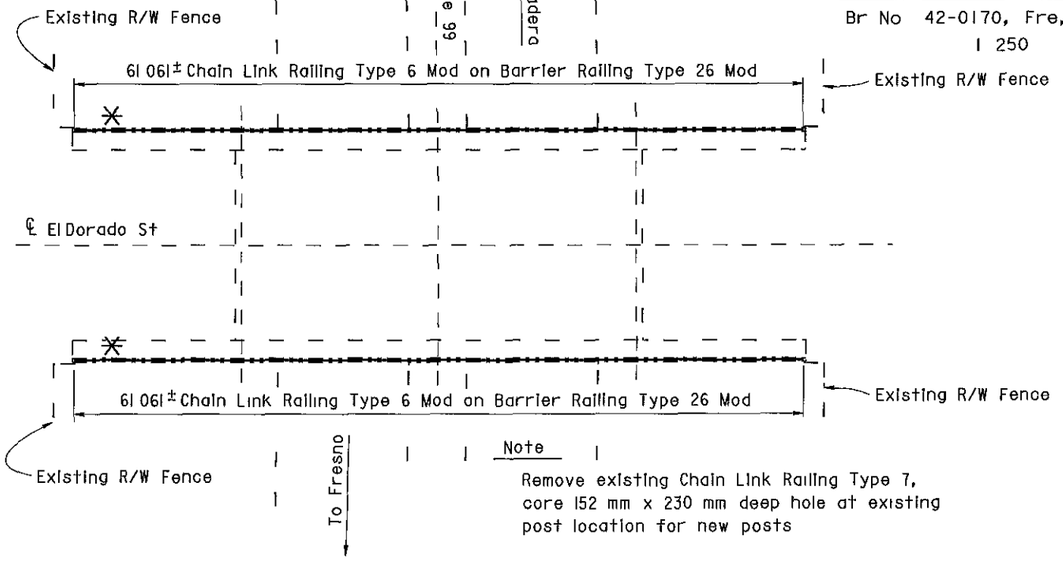
℄ Indicates approximate location of existing electrolier (To remain)

Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

FRESNO STREET OC

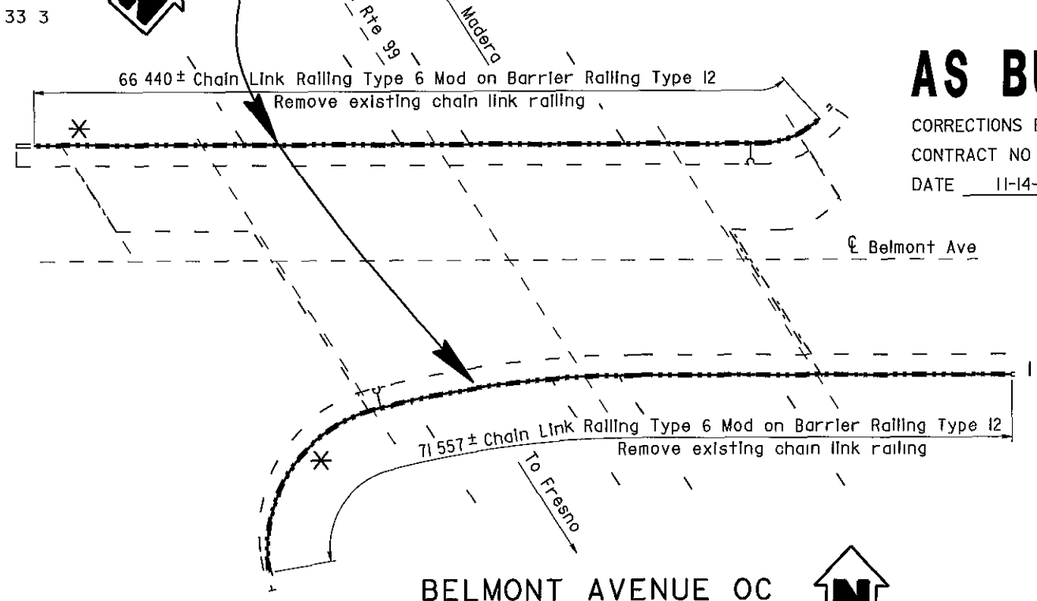
Br No 42-0170, Fre, KP 33 3
1 250



Note
Remove existing Chain Link Railing Type 7, core 152 mm x 230 mm deep hole at existing post location for new posts

EL DORADO STREET OC

Br No 42-0184, Fre, KP 34 6
1 250



BELMONT AVENUE OC

Br No 42-0186, Fre, KP 36 5
1 250

AS BUILT
MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED		LAYOUT	BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00		K Endow	4/00	D Acoba	4/00
DETAILS	K Endow	4/00	F Tannous	5/00				PLANS AND SPECS COMPARED	
QUANTITIES	D Acoba	5/00	F Tannous	5/00	SPECIFICATIONS	J Maroney	9/00	J Maroney	9/00

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

CU 06015
EA 440101

FILE => nogp5.dgn

BRIDGE NO	Various
KILOMETER POST	Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 5

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)									
5/15/00	7/17/00	9/26/00	10/3/00						

SHEET 5 OF 11

USERNAME => marison DATE PLOTTED => 03-JAN 2003 TIME PLOTTED => 06 50

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NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Caltrans Metric

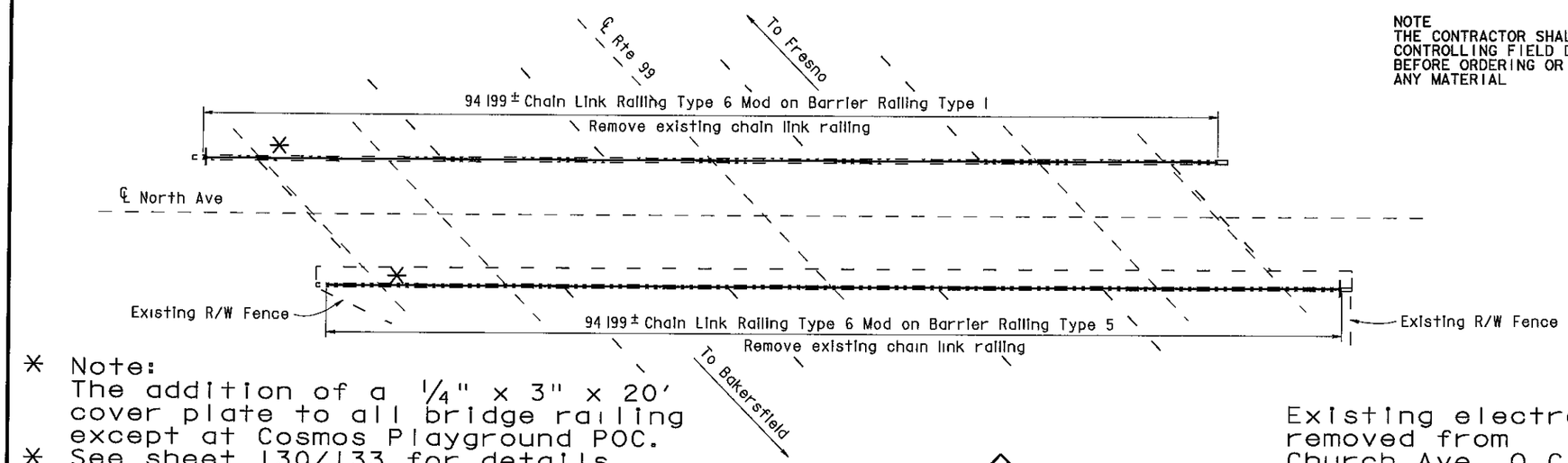
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	123	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DIOSDADO ACOBA
No 52003
Exp 12-31-02
CIVIL
STATE OF CALIFORNIA

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* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

NORTH AVENUE OC

Br No 42-0210, Fre, KP 27 8
1 250

Existing electroliers removed from Church Ave. O.C.

NOTES

— — Indicates existing

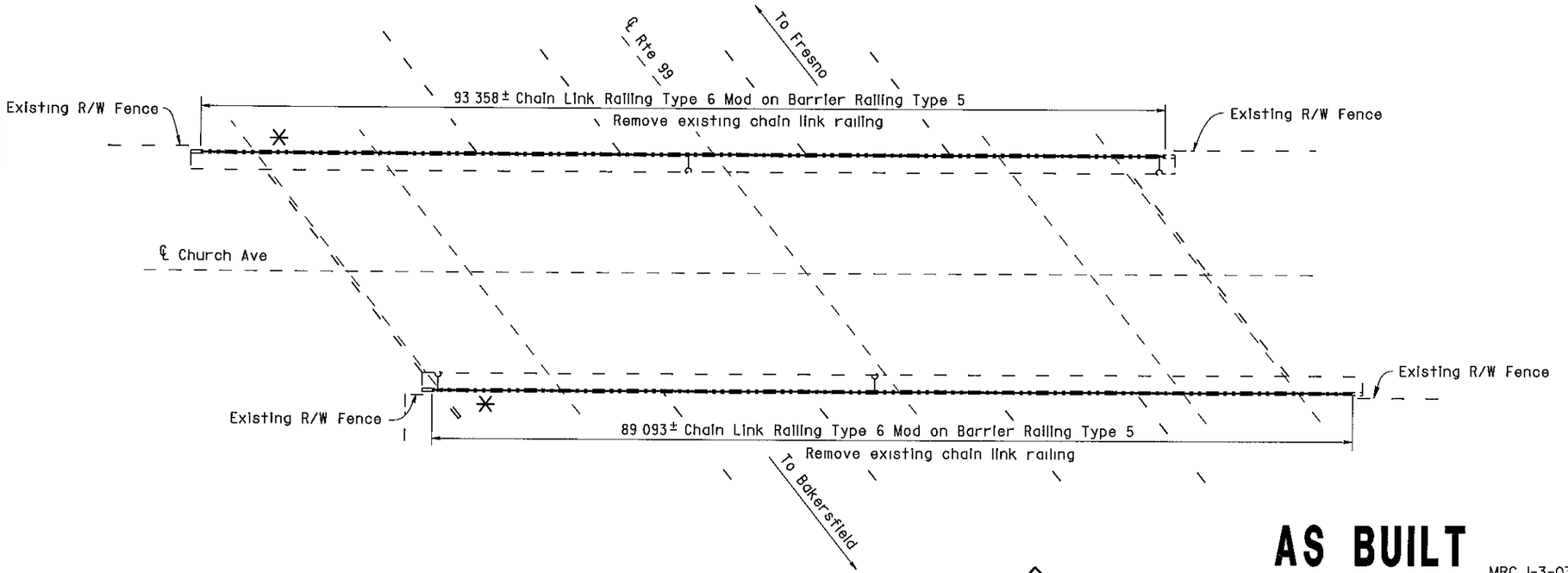
℄ Indicates approximate location of existing electrolier (To remain)

Indicates approximate location of remove and reinstall sign on new post

Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details

INDEX TO PLANS

SHEET NO	TITLE
1	GENERAL PLAN NO 1
2	GENERAL PLAN NO 2
3	GENERAL PLAN NO 3
4	GENERAL PLAN NO 4
5	GENERAL PLAN NO 5
6	GENERAL PLAN NO 6
7	GENERAL PLAN NO 7
8	CHAIN LINK RAILING TYPE 6 MOD NO 1
9	CHAIN LINK RAILING TYPE 6 MOD NO 2
10	CHAIN LINK RAILING TYPE 6 MOD NO 3
11	CHAIN LINK RAILING TYPE 3 MOD



CHURCH AVENUE OC

Br No 42-0214, Fre, KP 30 9
1 250

AS BUILT MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

NORTH AVENUE OC 42-0210
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION A	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	189 m

CHURCH AVENUE OC 42-0214
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION B	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	183 m

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED		BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00	LAYOUT	K Endow	4/00	D Acoba	4/00
DETAILS	K Endow	4/00	F Tannous	5/00				PLANS AND SPECS COMPARED	
QUANTITIES	D Acoba	5/00	F Tannous	5/00	SPECIFICATIONS	J Maroney	9/00	J Maroney	9/00

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 1

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 5/15/00 7/17/00 9/26/00 10/3/00

SHEET 1 OF 11

FILE -> nagpl.dgn

USERNAME -> mgarson DATE PLOTTED -> 02 JAN 2003 TIME PLOTTED -> 16:55

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
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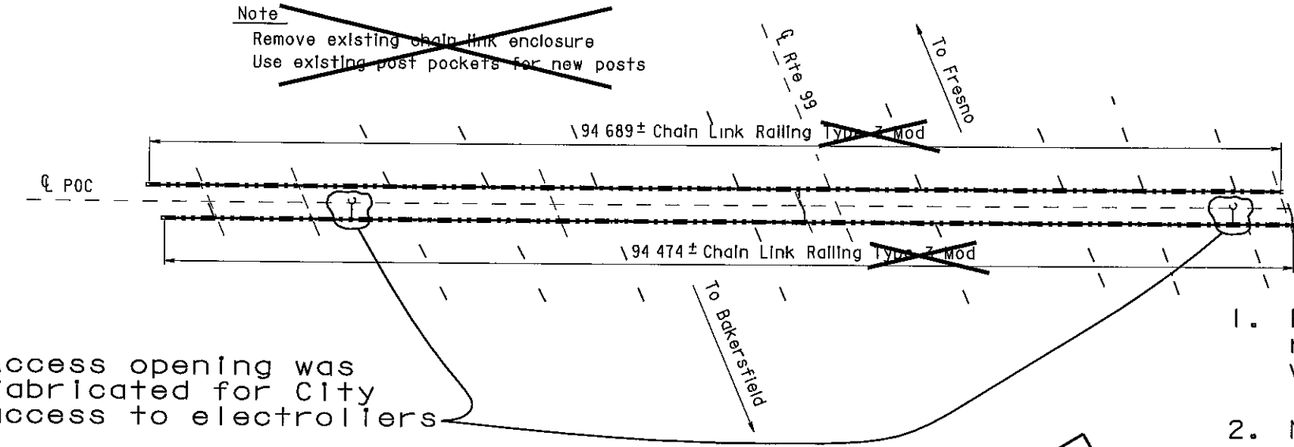
10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

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Note
Remove existing chain link enclosure
Use existing post pockets for new posts



COSMOS PLAYGROUND POC

Br No 42-0215, Fre, KP 31 2
1 250

1. Existing chain link railing remained and was painted.
2. New 1" mesh was installed and replaced the old 2" mesh.
3. Existing electroliers remained.

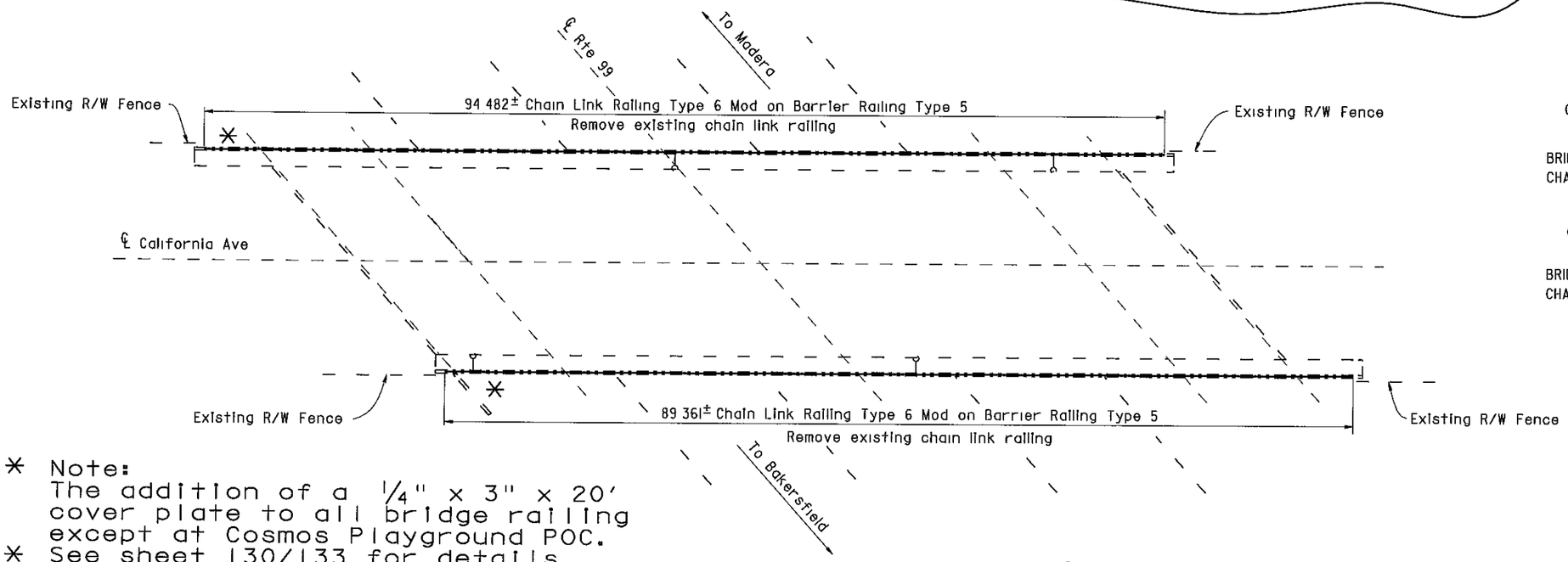
NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

NOTES

— — Indicates existing

℄ Indicates approximate location of existing electroliter (To remain)

Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details



COSMOS PLAYGROUND POC 42-0215
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION C	LUMP SUM
CHAIN LINK RAILING (TYPE 3 MODIFIED)	209 m

CALIFORNIA AVENUE OC 42-0217
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION D	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	184 m

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

CALIFORNIA AVENUE OC

Br No 42-0217, Fre, KP 32 0
1 250

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borguez
CONTRACT NO 06-440104
DATE 11-14-02

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00
DETAILS	K Endow	4/00	F Tannous	5/00
QUANTITIES	D Acoba	5/00	F Tannous	5/00
LAYOUT	K Endow	4/00	D Acoba	4/00
SPECIFICATIONS	J Maroney	9/00	J Maroney (PLANS AND SPECS COMPARED)	9/00

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

CU 06015
EA 440101

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 2

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/12/00 | 9/26/00 | 10/3/00

SHEET 2 OF 11

FILE -> nagp2.dgn

USERNAME -> morrison DATE PLOTTED -> 03 JAN 2003 TIME PLOTTED -> 08:15

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	99	23 3/50 7	125	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

VENTURA STREET OC 42-0158K
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION E	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	78 m

VENTURA STREET OC 42-0158E
QUANTITIES

BRIDGE REMOVAL (PORTION) LOCATION F	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	122 m

VENTURA STREET OC 42-0158S
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION G	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	74 m

NOTES

— — Indicates existing

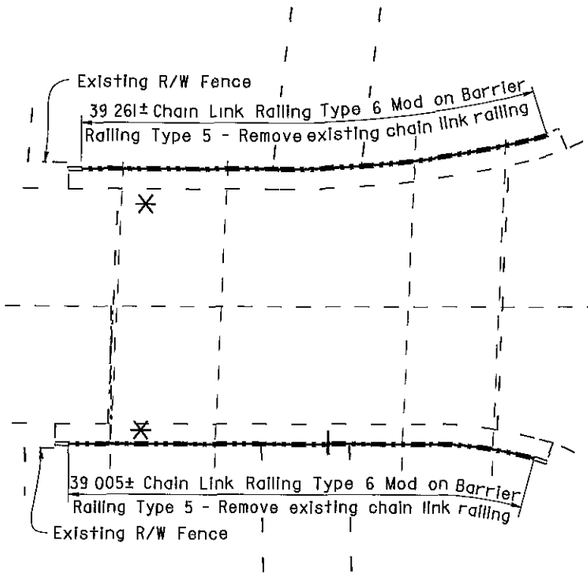
℄ Indicates approximate location of existing electroller (To remain)

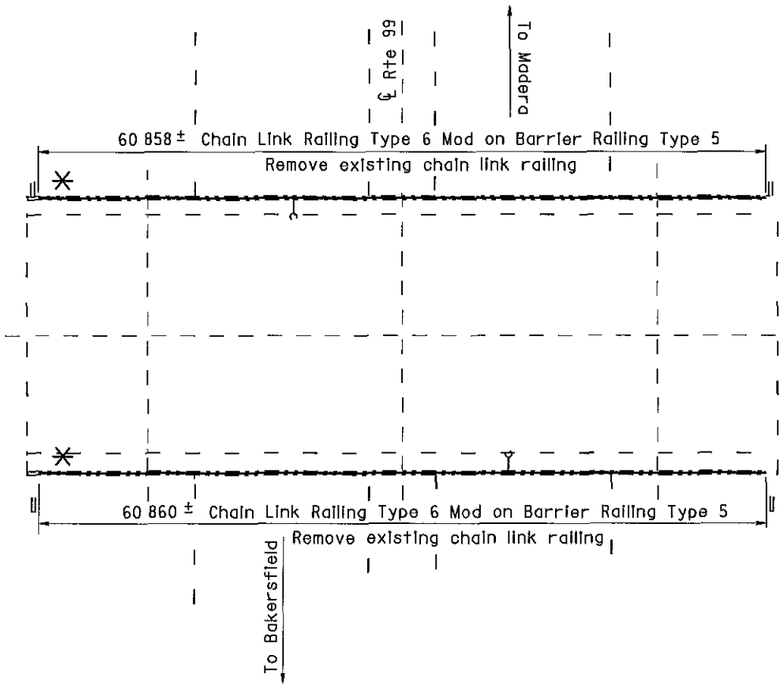
Indicates approximate location of remove and reinstall sign on new post

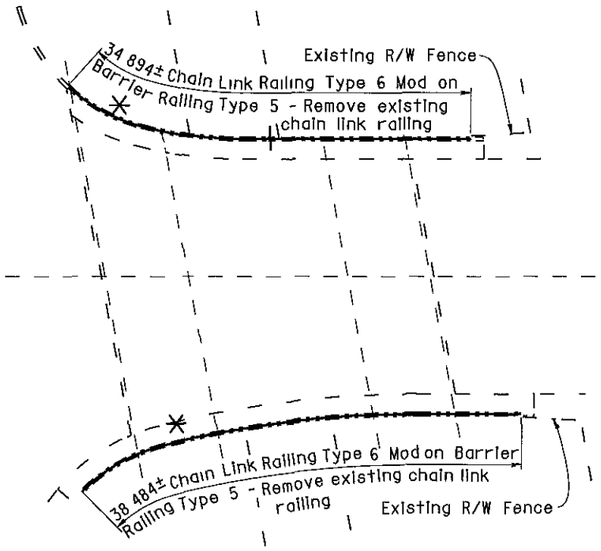
Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.







Br No 42-0158K

Bridges 42-0158K and 42-0158S were both painted with Color No. 20109 - "Deep red".

Br No. 42-0158E

VENTURA STREET OC

Fre, KP 32 5
I 250

AS BUILT
MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

Br No 42-0158S

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

	BY		CHECKED			BY		CHECKED			
DESIGN	D Acoba	4/00	F Tannous	5/00	LAYOUT	K Endow	4/00	D Acoba	4/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE
DETAILS	K Endow	4/00	F Tannous	5/00				PLANS AND SPECS COMPARED			
QUANTITIES	D Acoba	5/00	F Tannous	5/00	SPECIFICATIONS	J Maroney	9/00	J Maroney	9/00		

Michael J Lee 10/3/00
DESIGN ENGINEER

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE => nagp3.dgn

BRIDGE NO Various
KILOMETER POST Varies

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/17/00 | 9/28/00 | 10/1/00

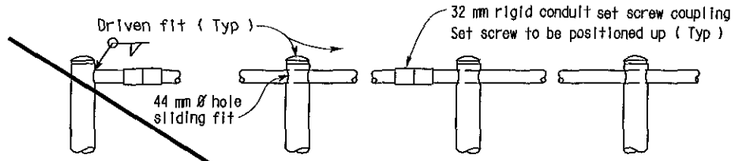
ROUTE 99 BRIDGES
GENERAL PLAN NO. 3

SHEET 3 OF 11

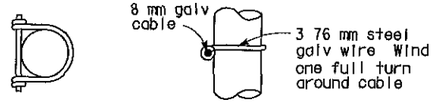
USERNAME => mcarlson DATE PLOTTED => 03 JAN 2003 TIME PLOTTED => 08 32

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RELEASED 6-9-98



END POST **INTERMEDIATE POSTS**



PLAN **ELEVATION**

DETAIL H

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
06	Fre	99	23 3/50 7	133	133

10-3-00
REGISTERED ENGINEER - CIVIL

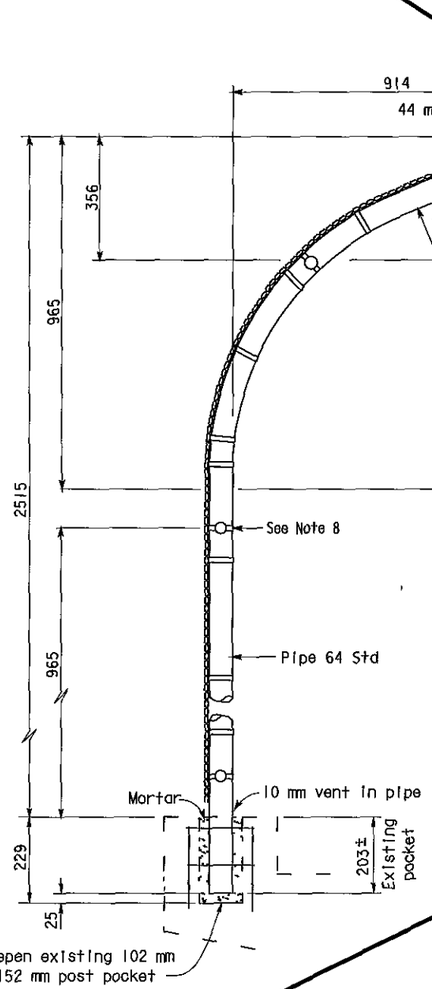
11-13-00
PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

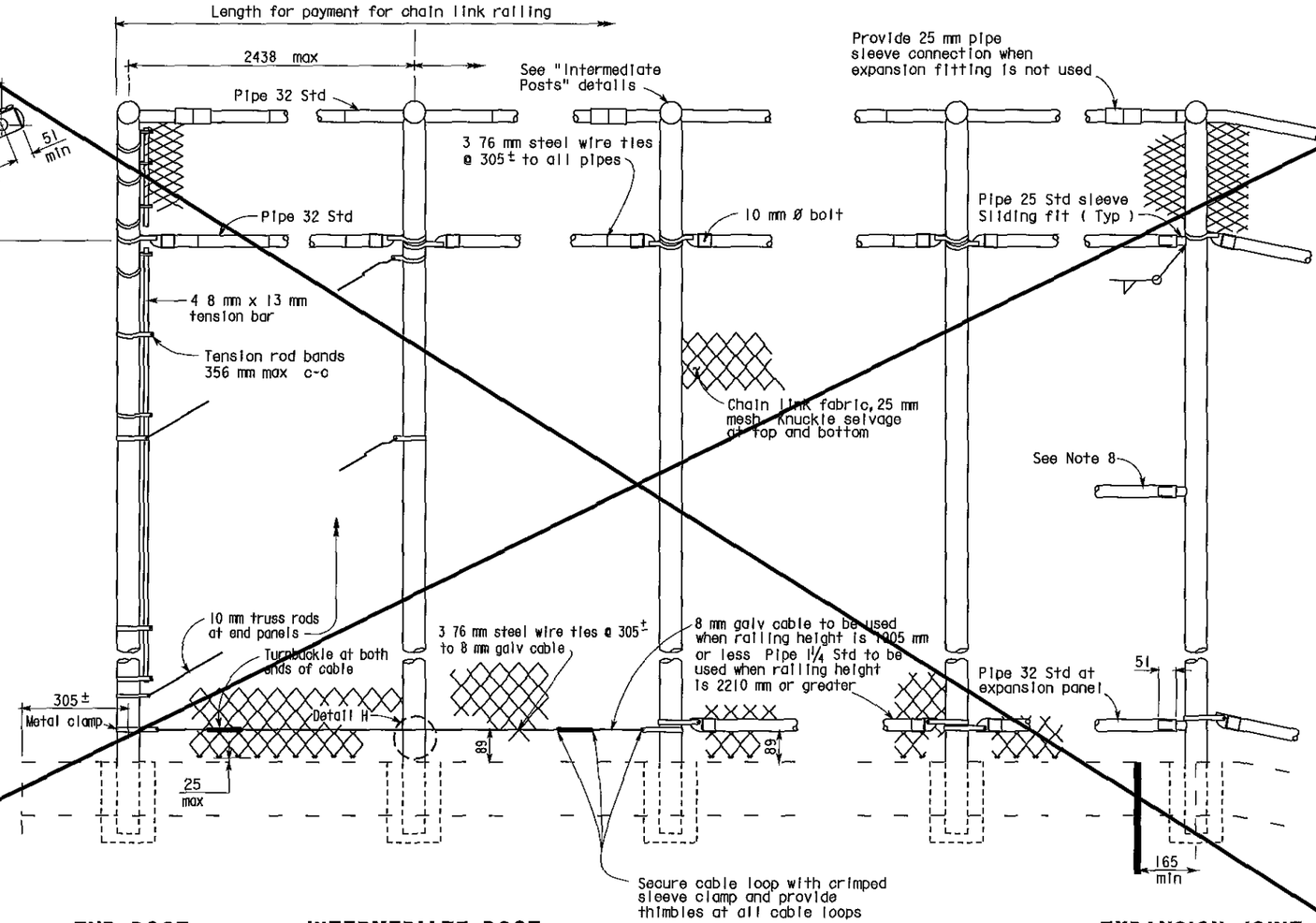
REGISTERED PROFESSIONAL ENGINEER
DIOSDADO ACOBA
No 52003
Exp 12 31 02
CIVIL
STATE OF CALIFORNIA

NOTES:

1 Railing assembly except chain link fabric to be galvanized after fabrication
2 Railing shall conform to horizontal and vertical alignment Posts shall be vertical Horizontal pipes shall be bent if radius is 45 72 m or less may be on 2 438 m chords If radius is over 45 72 m
3 Peen all 10 mm Ø bolts
4 When railing is on slope fabric shall parallel to slope
5 Alternative details may be submitted by Contractor for Engineer's approval
6 Additional pipe 32 std required on radius less than 45 72 m



TYPICAL POST DETAIL



END POST **INTERMEDIATE POST** **EXPANSION JOINT**

ELEVATION

Sheet Deleted

No Type 3 Modified Railing was used on this contract

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

SPECIAL DETAIL

NO SCALE
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

STANDARD DRAWING				
FILE NO XS 9 81	DESIGN BY R W BISHOP	CHECKED J HAMAGUCHI	APPROVAL RECOMMENDED BY	
DRAWING DATE Revised	DETAILS BY R YEE	CHECKED J HAMAGUCHI		
	SUBMITTED BY R W BISHOP		DESIGN SUPERVISOR	

DS OSD 2147A (METRIC) (REV 2/25/97)

1 Revised sheet - removed handrailing and electrical details and notes

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

CU 06105
EA 452001

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
CHAIN LINK RAILING TYPE 3 MOD 1

DISREGARD PRINTS BEARING EARLIER REVISION DATES
REVISION DATES (PRELIMINARY STAGE ONLY) 5/30/00 7/17/00 9/28/00 10/3/00

SHEET 11 OF 11

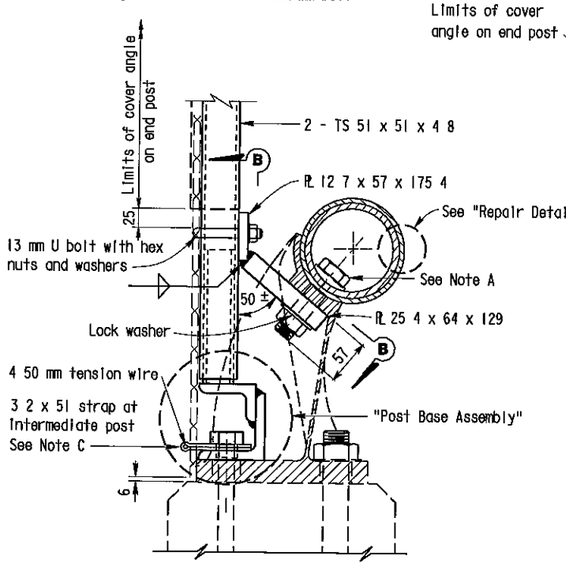
USERNAME > mgarlson
x5981 dgn
XS981 DGN

DATE PLOTTED > 03-JAN-2003 TIME PLOTTED > 13 32

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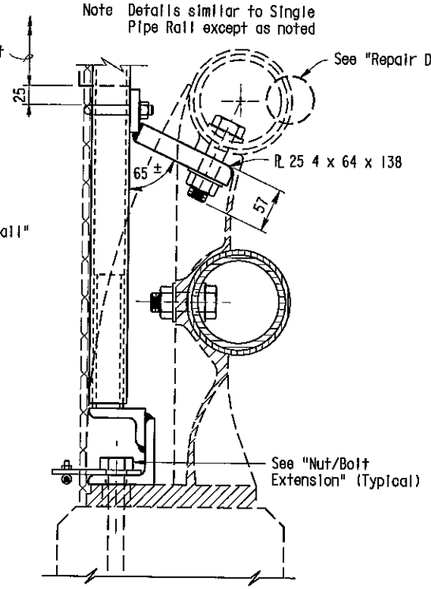
Note A

Replace existing bolt with 25 mm x 102 mm bolt



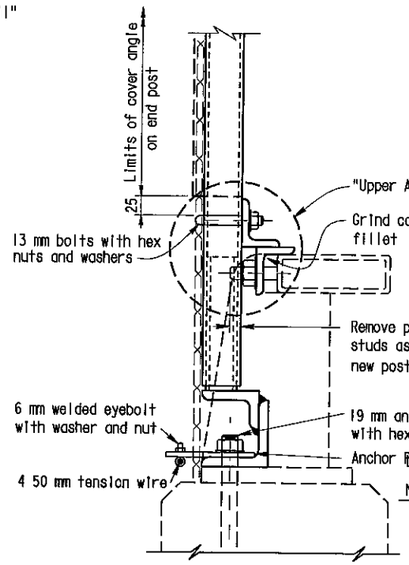
SECTION A-A (SINGLE PIPE RAIL)

Note Details similar to Single Pipe Rail except as noted



SECTION A-A (DOUBLE PIPE RAIL)

Note Details for Type 9 and Type 11 Metal Railing are similar, Type 11 not shown



SECTION A-A (TUBE RAIL)

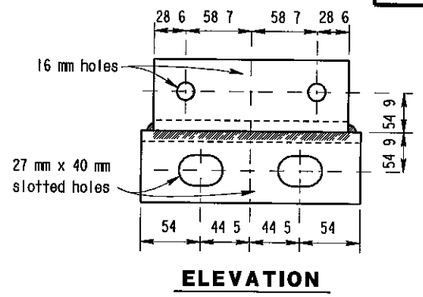
NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Note B

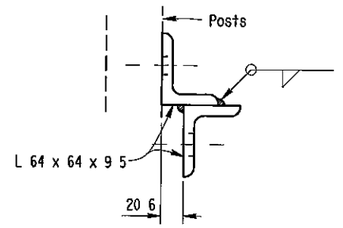
Paint all cut and ground surfaces with zinc rich paint

Note C

At intermediate posts only contractor has an alternate of 3 mm x 51 mm strap or 6 4 mm anchor plate with eyebolt



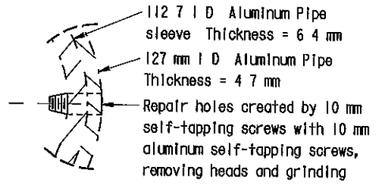
ELEVATION



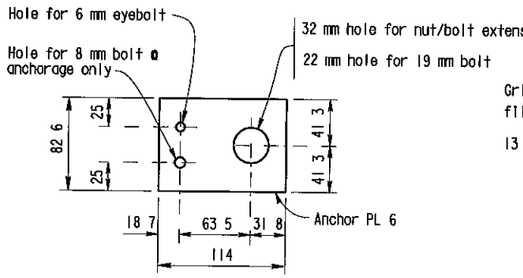
SIDE VIEW

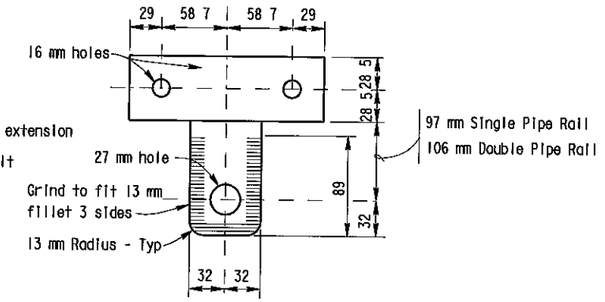
UPPER ANGLE BRACKET

ATTACHMENT DETAILS



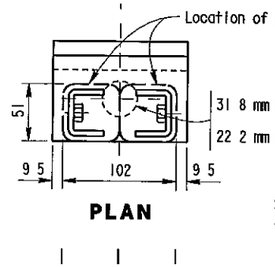
REPAIR DETAIL



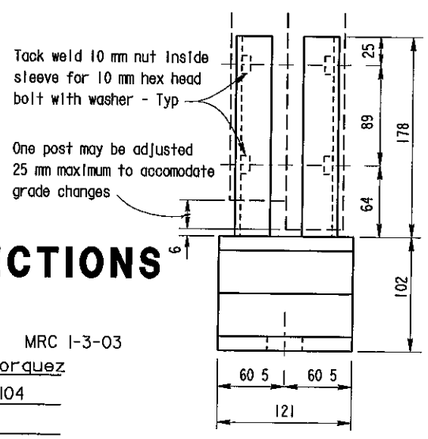


VIEW B-B

(Developed view of upper bracket)

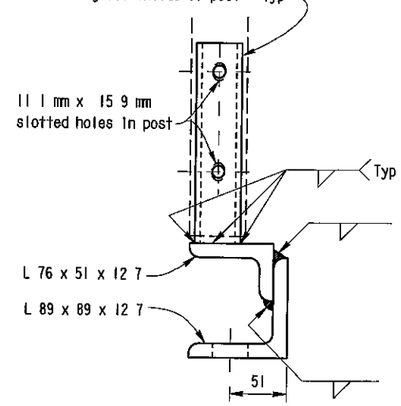


PLAN



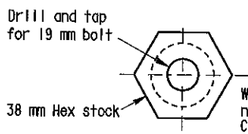
ELEVATION

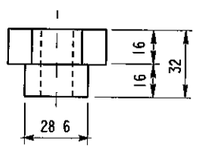
Sleeve formed from PL 4 7, bent thus ⊔ for sliding fit inside of post - Typ



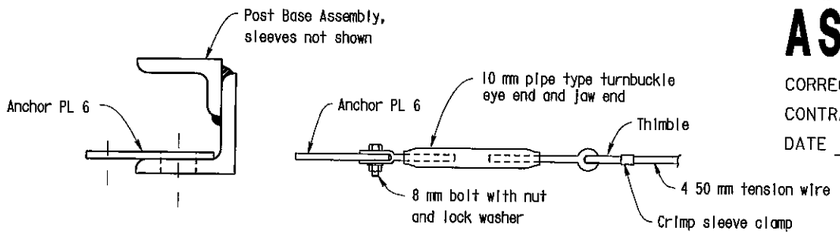
SIDE VIEW

POST BASE ASSEMBLY





NUT/BOLT EXTENSION



BOTTOM ANCHORAGE DETAIL

NO CORRECTIONS AS BUILT

MRC 1-3-03

CORRECTIONS BY John Borquez

CONTRACT NO 06-440104

DATE 11-14-02

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	132	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DIOSDADO ACOBA No 52003 Exp 12-31 02 CIVIL STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

DESIGN	BY D Acoba	5/00	CHECKED F Tannous	5/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY K Endow	5/00	CHECKED F Tannous	5/00	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE
QUANTITIES	BY D Acoba	5/00	CHECKED F Tannous	5/00	CU 06015 EA 440101

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
CHAIN LINK RAILING TYPE 6 MOD NO. 3

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

FILE > nat63 dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 7/17/00 9/26/00 10/3/00

SHEET 10 OF 11

USERNAME > mgarlson DATE PLOTTED > 03 JAN 2003 TIME PLOTTED > 13:26

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
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10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

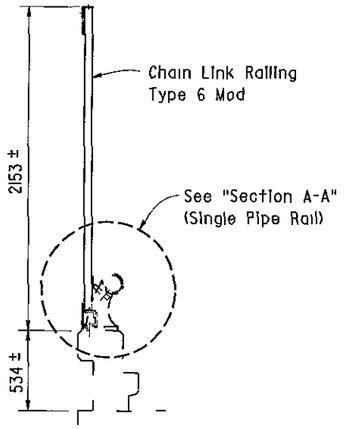
REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

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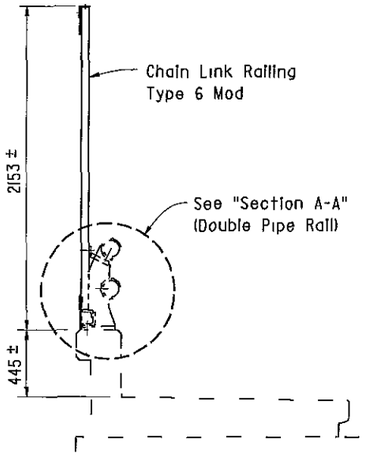
NO CORRECTIONS
AS BUILT

MRC 1-3-03

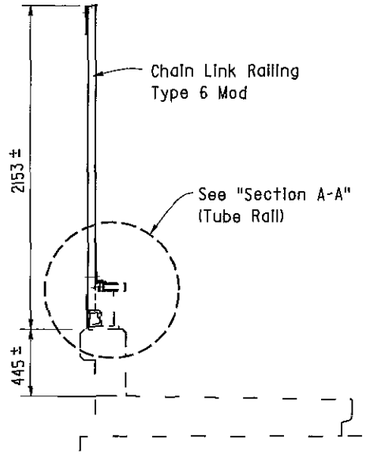
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02



TYPE 1



TYPE 5



TYPE 12

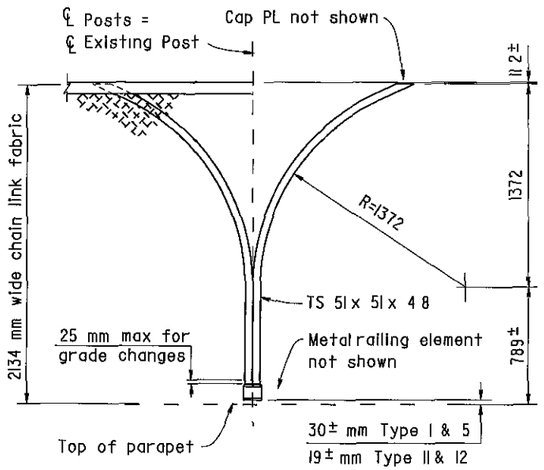
BARRIER RAILING SECTIONS

Existing chain link railing not shown

I 20

TYPE A
- NORTH AVE OC - 2 Locations
- CHURCH AVE OC - 4 Locations
- CALIFORNIA AVE OC - 4 Locations
- VENTURA ST OC - 4 Locations

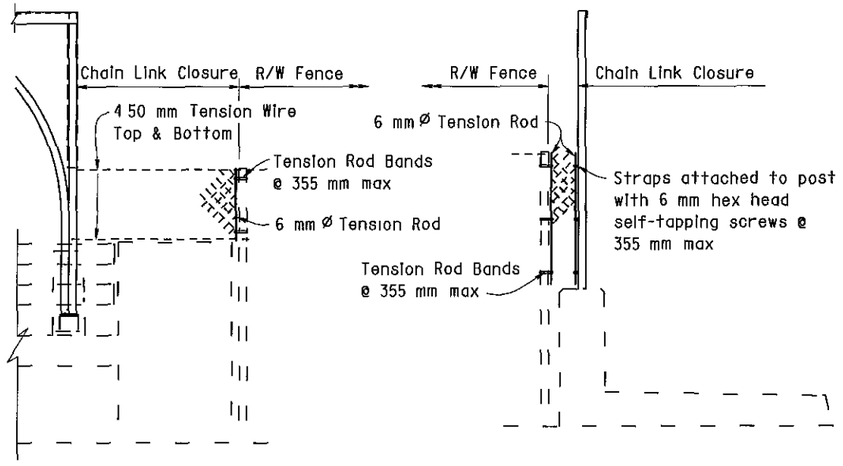
TYPE B
- KERN ST OC - 4 Locations
- TULARE ST OC - 4 Locations
- EL DORADO ST OC - 4 Locations



PART OUTSIDE ELEVATION

Note For details and notes not shown, see "Chain Link Railing Type 6 Mod No 1" sheet

I 10

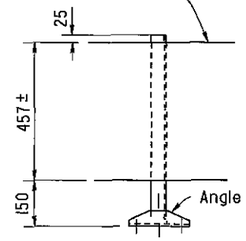


TYPE A TYPE B

R/W FENCE CONNECTION

I 10

Remove existing sign panels and reinstall on new post



TULARE ST OC

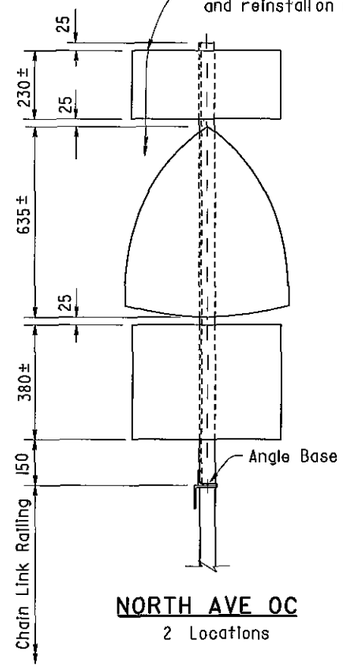
4 Loactions

Note

Reinstall signs at approximately the same location on chain link railing as existing

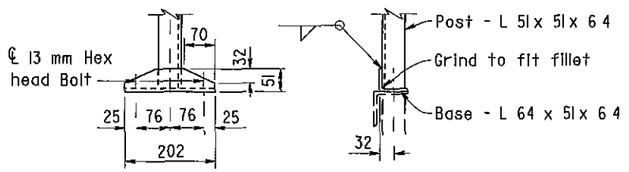
NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Remove existing sign panels and reinstall on new post



NORTH AVE OC

2 Locations



ANGLE BASE

Note

Hot dip galvanize sign post after fabrication
Field drilled holes to be painted with zinc rich paint

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

	BY		CHECKED	
DESIGN	D Acoba	5/00	F Tannous	5/00
DETAILS	K Endow	5/00	F Tannous	5/00
QUANTITIES	D Acoba	5/00	F Tannous	5/00

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
CHAIN LINK RAILING TYPE 6 MOD NO. 2

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE > nat62.dgn

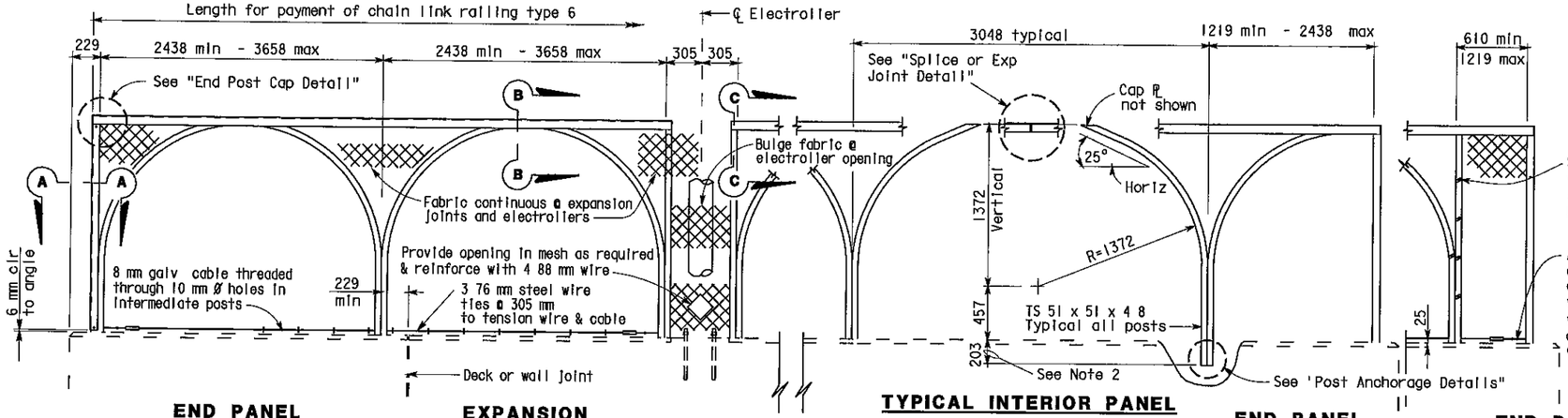
DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/17/00 | 9/26/00 | 10/3/00

SHEET 9 OF 11

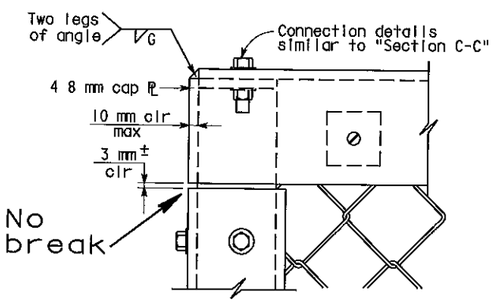
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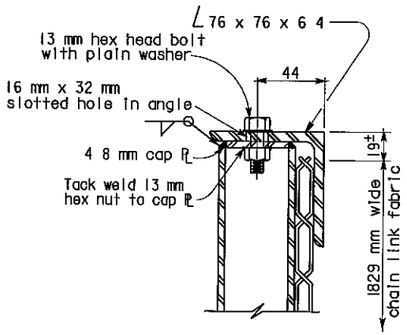


END PANEL 2438 mm - 3658 mm | **EXPANSION PANEL AT ELECTROLIER** | **TYPICAL INTERIOR PANEL** | **END PANEL 1219 mm - 2438 mm** | **END PANEL 610 mm - 1219 mm**

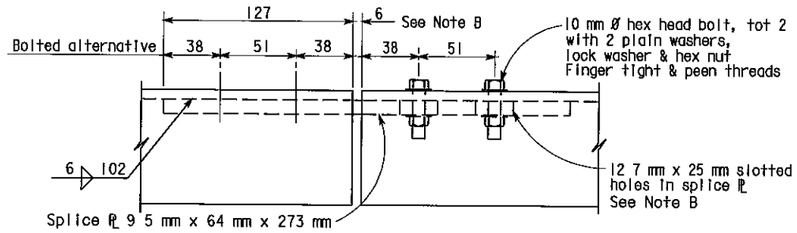
ELEVATION



END POST CAP DETAIL

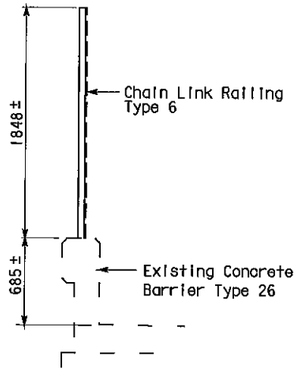


SECTION C-C

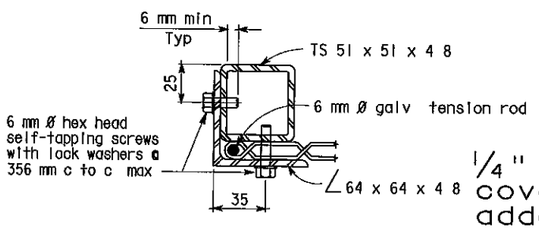


SPLICE OR EXPANSION JOINT DETAIL

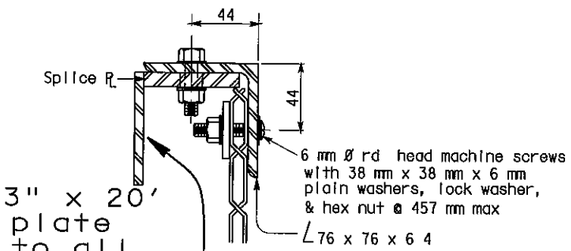
Note B Expansion joint same dimension as expansion joint in deck or wall Increase slotted hole length and splice ℙ length correspondingly



TYPICAL SECTIONS



SECTION A-A



SECTION B-B

NOTES

1. Horizontal angle shall be continuous over not less than two intermediate posts except that a shorter length is permitted at expansion joints, electrollers and other rail discontinuities
2. One post may be embedded 152 mm minimum to accomodate grade changes, otherwise fabricate post lengths as required
3. Curved posts may be rotated in plan within its post pocket to accomodate curved horizontal alignment
4. Straight posts and straight portions of curved posts shall be installed normal to bridge profile grade
5. Top horizontal angle shall be parallel to bridge profile grade and shall be shop bent to fit horizontal curves
6. When railing is on slope, fabric shall be placed parallel to slope
7. Alternative details may be submitted by Contractor for Engineer's approval
8. Railing assembly except chain link fabric shall be galvanized after fabrication
9. For details and reinforcement not shown, see "Concrete Barrier Type 25 or 26" sheet
10. See Bridge Plans for limits of Chain Link Railing Type 6 Mod
11. Provide thimbles at all cable loops
12. Chain link fabric to be 1829 mm wide with 25 mm mesh and with knuckled selvage top and bottom
13. When railing is placed on a horizontal alignment with a radius of 45 72 m or less, thread 8 mm cable through 10 mm Ø welded eye rods embedded 102 mm into the top of the concrete parapet and equally spaced to limit the middle ordinate distance between the 8 mm cable and the curve to 25 mm max
14. Splices and expansion joints shall be located at ℄ panel
15. Holes in posts for 8 mm cable and its anchorage may be field drilled and painted with zinc rich paint

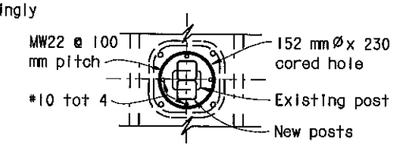
AS BUILT

MRC 1-3-03

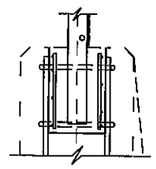
CORRECTIONS BY John Borquez

CONTRACT NO 06-440104

DATE 11-14-02



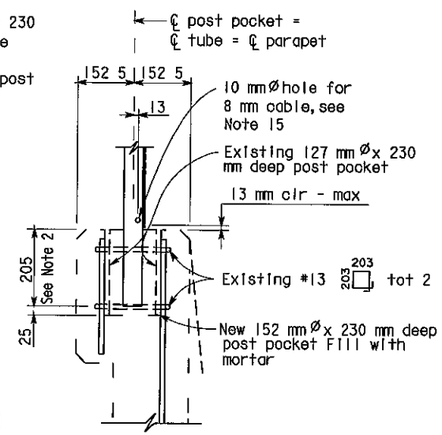
PLAN



SECTION

Detail omitted

POCKET DETAILS



POST ANCHORAGE DETAIL

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	130	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

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DESIGN	BY D Acoba	5/00	CHECKED F Tannous	5/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY K Endow	5/00	CHECKED F Tannous	5/00	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE
QUANTITIES	BY D Acoba	5/00	CHECKED F Tannous	5/00	BRIDGE NO Various; KILOMETER POST Varies

ROUTE 99 BRIDGES

CHAIN LINK RAILING TYPE 6 MOD NO. 1

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV 10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE > nat61.dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/17/00 | 9/26/00 | 10/3/00

SHEET 8 OF 11

USERNAME mcarlson DATE PLOTTED > 03-JAN-2003 TIME PLOTTED => 12:11

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	129	133

10/3/00
REGISTERED CIVIL ENGINEER

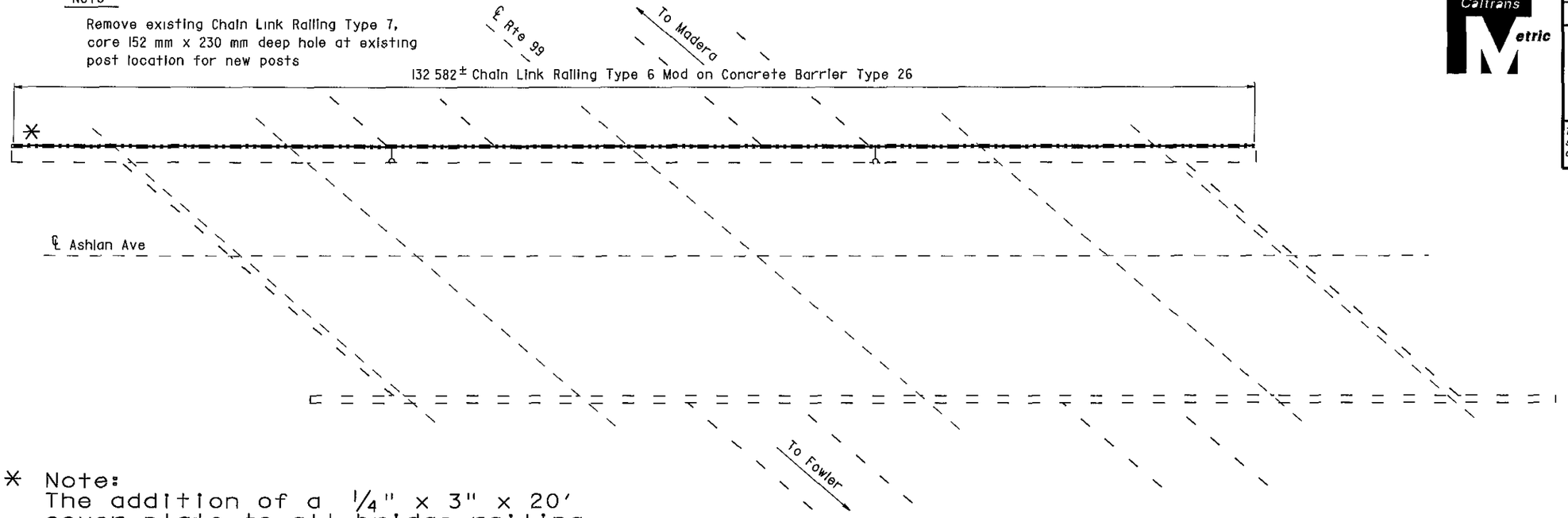
11-13-00
PLANS APPROVAL DATE

DIOSDADO ACOBA No 52003 Exp 12-31-02 CIVIL STATE OF CALIFORNIA

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Note

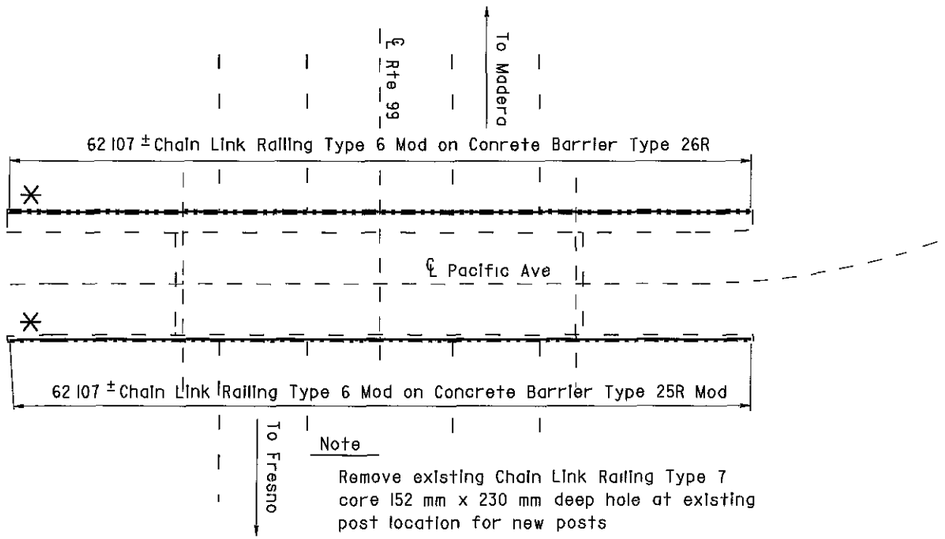
Remove existing Chain Link Railing Type 7, core 152 mm x 230 mm deep hole at existing post location for new posts



* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

ASHLAN AVENUE OC

Br No 42-0140, Fre, KP 42 8
1 250



Note

Remove existing Chain Link Railing Type 7 core 152 mm x 230 mm deep hole at existing post location for new posts

PACIFIC AVENUE OC

Br No 42-0189, Fre, KP 36 0
1 250

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

NOTES

— — Indicates existing

℄ ↓ Indicates approximate location of existing electrolier (To remain)

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

ASHLAN AVENUE OC 42-0140
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION O	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	133 m

PACIFIC AVENUE OC 42-0189
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION P	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	124 m

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

DESIGN	BY D Acoba 4/00	CHECKED F Tannous 5/00	LAYOUT	BY K Endow 4/00	CHECKED D Acoba 4/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE
DETAILS	BY K Endow 4/00	CHECKED F Tannous 5/00					
QUANTITIES	BY D Acoba 5/00	CHECKED F Tannous 5/00	SPECIFICATIONS	BY J Maroney 9/00	PLANS AND SPECS COMPARED J Maroney 9/00		

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 7

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE => nagp7.dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 5/15/00 7/17/00 9/26/00 10/3/00

SHEET 7 OF 11

USERNAME -> mgarrison DATE PLOTTED => 03 JAN 2003 TIME PLOTTED => 11:45

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
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10/3/00
REGISTERED CIVIL ENGINEER

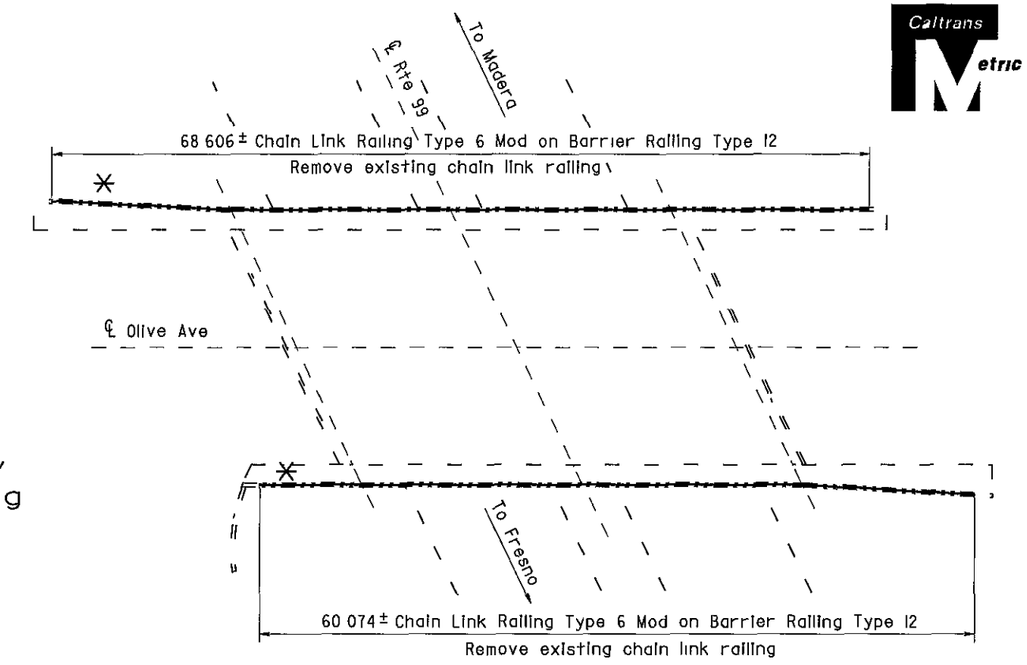
11-13-00
PLANS APPROVAL DATE

DIOSDADO ACOBA No 52003 Exp 12-31 02 CIVIL STATE OF CALIFORNIA REGISTERED PROFESSIONAL ENGINEER

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.



OLIVE AVENUE OC

Br No 42-0187, Fre, KP 37 5
1 250

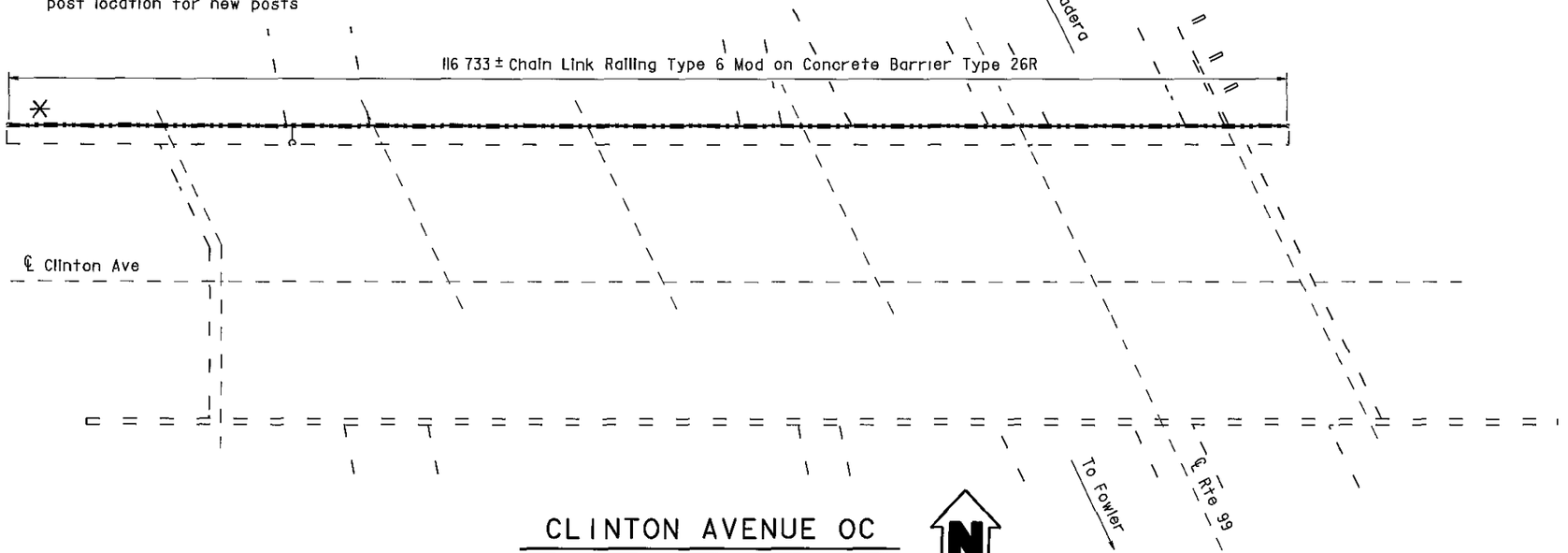
NOTES

— — Indicates existing

℄ Indicates approximate location of existing electrolier (To remain)

Note

Remove existing Chain Link Railing Type 7 core 152 mm x 230 mm deep hole at existing post location for new posts



CLINTON AVENUE OC

Br No 42-0183, Fre, KP 39 3
1 250

OLIVE AVENUE OC 42-0187
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION M	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	129 m

CLINTON AVENUE OC 42-0183
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION N	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	116 m

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED		BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00	LAYOUT	K Endow	4/00	D Acoba 4/00
DETAILS	K Endow	4/00	F Tannous	5/00				
QUANTITIES	D Acoba	5/00	F Tannous	5/00	SPECIFICATIONS	J Maroney	9/00	PLANS AND SPECS COMPARED J Maroney 9/00

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 6

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE => nagp6.dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/17/00 | 9/26/00 | 10/3/00

SHEET 6 OF 11

USERNAME => mcarlson DATE PLOTTED => 03 JAN-2003 TIME PLOTTED => 08 53

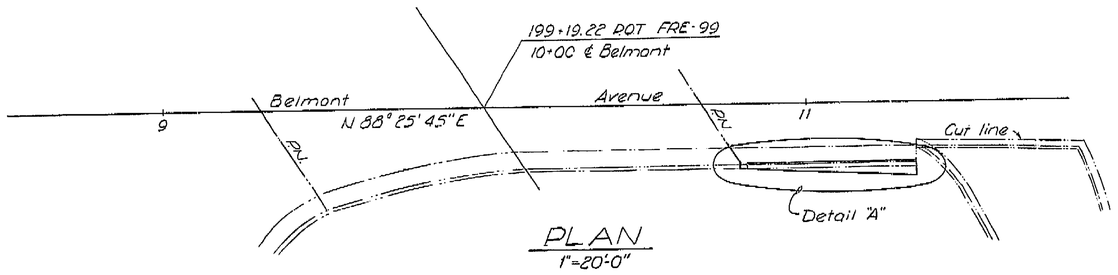
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DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	FRE	99	22.7	2	4

E. L. Tatton — BRIDGE ENGINEER — 10,961 REGISTERED CIVIL ENGINEER NUMBER

P. Casasanto — ASSISTANT STATE HIGHWAY ENGINEER — 9013 REGISTERED CIVIL ENGINEER NUMBER

DATE APPROVED MARCH 1, 1976



PLAN
1"=20'-0"

FINAL PAY QUANTITIES

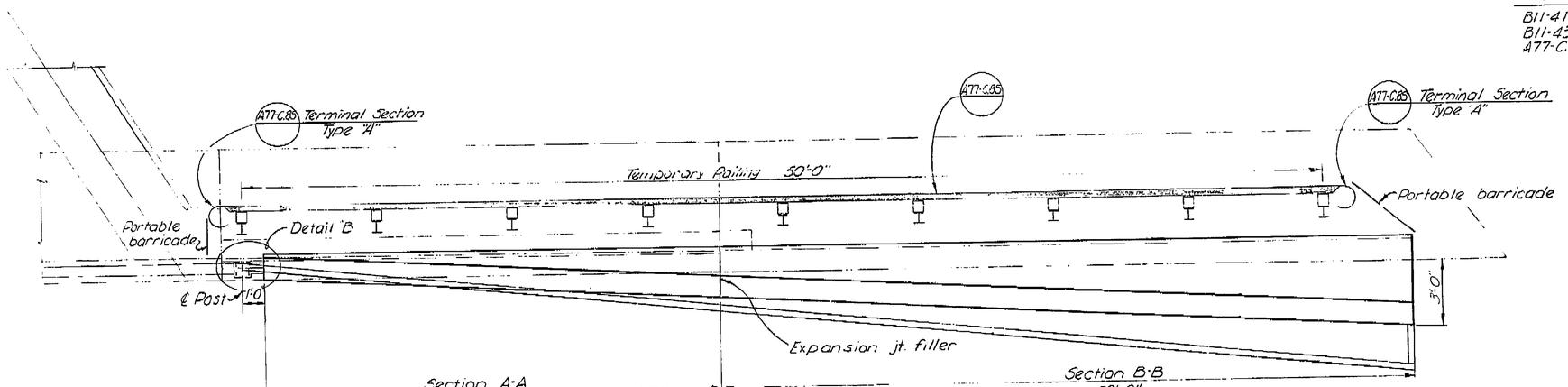
Structural Concrete, Bridge	9 C.Y.
Bar Reinforcing Steel (Bridge)	1,200 LB.

INDEX TO PLAN

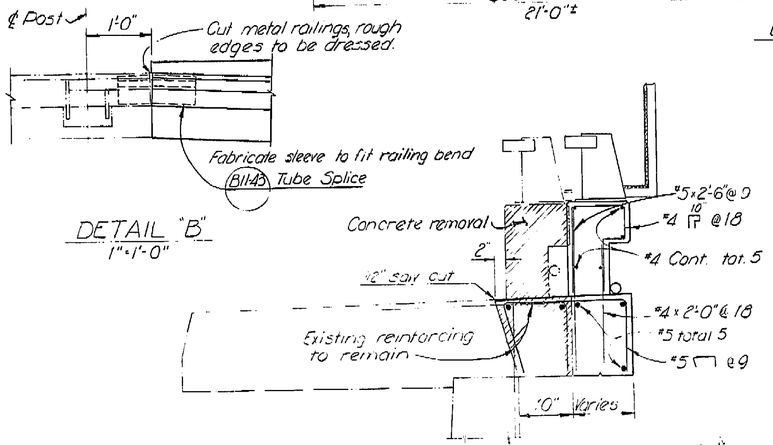
Sheet No.	Title
1	General Plan

STANDARD PLANS Dated Jan. 1975

B11-41	Barrier Railing Type 11
B11-43	Metal Railing Details - Types 9 & 11
A77-C:85	Metal Beam Guard Railing

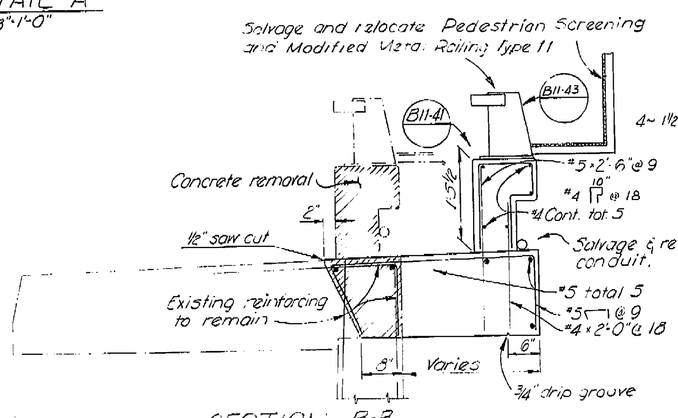


DETAIL "A"
3/8"=1'-0"

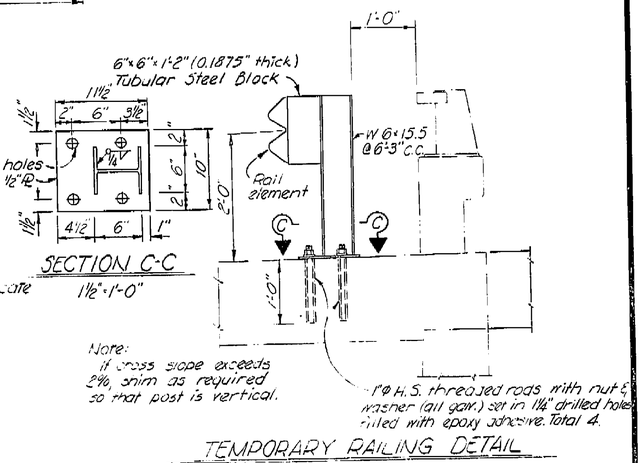


DETAIL "B"
1"=1'-0"

SECTION A-A
1"=1'-0"



SECTION B-B
1"=1'-0"



SECTION C-C
1½"=1'-0"

TEMPORARY RAILING DETAIL

NO AS BUILT CORRECTION ℄ 12-28 76

NOTE:
THE CONTRACTOR SHALL VERIFY ALL DEPENDENT DIMENSIONS IN THE FIELD BEFORE ORDERING OR FABRICATING ANY MATERIAL.

Submitted By: Richard M. Pompe — 12-27-74 — REGISTERED CIVIL ENGINEER NUMBER
Original Recommended By: [illegible] — 7989 — REGISTERED CIVIL ENGINEER NUMBER
DESIGN SECTION ENGINEER

	By	Checked
DESIGN	Richard M. Pompe	R. M. Pompe 11-74
DETAILS	LUM 11-'74	Checked J. F. Colley 11-74
QUANTITIES	LUM 11-'74	Checked K. Kawamura 11-74

LIVE LOADING: HS 20-44 AND ALTERNATIVE

	By	Checked
LAYOUT	LUM 11-'74	J. F. Colley 11-74
SPECIFICATIONS	J. Morberg	Plans and Specs Compared

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3

State of CALIFORNIA DEPARTMENT OF TRANSPORTATION

BRIDGE DEPARTMENT DESIGN SECTION 3
PROJECT ENGINEER Richard M. Pompe
CU 06351 WO 148901

BRIDGE NO. 42-186
POST MILE 22.80

BELMONT AVENUE OVERCROSSING
GENERAL PLAN

Disregard prints bearing earlier revision dates → REVISION DATES (PRELIMINARY STAGE ONLY) 12/9/75

SHEET 1 OF 1

HBD B 138

2

AS BUILT PLANS
Contract No. 06-148904
Date Completed — —
Document No. 60006724

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 4-7-77 SIGNATURE [illegible] TITLE [illegible]

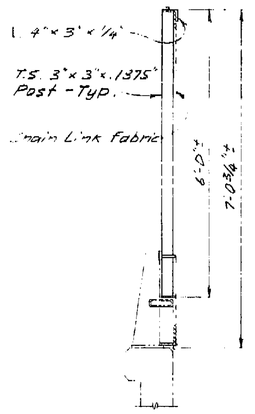
DAS-53-76

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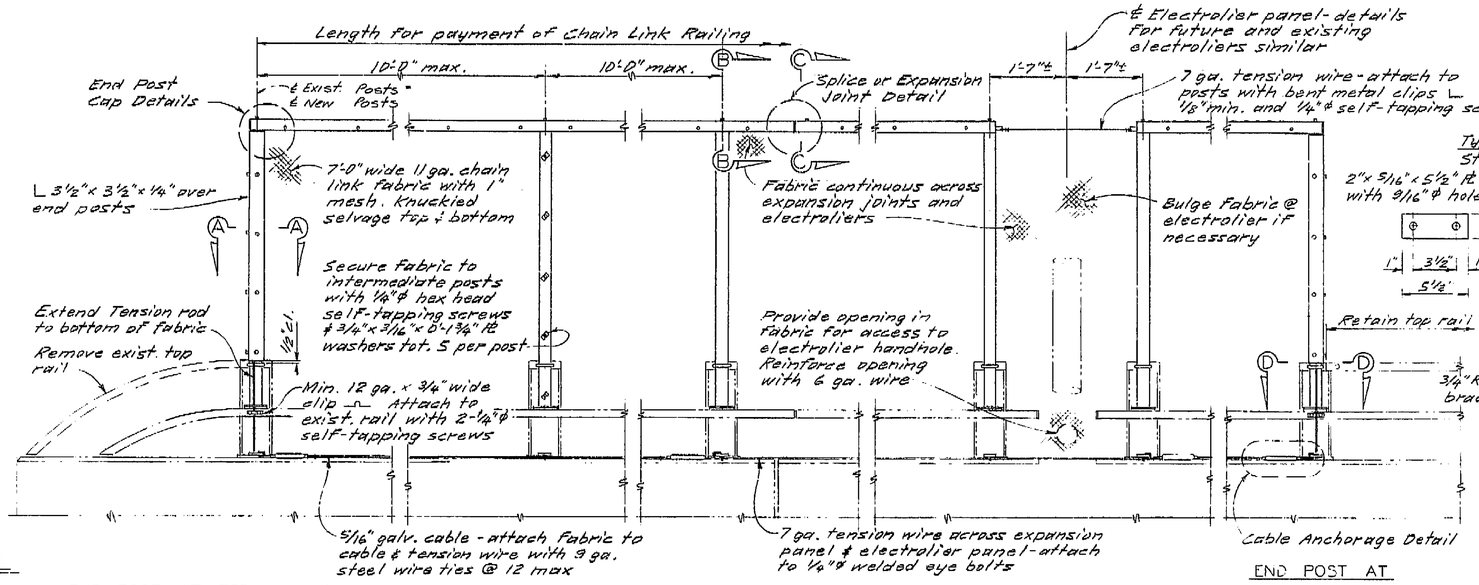
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DESIGN SECTION SUPERVISOR — REGISTERED CIVIL ENGINEER NO.

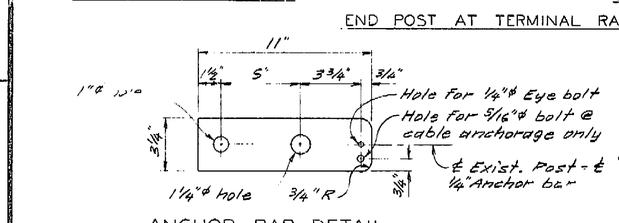
DATE APPROVED: December 31, 1973



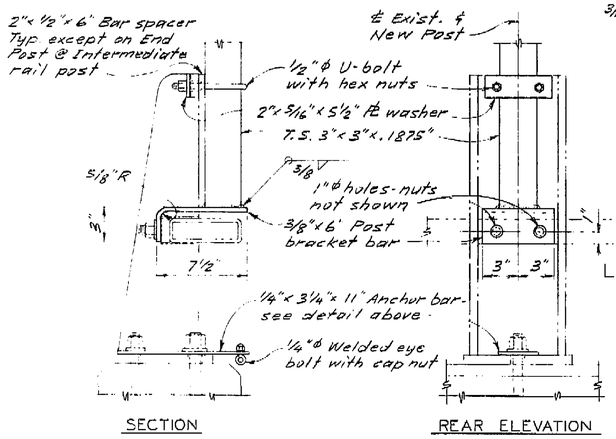
TYPICAL SECTION



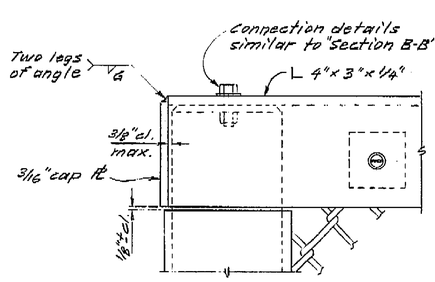
ELEVATION



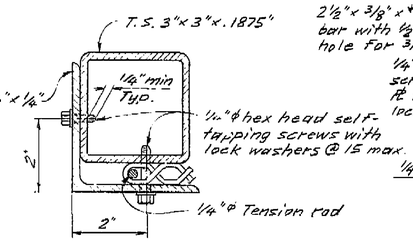
ANCHOR BAR DETAIL



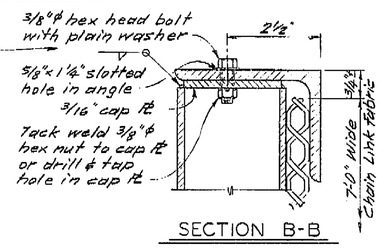
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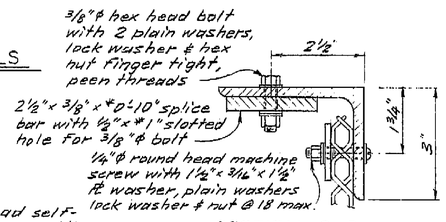
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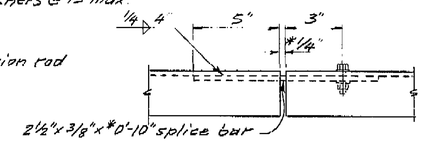
SECTION A-A



SECTION B-B

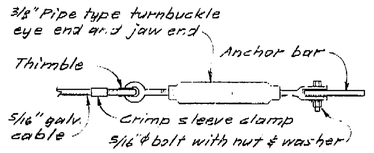


SECTION C-C



SPLICE OR EXPANSION JOINT DETAIL

SECTION D-D



CABLE ANCHORAGE DETAIL

NOTES:

1. Railing assembly except chain link fabric to be galvanized after fabrication.
2. Posts shall be vertical.
3. Railing shall conform to horizontal and vertical alignment. Horizontal angle shall be bent to conform to horizontal alignment if radius is 150 ft. or less.
4. Horizontal angle shall be continuous over not less than two intermediate posts, except that a shorter length is permitted at expansion joints, electroliers and other rail discontinuities.
5. When railing is on slope, place Fabric parallel to slope.
6. Alternative details may be submitted by Contractor for Engineer's approval.
7. Grind cut end of tube smooth and paint with zinc rich paint.
8. Exist. railing shown thus: ——··——
9. Peen all exposed bolts

*Expansion joint same dimension as expansion joint in deck or wall. Increase slotted hole length and splice bar length correspondingly.

AS BUILT PLANS
Contract No. 06-127904
Date Completed 7-18-74
Document No.

BRIDGE DEPARTMENT
DESIGN SECTION 13

Project Engineer: Jack Homuta

DESIGN	by	W. Lewis 3/73
	Checked	S. Lee 3/73
DETAILS	by	K. Endow 3/73
	Checked	W. Lewis 3/73
QUANTITIES	by	W. Lewis 7/73
	Checked	J. Homuta 7-1-73

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

BELMONT AVENUE OVERCROSSING
RAILING MODIFICATION

CHAIN LINK RAILING DETAILS

BRIDGE No.	POST MILE	WO	SHEET	OF
42-186	22.7	CU	2	2

REVISION DATES (PRELIMINARY STAGE ONLY)

Disregard prints bearing earlier revision dates → 4/5 4/23/73

17

(11)

Existing Type 9-11 or 11

AS BUILT PLANS
Contract No. 06-127904
Date Completed 12-73
Document No. 6 000 2092

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 7-25-74 SIGNATURE W. Lewis TITLE Bridge Engineer

043-55-70

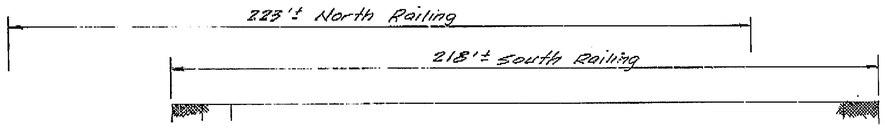
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre, Mad	99	17.3/11.1	16	24

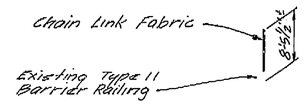
BRIDGE ENGINEER — REGISTERED CIVIL ENGINEER NUMBER 8021

ASSISTANT STATE HIGHWAY ENGINEER — REGISTERED CIVIL ENGINEER NUMBER 8880

DATE APPROVED December 31, 1973



ELEVATION



NOTE.
THE CONTRACTOR SHALL VERIFY ALL DEPENDENT DIMENSIONS IN THE FIELD BEFORE ORDERING OR FABRICATING ANY MATERIAL.

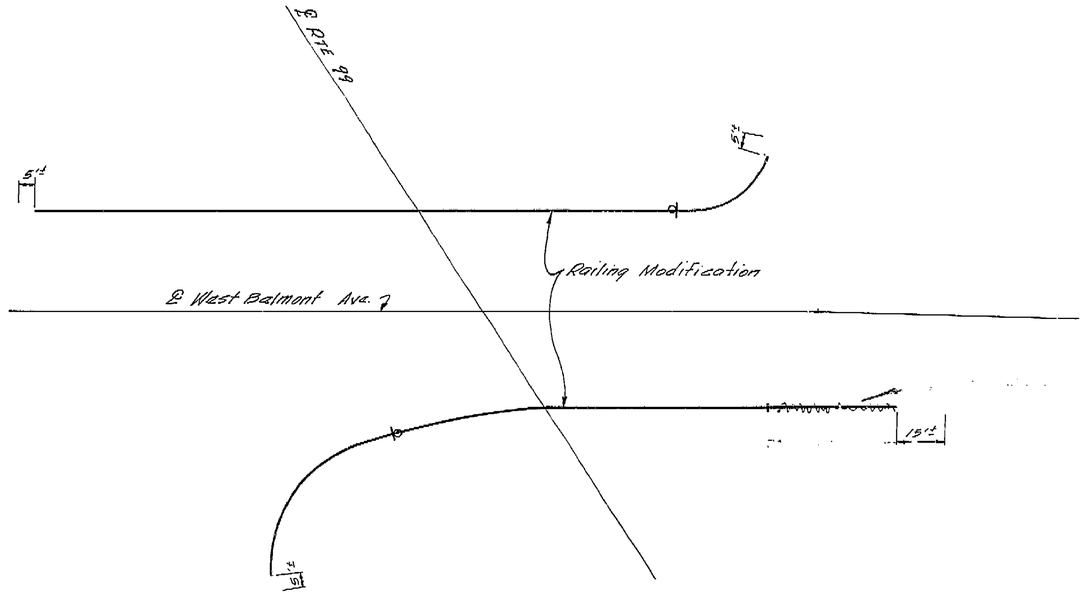
TYPICAL SECTION

INDEX TO PLANS

Sheet No.	Title
1	General Plan
2	Chain Link Railing Details.

APPROXIMATE QUANTITIES

REMOVE AND RESET ROADSIDE S. .	3 EA
MODIFY BRIDGE RAILING (LOCATIO. .	441 LF



PLAN

① = Existing electrolier with 4 signs. Remove & raise existing signs, reset by strap and saddle bracket method, 6" above chain link railing.

AS BUILT PLANS
Contract No. 06-127904
Date Completed 12-73
Document No. 6 CM 2092

AS BUILT PLANS
Contract No. 06-127904
Date Completed 7-18-74
Document No.

BRIDGE DEPARTMENT
*** DESIGN SECTION *** 13
Section Supervisor: R. Woolcott
Project Engineer: Joel Tanuto

DESIGN	(W)	W. Louie	3/73	Checked	J. Tanuto 7-73
DETAILS	BY	W. Louie	3/73	Checked	J. Tanuto 7-73
LAYOUT	BY	W. Louie	3/73	Checked	J. Tanuto 7-73
QUANTITIES	BY	W. Louie	7/73	Checked	J. Tanuto 7-73
SPECIFICATIONS	BY	R. Beplat	1/74	Prepared Spec. Checked	

Approved Recommended by: Senior Engineer — Registered Civil Engr. License No. 8013

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

BELMONT AVENUE OVERCROSSING
RAILING MODIFICATION
GENERAL PLAN

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-186	22.74		1	2

WO 127901
CU 06351

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 9-25-74 SIGNATURE

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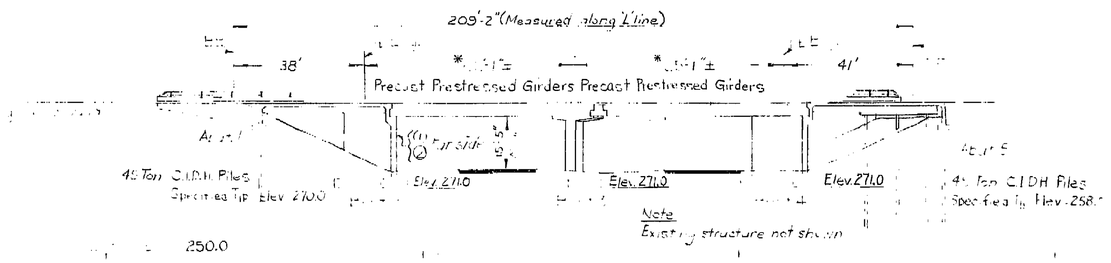
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06	Fre	99		18	31

BRIDGE ENGINEER — REGISTERED CIVIL ENGINEER NUMBER 8565

ASSISTANT STATE HIGHWAY ENGINEER — REGISTERED CIVIL ENGINEER NUMBER 8565

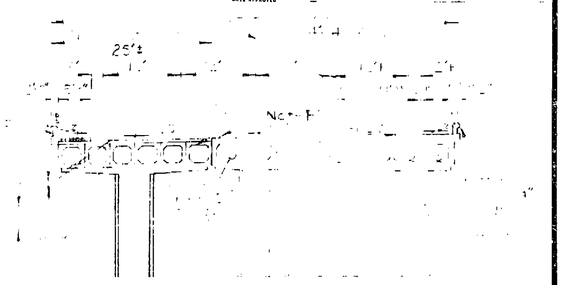
DATE APPROVED

* Alignment & location of bents to match that of the existing construction.



ELEVATION
1"=20'

Note
For location of utilities see "Utility Details sheet

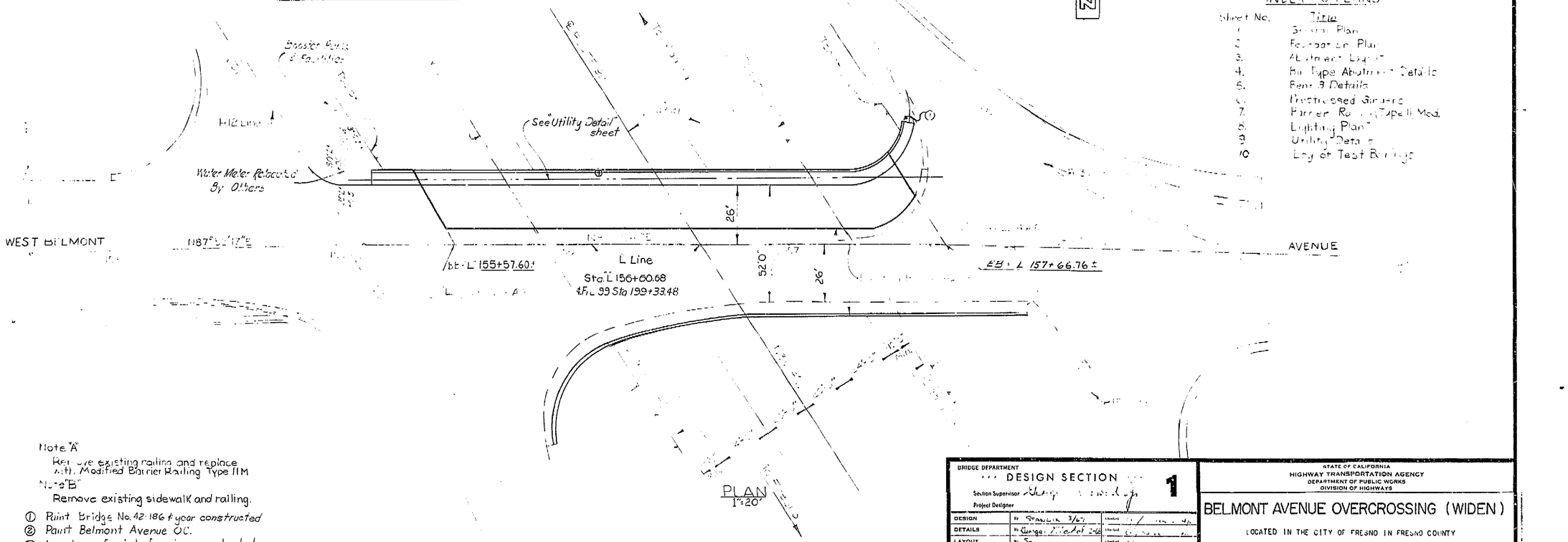


TYPICAL SECTION

AS BUILT PLANS
Contract No. ———
Date Completed ———
Document No. 60001066

INDEX TO PLANS

Sheet No.	Title
1	General Plan
2	Foundation Plan
3.	Abutment Layout
4.	Bin Type Abutment Details
5.	Bent 3 Details
6.	Prestressed Girders
7.	Barrier Rail (Type 11 Mod.
8.	Lighting Plans
9	Utility Details
10	Log of Test Borings



PLAN
1"=20'

Note "A"
Remove existing railing and replace with Modified Barrier Railing Type 11M

Note "B"
Remove existing sidewalk and railing.

① Point Bridge No. 42-186 to be constructed
② Point Belmont Avenue OC.
④ Location of point of minimum vertical clearance

Contractor to verify all dependent dimensions in field before ordering or fabricating materials

For Quantities & GENERAL NOTES SEE Foundation Plan

LIVE LOADING HS20-44 AND ALTERNATIVE

BRIDGE DEPARTMENT
DESIGN SECTION 1
Section Supervisor
Project Designer

DESIGN	By Stanley 3/67	Checked
DETAILS	By George Kindel 2-68	Checked
LAYOUT	By Stanley	Checked
QUANTITIES	By Stanley	Checked
SPECIFICATIONS	By [illegible]	Checked

Approval Recommended by — Registered Civil Engr. License No. 9439

STATE OF CALIFORNIA
HIGHWAY TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BELMONT AVENUE OVERCROSSING (WIDEN)

LOCATED IN THE CITY OF FRESNO IN FRESNO COUNTY

GENERAL PLAN

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-186	22.7	4218-1	1	10

WO

Disregard prints bearing earlier revision dates

REVISION DATES (PRELIMINARY STAGE ONLY)

5179-18

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE_____ SIGNATURE_____ TITLE_____

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SCALE 1"=50' 100 200 MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"=50' 500 0
SCALE 1"=20' 100 200 MICROFILM STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"=20' 300

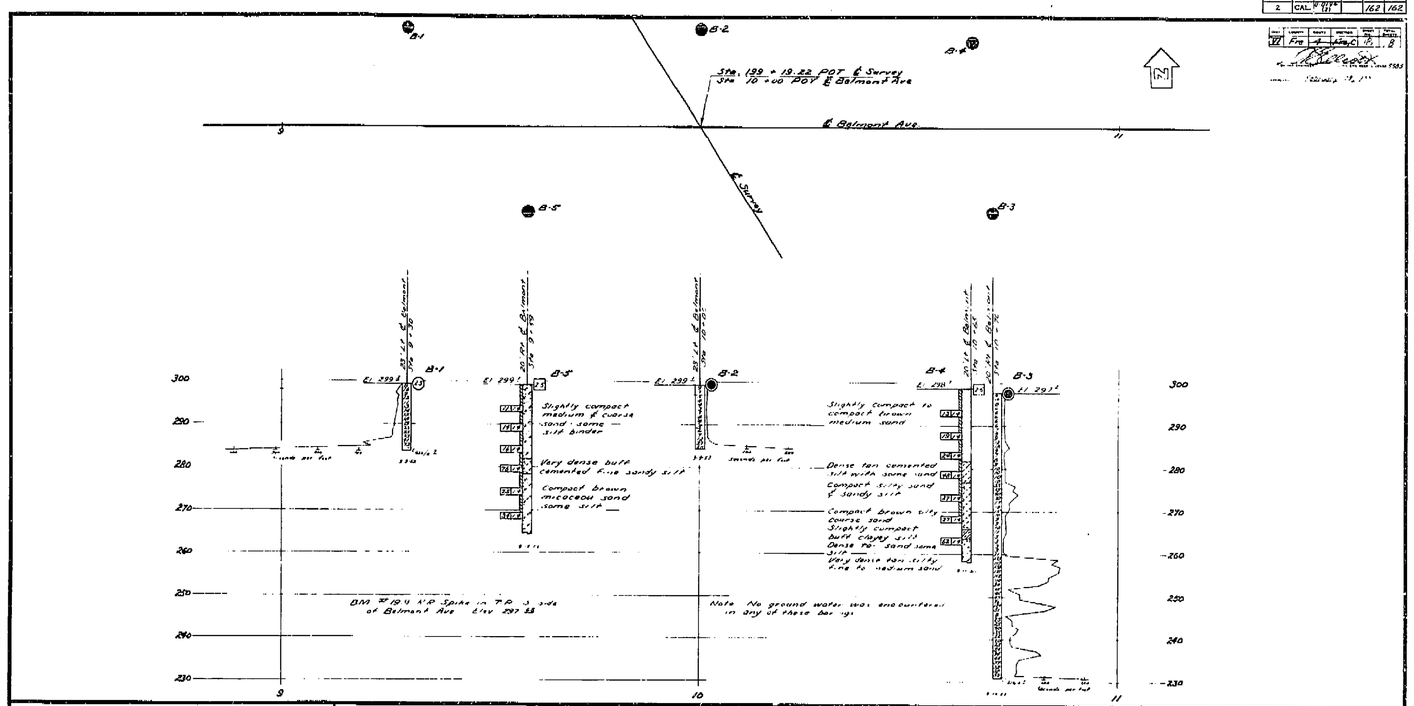
DIST	COUNTY	ROUTE	POST MILES– TOTAL PROJECT	SHEET NO	TOTAL SHEETS
06	Fre	99		27	31

BRIDGE ENGINEER — REGISTERED CIVIL ENGINEER NO 15685

DATE APPROVED

EFF. POST MILES	STATE	ROUTE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2	CAL.	99 & 99W		162	162

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12	Fre	4-Ora	12.1/12.8		



Classification of Material Based on Standard Grade Size Limits

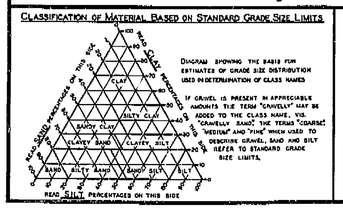


Diagram showing the basis for estimates of grade size distribution used in determination of class names

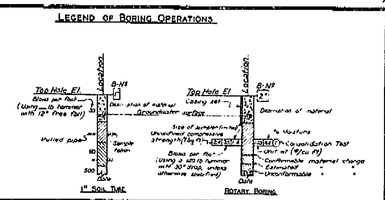
If gravel is present in appreciable amounts the term "gravelly" may be added to the class name, viz. "gravelly sand." The terms "coarse," "medium" and "fine" when used to describe gravel, sand and silt refer to standard grade size limits.

Legend of Earth Materials

- Gravel
- Sand
- Silt
- Clay
- Sandy Clay or Clayey Sand
- Sandy Silt or Silty Sand
- Silty Clay or Clayey Silt
- Peat and/or Organic Clay
- Filled Material
- Igneous Rock
- Sedimentary Rock
- Metamorphic Rock

Legend of Boring Operations

- Plan of any boring
- Penetrometer
- 2½" Cone penetrometer
- Sampler boring (dri)
- Rotary boring (wet)
- Auger boring (dry)
- Jet boring
- Core boring
- Test pit



Notes

The contractor's attention is directed to section 2, article (j) of the standard specifications and to the special provisions accompanying this set of plans. Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis. Penetrometer borings having a rate of penetration measured in seconds per foot are driven with a MP 2 Marienan-Terry air hammer at 115 psi

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

Belmont Avenue Overcrossing

LOG OF TEST BORINGS

SCALE 1"=10' | BRIDGE 42-186 | FILE | DRAWING 5-3417:8

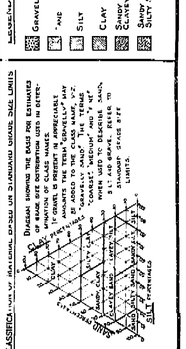
FIELD STUDY
DRAWN
CHECKED
Approved Recommended by

BRIDGE DEPARTMENT
ENGINEERING GEOLOGY SECTION

Classification of Earth Materials

Diagram showing the basis for estimates of grade size distribution used in determination of class names

If gravel is present in appreciable amounts the term "gravelly" may be added to the class name, viz. "gravelly sand." The terms "coarse," "medium" and "fine" when used to describe gravel, sand and silt refer to standard grade size limits.

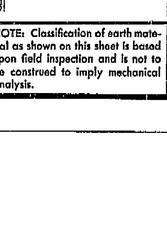


Legend of Earth Materials

- Gravel
- Sand
- Silt
- Clay
- Sandy Clay or Clayey Sand
- Sandy Silt or Silty Sand
- Silty Clay or Clayey Silt
- Peat and/or Organic Matter
- Fill Material
- Igneous Rock
- Sedimentary Rock
- Metamorphic Rock

Legend of Boring Operations

- Penetrometer
- 2½" Cone Penetrometer
- Sampler Boring (Dri)
- Rotary Boring (Wet)
- Auger Boring (Dry)
- Jet Boring
- Core Boring
- Test Pit



NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

AS BUILT PLANS
Contract No.
Date Completed
Document No. 6000 1066

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BELMONT AVENUE UNDERCROSSING

LOG OF TEST BORINGS

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-186		10		

REVISION DATES (PRELIMINARY STAGE ONLY)

WO 062201
CU 06202

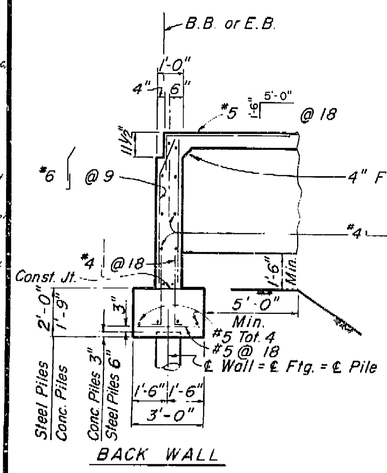
Disregard prints bearing earlier revision dates

5179-27

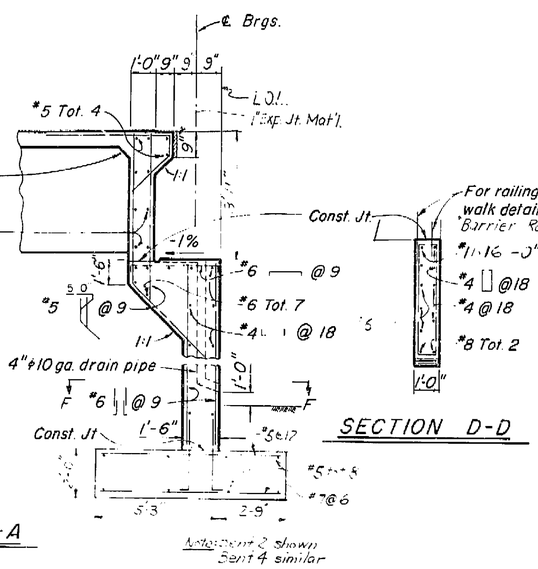
I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE_____ SIGNATURE_____ TITLE_____

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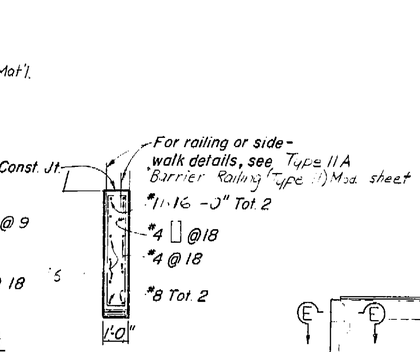


BACK WALL

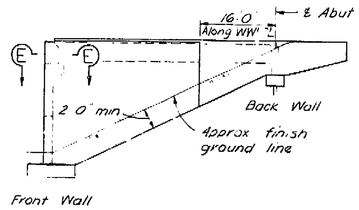


PART SECTION A-A

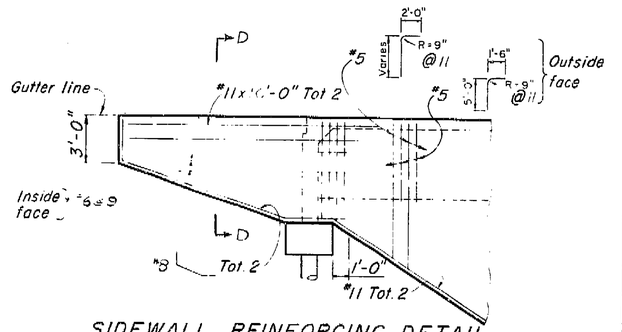
Abutment 2 shown
Sent 4 similar



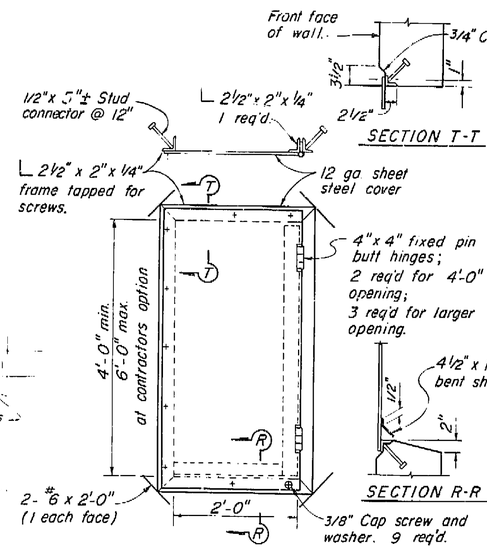
SECTION D-D



SIDE ELEVATION



SIDEWALL REINFORCING DETAIL



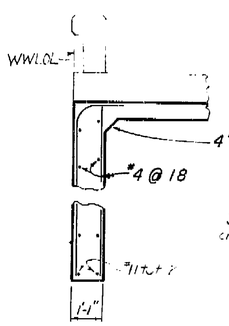
SECTION T-T

SECTION R-R

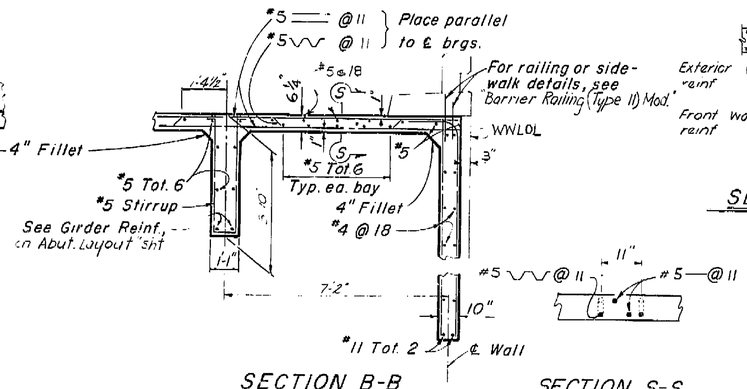
NOTES: Assemblies to be welded.
Galvanize after fabrication

ACCESS DOOR
Scale: 1" = 1'-0"

FRONT WALL

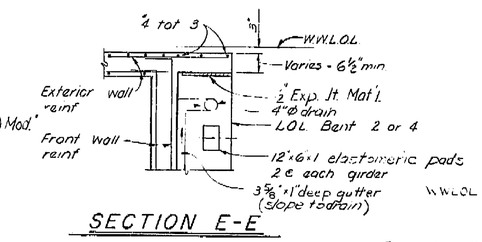


SECTION H-H

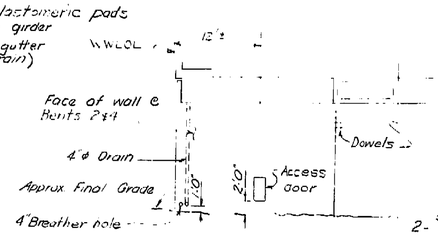


SECTION B-B

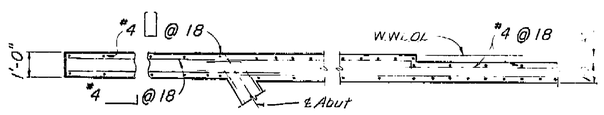
SECTION S-S



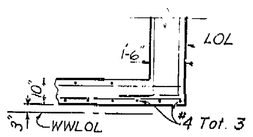
SECTION E-E



ACCESS DOOR LOCATION



SECTION THROUGH EXTERIOR WALL



SECTION F-F

Note: For location of Sections, see "Abutment Layout" sheet.

AS BUILT PLANS
Contract No.
Date Completed
Document No. 6000 1066

DIST	COUNTY	ROUTE	POST MILES-TOTAL PROJECT	SHEET NO.	OF
06	Fre	99		27	37

8/65 — STATE OF CALIFORNIA HIGHWAY TRANSPORTATION AGENCY DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS — XS-22-4

BELMONT AVENUE OVERCROSSING (WIDENING)

BIN TYPE ABUTMENT DETAILS

BRIDGE NO	POST MILE	DRAWING NO	SHEET	OF
42-186		4218-4	4	10

REVISION DATES (PRELIMINARY STAGE ONLY)

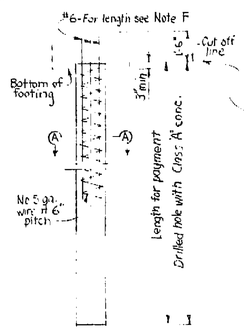
WO 06220!
WO CU 06202

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

5179-21

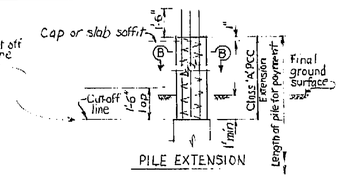
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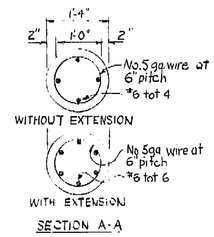
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CAST IN DRILLED HOLE CONCRETE PILE (No Scale)

CONCRETE TO BE PLACED IN DRY HOLE





Note F

The #6 bars shall extend a minimum of 12'-0" below the lowest of the following

1. Bottom of footing
2. Top of final ground surface
3. Top of original ground surface when piles are drilled through fill.

APPROXIMATE QUANTITIES

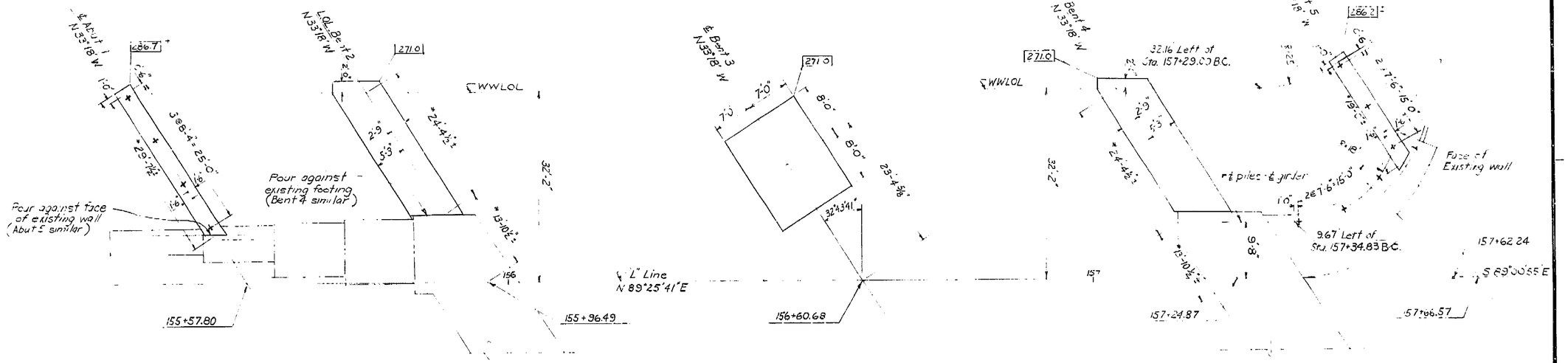
REMOVING PORTIONS OF BRIDGE	LUMP SUM
* STRUCTURE EXCAVATION (BRIDGE)	280 C.Y.
* STRUCTURE BACKFILL (BRIDGE)	180 C.Y.
16" C.I.D.H CONCRETE PILING	260 L.F.
FURNISHING PC/PS BOX GIRDERS (60' - 70')	12 EA.
ERECTING PC/PS CONCRETE GIRDERS	12 EA.
* CLASS "A" CONCRETE (BRIDGE)	345 C.Y.
REFINISHING BRIDGE DECK	1,060 S.F.
* BAR REINFORCING STEEL (BRIDGE)	77,000 LBS.
MISCELLANEOUS METAL (BRIDGE)	425 LBS.
BARRIER RAILING (TYPE 11 MOD'D)	234 L.F.
BARRIER RAILING (TYPE 11M MOD'D)	238 L.F.

* F[illegible]

DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99		19	31

BRIDGE ENGINEER — REGISTERED CIVIL ENGINEER NO. 5784

DATE APPROVED



PLAN
Scale 1/8"=1'-0"

GENERAL NOTES

Design: A.A.S.H.O. Dated 1961 with revisions and as supplemented by Bridge Planning and Design Manual

Reinforced Concrete: F_s = 20,000 P.S.I. N= 10
F_c = 1200 P.S.I.

Prestressed Concrete: See "Prestressed Girders" sheet.

Footing Pressure: (Tons P.S.F) Allowable: 2½ Design: 2½

Notch out existing footing as required prior to placing piles

* Contractor to verify all dependent dimensions in field before ordering or fabricating materials.

Bottom of footing Elevation shown thus: [illegible]

+ Denotes vertical pile

AS BUILT PLANS
Contract No. [illegible]
Date Completed [illegible]
Document No. 6000 1066

BRIDGE DEPARTMENT
DESIGN SECTION 1
Section Supervisor [illegible]

DESIGN	By STANLEY	3/67
	Checked	
DETAILS	By STANLEY	3/67
	Checked	
QUANTITIES	By STANLEY F.	
	Checked [illegible]	4/67

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BELMONT AVENUE OVERCROSSING
(WIDENING)

FOUNDATION PLAN

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-186	22.7	[illegible] 2	2	10

WO 062201
CU 06202

Disregard prints bearing earlier revision dates →

REVISION DATES (PRELIMINARY STAGE ONLY)

5179-19

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DATE [illegible] SIGNATURE [illegible] TITLE [illegible]

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DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99		25	31

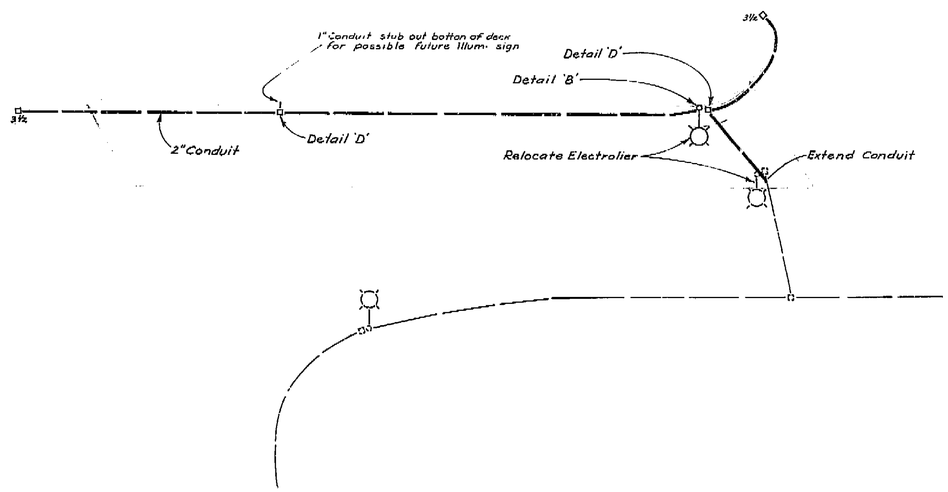
BRIDGE ENGINEER — REGISTERED CIVIL ENGINEER NUMBER 9868

ASSISTANT STATE BRIDGE ENGINEER — REGISTERED CIVIL ENGINEER NUMBER 9360

DATE APPROVED

2" Conduit

1" Conduit stub



For Additional Notes See Standard Plans

FOR GENERAL NOTES SEE

FOR LIGHTING NOTES AND ALTERNATIVE

BRIDGE DEPARTMENT — DESIGN SECTION 1

Section Supervisor

Project Designer

DESIGN	By STANCIK 3/67	Checked	4/67
DETAILS	By Ginger Tisdale 12-66	Checked	4/67
LAYOUT	By STANCIK	Checked	4/67
QUANTITIES	By STANCIK	Checked	4/67
SPECIFICATIONS	By	Plans and Spec. prepared	

Approval Recommended by — Design Engineer — Registered Civil Engr. License No. 9838

STATE OF CALIFORNIA
HIGHWAY TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BELMONT AVENUE OVERCROSSING (WIDEN)

LOCATED IN THE CITY OF FRESNO IN FRESNO COUNTY

LIGHTING PLAN

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-188	22.7	42186-P	8	10

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL RECOMMENDED BY	DATE
Tom Larson	2/67	R.S. Schalk Jr.	2/67	D.D. Waterhouse	2/67

WO C6222
C6223-1

Disregard prints bearing earlier revision dates →

REVISION DATES (PRELIMINARY STAGE ONLY)

3/6/67

5179-25

AS BUILT PLANS
Contract No.
Date Completed
Document No. 6000 1066

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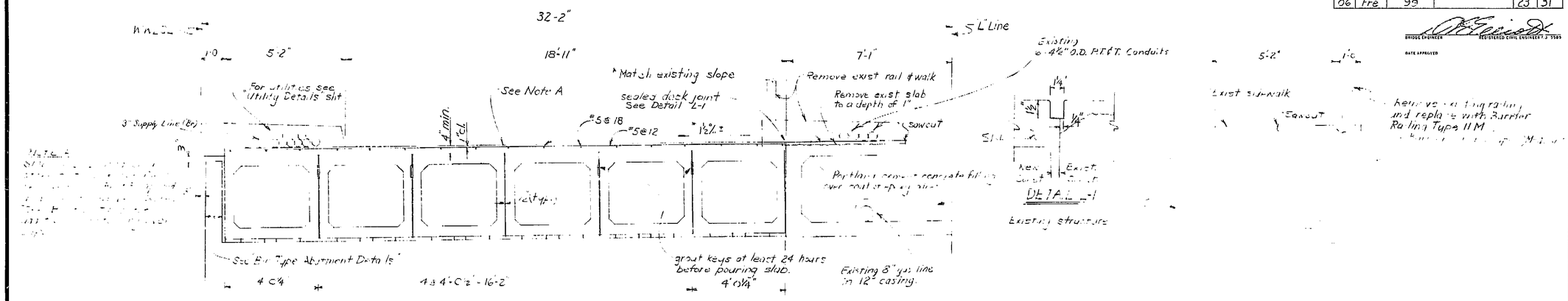
DATE _____ SIGNATURE _____ TITLE _____

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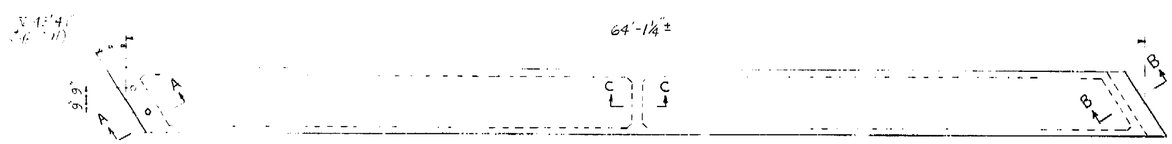
DIST.	COUNTY	ROUTE	POST MILES–TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99		23	31

BRIDGE ENGINEER — REGISTERED CIVIL ENGINEER J. 3589

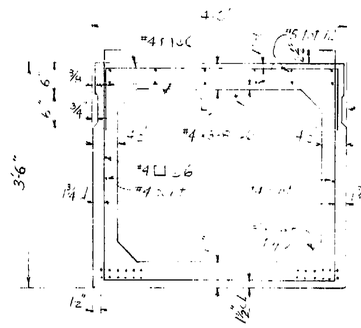
DATE APPROVED



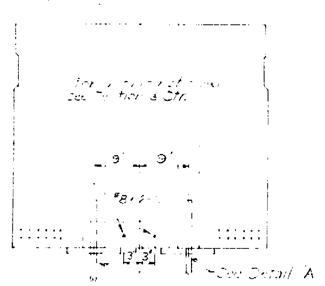
TYPICAL SECTION
Scale: ½"=1'-0"



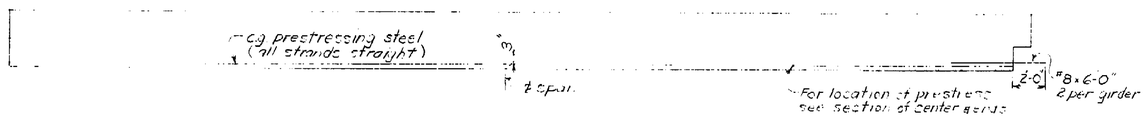
PLAN
Scale: ¼"=1'-0"



SECTION A CENTER
Scale: 1"=1'-0"



SECTION B ENDS
Scale: 1"=1'-0"



ELEVATION
Scale: ¼"=1'-0"

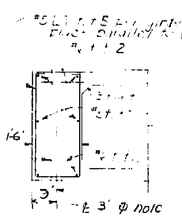
PRESTRESSING NOTES

Anticipated initial stress remaining after all losses including those due to creep and shrinkage at concrete and steel have occurred is
P_i 300 000 lbs per girder

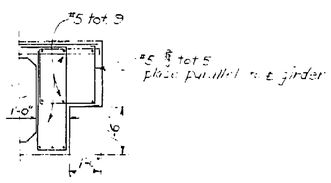
Concrete: f'_c 3500 psi
f'_{ci} 3500 psi (at time of stressing)

Prestressing Steel: See Special Provisions

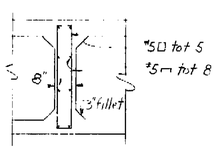
Deflections: Negligible



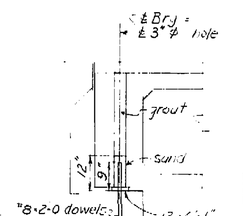
SECTION A-A
Scale: ½"=1'-0"



SECTION B-B
Scale: ½"=1'-0"



SECTION C-C
Scale: ½"=1'-0"



DETAIL A
Scale: ½"=1'-0"

AS BUILT PLANS
Contract No.
Date Completed
Document No. 6000 1966

BRIDGE DEPARTMENT
DESIGN SECTION 1
Section Supervisor

DESIGN	By STANLEY	3/96
	Checked	
DETAILS	By STANLEY	3/96
	Checked	
QUANTITIES	By STANLEY	
	Checked	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BELMONT AVENUE OVERCROSSING (WIDENING)

PRESTRESSED GIRDERS

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-186	22.7	42186-6	6	10

WO 062201
CU 06202

Disregard prints bearing earlier revision dates

REVISION DATES (PRELIMINARY STAGE ONLY)

5179-23

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DATE ____ SIGNATURE ____ TITLE ____

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Note: For details not shown see Section X X

DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99		20	31

BRIDGE ENGINEER — REGISTERED CIV. ENGINEER NO. 20515

DATE APPROVED

#6 cont - tot 4
#5 U @ 12
Remove exist curb
Ex st wall (modify as shown)
#6 cont - tot 4
For [illegible] see [illegible]
Verify actual fty. spac. locations
SECTION X-X
Scale: 1/2" = 1'-0"

#6 cont - tot 4
#5 U @ 12
4'-6"
Exist wall. (modify as shown)
#6 cont tot 4
2'-0"
2'-0" typ

L of B
L of A
#6 x 2'-6" dowels
grout
Bent 2
Bent 4
DETAIL F
Scale: 1" = 1'-0"

L of Abut 1
12'-0"
H
B
H - See Girder Reinforcement
B
L of Bent 2
Bearing Pads (Bent 4 similar)
WWLOL
L girders
7'-10"
7'-4"
7'-4"
9'-8"
Pour against exist structure (typical)

L of Bent 4
WWLOL
7'-10"
7'-4"
9'-8"
B
See Girder Reinforcement
B
L girders
N
X
Detail B
Detail A
X
N

Note
The total deflection will be reached about 4 years after falsework removal. For values at time of falsework removal see tracing shown by 3. The amount of camber for construction will be determined by the engineer.

L Line
N 89° 25' 41" E
155+96.49
157+24.87
Camber line
Profile line
.03'
1/4 span
.05
1/2 span
.03'
3/4 span
CAMBER DIAGRAM
Camber diagram for total girder deflection due to dead loads

SECTION Y-Y
Scale: 1/2" = 1'-0"
PLAN
Scale: 1/8" = 1'-0"

For details of thermal force see Utility Detail
Detail C

Bent 4 shown Bent 2 similar
#9 10'-0" tot 16
#6 stirrups @ 12" See Detail A
#9 10'-0" tot 16
Exist. rdwy.
VIEW Z-Z
Scale: 1/8" = 1'-0"

DETAIL B
Scale: 1" = 1'-0"

#6 cont tot 4
#5 U @ 12
#6 tot 6
#11 cont tot 2
SECTION V-V
Scale: 1" = 1'-0"

WWLOL
#11 cont tot 2
DETAIL C
Scale: 1" = 1'-0"

Note
For section [illegible] see Bent Type Details & Details

#5 U @ 12
2'-0"
DETAIL D
Scale: 1" = 1'-0"

girder reinf
#6 tot 6 see Section Y-Y
Pile
Diagonal centerline

℄ Bearing
Abuts 2 & 4
4" Ø cast in bars)
2 @ 11'-3" O (bottom)
2 @ 11'-2" O (bottom)
℄ Abuts. 1 & 5
℄ Span
W
W
16
10
10
16
3
3
4 @ 12
4 @ 9
#5 U stirrups
#6 tot 6
#5 U
3'-10"
1'-4"
3"
c c
b b
a a
SECTION W-W
Scale: 1/2" = 1'-0"

BOTTOM GIRDER REINFORCEMENT
No Scale
Note: Reinforcement is typical except as otherwise shown.

AS BUILT PLANS
Contract No.
Date Completed
Document No. 62202/062

BRIDGE DEPARTMENT
DESIGN SECTION 1
Section Supervisor: Gilbert C. Hall

DESIGN	By STANCIK 3/67	Checked
DETAILS	By STANCIK 3/67	Checked
QUANTITIES	By STANCIK	Checked

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BELMONT AVENUE OVERCROSSING (WIDENING)

ABUTMENT LAYOUT

BRIDGE NO.	POST MILE	DRAWING NO	SHEET	OF
42-186	22.7	42186-3	3	10

REVISION DATES (PRELIMINARY STAGE ONLY)

Disregard prints bearing earlier revision dates →

WO 062201
CU 06202

5179-20

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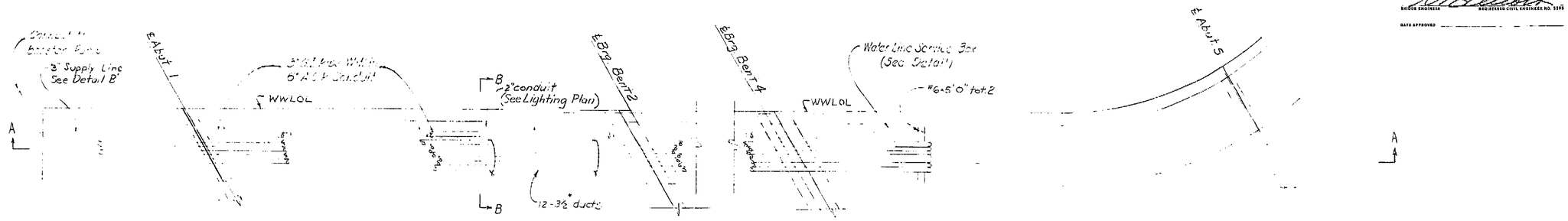
DATE _____ SIGNATURE _____ TITLE _____

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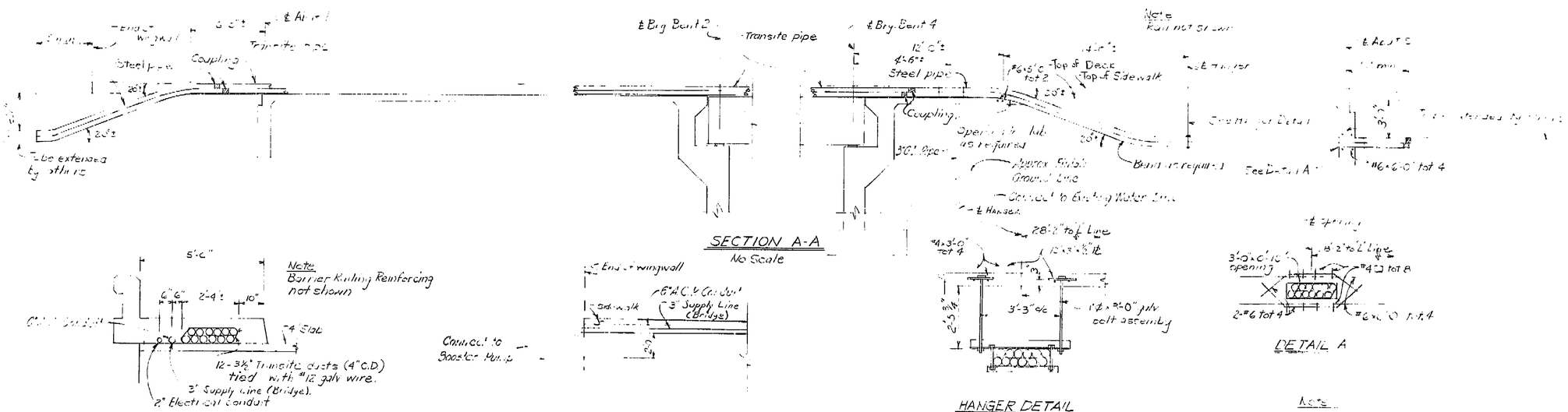
DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99		26	31

BRIDGE ENGINEER — REGISTERED CIVIL ENGINEER NO. 5598

DATE APPROVED _____



PLAN - NORTH SIDEWALK
No Scale



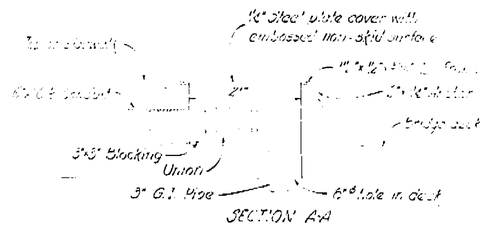
SECTION A-A
No Scale

DETAIL A
No Scale

HANGER DETAIL
Scale: ½" = 1'-0"

SECTION B-B
Scale: ½" = 1'-0"

DETAIL B
No Scale





WATER LINE SERVICE BOX
Scale: 1"=1'-0"

AS BUILT PLANS
Contract No. _____
Date Completed _____
Document No. 60001066

BRIDGE DEPARTMENT
DESIGN SECTION 1
Section Supervisor: Copeland

DESIGN	By STANCLIK	4/67
	Checked	
DETAILS	By STANCLIK	4/67
	Checked	
QUANTITIES	By STANCLIK	
	Checked	

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BELMONT AVENUE OVERCROSSING WIDENING

UTILITY DETAILS

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42186-	22.7	42186-9	9	10

WO 062201
CU 06202

Disregard prints bearing earlier revision dates →

REVISION DATES (PRELIMINARY STAGE ONLY)

5179-26

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

ClibPDF - www.fastio.com

Dist.	County	Route	Post Miles—Total Project	Sheet No.	Total Sheets
06	Fre	99		22	31

PROJECT ENGINEER — REGISTERED CIVIL ENGINEER NO 5985

DATE APPROVED

Note
Rail & Girders not shown

a bars @ 6" cont
b bars × 26'-0"
c bars × 24'-0"
d bars × 22'-0"
e bars × 20'-0"
f bars × 18'-0"
all bars are #14
Numbers @ ends of bars indicate distance in feet from ℄ Col.

See Detail A

PLAN

℄ Bent

See Longitudinal Slab Reinforcement

For slab details see "Prestressed Girder" sheet

SECTION A-A

DETAIL A
1½" Scale

Place stirrups normal to ℄ Bent

Note
Existing structure not shown

Note
All scales 3/8" 1'0" unless noted otherwise.

#11 dowels - tot 28

ELEVATION

SECTION B-B

SECTION C-C

Note
All bars are #8
Numbers at ends of bars indicate distance in feet from ℄ Bent 3

LONGITUDINAL SLAB REINFORCEMENT
Typical for each girder

SECTION E-E

FOOTING PLAN

AS BUILT PLANS
Contract No. _____
Date Completed _____
Document No. 6000 1066

BRIDGE DEPARTMENT
DESIGN SECTION 1
Section Supervisor _____

DESIGN	by STANGLE 3/66	
	Checked	
DETAILS	by STANGLE 3/66	
	Checked	
QUANTITIES	by STANGLE 3/66	
	Checked	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BELMONT AVENUE OVERCROSSING (WIDENING)

BENT 3 DETAILS

Bridge No.	Post Mile	Drawing No.	Sheet	Of
42-186	22.7	42186-5	5	10

WO 062201
CU 06202

Disregard prints bearing earlier revision dates →

Revision Dates (Preliminary Stage Only)								

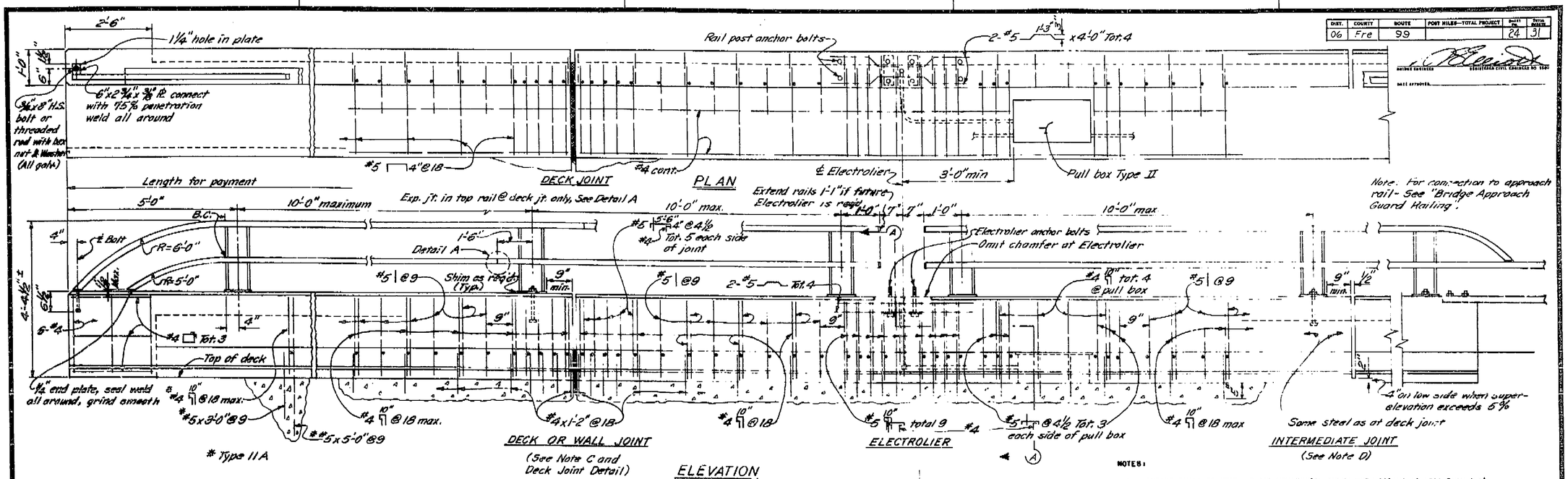
5179-22

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

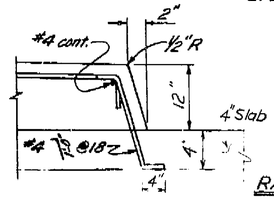
DATE_____ SIGNATURE_____ TITLE_____

ClibPDF - www.fastio.com

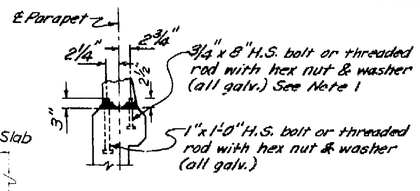
DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99		24	31



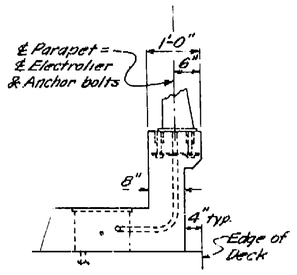

TYPE 11M



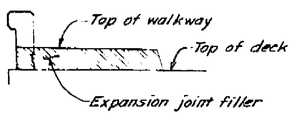
CURB DETAIL



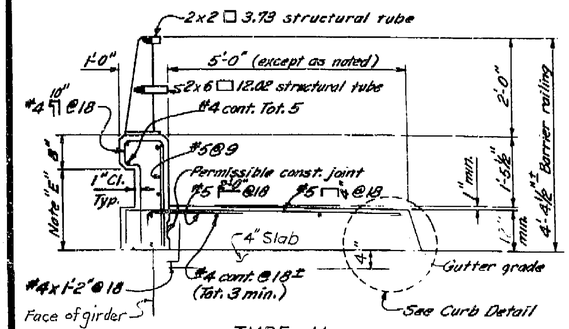
RAIL POST ANCHOR BOLT DETAIL



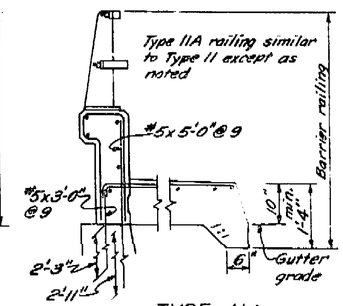
SECTION A-A



DECK JOINT DETAIL



TYPE 11



TYPE 11A

Concrete: 6.13 cu. ft. per lineal foot
Reinforcing: 17.8 lbs. per lineal foot
For 5'-0" width and 1½% deck cross-slope
Concrete: 6.51 cu. ft. per lineal foot
Reinforcing: 24.7 lbs. per lineal foot

NOTES:

A. TUBING SHALL BE BENT TO FIT HORIZONTAL CURVE WHEN RADIUS IS LESS THAN 950'.

B. POSTS SHALL BE NORMAL TO RAILING.

C. CURBS AND RAIL JOINTS SHALL BE LOCATED AT ALL DECK JOINTS. JOINT SIZE TO MATCH ACTUAL WIDTH OF DECK OPENING, SLEEVE IN RAILING JOINT TO BE LENGTHENED AS REQUIRED.

D. OPEN INTERMEDIATE CURB AND RAIL JOINTS SHALL BE LOCATED AT ℄ OF PIERS, ABUTMENTS OR BENTS AND AT UNIFORM SPACING (40'-0" MAX.)

E. DIMENSION WILL VARY WITH CROSS SLOPE.

F. CONSTRUCT 3" DEEP X 12" WIDE OVERFLOW SCUPPER 2" ABOVE DECK AT LOW POINTS IN GRADE.

G. WALLS ARE TO BE BACKFILLED BEFORE RAILING IS PLACED.

H. CLEARANCE TO REINFORCING STEEL IN CURB AND RAILING TO BE 1". LONGITUDINAL REINFORCEMENT TO STOP AT ALL JOINTS.

I. ANCHOR BOLTS SHALL BE HIGH STRENGTH CONFORMING TO ASTM DESIGNATION A325 (GALV.) HIGH STRENGTH RODS THREADED BOTH ENDS WITH 2 NUTS AND WASHERS (ALL GALV.) MAY BE SUBSTITUTED FOR HIGH STRENGTH ANCHOR BOLTS. NUTS TO BE WRENCH TIGHT.

J. STUD BOLT STEEL SHALL BE ASTM A108.

K. TORQUE RAIL TO POST NUTS TO 175 FT. LBS.

L. TUBING SHALL BE CONTINUOUS OVER NOT LESS THAN 2 INTERMEDIATE POSTS, WITH A MINIMUM LENGTH OF 2 PANELS, EXCEPT AS NOTED.

M. ALL EXPOSED CORNERS SHALL BE GROUND SMOOTH.

N. GALVANIZE RAIL ASSEMBLY AFTER FABRICATION.

O. LOCATE PULL BOX NEAR MID-POINT BETWEEN POSTS, BUT NOT IN SAME PANEL AS DECK JOINTS OR ELECTROLIERS.

P. FOR LOCATION OF UTILITIES SEE "UTILITY DETAIL SHEET"

AS BUILT PLANS
Contract No. ———
Date Completed ———
Document No. 6000 1066

BRIDGE DEPARTMENT
DESIGN SECTION
Section Supervisor

DESIGN	by STANLEY	Checked
DETAILS	by STANLEY	Checked
QUANTITIES	by STANLEY	Checked

3/67

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

XS-9-86

BELMONT AVENUE VIRGINIA WIDENING

BARRIER RAILING (TYPE 11) MOD.

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-186			7	15

REVISION DATES (PRELIMINARY PLANS ONLY)

Disregard prints bearing earlier revision dates →

WO
CU

5179-24

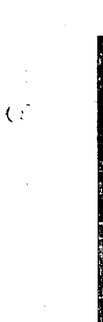
I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

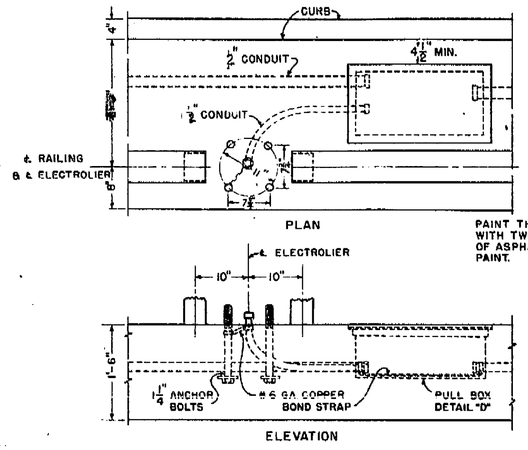
DATE _____ SIGNATURE _____ TITLE _____

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BRIDGE DEPARTMENT

DESIGN 7 SECTION

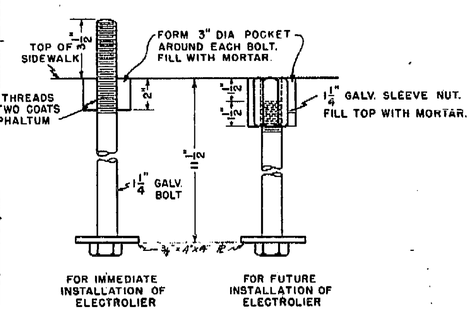




TYPICAL ELECTROLIER BASE — DETAIL "A"

SCALE: 1" = 1'-0"

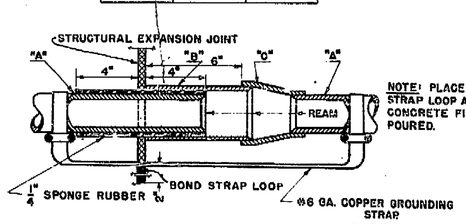
EXCEPT AS NOTED IN LIGHTING PLAN, ANCHOR BOLTS SHALL BE ARRANGED FOR IMMEDIATE ELECTROLIER INSTALLATION.



ANCHOR BOLTS

SCALE: 3" = 1'-0"

A	B	C
1½"	2½"	2½" — 1½"
2"	3"	3" — 2"

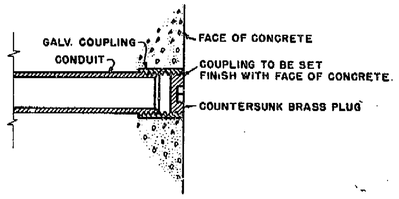


NOTE: PLACE BOND STRAP LOOP AGAINST CONCRETE FIRST POURED.

EXPANSION JOINT FITTING — DETAIL "Y"

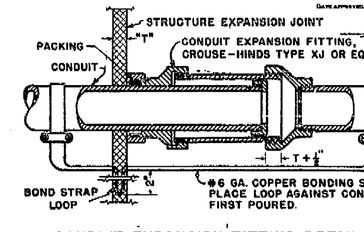
SCALE: 3" = 1'

2" CONDUIT SHOWN. CONSTRUCTION SIMILAR FOR OTHER SIZE CONDUIT. GALVANIZE FITTING AFTER FABRICATION.

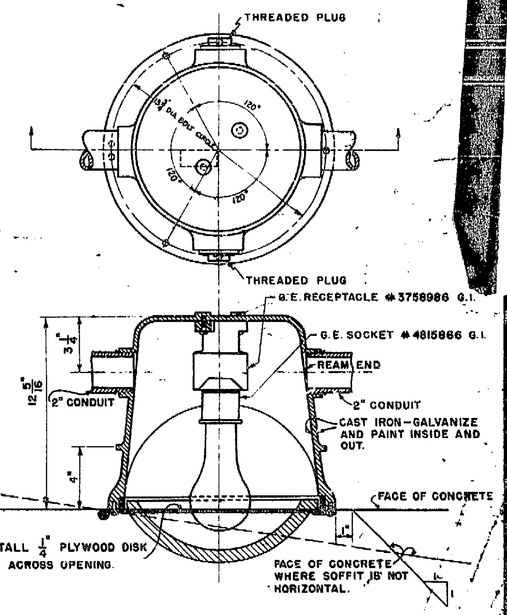


CONDUIT STUB — DETAIL "C"

NOT TO SCALE



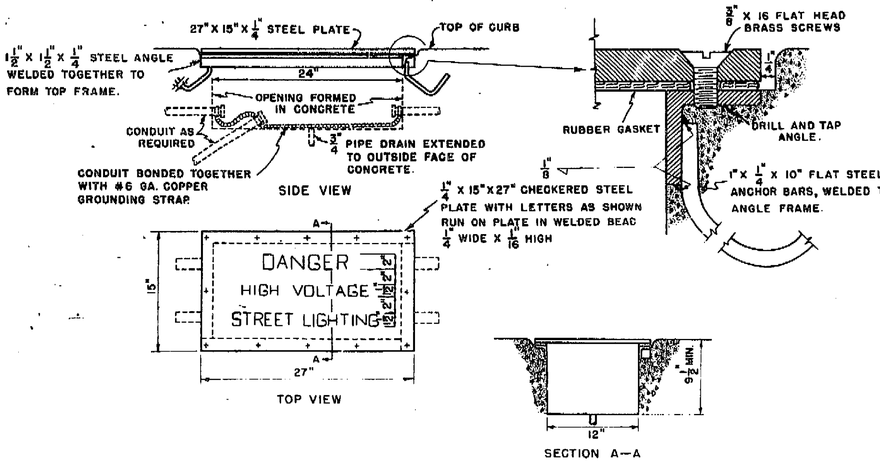
CONDUIT EXPANSION FITTING — DETAIL "X"



RECESS SOFFIT LIGHT — DETAIL "E"

SCALE: 1" = 1"

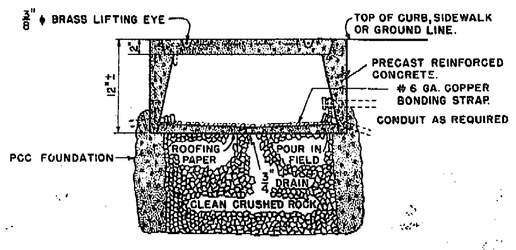
HOLOPHANE #16545 UNLESS OTHERWISE SPECIFIED. FIXTURE TO BE INSTALLED WITH AXIS VERTICAL AND LIGHT DIRECTED TOWARDS CENTER OF ROADWAY.



NOTE: FRAME AND COVER TO BE GALVANIZED AFTER FABRICATION.

TYPICAL BRIDGE PULL BOX — DETAIL "D"

SCALE: 1½" = 1'-0"



PULL BOX — DETAIL "B"

PRECAST CONCRETE BOX AND COVER SHALL BE FRAZER CEMENT PRODUCTS CO. CONCRETE PULL BOX OR EQUAL.

FED. ROAD DIV. NO.	STATE	PROJ. NO.	SHEET NO.
7	CAL.	U-2128	

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.
VI	Fre			

E. T. Scott
DISTRICT ENGINEER

DATE APPROVED: February 28, 1955

No Correction Hoerchner 56-6TC1 DT 1/27/57 gp 9/14/79

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BELMONT AVENUE OVERCROSSING

STANDARD ELECTRICAL DETAILS — BRIDGE

SCALE AS NOTED | BRIDGE 42-186 | FILE | DRAWING D-3469-16

PREL. DRAWING NO. P-3467

AS BUILT PLANS
Contract No. 56-6TC1
Date Completed
Document No. 60000990

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 1-30-80 SIGNATURE Joseph M Carter TITLE SUPERVISOR OF MICROFILM SERVICES

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Revised 7-52 R.A.
Detail E-3 Removed
4" S.W. Riser, Place Construction Joints, 6-54 B.J.C.

FED. ROAD DIST. NO.	STATE		FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2	CAL.	(TRD) NO. (2)		161	162

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre			19	19

Civil Engineer-License Expires
Approved February 28, 1955

STANDARD DRAWING

	Initial	Date
Design		
Detail	P.A	1-50
Check		
Quant		
Check		

Supervised:

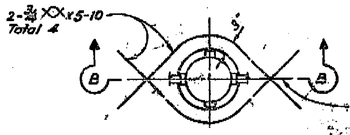
STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS
BRIDGE DEPARTMENT

DESIGN 7 SECTION

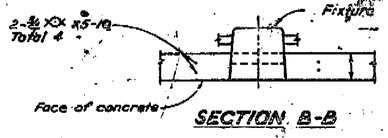
Revised							
Details							
Quantities							
Specifications							
Approved for Construction							

Submitted for Approval: [illegible]
Approved for Construction: [illegible]

ADDED REINFORCEMENT



SECTION B-B

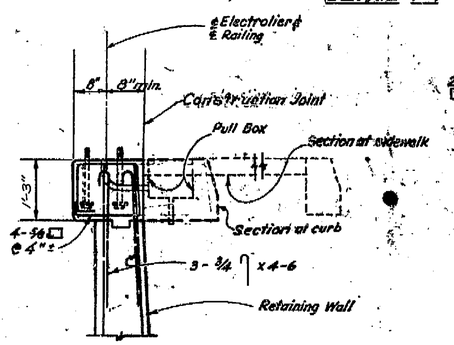


RECESSED SOFFIT LIGHT

DETAIL F-1

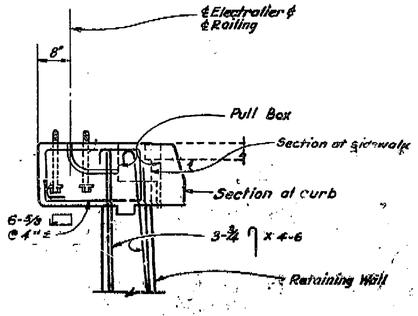
SECTION A-A

DETAIL R-2

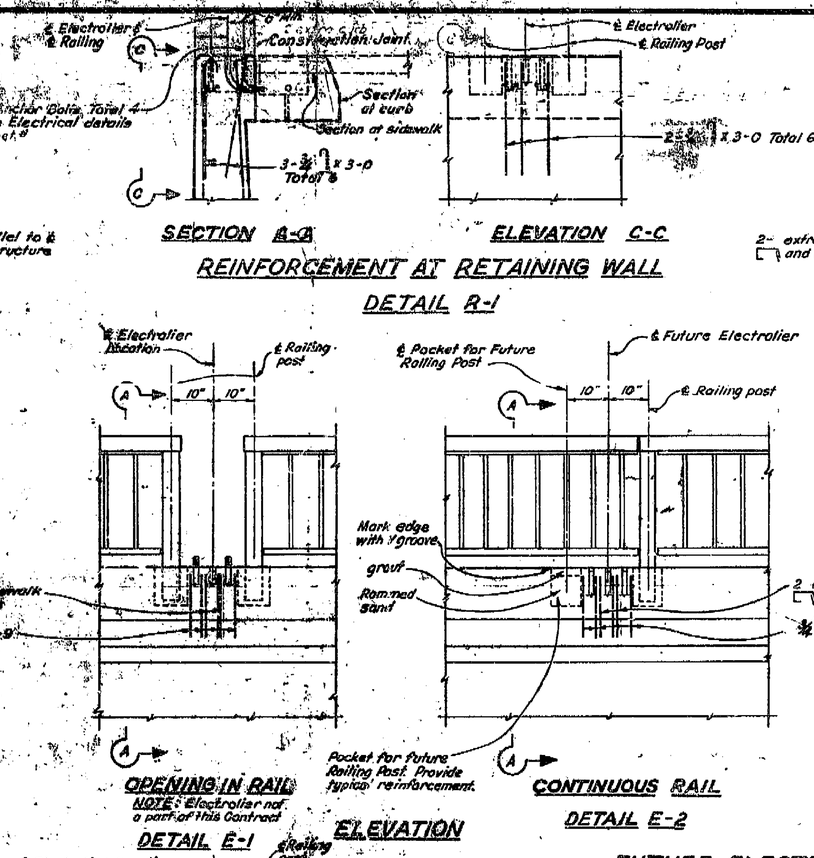


SECTION A-A

DETAIL R-2



REINFORCEMENT AT RETAINING WALLS



SECTION A-A

ELEVATION C-C

REINFORCEMENT AT RETAINING WALL

DETAIL R-1

OPENING IN RAIL

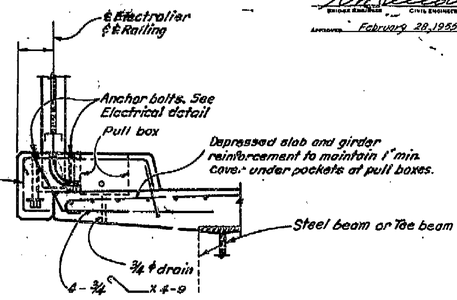
NOTE: Electrolier not a part of this Contract

DETAIL E-1

CONTINUOUS RAIL

DETAIL E-2

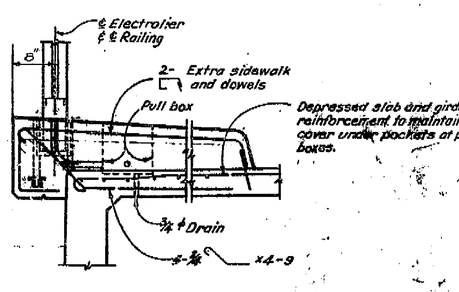
ELEVATION



PART SECTION A'-A'

DETAIL E-5

NOTE: Sections A'-A' taken at identical location with Sections A-A as Shown.



PART SECTION A-A

DETAIL E-4

CLOSURE IN RAIL

DETAIL E-3

FUTURE ELECTROLIER DETAILS

FOR STEEL RAILS

NOTE:
For electrolier locations see "Lighting Plan"

Where ½" expansion joint material is called for in curbs or sidewalks at midspans and over ℄ piers, locate joints 2' min. from ℄ Electroliers.

For Electrical details see "Standard Electrical Details - Bridge"

For further detail of Railing see "Steel Railing"

AS BUILT NO CORRECTION
CORRECTIONS BY Heerdner
CONTRACT NO. 56-6TC1
DATE 1/22/57 JD 9/14/59

DESIGN SECTION 7
PROJECT DESIGNER [signature]

PREL. DRAWING NO. P 3469 [illegible]

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BELMONT AVENUE OVERCROSSING

LIGHTING REINFORCEMENT

SCALE As Noted | BRIDGE 42-156 | FILE 7S-G-5 | CONTRACT C 3469-17

AS BUILT PLANS
Contract No. 56-6TC1
Date Completed
Document No. 60000990

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 1-30-[illegible] SIGNED Joseph M. [illegible] TITLE SUPERVISOR OF HIGHWAY PLANS

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FED. ROAD DIV. NO.	STATE	PROJ. NO.	FEDERAL PROJ. NO.	SHEET NO.	TOTAL SHEETS
7	CAL.	07-0156 (2)		159	162

CONT.	COUNTY	ROUTE	SECTION	CONST. CONTR. NO.	FEDERAL AID PROJECT NO.
VI	FRE	[illegible]		79	[illegible]

E. T. Scott
DISTRICT ENGINEER
DATE APPROVED February 28, 1955
TRAFFIC ENGINEER
CIVIL ENGINEER LICENSE NO. 5429

BRIDGE DEPARTMENT

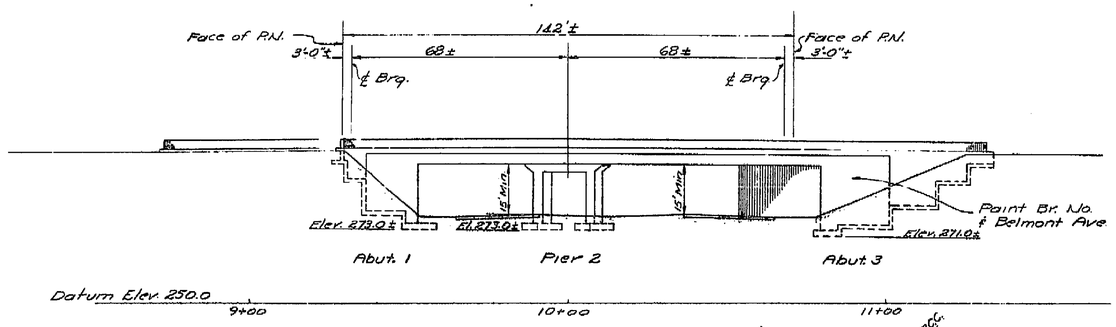
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600 V.C.

+1.14 %

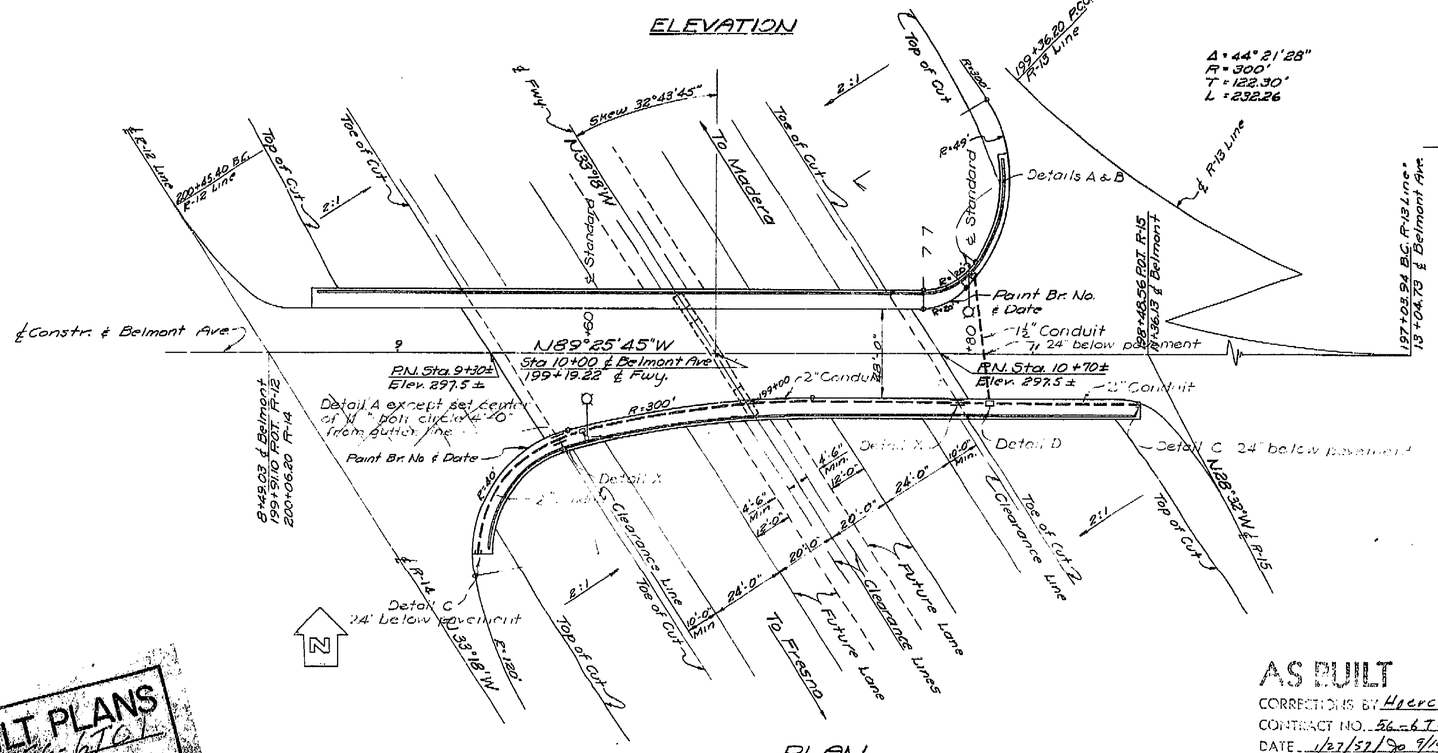
6450 B.V.C.
E'lev 295.77

-1.10 %

PROFILE GRADE

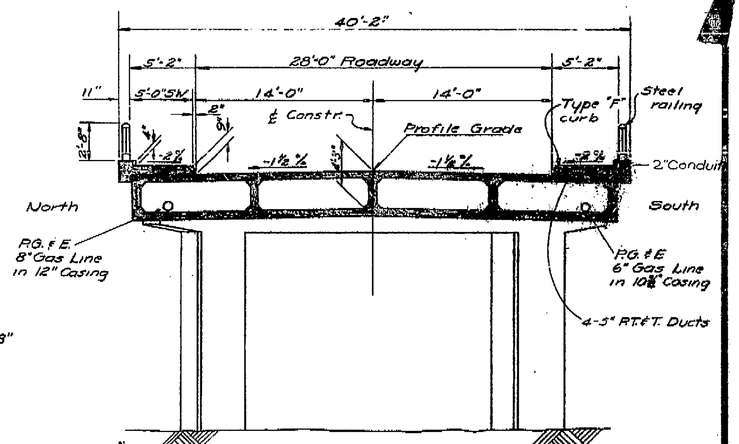


ELEVATION



PLAN

Note: This plan accurate for lighting only



TYPICAL SECTION
Scale 1"=5'-0"

LEGEND

- Conduit, size indicated
- Conduit expansion joint, Detail "X"
- Pull box, Detail "B" or "D" as indicated
- Conduit stub, Detail "C"
- Standard and luminaire

AS BUILT
CORRECTIONS BY Haverchner
CONTRACT NO. 56-617C1
DATE 1/27/52 2/20 9/14/79

Live Loading = H-20-S-16-44

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BELMONT AVENUE OVERCROSSING
LOCATED APPROX. 0.6 MILES WEST OF BELMONT TRAFFIC CIRCLE

LIGHTING PLAN

Except as noted SCALE 1"=20' | BRIDGE 42-186 | FILE | DRAWING C-3469-15

PREL. DRAWING NO. P-3469 | * | 29 | 46 | 64

Submitted by
DESIGN: By Drl. C. Dated 2/27
DETAILS: By Chkd. 2/28
QUANTITIES: By Dated
SPECIFICATIONS: By Dated
Approved Recommended by Engineer of Design
Chief Engineer
Chief Bridge Engineer
Chief Engineer

AS BUILT PLANS
Contract No. 56-617C1
Date Completed 9-14-79
Document No. 6-0080-990

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.
DATE 11-80 SIGNATURE [signature] TITLE SUPERVISOR OF MICROFILM SERVICES

ClibPDF - www.fastio.com

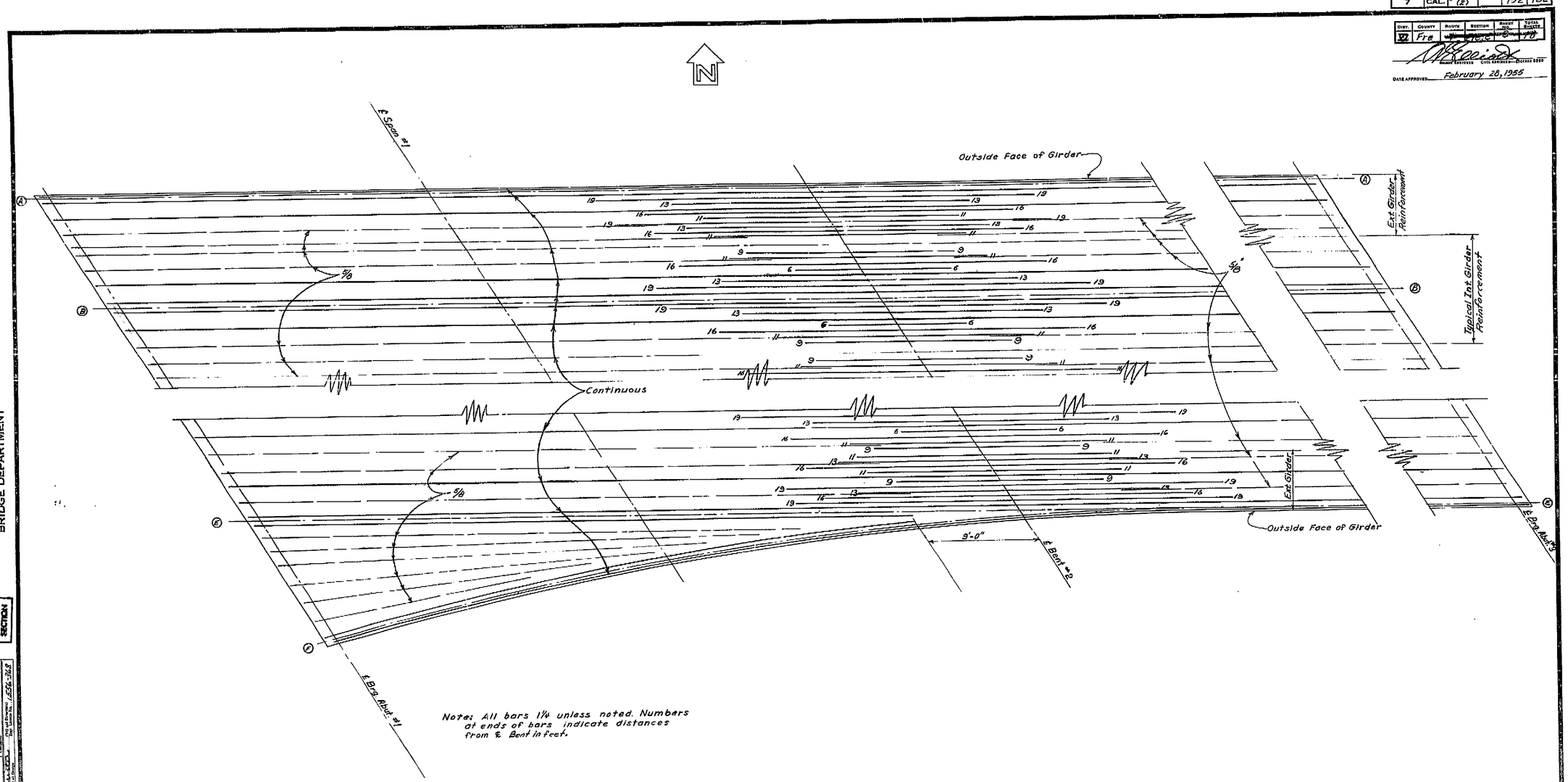
FED. ROAD DIV. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
7	CAL.	U-8194 (2)		152	162

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
07	Fre	[illegible]	[illegible]	[illegible]	170

DATE APPROVED February 28, 1955

BRIDGE DEPARTMENT

DESIGN 7 SECTION



Note: All bars 1¼ unless noted. Numbers at ends of bars indicate distances from ℄ Bent in feet.

Submitted by [illegible]

		Checked	Date
DESIGN	by [illegible]	[illegible]	[illegible]
DETAILS	by [illegible]	[illegible]	[illegible]
QUANTITIES	by [illegible]	[illegible]	[illegible]
SPECIFICATIONS	by [illegible]	[illegible]	[illegible]

Approval Recommended [illegible] Chief, Design Section

Approved [illegible] Bridge Engineer

Plot set Stamped [illegible]

NO AS BUILT CHANGES

AS BUILT

CORRECTIONS BY Hoerchner

CONTRACT NO. 56761

DATE 1-2-57

DESIGN SECTION 7

PROJECT DESIGNER [illegible]

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BELMONT AVENUE OVERCROSSING

TOP GIRDER REINFORCEMENT

SCALE ¼" = 1'-0" | BRIDGE 42-186 | FILE | DRAWING C-3469-8

PREL. DRAWING No. P. 3469

AS BUILT PLANS
Contract No. 56-67C1
Date Completed
Document No. 60000990

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 1-30-80 SIGNATURE Joseph M Cota TITLE SUPERVISOR OF MICROFILM SERVICES

DAS-55-78

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MICROFILM
SCALE 1" = 20' 30' 40' 50' 60' 70' 80' 90' 100' 200' 300'
ClibPDF - www.fastio.com

FED. ROAD DIV. No.	STATE	PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
7	CAL.	D-0198 (2)		153	162

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VD	Fre	[illegible]	[illegible]	9	175

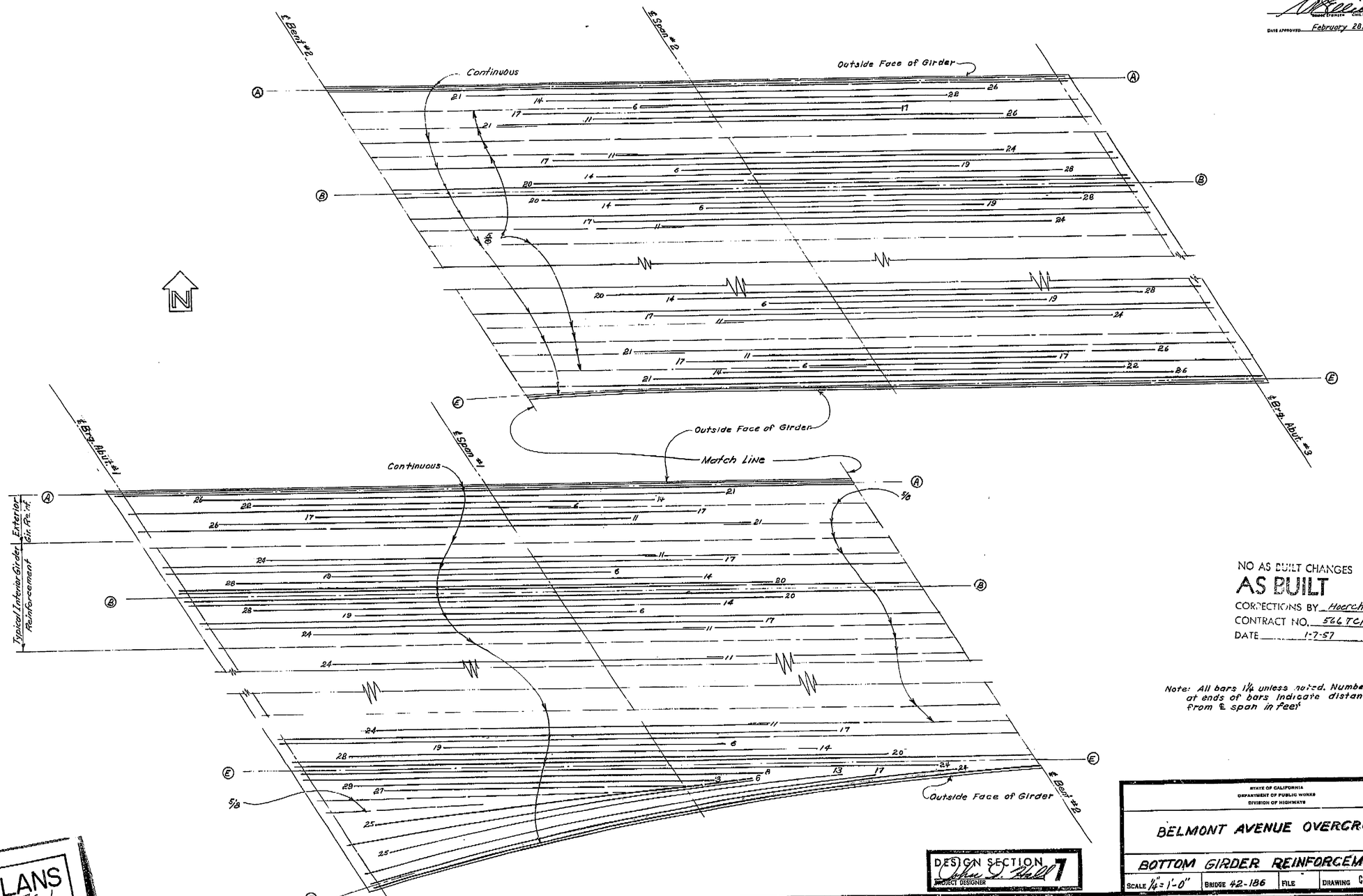
DATE APPROVED February 28, 1955

BRIDGE DEPARTMENT

DESIGN 7 SECTION

Submitted by	By	Date	Checked	Date	Sheet Nos.
DETAILS	By	Date	Checked	Date	Sheet Nos.
QUANTITIES	By	Date	Checked	Date	Sheet Nos.
SPECIFICATIONS	By		Checked		Sheet Nos.

Approved for Structure No. 42-186 by [illegible]



NO AS BUILT CHANGES

AS BUILT

CORRECTIONS BY Hoerchner

CONTRACT NO. 56 TC1

DATE 1-7-57

Note: All bars 1¼ unless noted. Numbers at ends of bars indicate distances from ℄ span in feet.

DESIGN SECTION 7

PROJECT DESIGNER

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BELMONT AVENUE OVERCROSSING

BOTTOM GIRDER REINFORCEMENT

SCALE	BRIDGE	FILE	DRAWING
1/4" = 1'-0"	42-186		C-3469-9

PREL. DRAWING No. P-3469 | 8 | 25 | 24 | 58

AS BUILT PLANS
Contract No. 56-67C1
Date Completed
Document No. 60000990

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 1-30-60 SIGNATURE Joseph M. Costa TITLE SUPERVISOR OF MICROFILM SERVICES

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FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2	CAL.	U-0704 (2)		156	162

Dist.	County	Route	Section	Sheet No.	Total Sheets
VI	Fre				

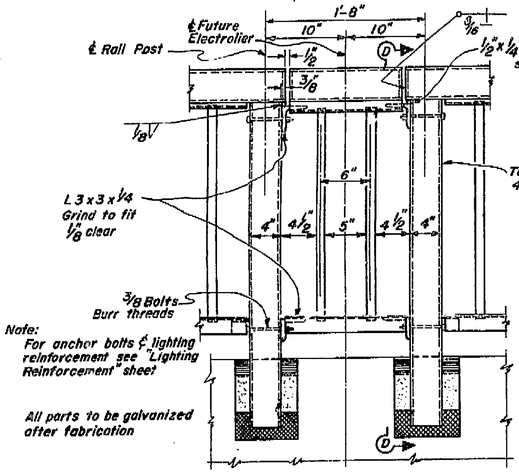
Approved February 28, 1955

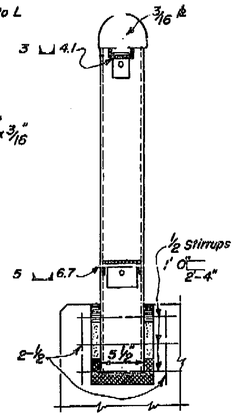
STANDARD DRAWING
Submitted by ... Date ... 6/58
DESIGN — By Standard Date Checked Standard
DETAILS — By WEP 6-53 Checked RCF 6-53
Approval Recommended By ... Civil Engineer In Charge Of Design ... Civil Engineer License No. 7595 Exp. 6-30-55 Civil Engineer License No. ...

BRIDGE DEPARTMENT

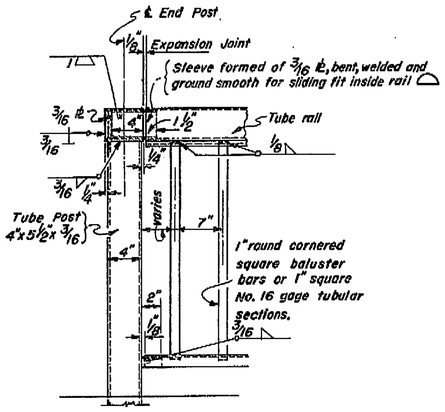
DESIGN 7 SECTION

DESIGN	BY JTH	CHECKED PCF	6-58
DETAILS	BY LCB	CHECKED PCF	6-58
QUANTITIES	BY LCB	CHECKED PEC	8-3-54
SPECIFICATIONS	BY	CHECKED	
APPROVAL RECOMMENDED BY ... CIVIL ENGINEER IN CHARGE OF DESIGN			CIVIL ENGINEER LICENSE NO. 7595 EXP. 6-30-55

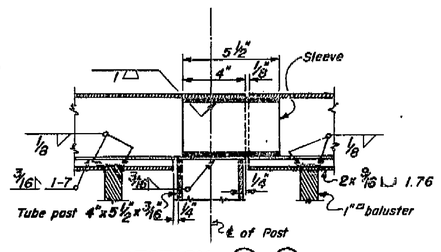




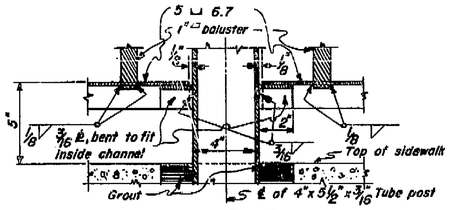
RAILING CLOSURE-DETAIL E-3 Scale: 1 1/2"=1'-0" SECTION D-D



SINGLE END POST
Scale: 1 1/2" = 1'-0"



SECTION (H)-(H)
Scale: 3" = 1'-0"



SECTION (G)-(G)
Scale: 3" = 1'-0"

NOTES:

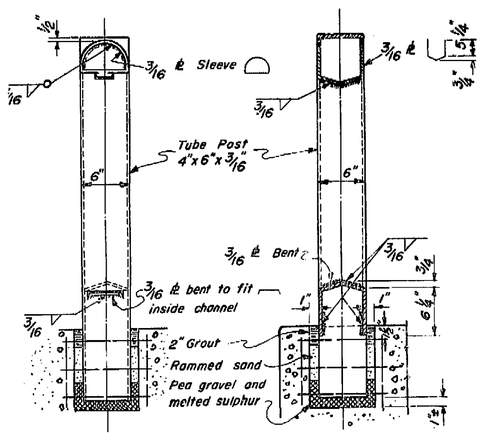
Space posts to clear expansion joints by 9" min. to ℄ of post.

Exact post hole locations are to be determined from approved railing shop plans.

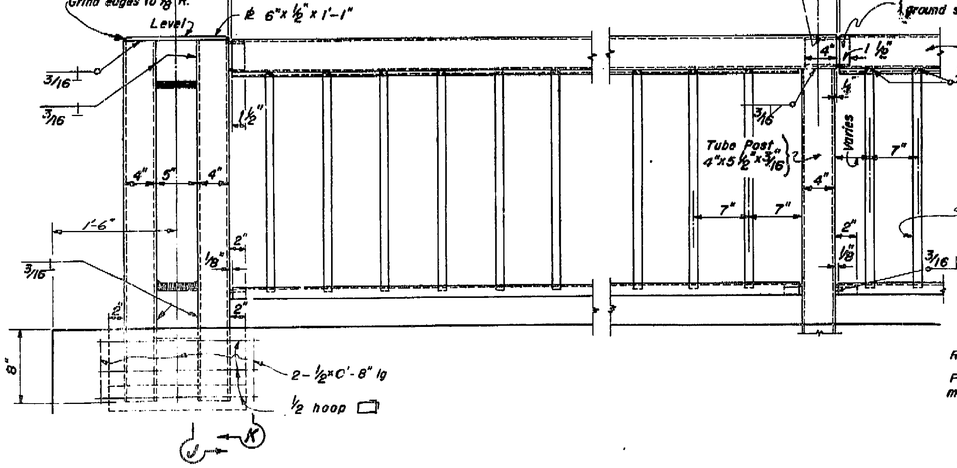
Railing shall conform to horizontal and vertical alignment. Posts and balusters shall be vertical with a maximum deviation not to exceed that represented by a rise of 1/4" in one panel.

Railing to be galvanized after fabrication. For further requirements see special provisions.

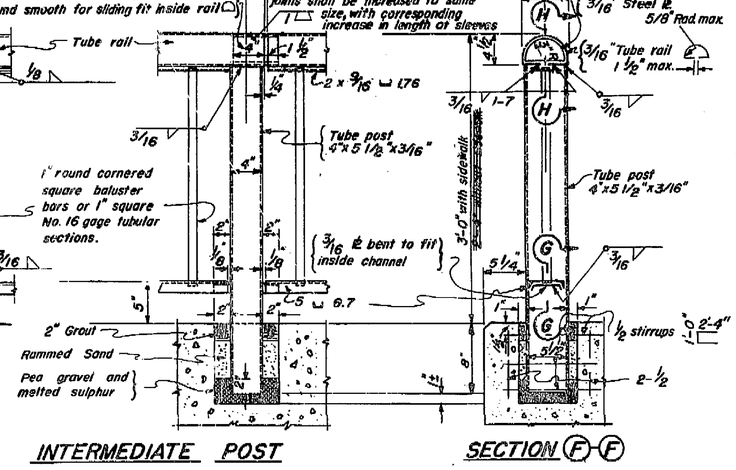
NO AS BUILT CHANGES
AS BUILT
CORRECTIONS BY Hetzchner
CONTRACT NO. 566TC1
DATE 1-7-57



SECTION (K)-(K) SECTION (J)-(J)



DOUBLE END POST



INTERMEDIATE POST

SECTION (F)-(F)

STEEL RAILING DETAILS
Scale: 1 1/2" = 1'-0"

DESIGN SECTION 7
PROJECT DESIGNER John J. Hall
PREL. DRAWING NO. P-3469

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BELMONT AVENUE OVERCROSSING

STEEL RAILING

SCALE As Shown | BRIDGE 42-186 | FILE XS-9-49 | DRAWING 3469_12

AS BUILT PLANS
Contract No. 56-67C1
Date Completed
Document No. 4-0000 790

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT AS SHOWN ON MY DIRECTION AND CONTROL PLANS AND SPECIFICATIONS AS APPROVED BY THE CALIFORNIA TRANSPORTATION COMMISSION AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.
1-31-56 Signed M. Cole SUPERVISOR OF STANDARDS & SERVICES

ClibPDF - www.fastio.com

FED. ROAD DIST. NO.	STATE	Work No.	FISCAL YEAR	SURVEY NO.	TOTAL SHEETS
2	CAL.	0-2192 (2)		155	162

DIST.	County	ROUTE	SECTION	CONST. NO.	TOTAL SHEETS
VI	Fre				49

5585

February 28, 1955

STANDARD DWG

	Initial	Date
Design		
Detail	R A	10-53
Check		
Check		
Supervised		

BRIDGE DEPARTMENT

DESIGN SECTION 7

DATE	BY	DESCRIPTION
2-24-54		
2-25-54		
6-8-54		
10-22-54		
12-1-54		
1-7-57		

ABUTMENT BACKWALL
DETAIL U1

Wall Reinf. for size and spacing see Abutment details

END DIAPHRAGM
DETAIL U2

BENT CAP
DETAIL U3

4"Fillets

20" diameter

3/4 tot. 8

INTERMEDIATE DIAPHRAGM
DETAIL U4

INTERMEDIATE DIAPHRAGM SECTION
DETAIL D1

5/8 @12" x 6-0

3/4

Typical Slab reinforcement

5/8 @15

5/8

8"

Diaphragm normal to deck grade

3/4

6"Square opening on low side of cell. See girder layout for locations

5"ϕ Vent in lower slab, ~~continuous~~ One ~~line~~ in each cell, ~~except~~ as shown. Place 1'-6" from face of ~~end~~ abutments.

1/2"Drip Groove

VENT
DETAIL V1

TRANSVERSE SLAB BRIDGE
DETAIL J1

Edger finish and fill with asphalt

1/4 Span Length

Main Reinf.

Const. Jt.

UTILITY OPENINGS

At center of stem use Detail J-20

1'-6" Within this limit use Detail J-21

Midway between girders Within this limit use Detail J-22

3/4" Keys 1'-0"± long spaced 1'-0"± clear

Slab

3/4" Key

Edger finish and fill with asphalt, all joints

Reinforcement continuous thru all joints

Raised Keys

3/4" Keys See Plan

Stem

DETAIL J-20 DETAIL J-21 DETAIL J-22

Const. Jt. in slabs to be parallel to slab Point. For optional location see placing Diagram.

3/4" Key

Edger Finish and fill with asphalt

1-6 x 6-0 1-6 Total 4 Place against Stirrup

Normal to Girder

Reinforcement continuous thru Joint

0.2 Span Length

℄ Bent (shown) or Abutment

Stop horizontal bars 2" from the diagonal bars or the construction Jt. where necessary

3/4" Key

TRANSVERSE GIRDER
DETAIL J-3

2-1ϕ between 0.2 points of spans except if noted otherwise in the Reinforcement details

1 5/8" x 6" x 1'-0" Raised key in deck slab on low side only

1/4" Exp. Jt. Mtl

CURB
DETAIL C1

SIDEWALK
DETAIL S1

CURB AND SIDEWALK EXPANSION JOINTS

NOTE In simple spans place joint at midspan. In continuous spans place joint over ℄ Interior piers or bents and at midspans.

Raised Keys

Slab

A

18"± 18"±

Construction Joint

Stem

Stirrups

SECTION A-A.

Straight surface joint

1'-0"±

3/4"

1/2"±

PART PLAN X-X

Note. Location of longitudinal construction joints in slabs to be at edge of traffic lanes except as approved by the Engineer

LONGITUDINAL DECK SLAB

Keys 12"± x 1 1/2 over 50% of area

Const. Jt. Normal to ℄ Girder or Diaphragm

4-1ϕ x 5-0 Total 8 for 18" diaphragm At mid height of diaphragm No additional reinforcing required for 8" diaphragm

Reinforcement continuous thru joint

Limits for Bent Cap

Girder

Girder

Limits for Diaphragm

4-1" x 5-0 Total 16, equally spaced

Stop key 3" from exposed surfaces

BENT CAP DIAPHRAGMS
LONGITUDINAL
DETAIL J-4

6"

3/4" Min. for asphalt-latex

1/2" Edger Finish

Asphalt-latex joint filler

3/4" Dia.

1/2" Exp. Jt. Mat'l.

6" Rubber Waterstop

Exp. Jt. Mat'l. Size as detailed

RUBBER WATERSTOP LATEX AT EXPANSION JOINT
DETAIL L1

Raised Keys

Slab

Set key in 2"± where construction Jt. is exposed

Construction Jt. shown at maximum height

Stem

Stirrups

PART SECTION INTERIOR GIRDER

PART SECTION EXTERIOR GIRDER WITH SLAB CANTILEVER

PART SECTION EXTERIOR GIRDER WITH CURB

KEY - GIRDER STEM TO SLAB
DETAIL J-5

CONSTRUCTION JOINTS

RUBBER WATERSTOP
DETAIL W1

For use where watertight joint is required

Tempered Masonite Smooth side up and oiled over 1/2 Celotex or equal.

DETAIL M-1

NO AS BUILT CHANGES

AS BUILT

SECTIONS BY Hoerchner

CONTRACT NO. 56 TC 1

DATE 1-7-57

DESIGN SECTION 7

PROJECT DESIGNER

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BELMONT AVENUE OVERCROSSING

STANDARD DETAILS

SCALE None	BRIDGE 42-186	~~X5-16-22~~	DRAWING C-3469_11

PREL. DRAWING NO. P-3469

AS BUILT PLANS
Contract No. 56-6TC1
Date Completed
Document No. 60000990

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 1-30-80 SIGNATURE Joseph M Cota TITLE SUPERVISOR OF INDEXFILM SERVICES

ClibPDF - www.fastio.com

DIST	COUNTY	ROUTE	POST MILE	TOTAL PROJECT
VI	Fre	~~Fre~~ C 13		~~18~~

5585

September 1, 1953

State Highway Engineer

Civil Engineer License No. 21184

To accompany Plans Dated February 28, 1955

REG. ROAD DIST. NO.	STATE	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2	CAL	U-2174 (2)	157	162

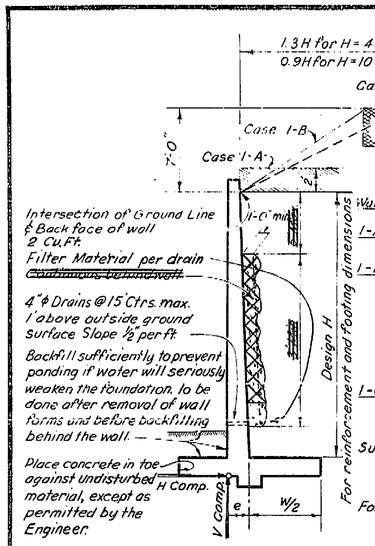
STANDARD DRAWING

DESIGN — DETAILS — QUANTITIES — CHECKED — DATE

BRIDGE DEPARTMENT

DESIGN — SECTION

AS BUILT PLANS
Contract No. 56-6TC1
Date Completed
Document No. 60000990



Wall to be used for Loading Cases Shown

1-A 2' Level Surcharge

1-B 1½:1 Slope terminating as shown. Surcharge Loading shall be either a part of the 7'-0" dimension or terminate at a distance of 1.3 H for H=4' to 8' and 0.9 H for H=10' to 22' from the backface of wall as shown.

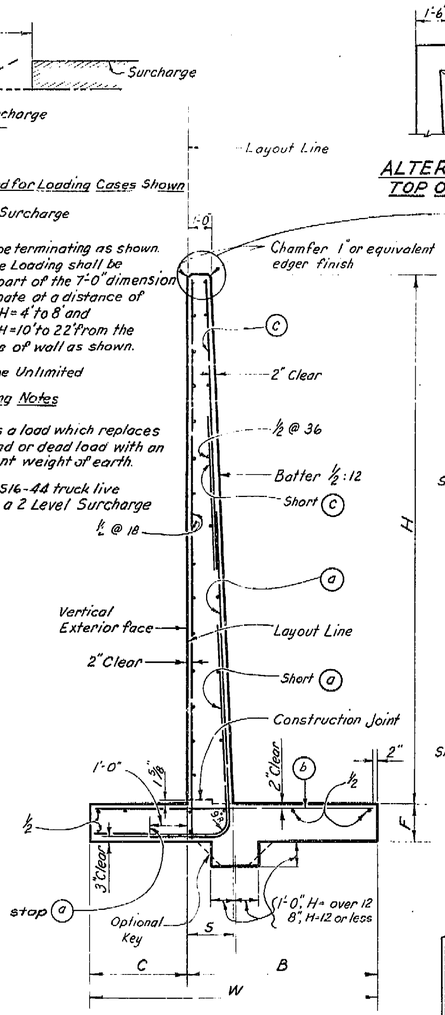
1-C 2:1 Slope Unlimited

Loading Notes

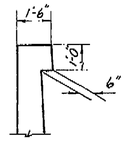
Surcharge is a load which replaces a live load or dead load with an equivalent weight of earth.

For an H20-S16-44 truck live load use a 2 Level Surcharge

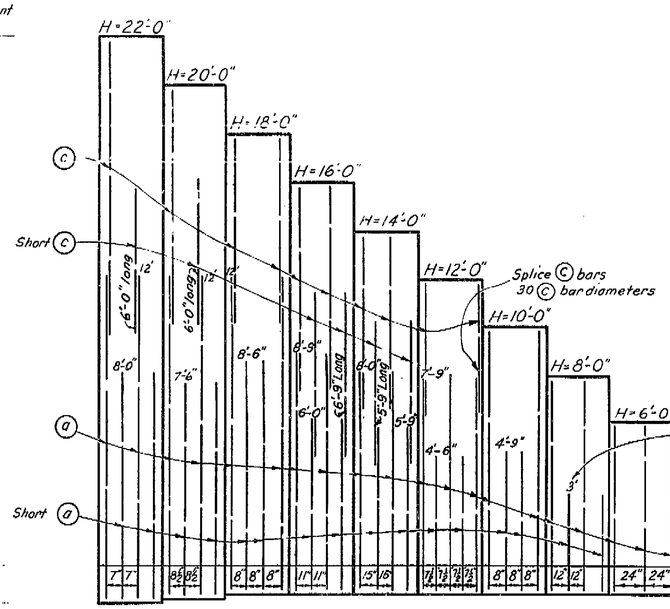
DESIGN AND DRAINAGE



SECTION



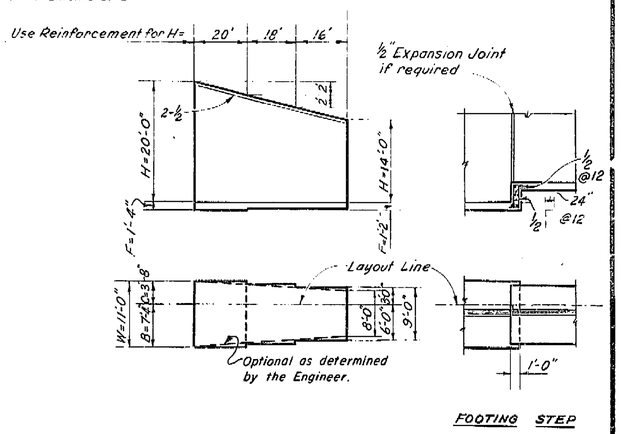
ALTERNATIVE TOP OF WALL



ELEVATION

TABLE OF REINFORCING STEEL DIMENSIONS AND DATA										
H	22'	20'	18'	16'	14'	12'	10'	8'	6'	4'
W	12'-0"	11'-0"	10'-0"	9'-0"	8'-0"	7'-2"	6'-2"	5'-2"	4'-2"	3'-2"
C	4'-0"	3'-8"	3'-4"	3'-0"	2'-8"	2'-4"	2'-0"	1'-8"	1'-4"	1'-0"
B	8'-0"	7'-4"	6'-8"	6'-0"	5'-4"	4'-10"	4'-2"	3'-6"	2'-10"	2'-2"
F	1'-6"	1'-4"	1'-2"	1'-2"	1'-2"	1'-2"	1'-2"	1'-2"	1'-2"	1'-2"
S	1'-11"	1'-10"	1'-9"	1'-8"	1'-7"	1'-6"	1'-5"	1'-4"	1'-3"	1'-2"
© Bars	⅞@14	1@17	⅞@24	⅝@11	⅝@15	⅝@30				
ⓐ Bars	1¼@7	1¼@8½	1⅛@8	1⅛@11	1⅛@15	⅞@7½	⅝@8	⅝@12	⅝@24	⅝@36
ⓑ Bars	1⅛@7	1⅛@8½	1"@8	1"@11	1"@15	⅞@7½	½@8	½@12	⅜@24	⅜@36
Conc cf/ft.	52.1	45.0	38.5	33.8	29.5	24.3	20.2	16.3	12.6	8.9
Steel lbs/ft.	309	233	177	123	90	56	47	28	20	14
Toe Press.	4480	4000	3590	3290	2980	2640	2270	1930	1570	1240
H Comp lbs	11630	9730	8000	6540	5240	4070	3050	2170	1440	850
V Comp lbs	27070	22690	18670	15260	12180	9760	7340	5230	3460	2020
e ft.	1.90	1.72	1.54	1.41	1.28	1.07	.94	.79	.60	.50

Note: Bar cut-offs may be varied in increments of 6"



FOOTING STEP

TYPICAL LAYOUT EXAMPLE

NOTES

Design Conditions:
Wall to be used for Loading Cases shown in Design and Drainage detail
Design H may be exceeded by 6" before going to next size.
Footing key is required except when found unnecessary by the Engineer.
Special footing design is required where foundation material is incapable of supporting toe pressure loads listed in table.

Design Data: f_c = 1250 psi, f_s = 20,000 psi, n=10 earth = 120 pcf and equivalent fluid pressure = 36 psf per ft. of height

Reinforcement:
Intermediate Grade, Hard Grade or Rail Steel
Deformations shall conform to ASTM A 305.
Bars shall lap 20 diameters, where spliced, unless otherwise shown on the plans
Bends shall conform to the Manual of Standard Practice, A.C.I.
Backing for hooks is four diameters
All bar embedments are clear distances to outside of bar.
Spacing for parallel bars is ctr to ctr of bars.
Bar areas are based on rounds for less than 1" and squares for over 1"

DESIGN SECTION
PROJECT DESIGNER

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

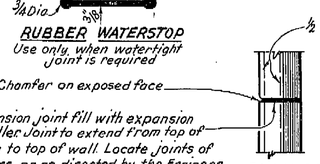
BELMONT AVENUE OVERCROSSING

TYPE 1 CANTILEVER RETAINING WALL

SCALE	BRIDGE	FILE	DRAWING
None	42-186	~~56-3-36~~	B-3469-13

PREL. DRAWING NO. P-3469

A63



RUBBER WATERSTOP
Use only when watertight joint is required

PLAN OF EXPANSION JOINT

AS BUILT NO CORRECTION
CORRECTIONS BY Haerchner
CONTRACT NO. 56-6 TC 1
DATE 1-7-57 Sp 9/14/59

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 1-30-50 SIGNATURE Joseph M Costa TITLE SUPERVISOR OF MICROFILM SERVICES

ClibPDF - www.fastio.com

FED ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2	CAL.	U-8194 (2)		158	162

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	[illegible]	[illegible]	[illegible]	10

[illegible] 5585
REGISTERED CIVIL ENGINEER

APPROVED September 1, 1955
State Highway Engineer
Civil Engineer License No 2084
To Accompany Plans Dated February 28, 1955

STANDARD DRAWING
Standard Plans
Sheet No. 1 of 1 Sheets
Dwg. No. B3-7
Dwg. No. B3-8
Dwg. No. B3-9
Dwg. No. B3-10
Dwg. No. B3-11
Dwg. No. B3-12
Dwg. No. B3-13
Dwg. No. B3-14
Dwg. No. B3-15
Dwg. No. B3-16
Dwg. No. B3-17
Dwg. No. B3-18
Dwg. No. B3-19
Dwg. No.

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2	CAL.	[illegible]		162	162

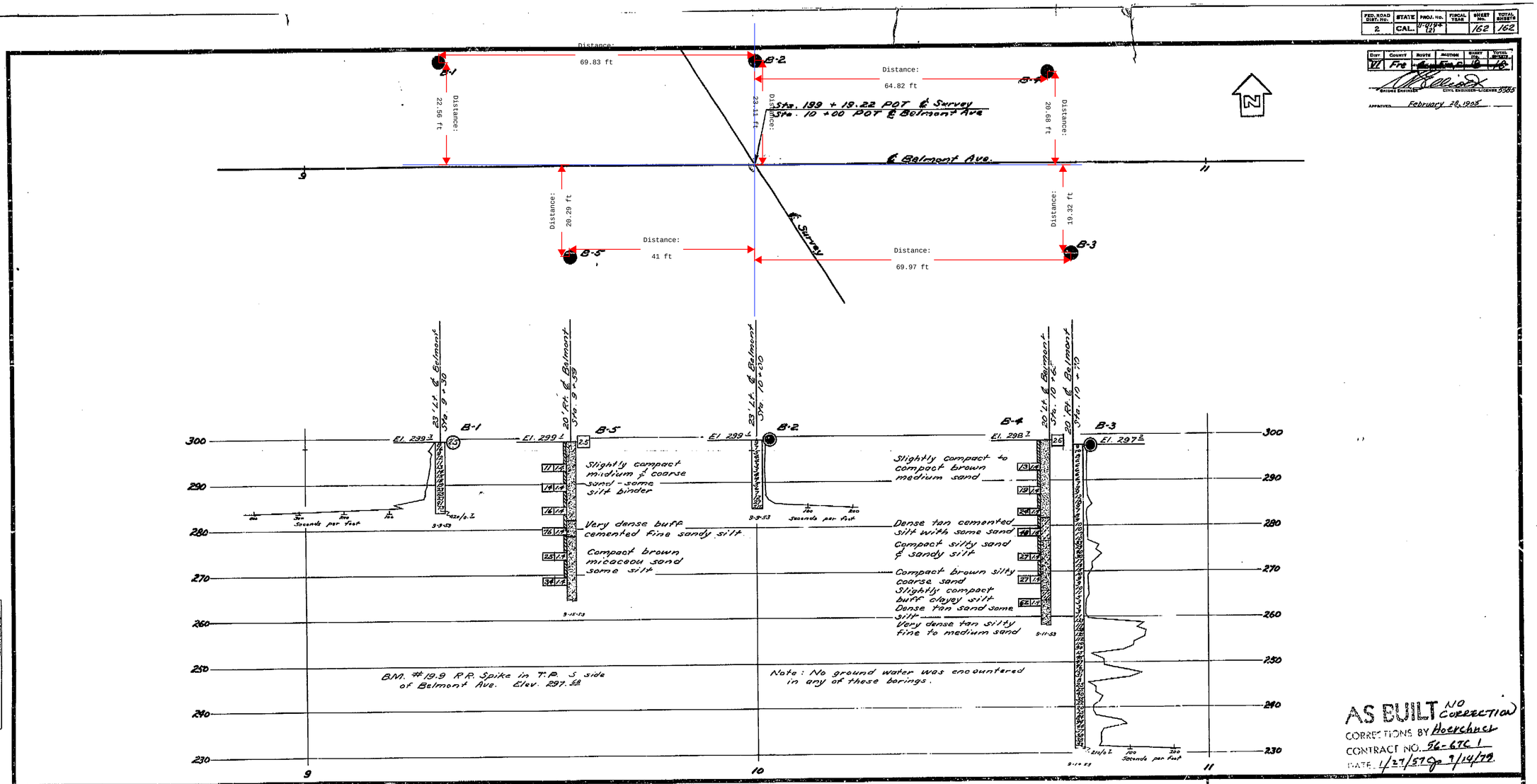
DIST	COUNTY	ROUTE	MOTHRE	SHEET NO.	TOTAL SHEETS
VI	Fre	[illegible]		18	18

BRIDGES ENGINEER — CIVIL ENGINEER—LICENSE 9385

APPROVED February 28, 1955

BRIDGE DEPARTMENT

FIELD STUDY	by C.Hurst	8-31-53
DRAWN	by W.Hussey	2-27-53
CHECKED	by J.Barr	10-28-53
Approval Recommended by	[illegible]	



AS BUILT NO CORRECTION
CORRECTIONS BY Hoerchner
CONTRACT NO. 56-67C1
DATE 1/27/59 & 9/14/79

CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS

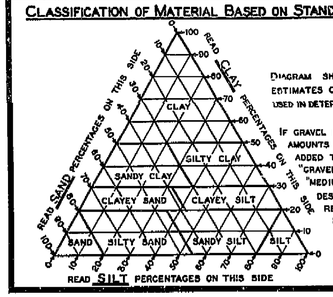


DIAGRAM SHOWING THE BASIS FOR ESTIMATES OF GRADE SIZE DISTRIBUTION USED IN DETERMINATION OF CLASS NAMES.

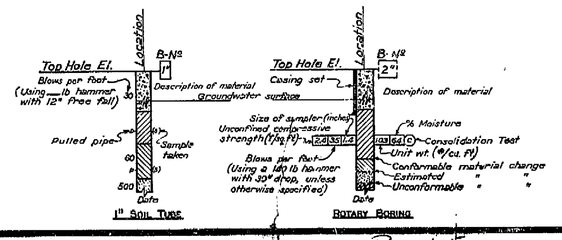
IF GRAVEL IS PRESENT IN APPRECIABLE AMOUNTS THE TERM "GRAVELLY" MAY BE ADDED TO THE CLASS NAME, VIZ. "GRAVELLY SAND", THE TERMS "COARSE", "MEDIUM" AND "FINE" WHEN USED TO DESCRIBE GRAVEL, SAND AND SILT REFER TO STANDARD GRADE SIZE LIMITS.

LEGEND OF EARTH MATERIALS

- GRAVEL
- SAND
- SILT
- CLAY
- SANDY CLAY OR CLAYEY SAND
- SANDY SILT OR SILTY SAND
- SILTY CLAY OR CLAYEY SILT
- PEAT AND/OR ORGANIC CLAY
- FILLED MATERIAL
- IGNEOUS ROCK
- SEDIMENTARY ROCK
- METAMORPHIC ROCK

LEGEND OF BORING OPERATIONS

- PLAN OF ANY BORING
- PENETROMETER
- 2½" CONE PENETROMETER
- SAMPLER BORING (DRY)
- ROTARY BORING (WET)
- AUGER BORING (DRY)
- JET BORING
- CORE BORING
- TEST PIT



NOTES

THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 2, ARTICLE (c) OF THE STANDARD SPECIFICATIONS AND TO THE SPECIAL PROVISIONS ACCOMPANYING THIS SET OF PLANS. CLASSIFICATION OF EARTH MATERIAL AS SHOWN ON THIS SHEET IS BASED UPON FIELD INSPECTION AND IS NOT TO BE CONSTRUED TO IMPLY MECHANICAL ANALYSIS.

PENETROMETER BORINGS HAVING A RATE OF PENETRATION MEASURED IN SECONDS PER FOOT ARE DRIVEN WITH A № 2 McKIERNAN-TERRY AIR HAMMER AT 115 PSI.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BELMONT AVENUE OVERCROSSING

LOG OF TEST BORINGS

SCALE: 1" = 10' | BRIDGE 42-185 | FILE | DRAWING B-3469-18

PREL. DRAWING NO. P-3469

Box 105

AS BUILT PLANS
Contract No. 56-67C1
Date Completed
Document No. 60000990

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 1-30-80 SIGNATURE Joseph M Tota TITLE SUPERVISOR OF MICROFILM SERVICES

ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YR.	SHEET NO.	TOTAL SHEETS
7	CAL.	1(9)		154	162

DIST.	COUNTY	ROUTE	SECTION	BRIDGE NO.	TOTAL SHEETS
VII	Fre	[redacted]		79	120

Bridge Engr. Civil Engr. Lic. 5385
DATE APPROVED: February 28, 1955

GENERAL NOTES

Specifications:
Design: A.A.S.H.O. dated 1953 with subsequent revisions, and Bridge Department Supplement dated 1953.

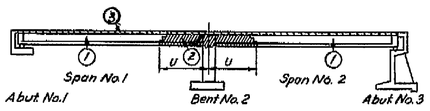
Construction: Standard Specifications, Division of Highways, dated [redacted] and the Special Provisions. August 1954

Live Loading: H20-S16-44

Unit Stresses:
Reinforced Concrete: fs = 20,000 p.s.i., fc = 1250 p.s.i., n = 10
Structural Steel: fs = 18,000 p.s.i.

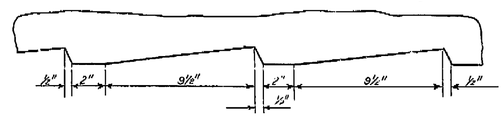
Footing Pressure: 3 tons psf except @ Abut. No. 3 2½ tons psf

Reinforcement: Embedment is clear to outside of bar and is 2" to main reinforcement, except as noted. Backing for hooks is four diameters, except as noted.
Bar areas are based on rounds for less than 1" and squares for over 1".
Where reinforcing bars are spliced they shall have a 20 diameter lap unless otherwise called for on the plans.



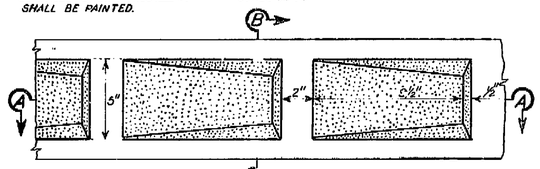
BOX GIRDER SUPERSTRUCTURE PLACING DIAGRAM

Numbers (1) and (2) indicate sequence of placing bottom slab and girder stem concrete. (2) may be placed with (1) when approved, provided both adjoining (1) sections are placed.
Top slab concrete (3) shall be placed separately with construction joints as desired except no construction joints in the area "T" or "U".
T = 1/5 span length. U = 1/4 span length.
Longitudinal construction joints may be used when approved, provided falsework or shoring on each side of the construction joints support the loads.
Contractor shall submit falsework plans and a superstructure placing diagram for approval by the Engineer.

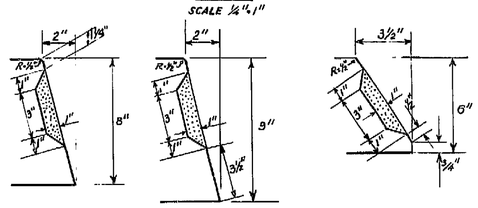


SECTION A—A
SCALE ¼" = 1"

SURFACES SHOWN THUS [redacted] SHALL BE PAINTED.



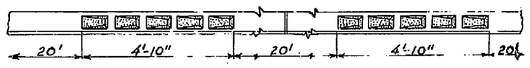
PANEL
SCALE ¼" = 1"



SECTION B-B TYPE A
SCALE ¼" = 1"

SECTION B-B TYPE F
SCALE ¼" = 1"

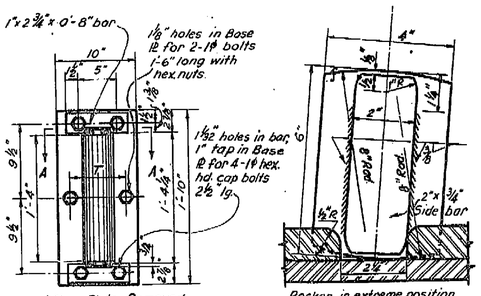
SECTION B-B TYPE B
SCALE ¼" = 1"



SCALE 1" = 2'

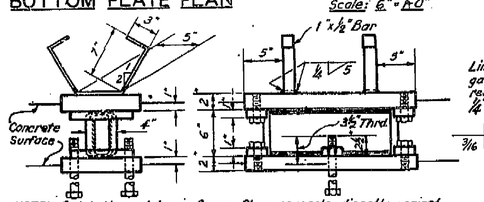
DIRECTION OF TRAFFIC FLOW

~~DIVIDING STRIP AND~~ BRIDGE CURB

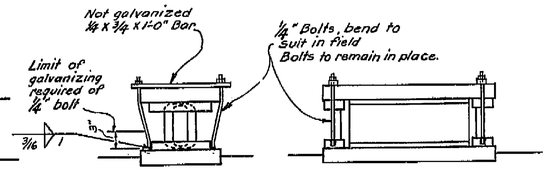


BOTTOM PLATE PLAN

SECTION A-A
Scale: 6" = 1'-0"



10x22" EXPANSION BEARING ASSEMBLY
11 Required
Scale: ½" = 1'-0"



DETAIL OF ERECTION BOLTS
Scale: 1½" = 1'-0"

NO AS BUILT CHANGES
AS BUILT
CORRECTIONS BY Hoerchner
CONTRACT NO. 56 TC1
DATE 1-7-57

DESIGN SECTION 7
PROJECT DESIGNER John J. Hall

BELMONT AVENUE OVERCROSSING
MISCELLANEOUS DETAILS
None | Br. # 42-186 | F.E. | W.O. 0-3469 10
PREL. DRAWING NO. P-3469 [redacted] 1/1 59

BRIDGE DEPARTMENT
7 SECTION

DESIGNED	CHECKED	QUANTITIES	DETAILED	CHECKED	SPECIFICATIONS
J.J.H.	R.S.S.	R.S.S.	R.S.S.		

AS BUILT PLANS
Contract No. 56-6TC1
Date Completed
Document No. 60000990

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.
DATE 1-30-80 SIGNATURE Joseph M Cota TITLE SUPERVISOR OF MICROFILM SERVICES

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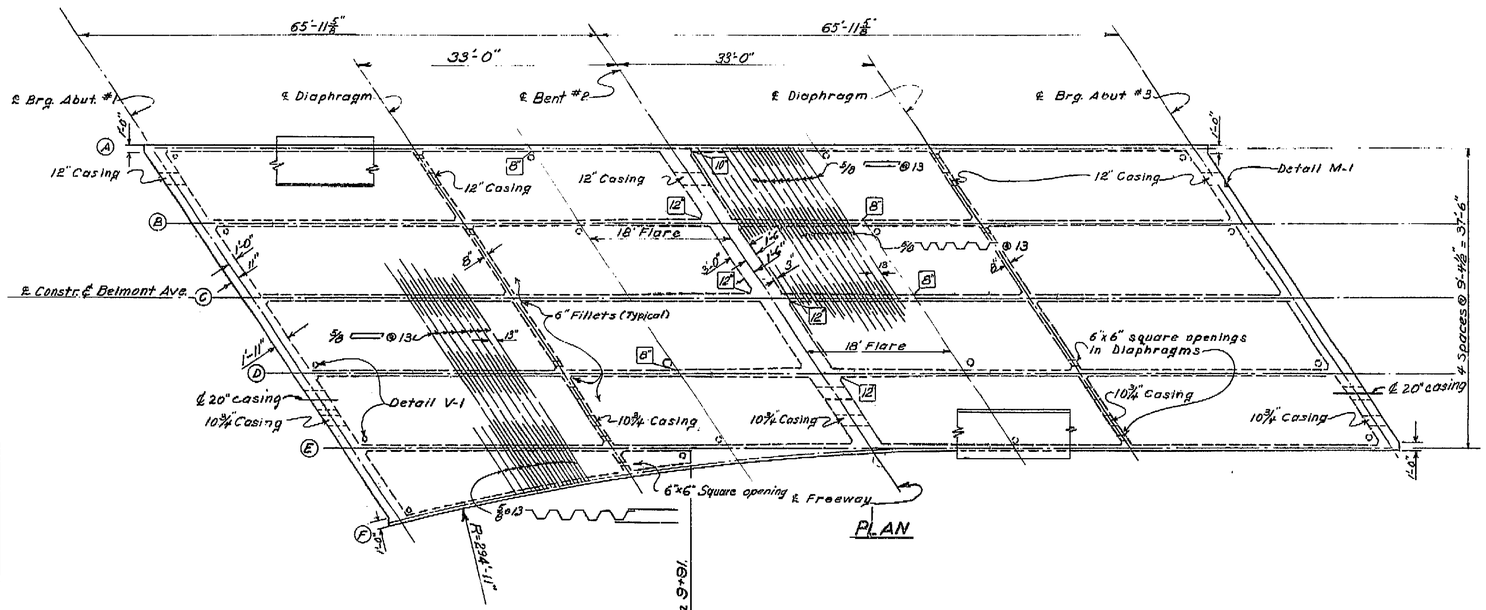
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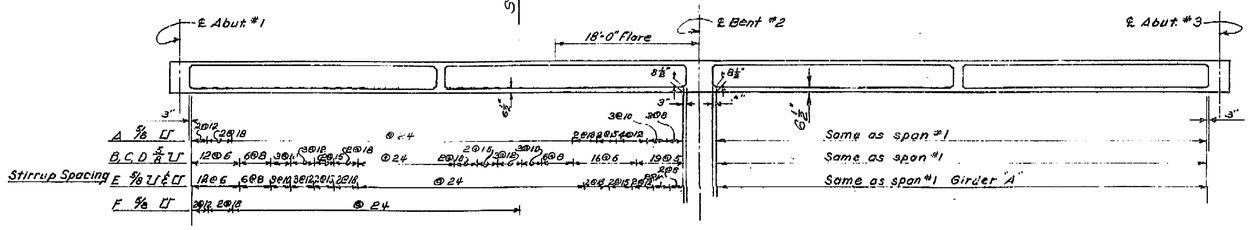
99

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
12	Ff-2				19

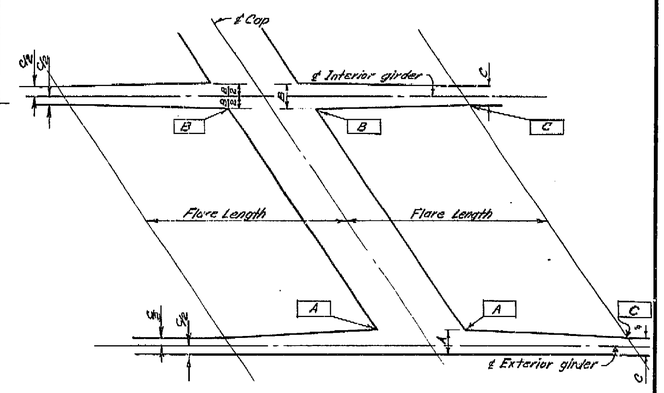
BRIDGE ENGINEER

February 28, 1958





LONGITUDINAL SECTION



GIRDER FLARE DETAIL
NO SCALE

DESIGN 7 SECTION

Submitted	Checked	Date
C.E.-O.		
DETAILS		
QUANTITIES		
SPECIFICATIONS		

AS BUILT
CORRECTIONS BY Hoerchner
CONTRACT NO. 56 TC1
DATE 1-7-59

DESIGN SECTION 7
PROJECT DESIGNER

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS
BRIDGE DEPARTMENT

BELMONT AVENUE OVERCROSSING

GIRDER LAYOUT

Scale: ⅛"=1'-0" | Bridge: 43-186 | File: | Drawing: C-3469-7

PREL. DRAWING NO. P-3469

AS BUILT PLANS
Contract No. 56-6TC1
Date Completed
Document No. 60000990

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 1-30-60 SIGNATURE Joseph M Costa TITLE SUPERVISOR OF MICROFILM SERVICES

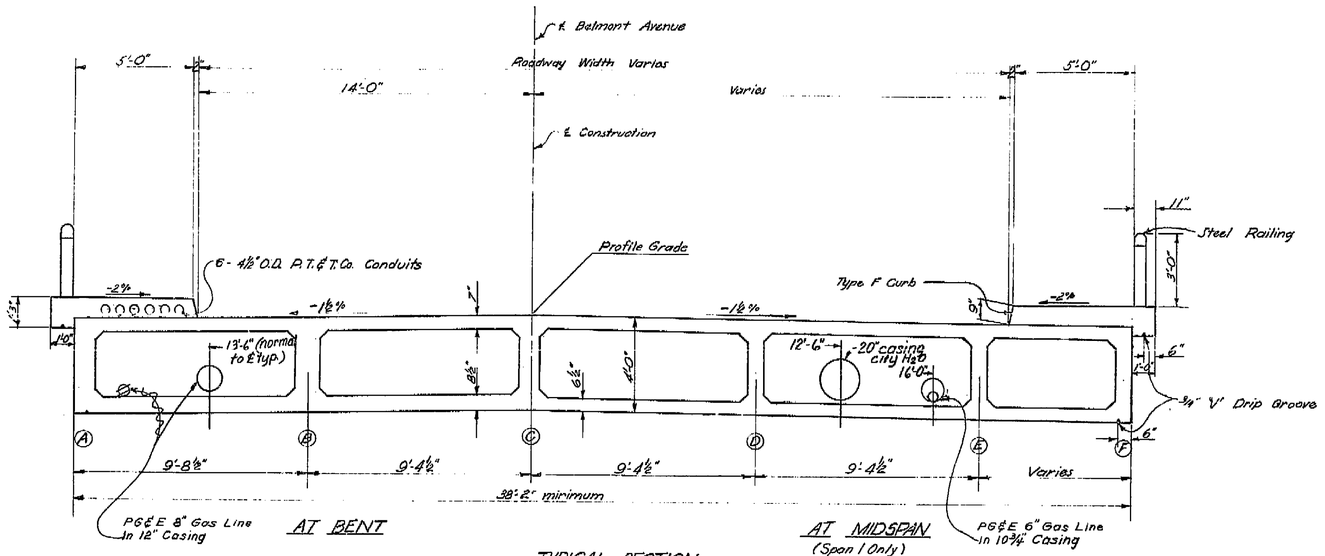
ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEARS	SHEET NO.	TOTAL SHEETS
7	CAL.	U-0134 (2)		10	162

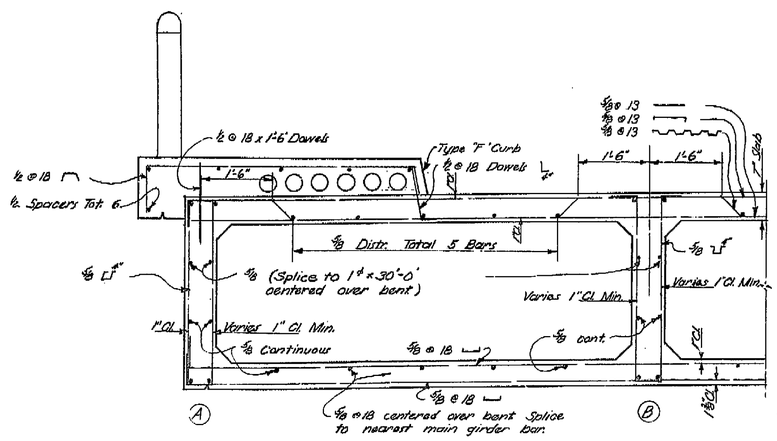
DIST.	COUNTY	ROUTE	SECTION	POST MILE	TOTAL SHEETS
VI	Fre				

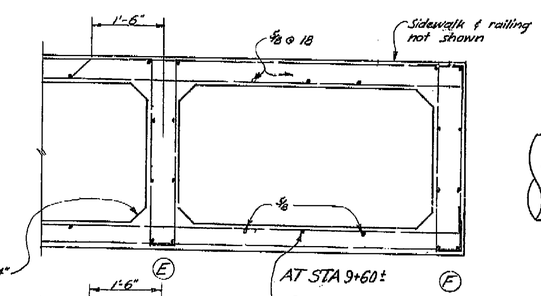
GEORGE HOUSLEY CIVIL ENGINEER 2315

February 28, 1955

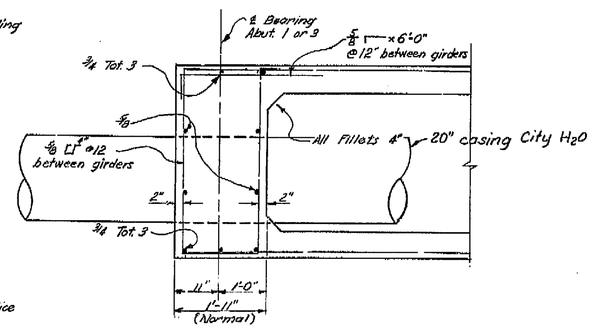


TYPICAL SECTION
Scale: ⅜" = 1'-0"





PART SECTION
Scale: ¾" = 1'-0"



END DIAPHRAGM
Scale: ¾" = 1'-0"

AS BUILT
CORRECTIONS BY H
CONTRACT NO. 56 6 1
DATE 1-7-57

DESIGN SECTION 7

Submitted for approval	Date	By	Checked	Remarks
GENERAL	2-28-55	[illegible]		
DETAILS	3-1-55	[illegible]	PEC	
QUANTITIES	3-1-55	[illegible]	PEC	
SPECIFICATIONS	3-1-55	[illegible]	PEC	
Approved for publication by the Director of Public Works	3-2-55	[illegible]		

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS
BRIDGE DEPARTMENT

BELMONT AVENUE OVERCROSSING

TYPICAL SECTION

Scale: As Noted | Bridge 42-186 | C-3469-6

PREL. DRAWING NO. P-3469

AS BUILT PLANS
Contract No. 56-61C1
Date Completed
Document No. 60000990

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

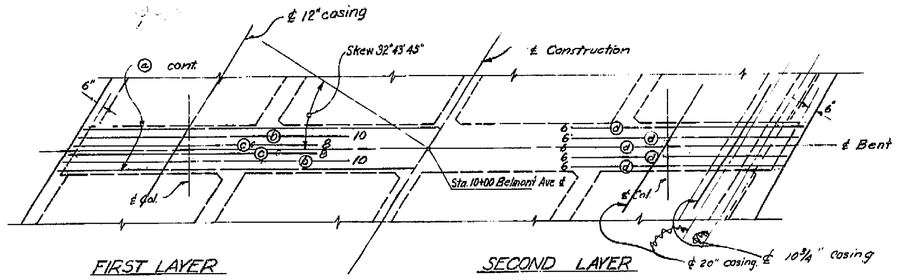
ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL	0-0194 121		149	162

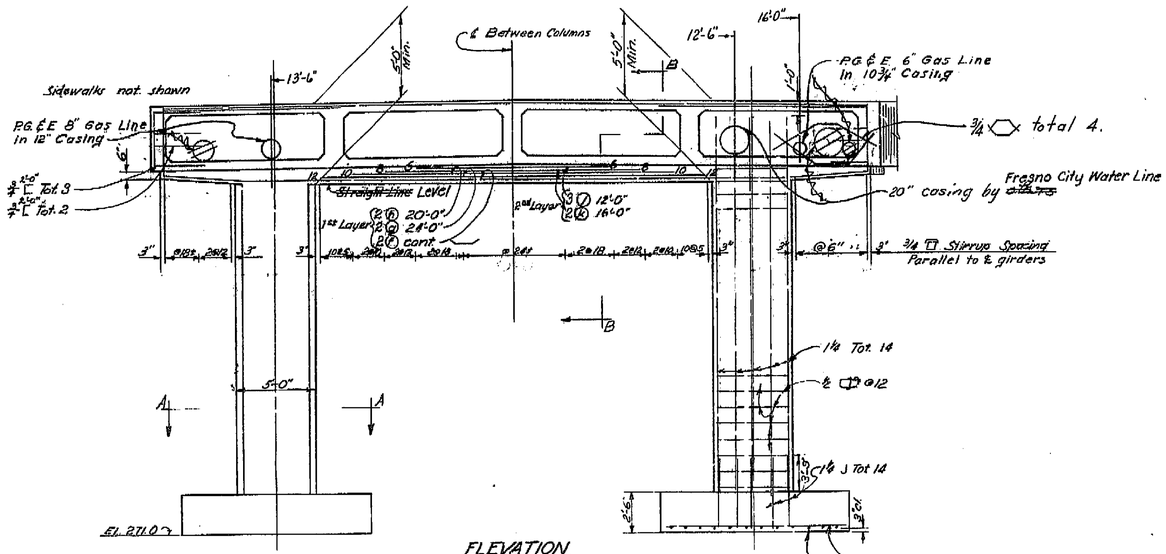
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre.				

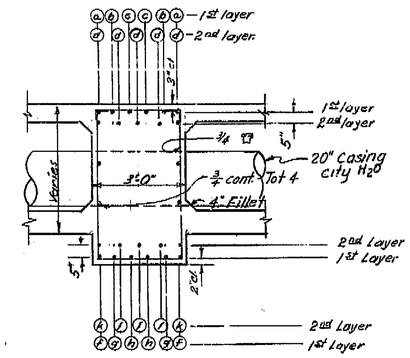
BRIDGE ENGINEER — LICENSE NO. 5395

February 28, 1955

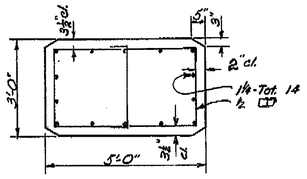


PLAN OF CAP





SECTION B-B
Scale: ½"=1'-0"



SECTION A-A
Scale: ½"=1'-0"

NOTES:
Bent symmetrical about ℄ between columns except as shown.
All bars ⊥ except as noted.
Numbers at end of bars indicate distance from ℄ column or ℄ between columns in feet.

AS BUILT
CORRECTIONS BY Hoerchner
CONTRACT NO. 566TC1
DATE 1-7-57

DESIGN SECTION 7
PROJECT DESIGNER

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS
BRIDGE DEPARTMENT

BELMONT AVENUE OVERCROSSING

BENT NO. 2

Scale: 4"=1'-0" except as noted	Bridge 42-186		D-3469-5

PREL. DRAWING NO. P-3469

DESIGN 7 SECTION

	Designed	Detailed	Checked	Traced	Quantities	Checked
Design	BEE 8-54					
Details	BEE 8-54	BEC 8-54				
Quantities	BEE 8-54	BEC 8-54				
Specifications	BEE 8-54					

Submitted for approval Nov. 12 1954 — Estimate 1526 - 368

AS BUILT PLANS
Contract No. 56-6TC1
Date Completed
Document No. 60000990

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL, ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 1-30-58 SIGNATURE Joseph M Costa TITLE SUPERVISOR OF MICROFILM SERVICES

DAS-53-78

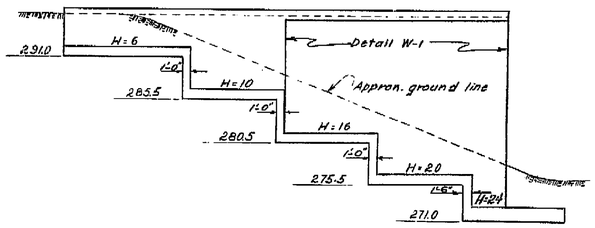
ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
7	CAL.	U-0942(2)		148	162

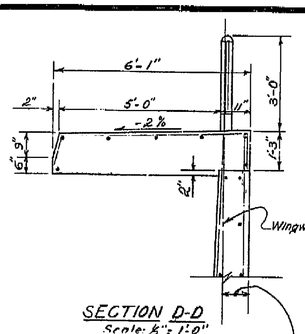
DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VII	Fre				162

DATE APPROVED February 28, 1955

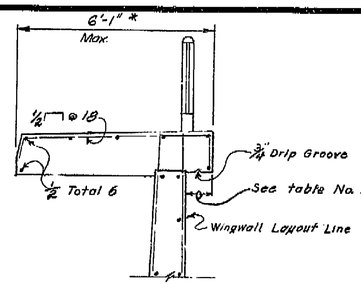
BRIDGE DEPARTMENT



ELEVATION A-A
ABUTMENT No. 1
Scale: 1/8" = 1'-0"



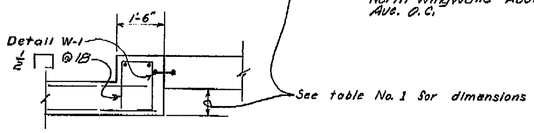
SECTION D-D
Scale: 1/2" = 1'-0"



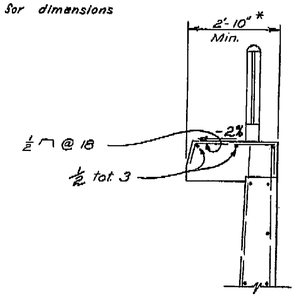
SECTION E-E
Scale: 1/2" = 1'-0"

Note: Section D-D & E-E Similar except as shown

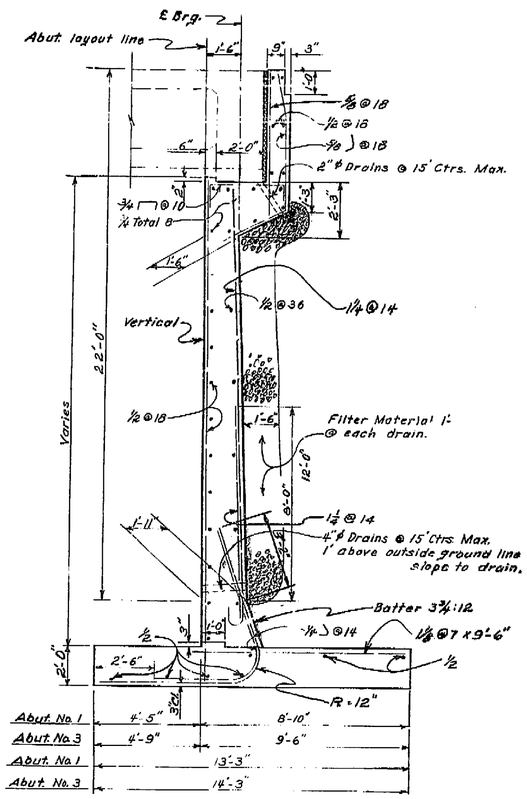
* Varies on South wingwalls Abut #1 & North wingwalls Abut #3 at Belmont Ave. O.C.



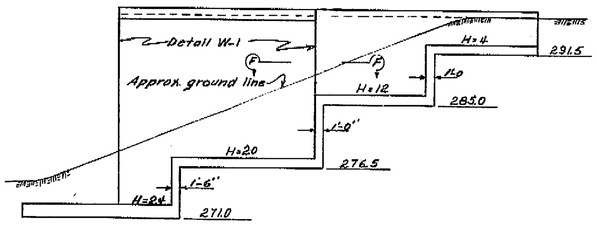
SECTION F-F
Scale 1/2" = 1'-0"



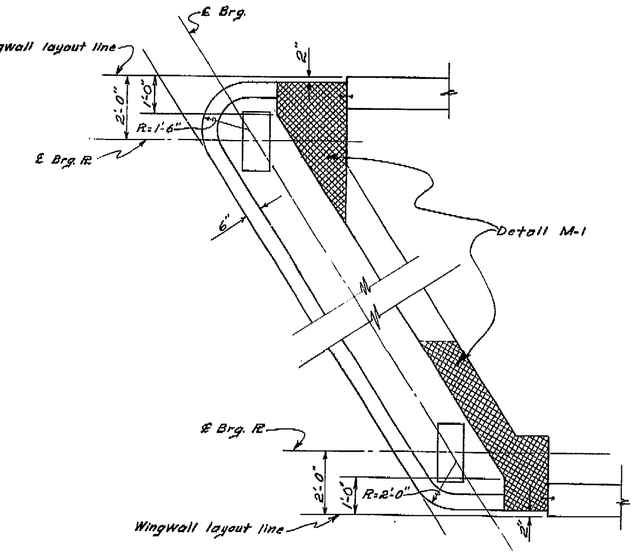
SECTION G-G
Scale 1/2" = 1'-0"



SECTION C-C
Scale: 3/8" = 1'-0"



DEVELOPED ELEVATION B-B
ABUTMENT No. 3
Scale: 1/8" = 1'-0"



CORNER DETAILS
Scale: 1/2" = 1'-0"

Abutment No. 3 shown
Abutment No. 1 similar

9 1/2"	Pacific Ave. Overcrossing
8"	El Dorado St. Overcrossing
8"	Tehama St. Overcrossing
10"	Belmont Ave. Overcrossing

TABLE NO. 1

AS BUILT
CORRECTIONS BY Hoerchner
CONTRACT NO. 56 TC1
DATE 1-7-57

DESIGN SECTION 7
PROJECT DESIGNER

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BELMONT AVENUE OVERCROSSING

ABUTMENT DETAILS

SCALE	BRIDGE	FILE	DRAWING
As Noted	42-186		B-3469-4

PREL. DRAWING No. P-3469

DESIGN SECTION 7

	By	Checked	Date
DESIGN	W.H.	E.E.S.	2-53
DETAILS	W.H.	E.E.S.	3-54
QUANTITIES	W.H.	E.E.S.	7-54
SPECIFICATIONS			

Submitted by [signature] Date
Approved Recommended by [signature] Date
Approved [signature] Date

AS BUILT PLANS
Contract No. 56-6TC1
Date Completed
Document No. 60000990

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO

ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.	D-0184 (2)		147	162

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre				178

DATE APPROVED February 28, 1955

BRIDGE DEPARTMENT

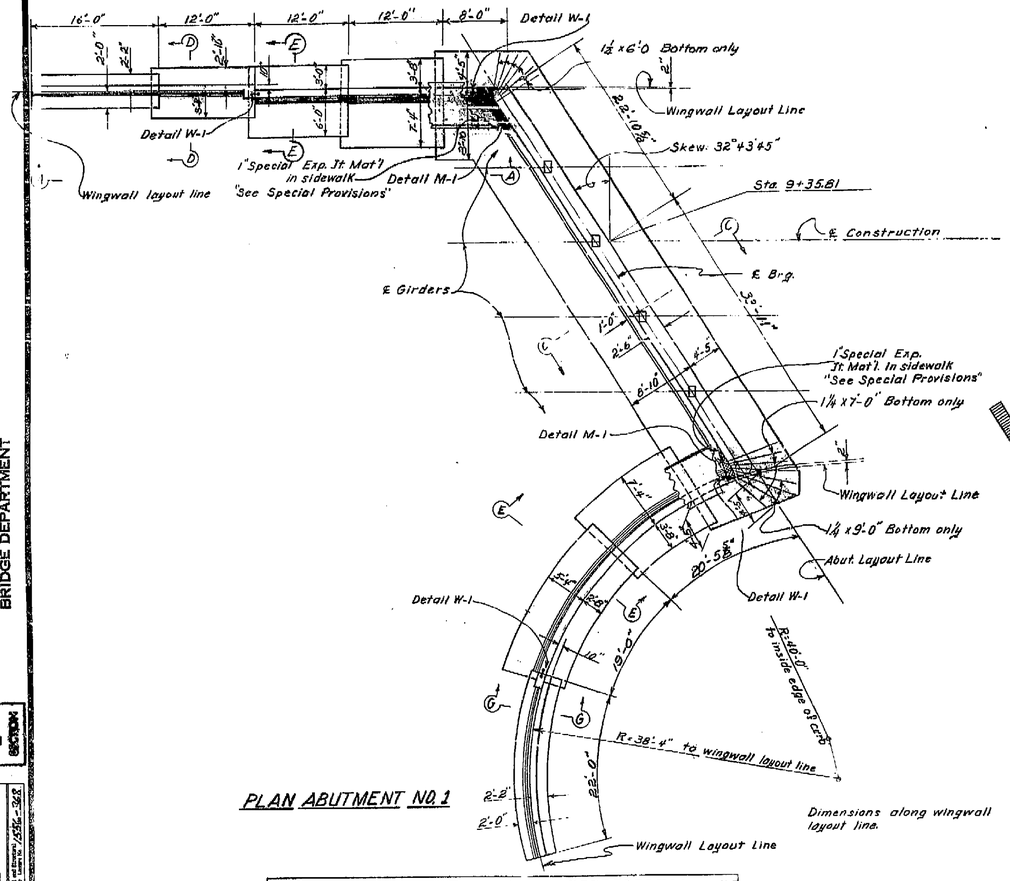
DESIGN 7 SECTION

	By	Date	Check	Date
DESIGN		8-54		8-54
DETAILS		8-54		8-54
QUANTITIES		12-54		1-55
SPECIFICATIONS		12-54		1-55

Submitted by [signature] Checked [signature]

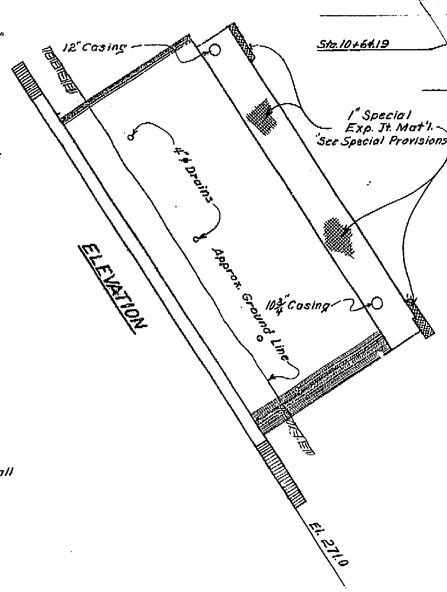
Approx. Recommended for Approval [signature] Bridge Engineer

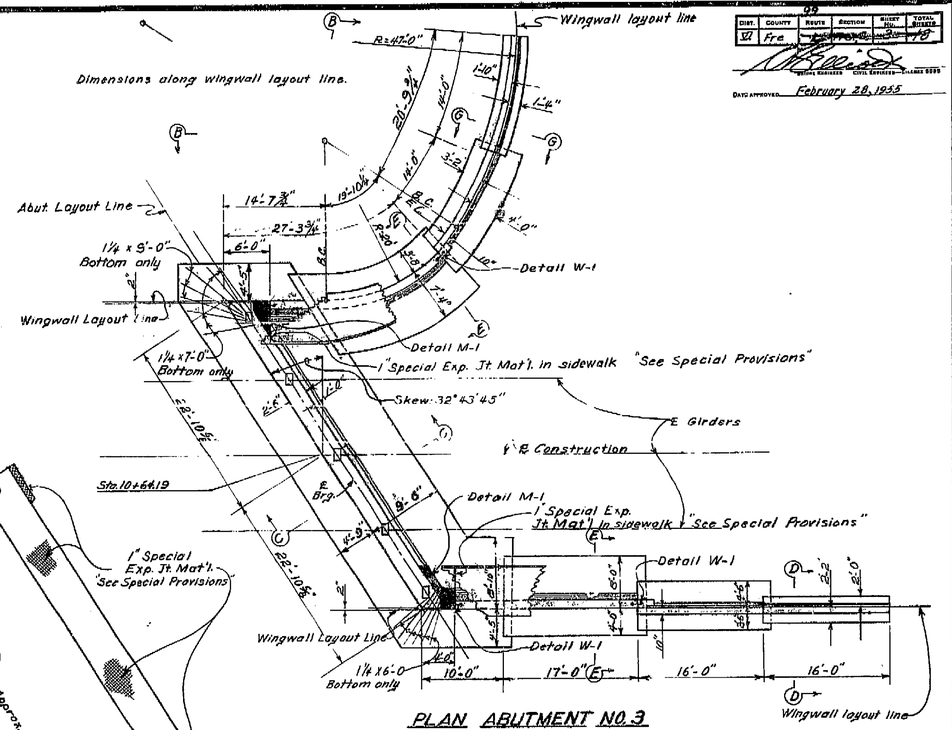
Dist. Bridge Engr. [signature] Chief Bridge Engr. [signature]



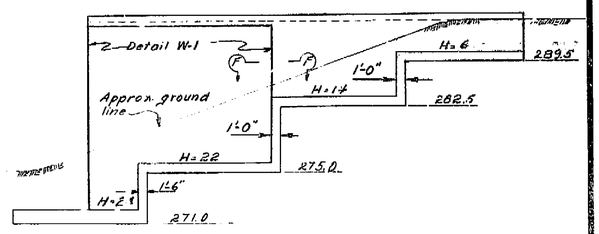
PLAN ABUTMENT NO. 1

DEVELOPED ELEVATION RIGHT WINGWALL
ABUTMENT NO. 1





PLAN ABUTMENT NO. 3



RIGHT WINGWALL ELEVATION
ABUTMENT NO. 3

Note:
For Elev A-A, B-B, C-C, D-D, EE, FF & GG see "Abutment Details" sheet
For Wingwall Details see "Type 1 Cantilever Retaining Wall" & "Type 2 Cantilever Retaining Wall" sheets

NO AS BUILT CHANGES
AS BUILT
CORRECTIONS BY Hoerchner
CONTRACT NO. 56TC1
DATE 1-7-57

DESIGN SECTION 7
PROJECT DESIGNER John J. Hall

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BELMONT AVENUE OVERCROSSING

ABUTMENT LAYOUT

SCALE	BRIDGE	FILE	DRAWING
⅛" = 1'-0"	42-186		B-3469-3

PREL. DRAWING No. P-3469 | X | 12 | 24 | 52 |

AS BUILT PLANS
Contract No. 56-6TC1
Date Completed
Document No. 60000990

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 1-30-80 SIGNATURE Joseph M Cota TITLE SUPERVISOR OF DRAFTSMEN

DAS-83-79

ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.	0-7108 R 21		146	162

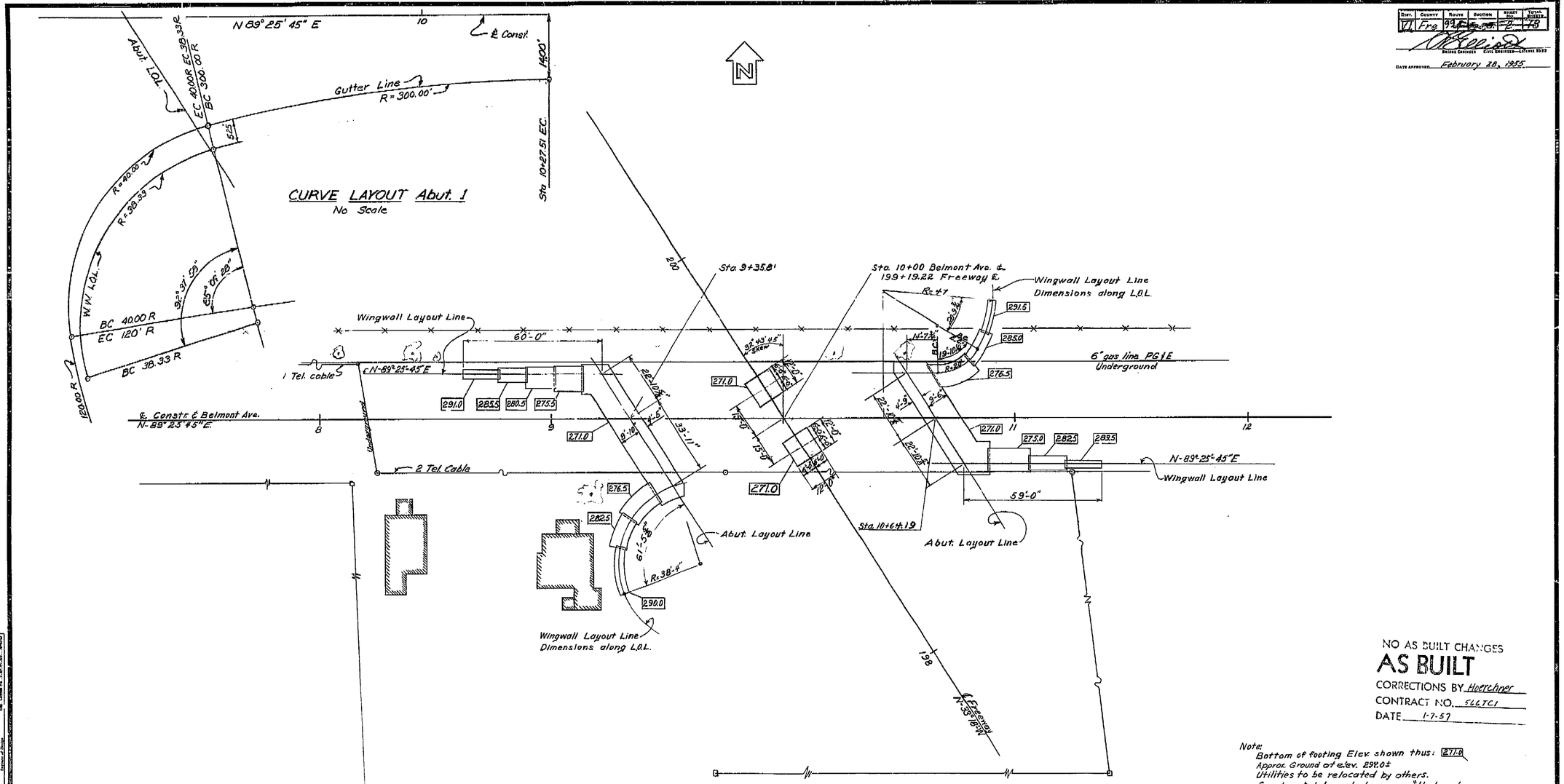
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	99			

Bridges Engineer — Civil Engineer—Licensed 8533

DATE APPROVED February 28, 1955

BRIDGE DEPARTMENT

DESIGN 7 SECTION



BENCH MARK NO. 19.9
R.R. SPIKE IN T.P.
S. SIDE of BELMONT AVE.
ELEV. 297.68

BENCH MARK NO. G
R.R. SPIKE IN P.P.
200'± W. of ℄ of SURVEY
f 20' W. ℄ WEST AVENUE P.P.
40'± S. of INTER. of WEST AVE.
f W. PARKWAY AVE.
ELEV. = 295.71'

NO AS BUILT CHANGES
AS BUILT
CORRECTIONS BY Hoerchner
CONTRACT NO. 56-6TC1
DATE 1-7-57

Note:
Bottom of footing Elev. shown thus: 271.0
Approx. Ground at elev. 289.0±
Utilities to be relocated by others.
For layout data not shown see "Abutment Layout Sheet."
Ban.t footings are similar.
All skews 32°-43'-45".

Submitted by	Date	Checked	Date	Drawing No.
DESIGN	5-54			8-34
QUANTITIES	5-54			8-34
SPECIFICATIONS	2-54			

Approved Assessment No. 32 Oakland

AS BUILT PLANS
Contract No. 56-6TC1
Date Completed
Document No. 60000990

DESIGN SECTION 7
PROJECT DESIGNER John J. Hall

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BELMONT AVENUE OVERCROSSING

FOUNDATION PLAN

SCALE 1" = 20'	BRIDGE 42-186	FILE	DRAWING C-3469-2

PREL. DRAWING No. P- 3460

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 1-30-80 SIGNATURE Joseph M Cota TITLE SUPERVISOR OF MICROFILM SERVICES

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FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.	U-0798 (2)		145	162

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre				145

Rte 99
PM 22.7

BRIDGE DEPARTMENT

20" Casing
4-#5 Hrs @ 45°

+1.14 %
E450 B.V.C.
Elev. 295.71
Rate of change = R=0.373 % per sta.
600 V.C.
-1.10 %
E520 E.V.C.
Elev. 295.86

PROFILE GRADE
No Scale

APPROXIMATE QUANTITIES

STRUCTURE EXCAVATION.	910 C.Y.
STRUCTURE BACKFILL	1,390 C.Y.
CLASS A CONCRETE (BRIDGES)(1,022 C.Y.)	LUMP SUM
RUBBER WATERSTOPS	142 L.F.
BAR REINFORCING STEEL (BRIDGES)(195,000 LBS.)	LUMP SUM
STEEL RAILING	484 L.F.
MISCELLANEOUS IRON & STEEL	4,400 LBS.

Face of P.N. 2'-1" | 6.5'-11⅝" | ℄ Brg. | 136'-1⅛" | ℄ Brg. | 6.5'-11⅝" | 2'-1" Face of P.N.

Original ground at ℄

Paint Br. No., Date, ℄ Belmont Ave. (Far Side) — Elev. 271.0 — Abut. 1

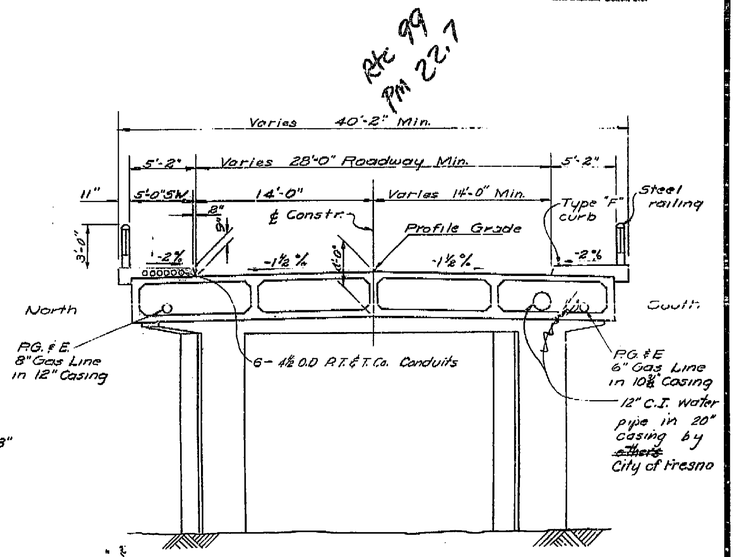
El. 271.0 — Bent 2

El. 271.0 — Paint Br. No., Date, ℄ Belmont Ave. — Abut. 3

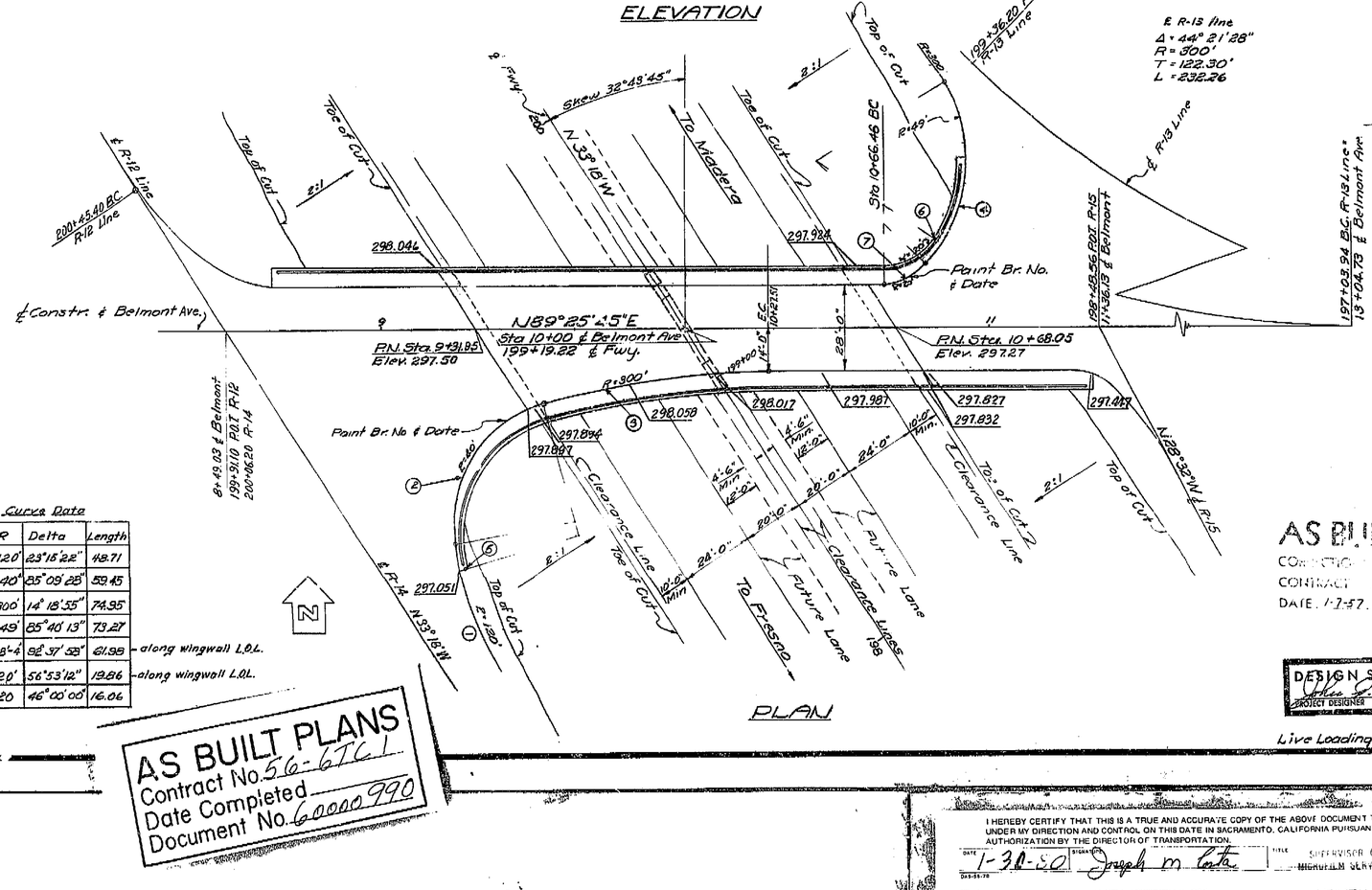
Datum Elev. 250.0

9+00 | 10+00 | 11+00

ELEVATION



TYPICAL SECTION
Scale 1" = 5'-0"



PLAN

Curve Data

No.	R	Delta	Length	
1	120'	23°15'22"	48.71	
2	40'	85°09'28"	59.45	
3	300'	14°18'35"	74.95	
4	49'	85°40'13"	73.27	
5	38'-4"	92°37'58"	61.98	along wingwall L.O.L.
6	20'	56°53'12"	19.86	along wingwall L.O.L.
7	20	46°00'00"	16.06	

INDEX TO PLAN

Sheet No.	Title
1.	General Plan
2.	Foundation Plan
3.	Abutment Layout
4.	Abutment Details
5.	Bent No. 2
6.	Typical Section
7.	Girder Layout
8.	Top Girder Reinforcement
9.	Bottom Girder Reinforcement
10.	Miscellaneous Details
11.	Standard Details
12.	Steel Railing
13.	Type 1 Cantilever Retaining Wall
14.	Type 2 Cantilever Retaining Wall
15.	Lighting Plan
16.	Standard Electrical Details - Bridge
17.	Lighting Reinforcement
18.	Log of Test Borings

566TC1

For General Notes See "Miscellaneous Details" sheet.

DESIGN SECTION 7
PROJECT DESIGNER

Live Loading - H 20-S 16-44

AS BUILT
CORRECTION (Hyperchine)
CONTRACT 56-TC1
DATE 1-1-57

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BELMONT AVENUE OVERCROSSING
LOCATED APPROX. 0.6 MILES WEST OF BELMONT TRAFFIC CIRCLE IN FRESNO COUNTY

GENERAL PLAN

Except as noted SCALE 1"=20'	BRIDGE 42-186	FILE	DRAWING C-3469-1

PREL. DRAWING NO. P-3469

DESIGN SECTION 7 — DESIGNED — DETAILS — QUANTITIES — SPECIFICATIONS — Approved for Construction — Submitted by

AS BUILT PLANS
Contract No. 56-6TC1
Date Completed
Document No. 60000990

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.
DATE 1-30-60 SIGNATURE Joseph M Cota TITLE SUPERVISOR OF HIGHWAY SERVICES

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California Department of Transportation
Division of Maintenance

Structure Maintenance and Investigations

BRIDGE

INSPECTION

RECORDS

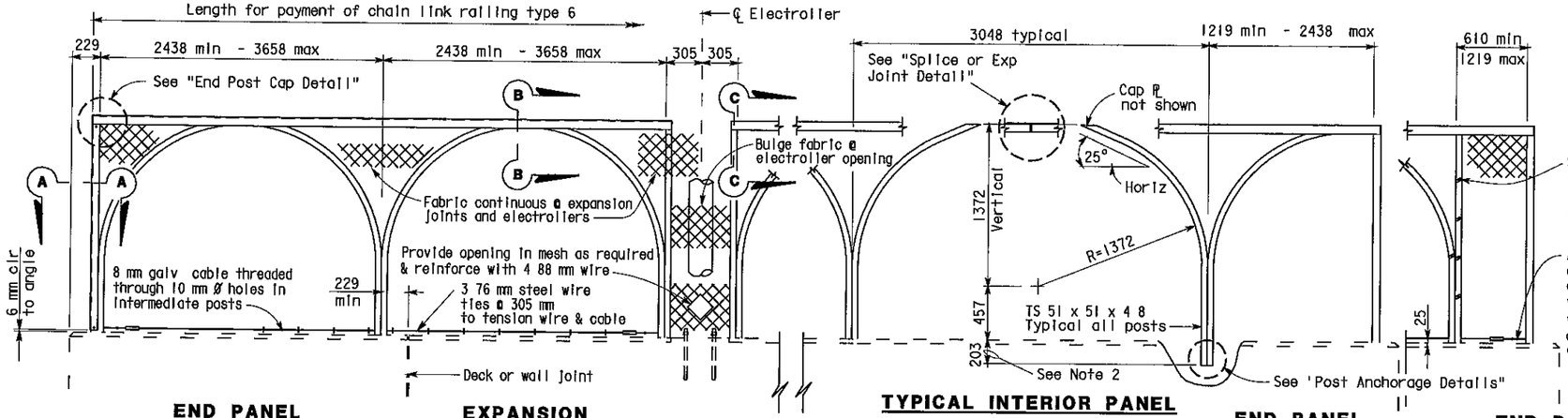
INFORMATION

SYSTEM

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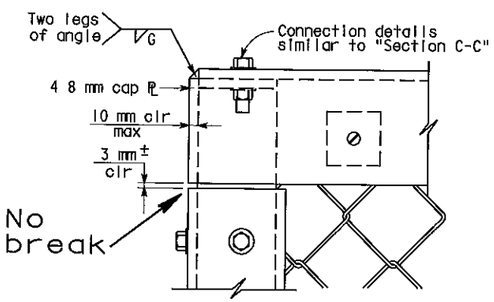
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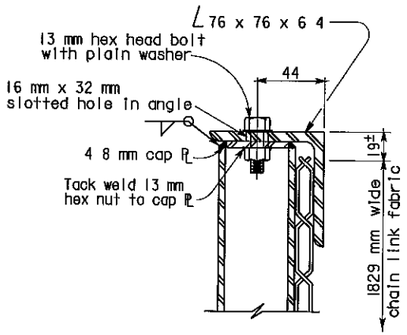


END PANEL 2438 mm - 3658 mm | **EXPANSION PANEL AT ELECTROLIER** | **TYPICAL INTERIOR PANEL** | **END PANEL 1219 mm - 2438 mm** | **END PANEL 610 mm - 1219 mm**

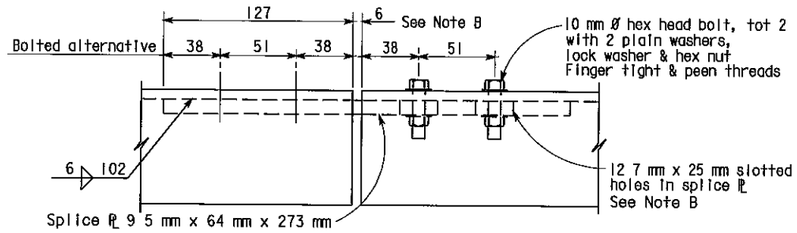
ELEVATION



END POST CAP DETAIL

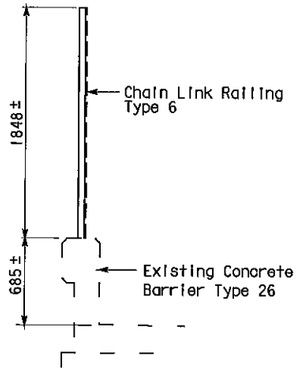


SECTION C-C

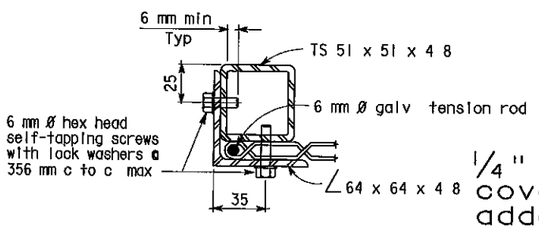


SPLICE OR EXPANSION JOINT DETAIL

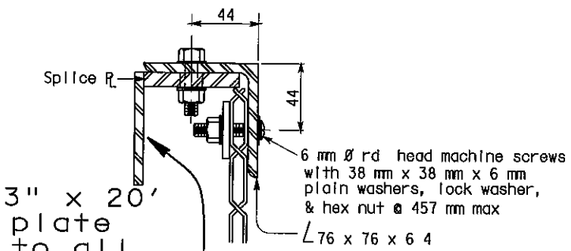
Note B Expansion joint same dimension as expansion joint in deck or wall Increase slotted hole length and splice ℙ length correspondingly



TYPICAL SECTIONS



SECTION A-A



SECTION B-B

NOTES

1. Horizontal angle shall be continuous over not less than two intermediate posts except that a shorter length is permitted at expansion joints, electrollers and other rail discontinuities
2. One post may be embedded 152 mm minimum to accomodate grade changes, otherwise fabricate post lengths as required
3. Curved posts may be rotated in plan within its post pocket to accomodate curved horizontal alignment
4. Straight posts and straight portions of curved posts shall be installed normal to bridge profile grade
5. Top horizontal angle shall be parallel to bridge profile grade and shall be shop bent to fit horizontal curves
6. When railing is on slope, fabric shall be placed parallel to slope
7. Alternative details may be submitted by Contractor for Engineer's approval
8. Railing assembly except chain link fabric shall be galvanized after fabrication
9. For details and reinforcement not shown, see "Concrete Barrier Type 25 or 26" sheet
10. See Bridge Plans for limits of Chain Link Railing Type 6 Mod
11. Provide thimbles at all cable loops
12. Chain link fabric to be 1829 mm wide with 25 mm mesh and with knuckled selvage top and bottom
13. When railing is placed on a horizontal alignment with a radius of 45 72 m or less, thread 8 mm cable through 10 mm Ø welded eye rods embedded 102 mm into the top of the concrete parapet and equally spaced to limit the middle ordinate distance between the 8 mm cable and the curve to 25 mm max
14. Splices and expansion joints shall be located at ℄ panel
15. Holes in posts for 8 mm cable and its anchorage may be field drilled and painted with zinc rich paint

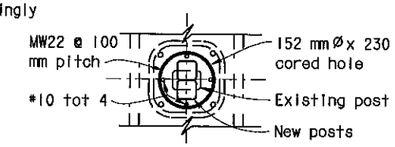
AS BUILT

MRC 1-3-03

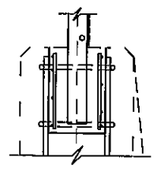
CORRECTIONS BY John Borquez

CONTRACT NO 06-440104

DATE 11-14-02



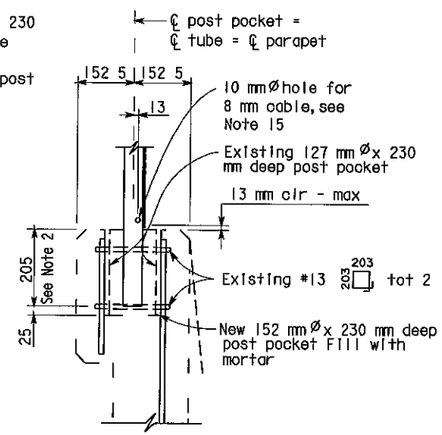
PLAN



SECTION

Detail omitted

POCKET DETAILS



POST ANCHORAGE DETAIL

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	130	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

DESIGN	BY D Acoba	5/00	CHECKED F Tannous	5/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY K Endow	5/00	CHECKED F Tannous	5/00	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE
QUANTITIES	BY D Acoba	5/00	CHECKED F Tannous	5/00	BRIDGE NO Various; KILOMETER POST Varies

ROUTE 99 BRIDGES

CHAIN LINK RAILING TYPE 6 MOD NO. 1

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV 10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE > nat61.dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/17/00 | 9/26/00 | 10/3/00

SHEET 8 OF 11

USERNAME mcarlson DATE PLOTTED > 03-JAN-2003 TIME PLOTTED => 12:11

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	131	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

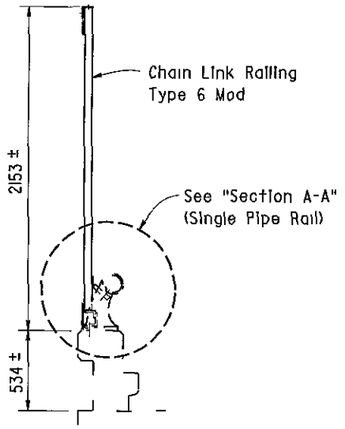
REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

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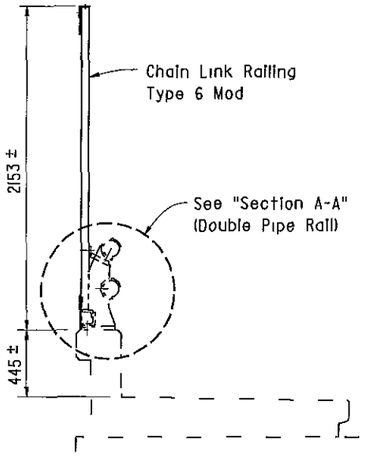
NO CORRECTIONS
AS BUILT

MRC 1-3-03

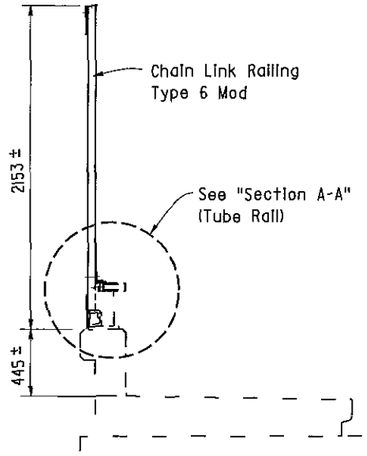
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02



TYPE 1



TYPE 5



TYPE 12

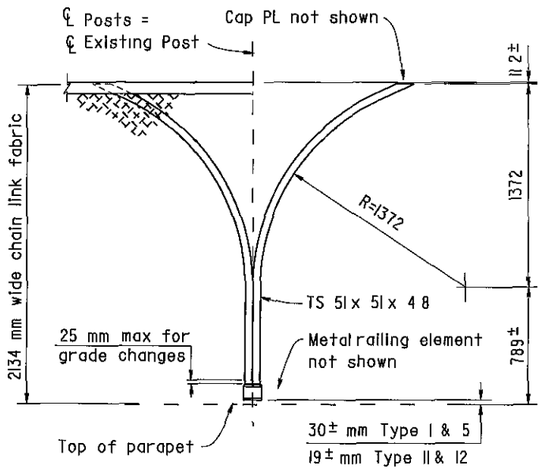
BARRIER RAILING SECTIONS

Existing chain link railing not shown

I 20

TYPE A
- NORTH AVE OC - 2 Locations
- CHURCH AVE OC - 4 Locations
- CALIFORNIA AVE OC - 4 Locations
- VENTURA ST OC - 4 Locations

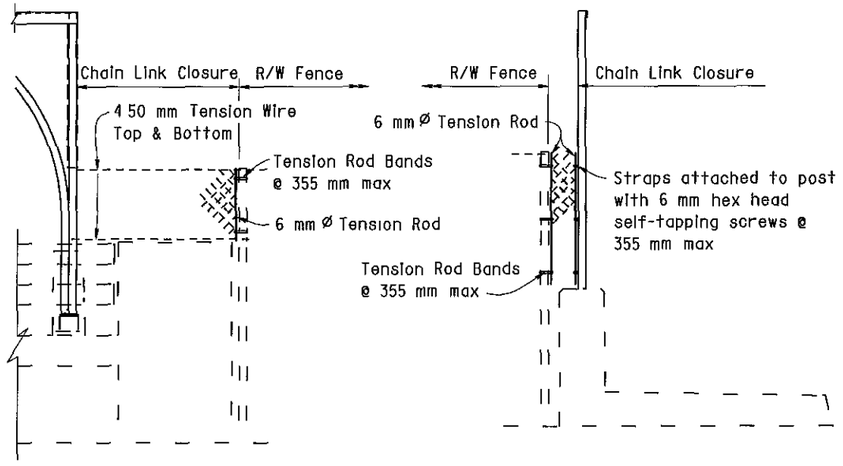
TYPE B
- KERN ST OC - 4 Locations
- TULARE ST OC - 4 Locations
- EL DORADO ST OC - 4 Locations



PART OUTSIDE ELEVATION

Note For details and notes not shown, see "Chain Link Railing Type 6 Mod No 1" sheet

I 10

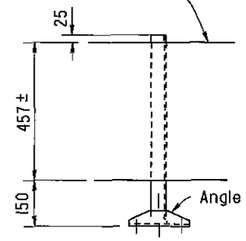


TYPE A TYPE B

R/W FENCE CONNECTION

I 10

Remove existing sign panels and reinstall on new post



TULARE ST OC

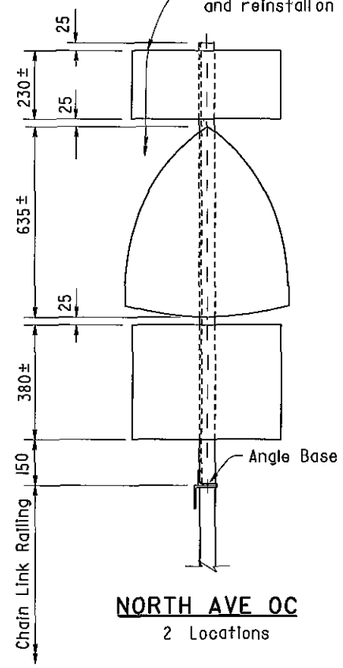
4 Loactions

Note

Reinstall signs at approximately the same location on chain link railing as existing

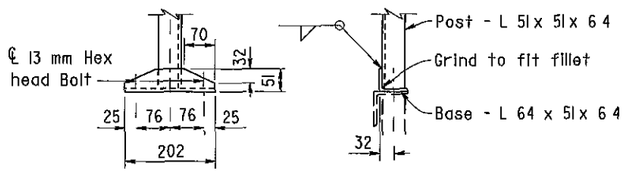
NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Remove existing sign panels and reinstall on new post



NORTH AVE OC

2 Locations



ANGLE BASE

Note

Hot dip galvanize sign post after fabrication
Field drilled holes to be painted with zinc rich paint

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

	BY		CHECKED	
DESIGN	D Acoba	5/00	F Tannous	5/00
DETAILS	K Endow	5/00	F Tannous	5/00
QUANTITIES	D Acoba	5/00	F Tannous	5/00

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
CHAIN LINK RAILING TYPE 6 MOD NO. 2

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE > nat62.dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/17/00 | 9/26/00 | 10/3/00

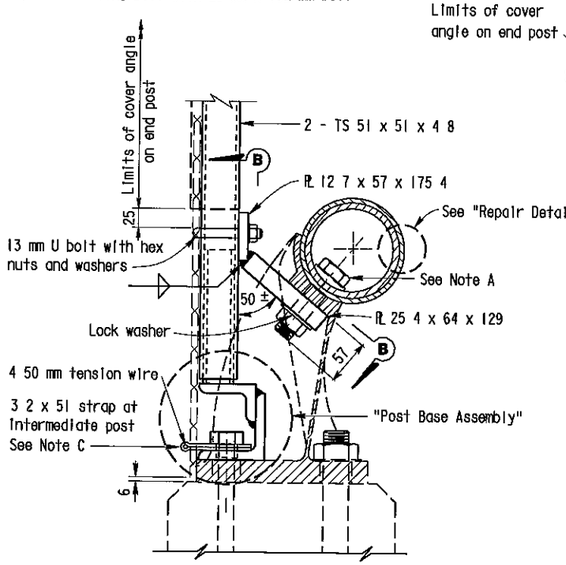
SHEET 9 OF 11

USERNAME => mcarlson DATE PLOTTED > 03-JAN-2003 TIME PLOTTED > 13:23

ClibPDF - www.fastio.com

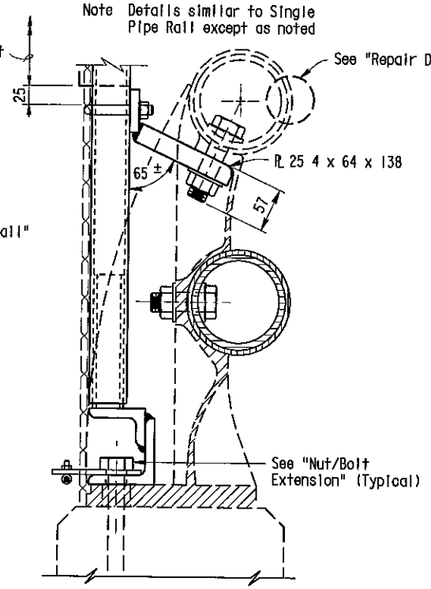
Note A

Replace existing bolt with 25 mm x 102 mm bolt



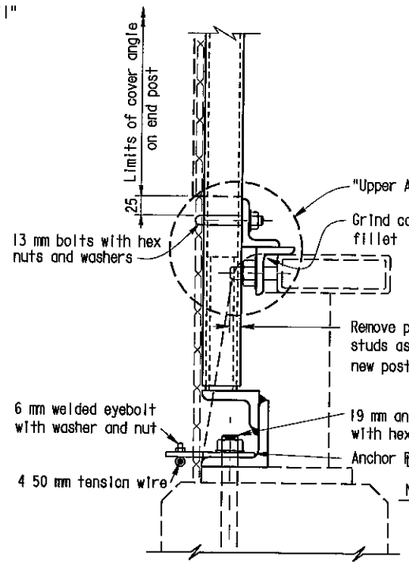
SECTION A-A (SINGLE PIPE RAIL)

Note Details similar to Single Pipe Rail except as noted



SECTION A-A (DOUBLE PIPE RAIL)

Note Details for Type 9 and Type 11 Metal Railing are similar, Type 11 not shown



SECTION A-A (TUBE RAIL)

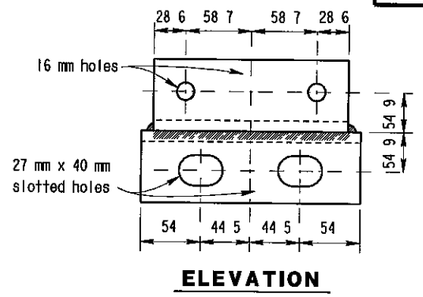
NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Note B

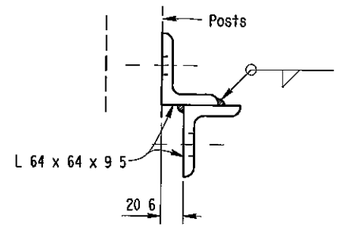
Paint all cut and ground surfaces with zinc rich paint

Note C

At intermediate posts only contractor has an alternate of 3 mm x 51 mm strap or 6 4 mm anchor plate with eyebolt



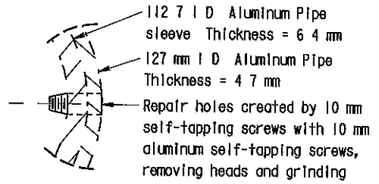
ELEVATION



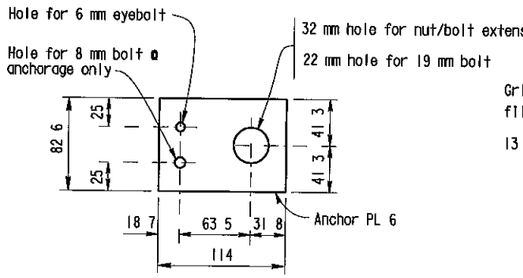
SIDE VIEW

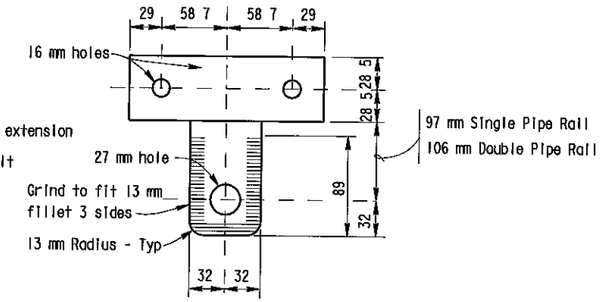
UPPER ANGLE BRACKET

ATTACHMENT DETAILS



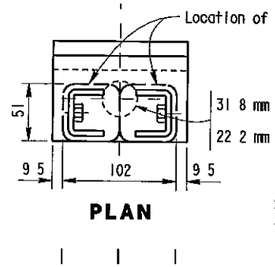
REPAIR DETAIL



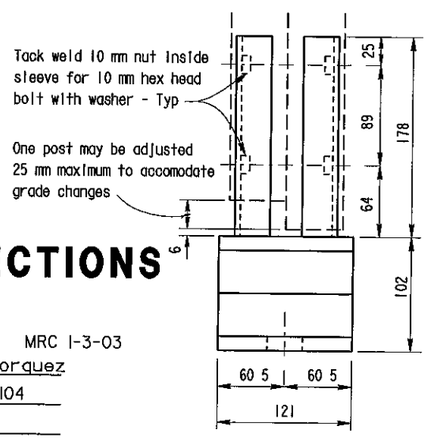


VIEW B-B

(Developed view of upper bracket)

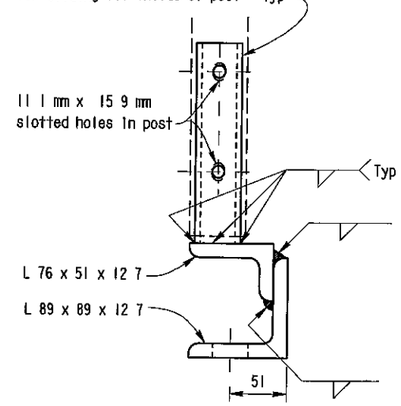


PLAN



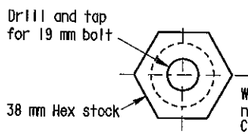
ELEVATION

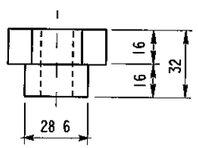
Sleeve formed from PL 4 7, bent thus ⊔ for sliding fit inside of post - Typ



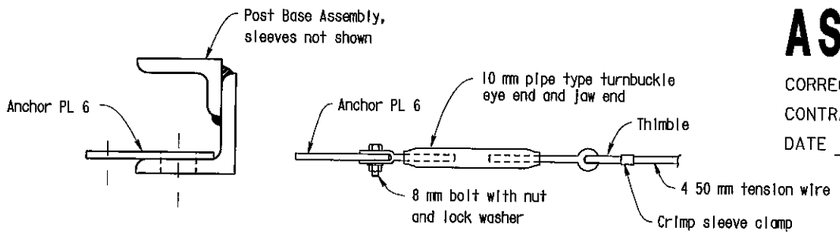
SIDE VIEW

POST BASE ASSEMBLY





NUT/BOLT EXTENSION



BOTTOM ANCHORAGE DETAIL

NO CORRECTIONS AS BUILT

MRC 1-3-03

CORRECTIONS BY John Borquez

CONTRACT NO 06-440104

DATE 11-14-02

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	132	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DIOSDADO ACOBA No 52003 Exp 12-31 02 CIVIL STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

DESIGN	BY D Acoba	5/00	CHECKED F Tannous	5/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY K Endow	5/00	CHECKED F Tannous	5/00	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE
QUANTITIES	BY D Acoba	5/00	CHECKED F Tannous	5/00	CU 06015 EA 440101

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
CHAIN LINK RAILING TYPE 6 MOD NO. 3

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

FILE > nat63 dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

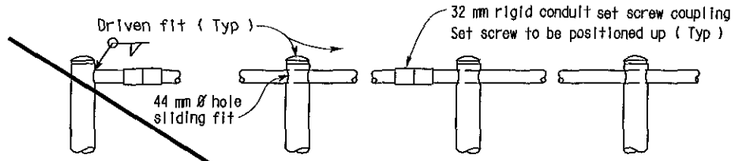
REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 7/17/00 9/26/00 10/3/00

SHEET 10 OF 11

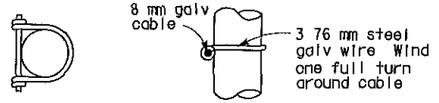
USERNAME > mgarlson DATE PLOTTED > 03 JAN 2003 TIME PLOTTED > 13:26

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RELEASED 6-9-98



END POST **INTERMEDIATE POSTS**



PLAN **ELEVATION**

DETAIL H

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
06	Fre	99	23 3/50 7	133	133

10-3-00
REGISTERED ENGINEER - CIVIL

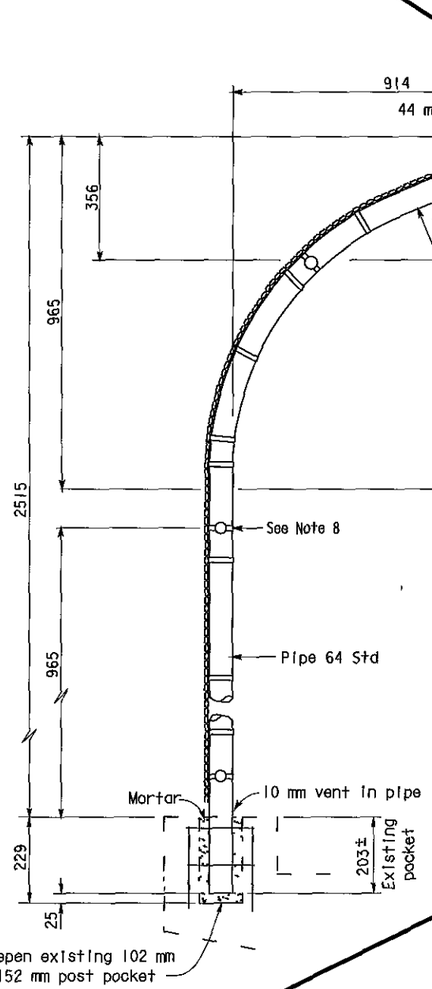
11-13-00
PLANS APPROVAL DATE

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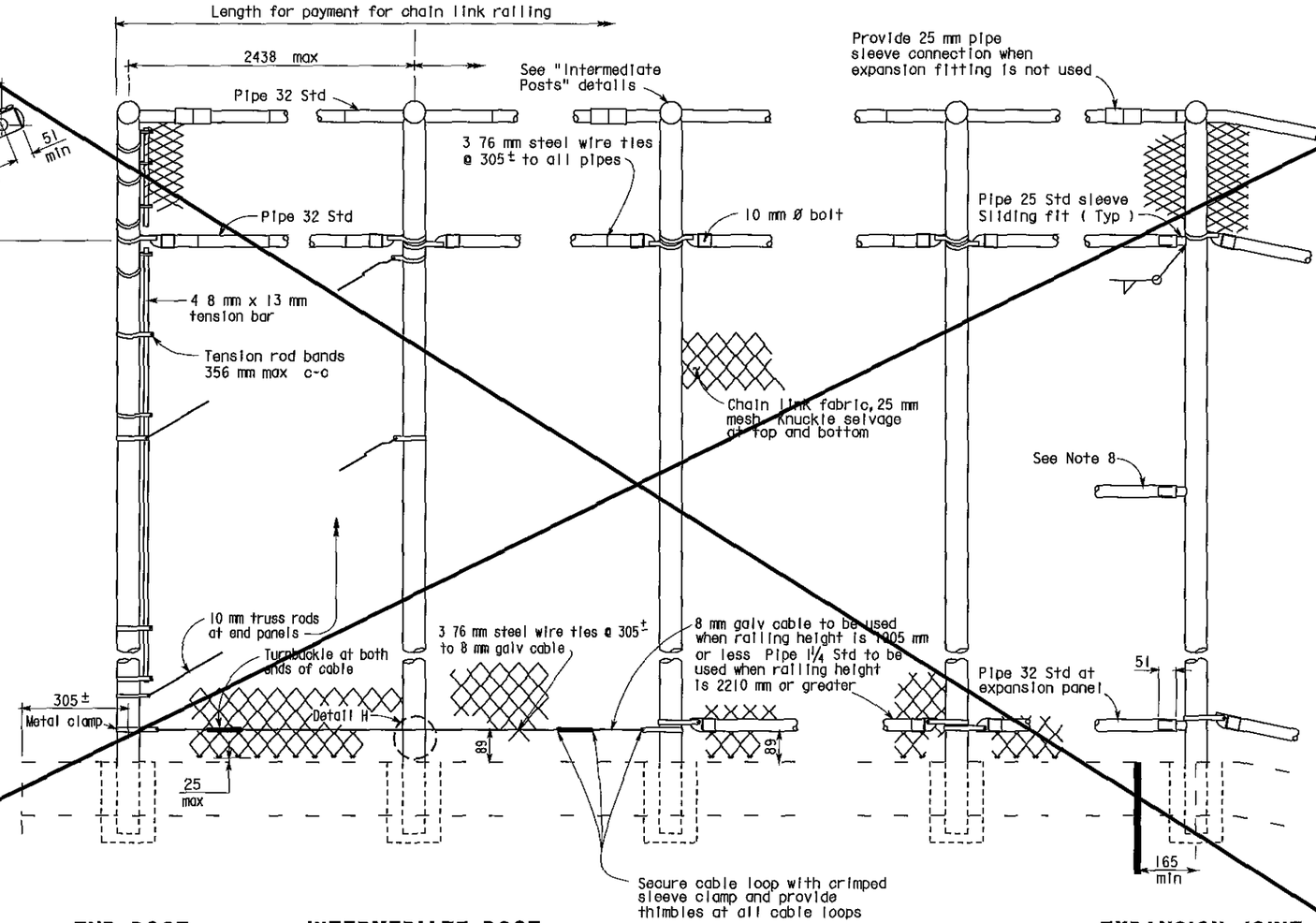
REGISTERED PROFESSIONAL ENGINEER
DIOSDADO ACOBA
No 52003
Exp 12 31 02
CIVIL
STATE OF CALIFORNIA

NOTES:

1 Railing assembly except chain link fabric to be galvanized after fabrication
2 Railing shall conform to horizontal and vertical alignment Posts shall be vertical Horizontal pipes shall be bent if radius is 45 72 m or less may be on 2 438 m chords If radius is over 45 72 m
3 Peen all 10 mm Ø bolts
4 When railing is on slope fabric shall parallel to slope
5 Alternative details may be submitted by Contractor for Engineer's approval
6 Additional pipe 32 std required on radius less than 45 72 m



TYPICAL POST DETAIL



END POST **INTERMEDIATE POST** **EXPANSION JOINT**

ELEVATION

Sheet Deleted

No Type 3 Modified Railing was used on this contract

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

SPECIAL DETAIL

NO SCALE
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

STANDARD DRAWING				
FILE NO XS 9 81	DESIGN BY R W BISHOP	CHECKED J HAMAGUCHI	APPROVAL RECOMMENDED BY	
DRAWING DATE Revised	DETAILS BY R YEE	CHECKED J HAMAGUCHI		
	SUBMITTED BY R W BISHOP		DESIGN SUPERVISOR	

DS OSD 2147A (METRIC) (REV 2/25/97)

1 Revised sheet - removed handrailing and electrical details and notes

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

CU 06105
EA 452001

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
CHAIN LINK RAILING TYPE 3 MOD 1

DISREGARD PRINTS BEARING EARLIER REVISION DATES
REVISION DATES (PRELIMINARY STAGE ONLY) 5/30/00 7/17/00 9/28/00 10/3/00

SHEET 11 OF 11

USERNAME > mgarlson
x5981 dgn
XS981 DGN

DATE PLOTTED > 03-JAN-2003 TIME PLOTTED > 13 32

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NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Caltrans Metric

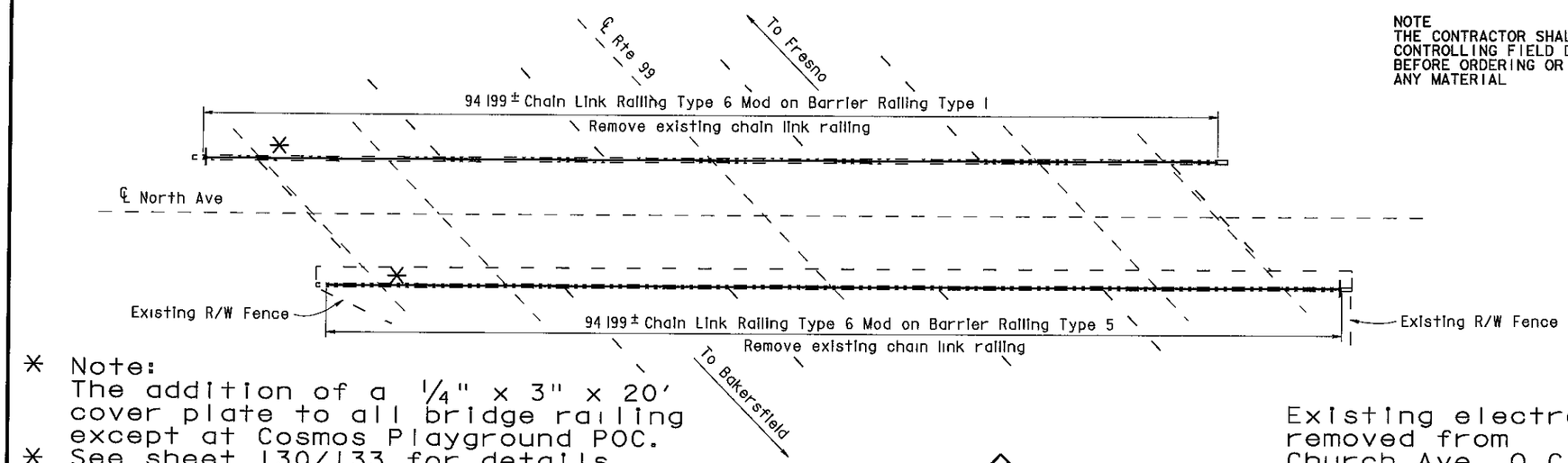
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	123	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DIOSDADO ACOBA
No 52003
Exp 12-31-02
CIVIL
STATE OF CALIFORNIA

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* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

NORTH AVENUE OC

Br No 42-0210, Fre, KP 27 8
1 250

Existing electroliers removed from Church Ave. O.C.

NOTES

— — Indicates existing

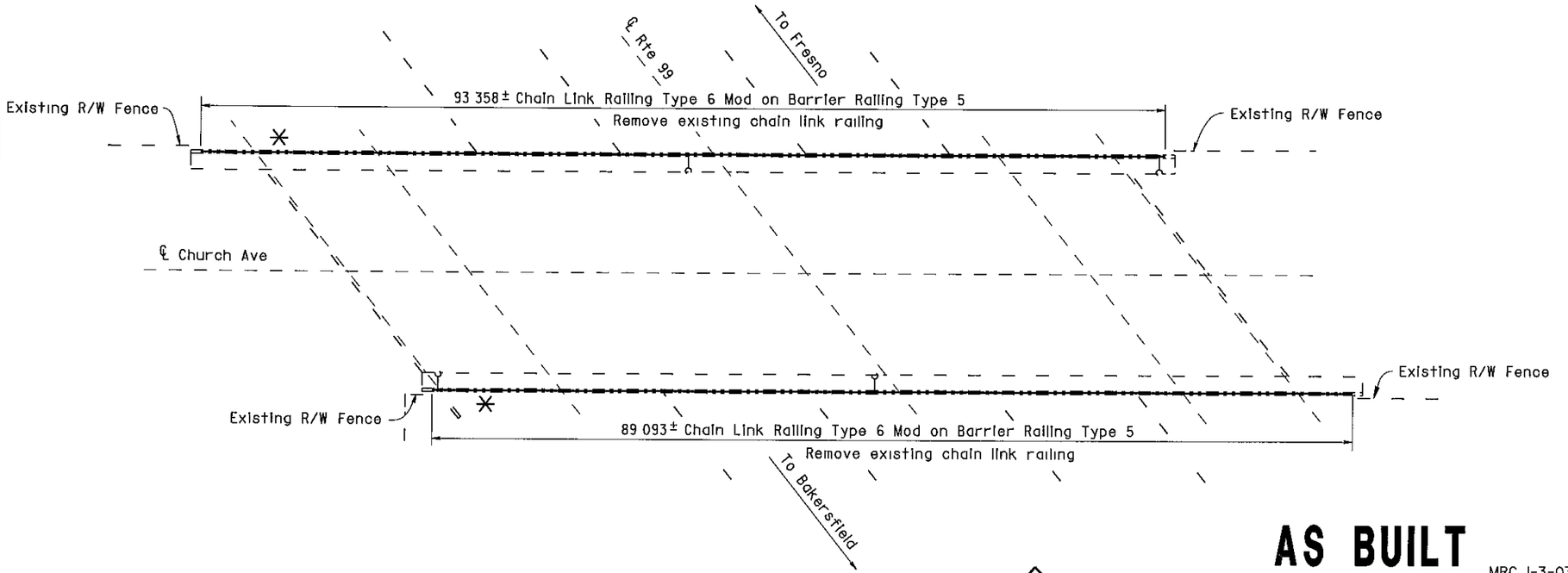
℄ Indicates approximate location of existing electrolier (To remain)

Indicates approximate location of remove and reinstall sign on new post

Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details

INDEX TO PLANS

SHEET NO	TITLE
1	GENERAL PLAN NO 1
2	GENERAL PLAN NO 2
3	GENERAL PLAN NO 3
4	GENERAL PLAN NO 4
5	GENERAL PLAN NO 5
6	GENERAL PLAN NO 6
7	GENERAL PLAN NO 7
8	CHAIN LINK RAILING TYPE 6 MOD NO 1
9	CHAIN LINK RAILING TYPE 6 MOD NO 2
10	CHAIN LINK RAILING TYPE 6 MOD NO 3
11	CHAIN LINK RAILING TYPE 3 MOD



CHURCH AVENUE OC

Br No 42-0214, Fre, KP 30 9
1 250

AS BUILT MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

NORTH AVENUE OC 42-0210
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION A	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	189 m

CHURCH AVENUE OC 42-0214
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION B	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	183 m

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED		BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00	LAYOUT	K Endow	4/00	D Acoba	4/00
DETAILS	K Endow	4/00	F Tannous	5/00				PLANS AND SPECS COMPARED	
QUANTITIES	D Acoba	5/00	F Tannous	5/00	SPECIFICATIONS	J Maroney	9/00	J Maroney	9/00

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 1

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 5/15/00 7/17/00 9/26/00 10/3/00

SHEET 1 OF 11

FILE -> nagpl.dgn

USERNAME -> mgarson DATE PLOTTED -> 02 JAN 2003 TIME PLOTTED -> 16:55

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	99	23 3/50 7	125	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

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VENTURA STREET OC 42-0158K
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION E	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	78 m

VENTURA STREET OC 42-0158E
QUANTITIES

BRIDGE REMOVAL (PORTION) LOCATION F	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	122 m

VENTURA STREET OC 42-0158S
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION G	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	74 m

NOTES

— — Indicates existing

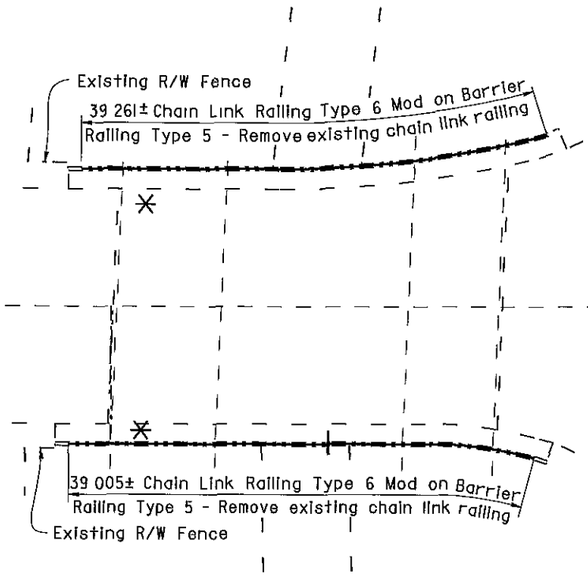
℄ Indicates approximate location of existing electroller (To remain)

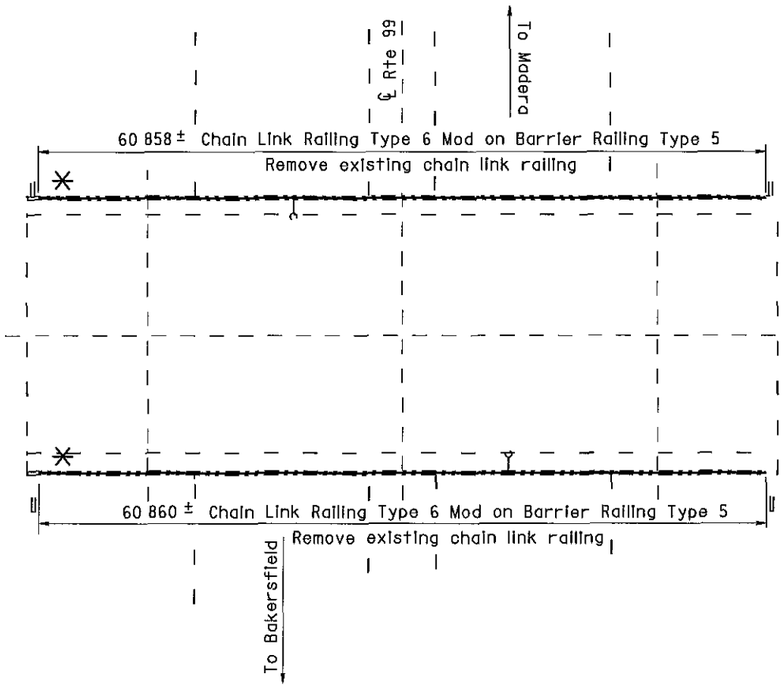
Indicates approximate location of remove and reinstall sign on new post

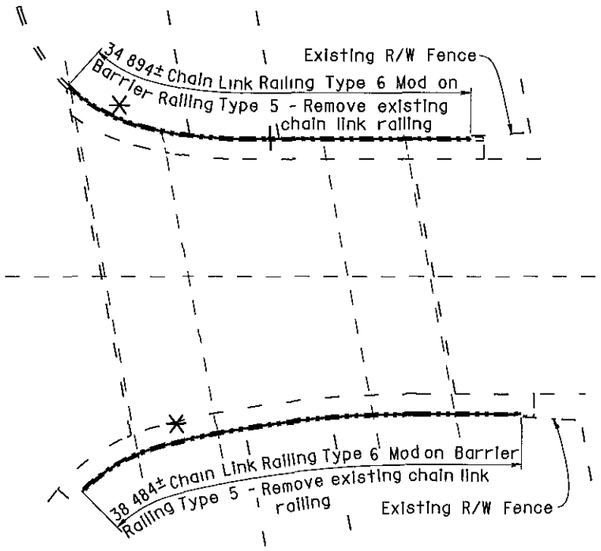
Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.







Br No 42-0158K

Bridges 42-0158K and 42-0158S were both painted with Color No. 20109 - "Deep red".

Br No. 42-0158E

VENTURA STREET OC

Fre, KP 32 5
I 250

AS BUILT
MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

Br No 42-0158S

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

	BY		CHECKED			BY		CHECKED			
DESIGN	D Acoba	4/00	F Tannous	5/00	LAYOUT	K Endow	4/00	D Acoba	4/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE
DETAILS	K Endow	4/00	F Tannous	5/00				PLANS AND SPECS COMPARED			
QUANTITIES	D Acoba	5/00	F Tannous	5/00	SPECIFICATIONS	J Maroney	9/00	J Maroney	9/00		

Michael J Lee 10/3/00
DESIGN ENGINEER

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE => nagp3.dgn

BRIDGE NO Various
KILOMETER POST Varies

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/17/00 | 9/28/00 | 10/1/00

ROUTE 99 BRIDGES
GENERAL PLAN NO. 3

SHEET 3 OF 11

USERNAME => mcarlson DATE PLOTTED => 03 JAN 2003 TIME PLOTTED => 08 32

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	129	133

10/3/00
REGISTERED CIVIL ENGINEER

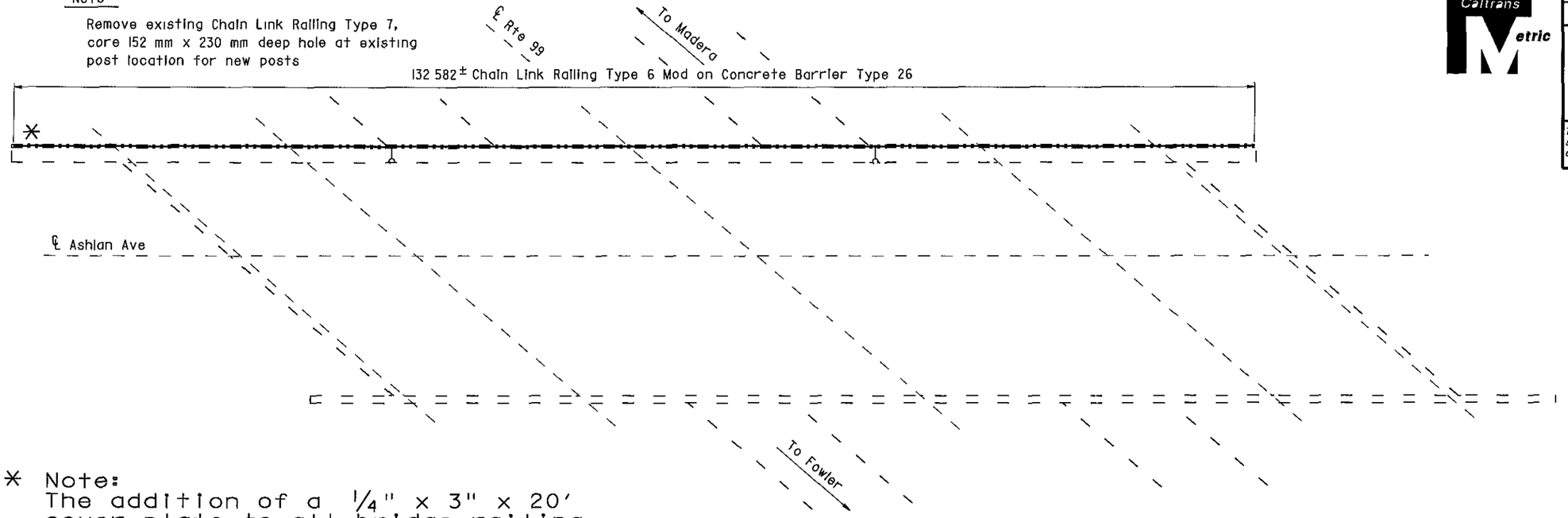
11-13-00
PLANS APPROVAL DATE

DIOSDADO ACOBA No 52003 Exp 12-31-02 CIVIL STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

Note

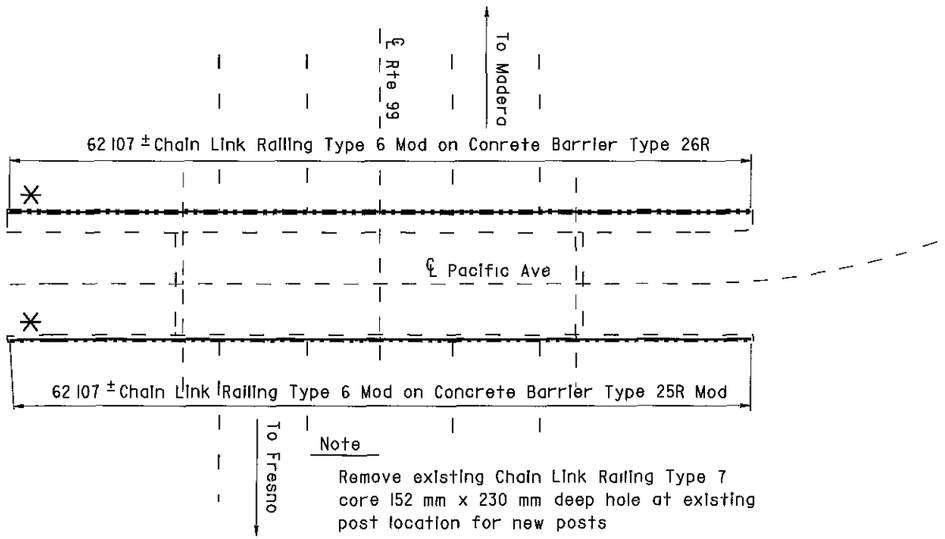
Remove existing Chain Link Railing Type 7, core 152 mm x 230 mm deep hole at existing post location for new posts



* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

ASHLAN AVENUE OC

Br No 42-0140, Fre, KP 42 8
1 250



Note

Remove existing Chain Link Railing Type 7 core 152 mm x 230 mm deep hole at existing post location for new posts

PACIFIC AVENUE OC

Br No 42-0189, Fre, KP 36 0
1 250

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

NOTES

— — Indicates existing

℄ ↓ Indicates approximate location of existing electrolier (To remain)

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

ASHLAN AVENUE OC 42-0140
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION O	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	133 m

PACIFIC AVENUE OC 42-0189
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION P	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	124 m

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

DESIGN	BY D Acoba 4/00	CHECKED F Tannous 5/00	LAYOUT	BY K Endow 4/00	CHECKED D Acoba 4/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE
DETAILS	BY K Endow 4/00	CHECKED F Tannous 5/00					
QUANTITIES	BY D Acoba 5/00	CHECKED F Tannous 5/00	SPECIFICATIONS	BY J Maroney 9/00	PLANS AND SPECS COMPARED J Maroney 9/00		

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 7

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE => nagp7.dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 5/15/00 7/17/00 9/26/00 10/3/00

SHEET 7 OF 11

USERNAME -> mgarrison DATE PLOTTED => 03 JAN 2003 TIME PLOTTED => 11:45

ClibPDF - www.fastio.com

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	128	133

10/3/00
REGISTERED CIVIL ENGINEER

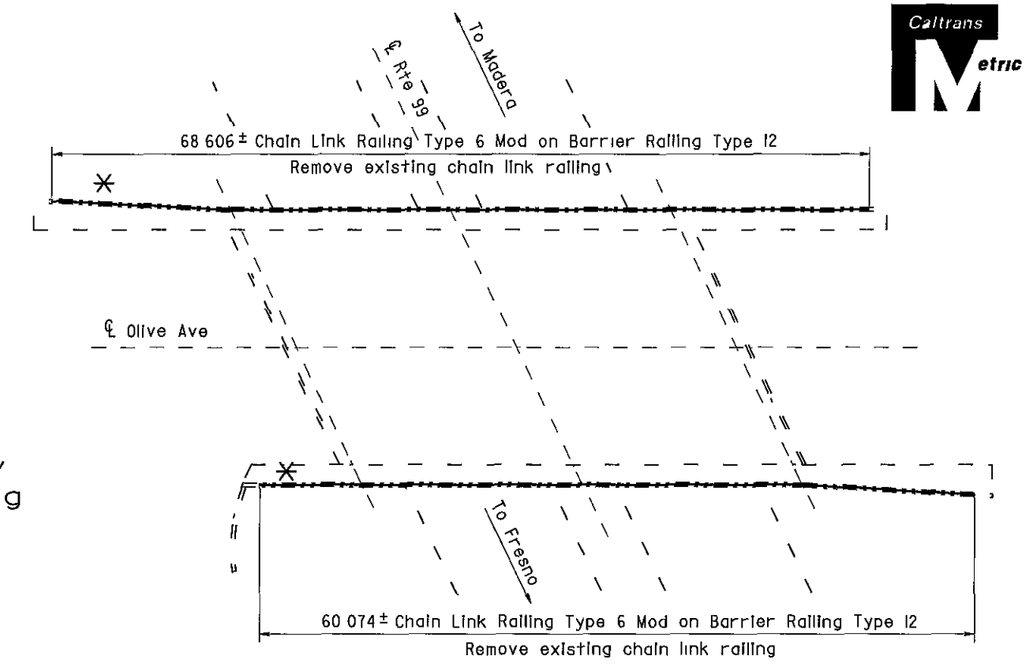
11-13-00
PLANS APPROVAL DATE

DIOSDADO ACOBA No 52003 Exp 12-31 02 CIVIL STATE OF CALIFORNIA REGISTERED PROFESSIONAL ENGINEER

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.



OLIVE AVENUE OC

Br No 42-0187, Fre, KP 37 5
1 250

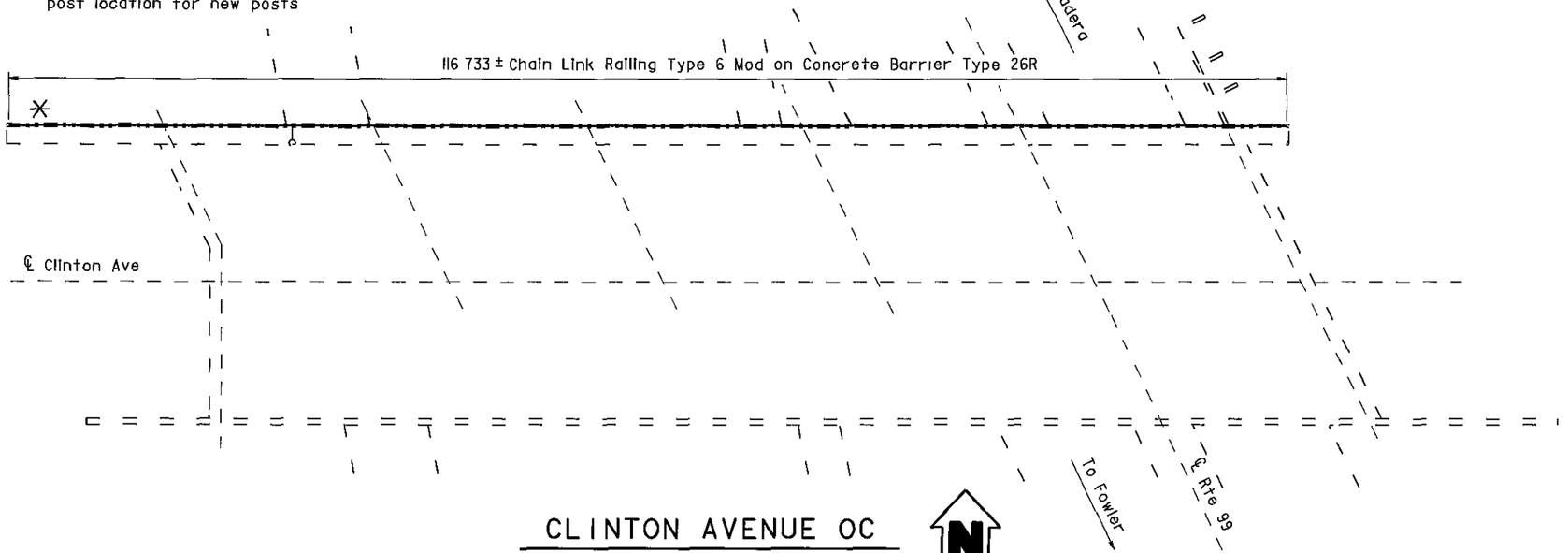
NOTES

— — Indicates existing

℄ Indicates approximate location of existing electrolier (To remain)

Note

Remove existing Chain Link Railing Type 7 core 152 mm x 230 mm deep hole at existing post location for new posts



CLINTON AVENUE OC

Br No 42-0183, Fre, KP 39 3
1 250

OLIVE AVENUE OC 42-0187
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION M	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	129 m

CLINTON AVENUE OC 42-0183
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION N	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	116 m

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED		BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00	LAYOUT	K Endow	4/00	D Acoba 4/00
DETAILS	K Endow	4/00	F Tannous	5/00				
QUANTITIES	D Acoba	5/00	F Tannous	5/00	SPECIFICATIONS	J Maroney	9/00	PLANS AND SPECS COMPARED J Maroney 9/00

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 6

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE => nagp6.dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/17/00 | 9/26/00 | 10/3/00

SHEET 6 OF 11

USERNAME => mcarlson DATE PLOTTED => 03 JAN-2003 TIME PLOTTED => 08 53

ClibPDF - www.fastio.com

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	127	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

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FRESNO STREET OC 42-0170
QUANTITIES

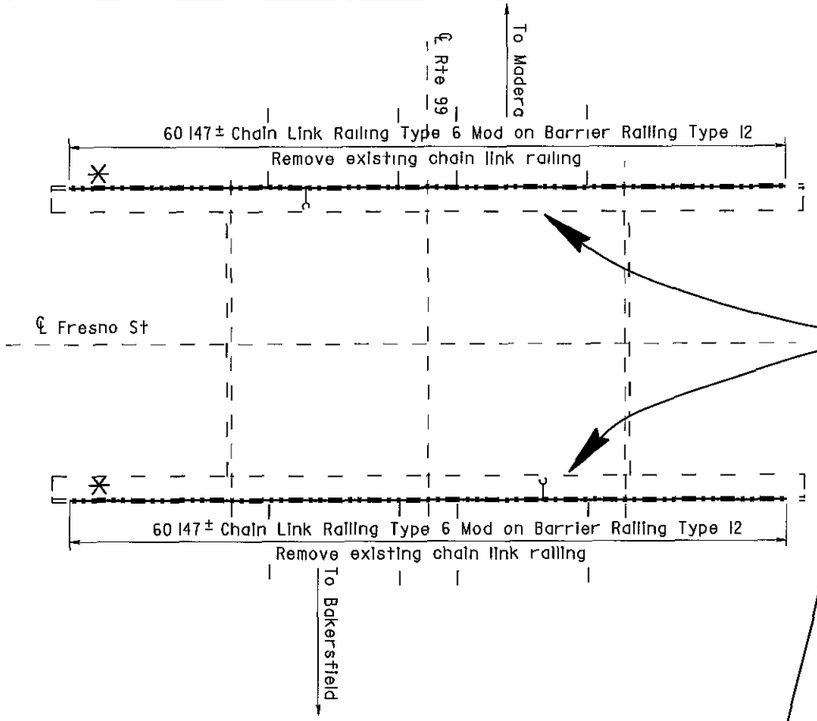
BRIDGE REMOVAL (PORTION), LOCATION J	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	120 m

EL DORADO STREET OC 42-0184
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION K	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	122 m

BELMONT AVENUE OC 42-0186
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION L	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	138 m



Handrail added to Fresno St. and Belmont Ave. OC

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

NOTES

— — Indicates existing

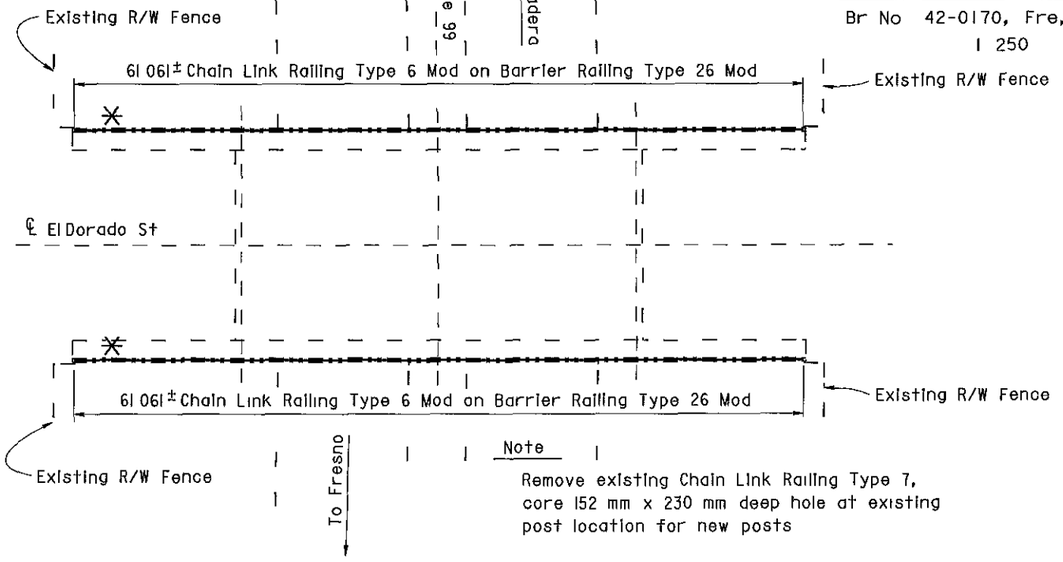
℄ Indicates approximate location of existing electrolier (To remain)

Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

FRESNO STREET OC

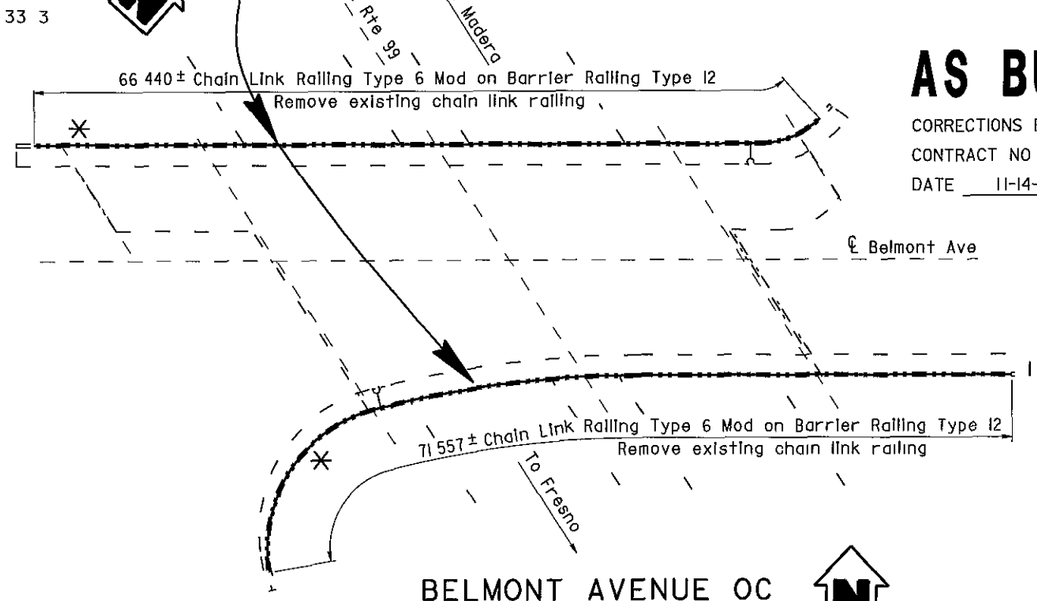
Br No 42-0170, Fre, KP 33 3
1 250



Note
Remove existing Chain Link Railing Type 7, core 152 mm x 230 mm deep hole at existing post location for new posts

EL DORADO STREET OC

Br No 42-0184, Fre, KP 34 6
1 250



BELMONT AVENUE OC

Br No 42-0186, Fre, KP 36 5
1 250

AS BUILT
MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED		LAYOUT	BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00		K Endow	4/00	D Acoba	4/00
DETAILS	K Endow	4/00	F Tannous	5/00				PLANS AND SPECS COMPARED	
QUANTITIES	D Acoba	5/00	F Tannous	5/00	SPECIFICATIONS	J Maroney	9/00	J Maroney	9/00

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

CU 06015
EA 440101

FILE => nogp5.dgn

BRIDGE NO	Various
KILOMETER POST	Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 5

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)									
5/15/00	7/17/00	9/26/00	10/3/00						

SHEET 5 OF 11

USERNAME => marison DATE PLOTTED => 03-JAN 2003 TIME PLOTTED => 06 50

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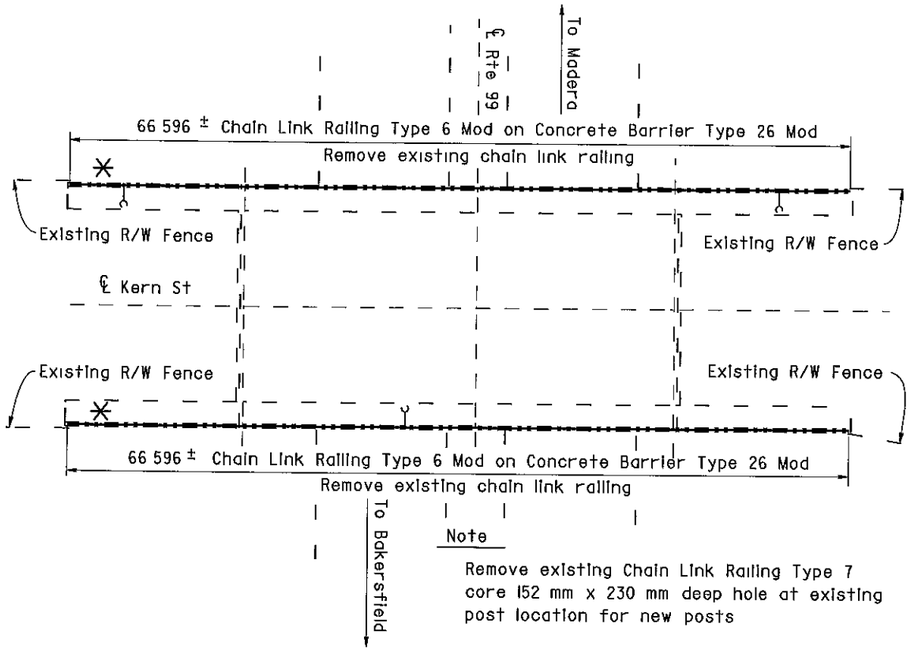
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	126	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

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Note

Remove existing Chain Link Railing Type 7 core 152 mm x 230 mm deep hole at existing post location for new posts

KERN STREET OC

Br No 42-0159, Fre, KP 33 0
1 250

KERN STREET OC 42-0159
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION H	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	133 m

TULARE STREET OC 42-0169
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION I	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	166 m

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

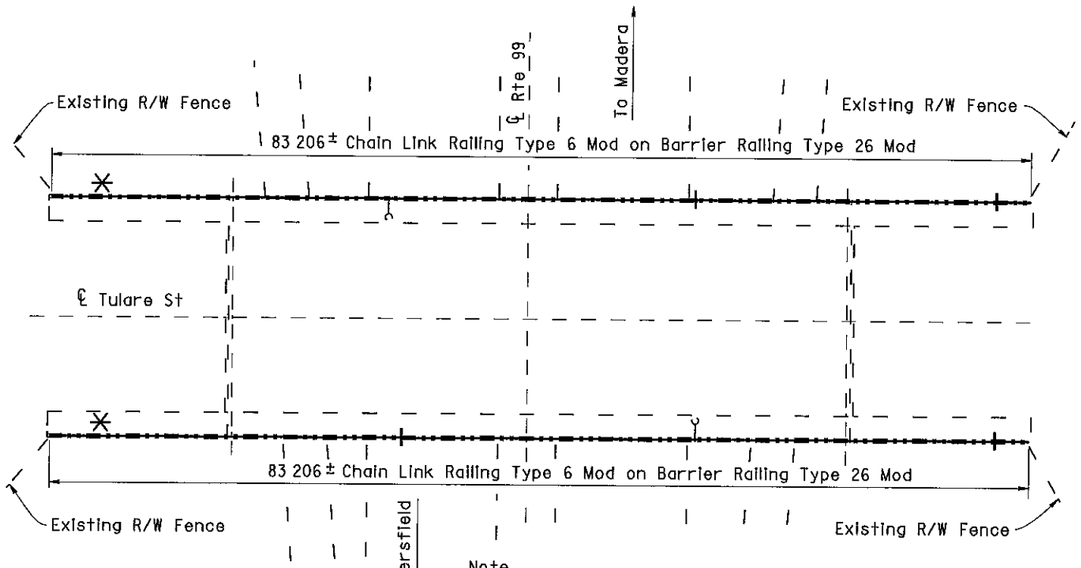
NOTES

— — Indicates existing

℄ Indicates approximate location of existing electrolier (To remain)

Indicates approximate location of remove and reinstall sign on new post

Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details



Note

Remove existing Chain Link Railing Type 7 core 152 mm x 230 mm deep hole at existing post location for new posts

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

TULARE STREET OC

Br No 42-0169, Fre, KP 33 2
1 250

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00 DESIGN ENGINEER	DESIGN	BY D Acoba 4/00	CHECKED F Tannous 5/00	LAYOUT	BY K Endow 4/00	CHECKED D Acoba 4/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE	BRIDGE NO Various
	DETAILS	BY K Endow 4/00	CHECKED F Tannous 5/00						KILOMETER POST Varies
	QUANTITIES	BY D Acoba 5/00	CHECKED F Tannous 5/00	SPECIFICATIONS	BY J Maroney 9/00	PLANS AND SPECS COMPARED J Maroney 9/00		CU 06015 EA 440101	DISREGARD PRINTS BEARING EARLIER REVISION DATES

ROUTE 99 BRIDGES
GENERAL PLAN NO. 4

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 7/17/00 9/26/00 10/3/00

SHEET 4 OF 11

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

FILE > nagp4 dgn

USERNAME > mcarlson DATE PLOTTED > 03-JAN-2003 TIME PLOTTED => 08:38

ClibPDF - www.fastio.com

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	124	133

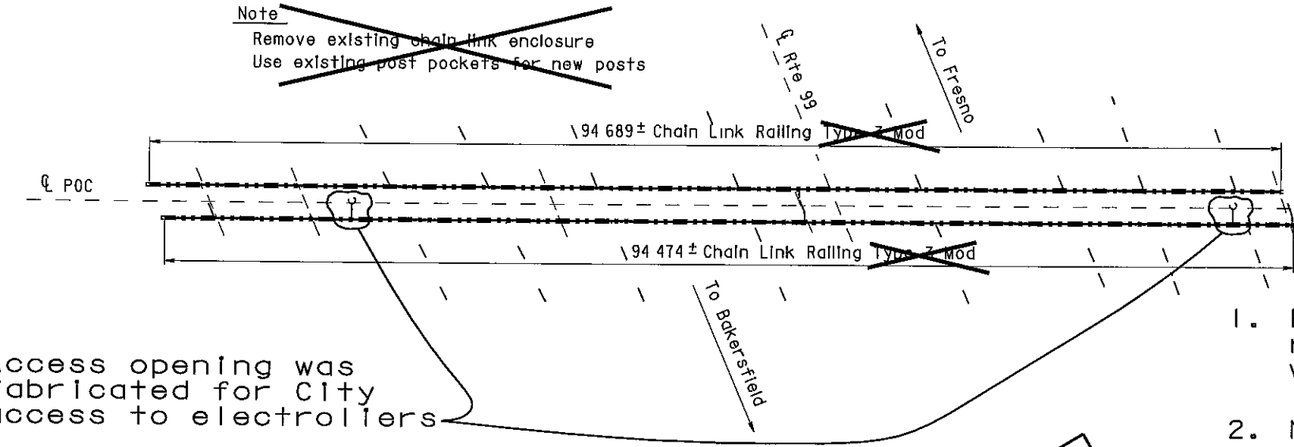
10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

Note
Remove existing chain link enclosure
Use existing post pockets for new posts



COSMOS PLAYGROUND POC

Br No 42-0215, Fre, KP 31 2
1 250

1. Existing chain link railing remained and was painted.
2. New 1" mesh was installed and replaced the old 2" mesh.
3. Existing electroliers remained.

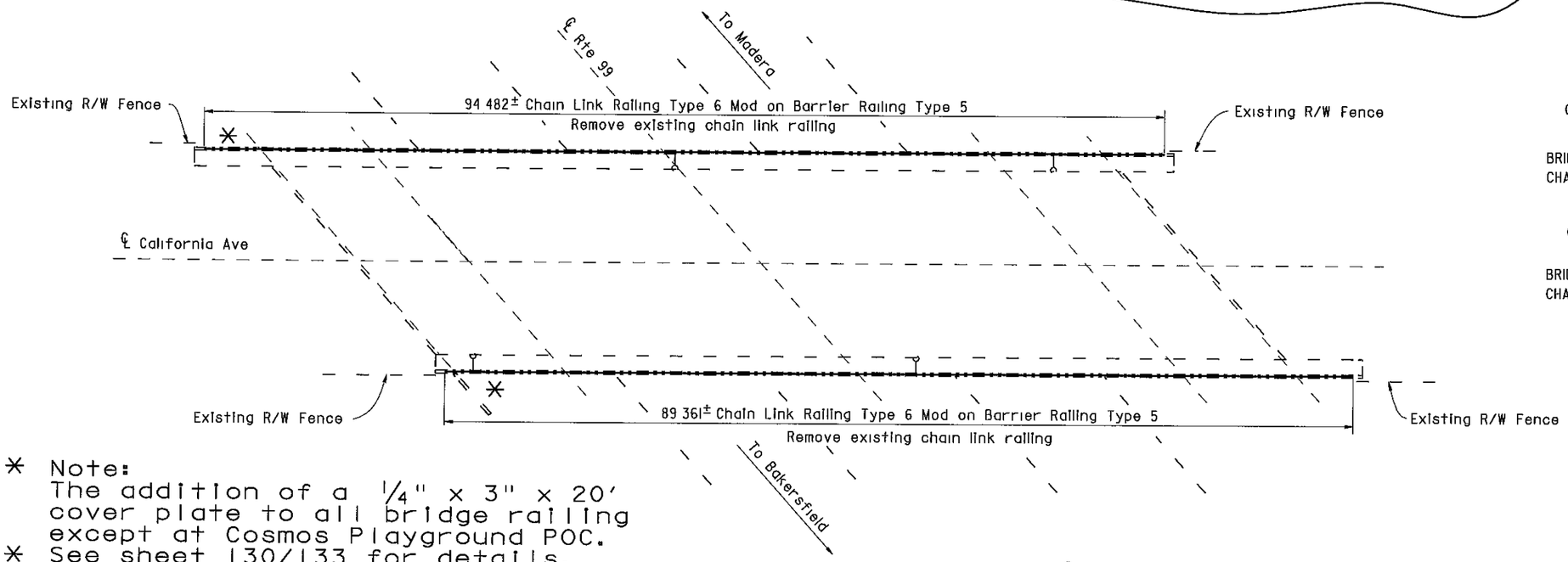
NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

NOTES

— — Indicates existing

℄ Indicates approximate location of existing electroliter (To remain)

Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details



COSMOS PLAYGROUND POC 42-0215
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION C	LUMP SUM
CHAIN LINK RAILING (TYPE 3 MODIFIED)	209 m

CALIFORNIA AVENUE OC 42-0217
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION D	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	184 m

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

CALIFORNIA AVENUE OC

Br No 42-0217, Fre, KP 32 0
1 250

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borguez
CONTRACT NO 06-440104
DATE 11-14-02

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00
DETAILS	K Endow	4/00	F Tannous	5/00
QUANTITIES	D Acoba	5/00	F Tannous	5/00
LAYOUT	K Endow	4/00	D Acoba	4/00
SPECIFICATIONS	J Maroney	9/00	J Maroney (PLANS AND SPECS COMPARED)	9/00

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

CU 06015
EA 440101

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 2

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/12/00 | 9/26/00 | 10/3/00

SHEET 2 OF 11

FILE -> nagp2.dgn

USERNAME -> morrison DATE PLOTTED -> 03 JAN 2003 TIME PLOTTED -> 08:15

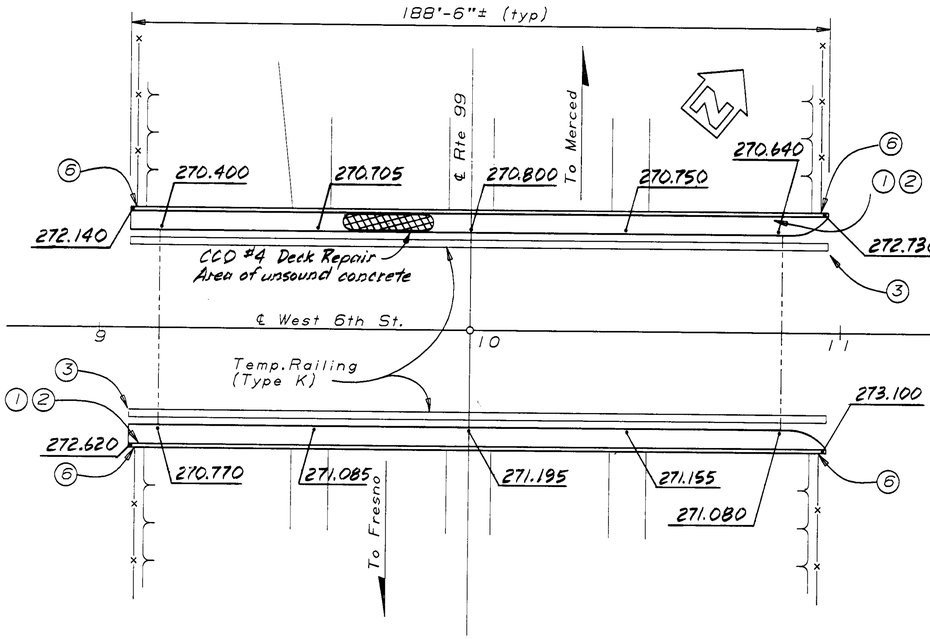
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	17	39

REGISTERED ENGINEER - CIVIL

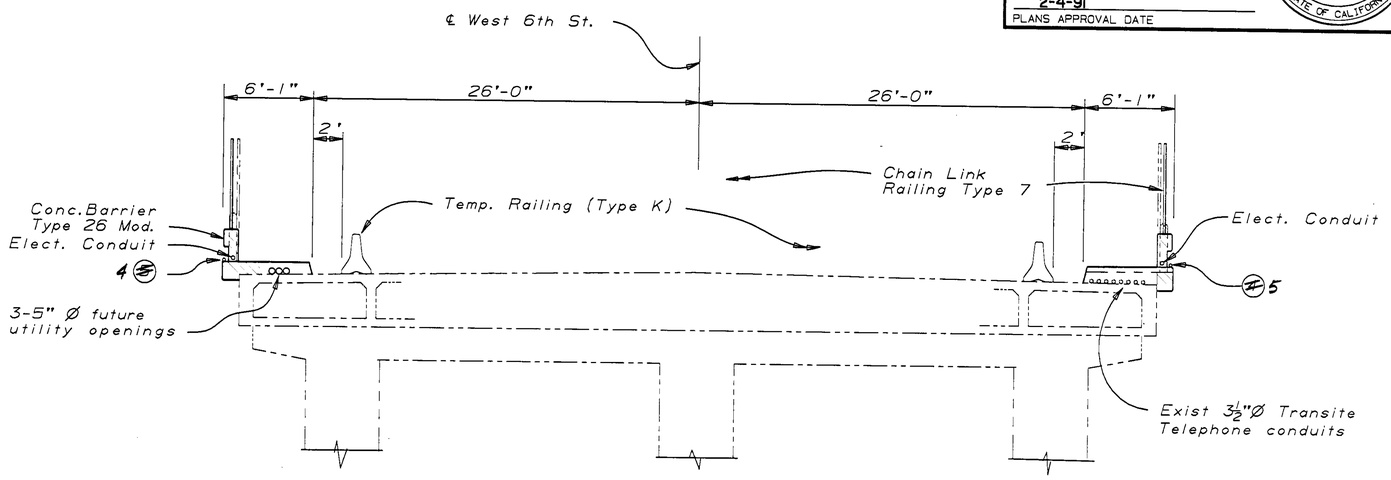
REGISTERED PROFESSIONAL ENGINEER
GARY JOE
No. 36652
Exp. 6-30-90
CIVIL
STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE



PLAN

1" = 20'



TYPICAL SECTION

1"=5'

AS BUILT
DOS 12/8/92
CORRECTIONS BY J. Abercrombie
CONTRACT NO. 06-282204
DATE 8-3-92

APPROXIMATE QUANTITIES

TEMPORARY RAILING (TYPE K)	400 LF
RESET 2 ~~1½"~~ SUPPLY LINE (BRIDGE)	LUMP SUM
BRIDGE REMOVAL (PORTION), LOCATION B	LUMP SUM
REFINISH BRIDGE DECK	169 SQFT

FINAL PAY QUANTITIES

CHAIN LINK RAILING (TYPE 7)	377 LF
CONCRETE BARRIER (TYPE 26 MODIFIED)	377 LF

Notes:

1. Paint "West 6th Street Overcrossing", and year constructed.
2. Paint "Br. No. 41-48".
3. Temporary Crash Cushion Modules, see "Road Plans."
4. Remove existing 2½"Ø water supply line prior to construction and reinstall after barrier rail is complete. Provide temporary water supply line during construction.
5. Remove existing electrical conduit prior to construction. Provide temporary electrical conduit during construction.
6. Remove end post of existing Right of Way Fence prior to construction. Replace and reconnect end post and Fence after Barrier Rail is complete.

Indicates limits of existing Structure removal.

Indicates existing structure.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

WEST SIXTH STREET OVERCROSSING

I M Stoki 12-90
DESIGN ENGINEER

DESIGN	BY D. Ross 9-90	CHECKED G. Joe 9-90	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
DETAILS	BY Flo Callen 5-90	CHECKED G. Joe 9-90	LAYOUT	BY D. Ross 9-90	CHECKED G. Joe 9-90
QUANTITIES	BY D. Ross 9-90	CHECKED S. Maan 9-90	SPECIFICATIONS	BY R. J. Cochrane	PLANS AND SPECS COMPARED R. J. Cochrane

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 9

CU 06200
EA 282201

BRIDGE NO.	41-48
POST MILE	10.3

CONCRETE BARRIER REPLACEMENT
GENERAL PLAN NO. 2

DS OSD 2138 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 5-15-90 | 8-10-90 | 9-7-90 | 9-13-90 | 9-27-90 | 10-1-90 | 10-3-90 | 11-5-90 | 11-26-90

SHEET	OF
2	24

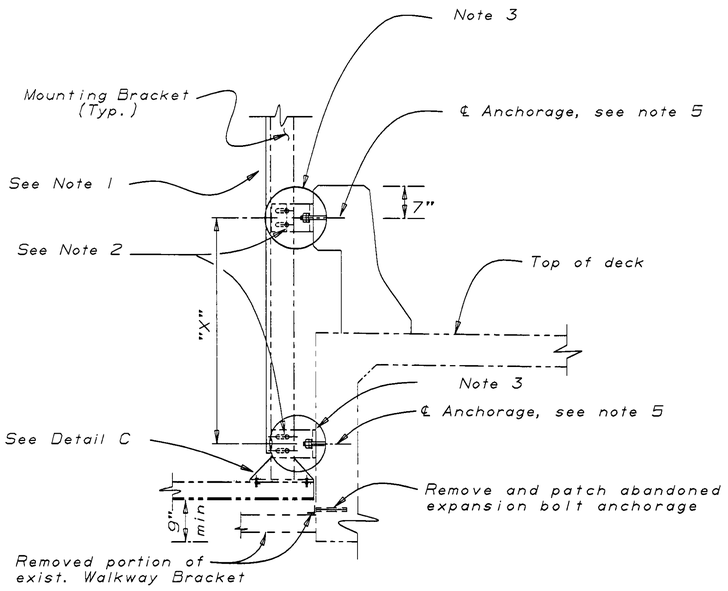
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	36	39

REGISTERED ENGINEER - CIVIL

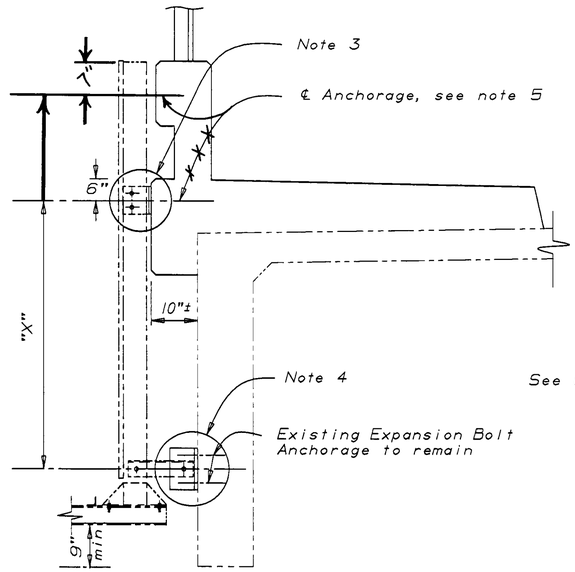
REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE



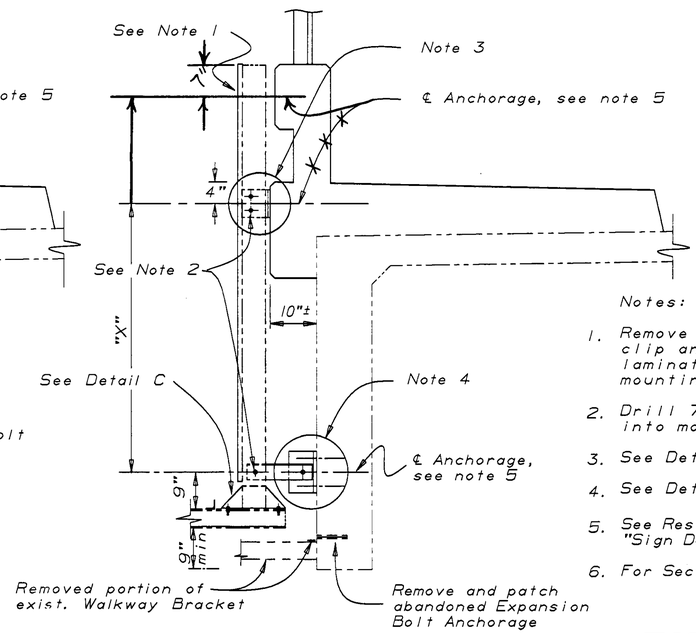
SOUTH MADERA OC. FNBT
PACIFIC AVE. OC. FNBT

$\frac{3}{4}$"=1'-0"



KERN ST. OC. FSBT

$\frac{3}{4}$"=1'-0"



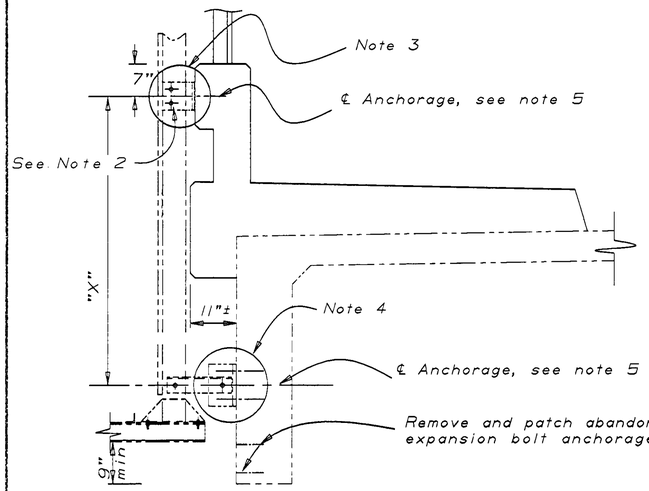
KERN ST. OC. FNBT

$\frac{3}{4}$"=1'-0"

Notes:

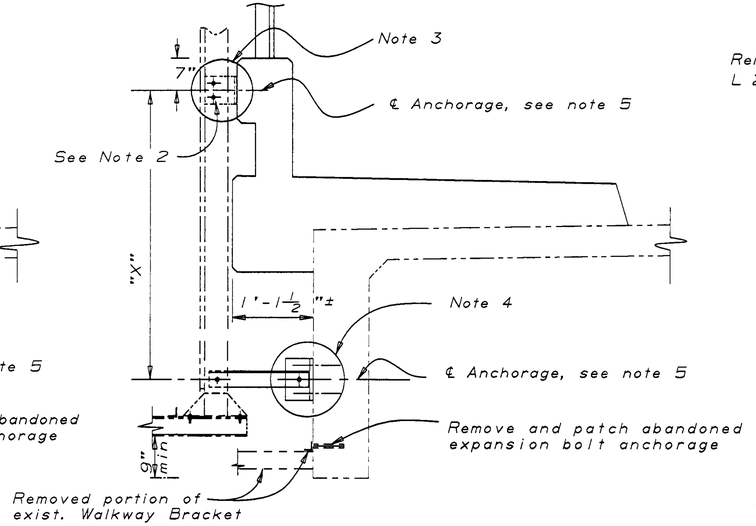
1. Remove existing sign panel and mounting clip angle. Replace with State furnished laminated panel type "A". Drill holes into mounting bracket as needed.
2. Drill 7/8" dia. holes for 3/4" H.S. bolts into mounting bracket.
3. See Detail "A" on "Sign Details No. 2" sheet.
4. See Detail "B" on "Sign Details No. 2" sheet.
5. See Resin Capsule Bolt Anchorage on "Sign Details No. 2" sheet.
6. For Section D-D see "Sign Details No. 2" sheet.

———— Indicates existing structure.



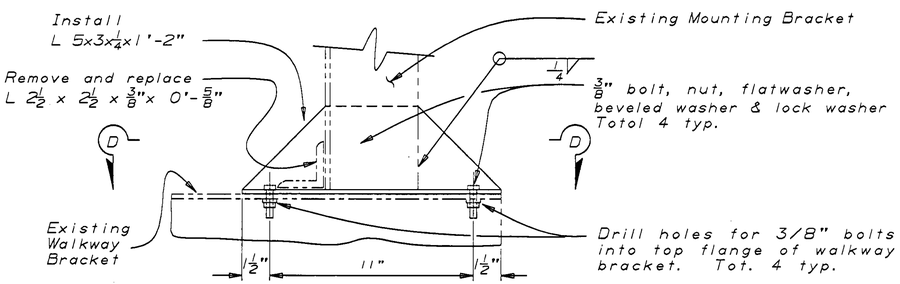
EL DORADO ST. OC. FNBT

$\frac{3}{4}$"=1'0"



W. YOSEMITE AVE. OC. FNBT

$\frac{3}{4}$"=1'-0"



DETAIL C

3"= 1'-0"

W.A.R 3-11-93
CORRECTED J. ABERCROMBIE
CONTRACT NO. 06-282204
DATE 8-3-92

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

	Detail A		Detail B
	"X"	"Y" Top	"Y" Btm	"Z"
S. MADERA ST. OC.	4'-1"	9½"	10"	N/A
PACIFIC AVE. OC.	3'-10"	11½"	10"	N/A
W. YOSEMITE AV. OC.	~~3'-10½"~~ 3'-9"	Existing		1'-5¾"
KERN ST. OC. FNBT	~~3'-1"~~ 5'-4"	Existing		1'-2¼"
KERN ST. OC. FSBT	~~Existing~~ 5'-4"	Existing		Existing
TULARE ST. OC.	~~5'-8"~~ 4'-6"	5¼"		1'-2¼"
EL DORADO ST. OC.	4'-~~7~~ 4"	Existing		Existing

DESIGN	BY D.ROSS 9-90	CHECKED G. Joe 9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9	BRIDGE NO. Various
DETAILS	BY [signature] 9-90	CHECKED G. Joe 9-90			POST MILE
QUANTITIES	BY D.ROSS 9-90	CHECKED S. Maan 9-90			

CONCRETE BARRIER REPLACEMENT
SIGN DETAILS NO. 1

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 9-21-90 | 9-24-90 | 9-14-90 | 9-25-90

SHEET 21 OF 24

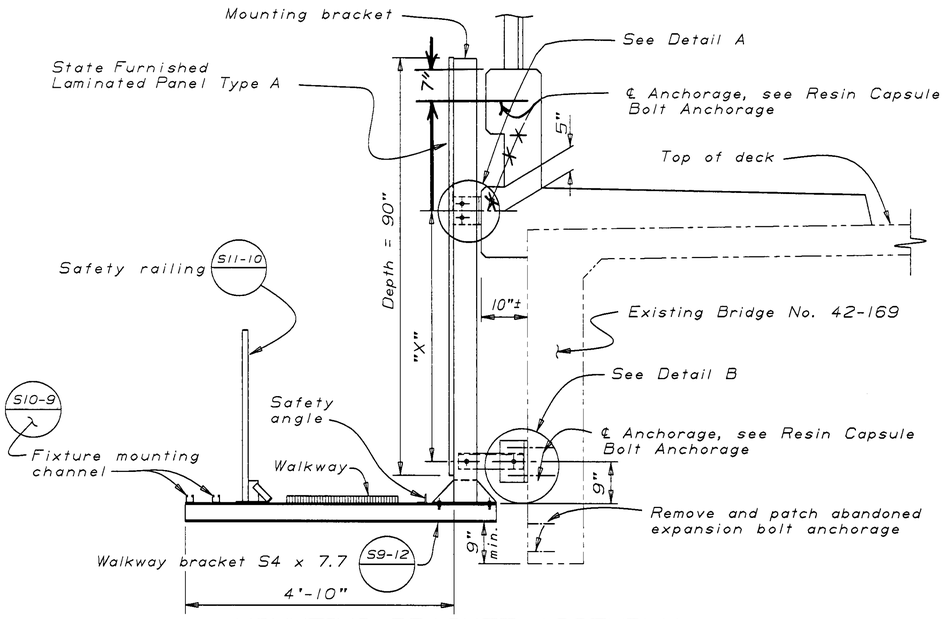
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	37	39

REGISTERED ENGINEER - CIVIL

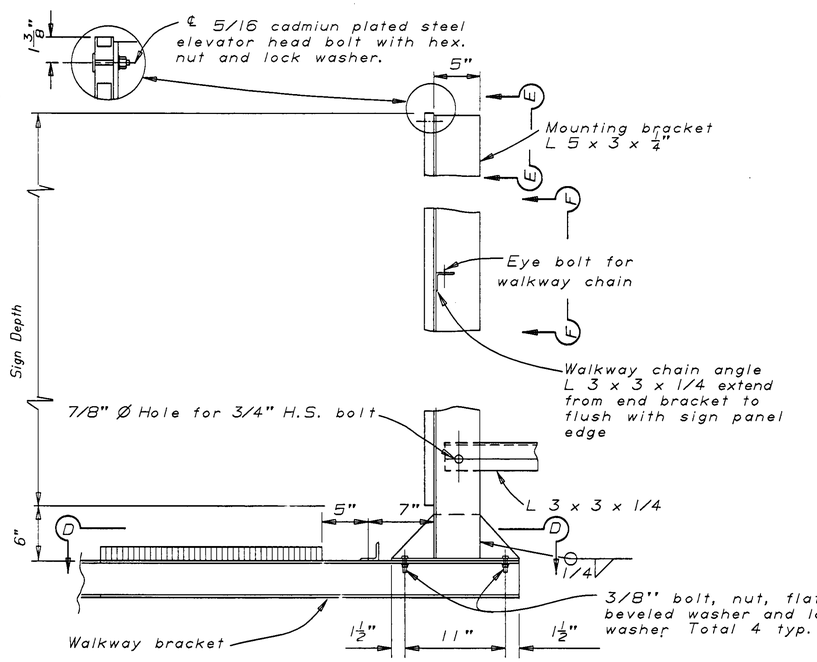
REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE

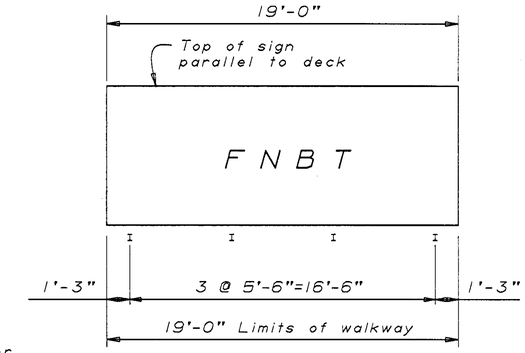


MOUNTING BRACKET ASSEMBLY

$\frac{3}{4}$"=1'-0"



MOUNTING BRACKET ANGLE DETAIL



MOUNTING BRACKET ASSEMBLY SPACING

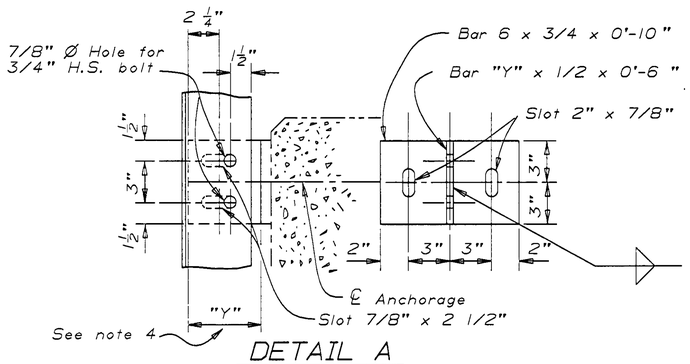
Notes:

1. For details not shown see "Standard Plans".
2. The exterior mounting bracket to face outward to accomodate the walkway chain angle.
3. Contractor to provide anchor bolt layout before anchor bolts are placed.
4. For "X", "Y" and "Z" dimensions see table on "Sign Details No. 1" sheet.

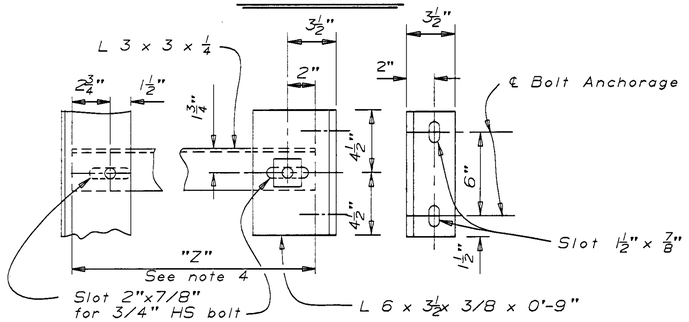
---------- Denotes existing structure

W.A.R 3-11-93
CORRECTED: J. ABERCROMBIE
CONTRACT NO. 06-282204
DATE 8-3-92

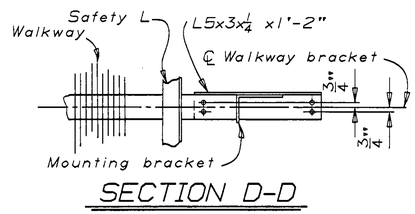
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



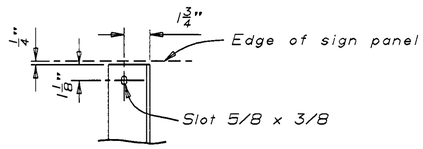
DETAIL A



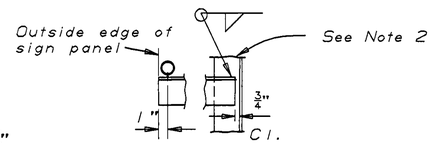
DETAIL B



SECTION D-D



VIEW E-E



VIEW F-F

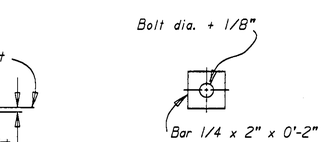
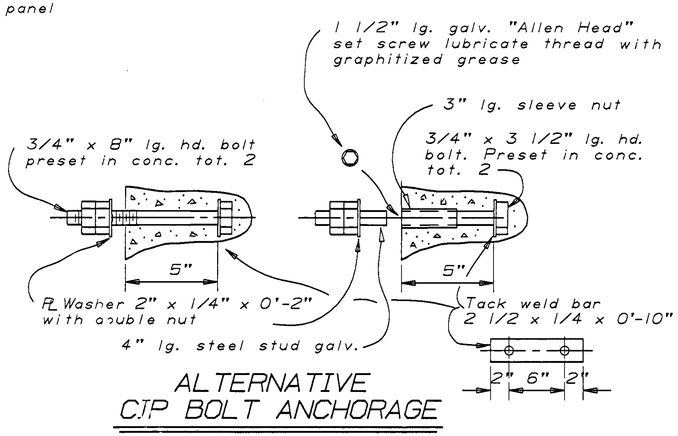
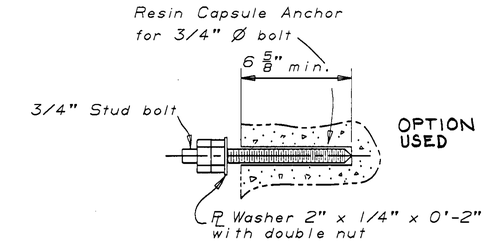


PLATE WASHER

For all slotted holes



ALTERNATIVE CIP BOLT ANCHORAGE



RESIN CAPSULE BOLT ANCHORAGE

Note: Resin capsule anchorage is subject to approval of Engineer. Installation procedures shall comply with manufacturer's instructions.

TULARE ST. OVERCROSSING

DESIGN	BY D. Ross 9-90	CHECKED G. Joe 9-90	STATE OF CALIFCRNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9	BRIDGE NO. 42-169
DETAILS	BY D.A. SANDERSON 7-90	CHECKED G. Joe 9-90			POST MILE 20.6
QUANTITIES	BY D. Ross 9-90	CHECKED S. Maan 9-90			

CONCRETE BARRIER REPLACEMENT
SIGN DETAILS NO. 2

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)										SHEET	OF
7-5-90	8-14-90	9-12-90	9-14-90	9-28-90	10-16-90					22	24

ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	38	39

REGISTERED ENGINEER - CIVIL

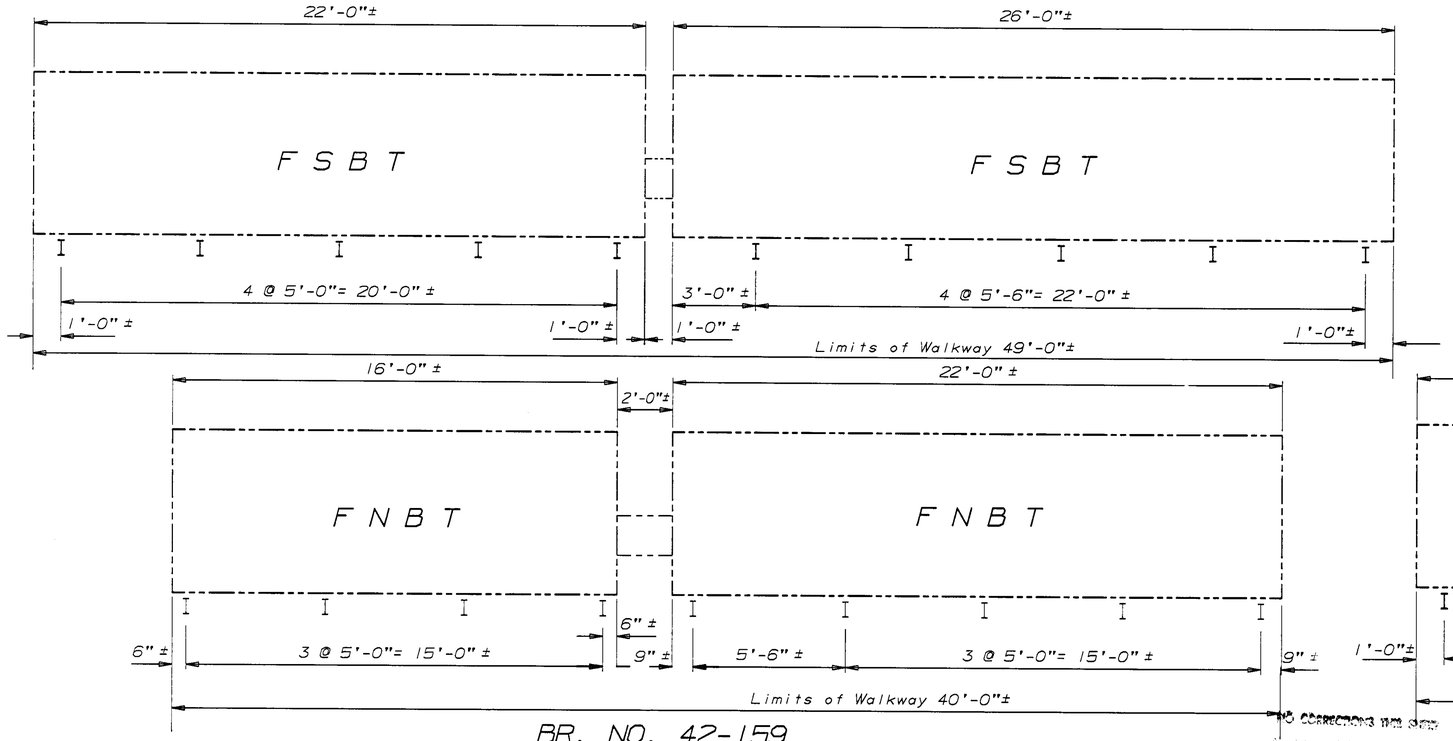
REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

Note: Top of signs parallel to deck.

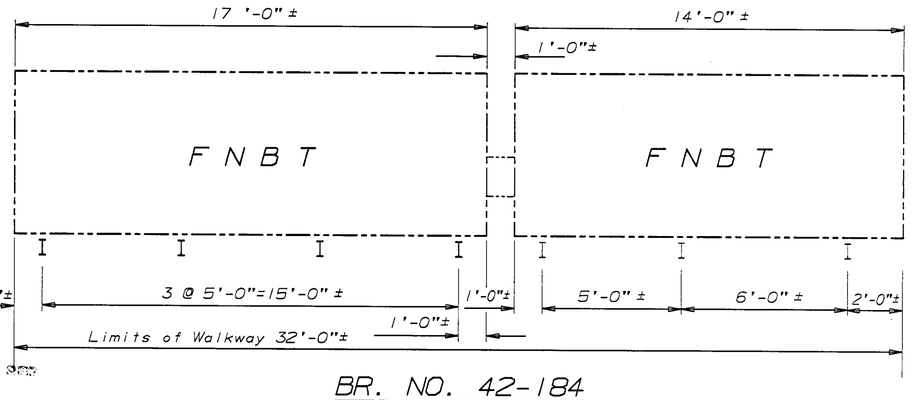
— — — — Indicates existing structure.



BR. NO. 42-159

KERN ST. OVERCROSSING

$\frac{3}{8}$"= 1'-0"



BR. NO. 42-184

EL DORADO ST. OVERCROSSING

$\frac{3}{8}$"= 1'-0"

NO CORRECTIONS WITH STAMP

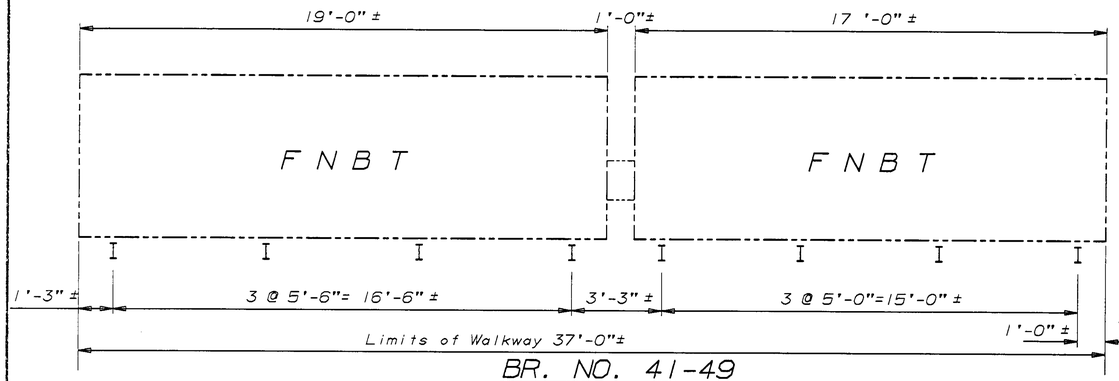
AS BUILT

W.A.O.R. 3-11-93

CORRECTED J. ABERCROMBIE

CONTRACT NO. 06-282204

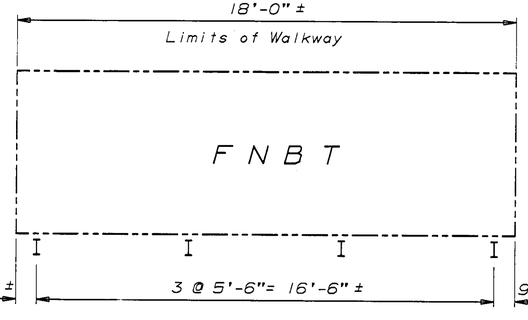
DATE 8-3-92



BR. NO. 41-49

WEST YOSEMITE AVE. OVERCROSSING

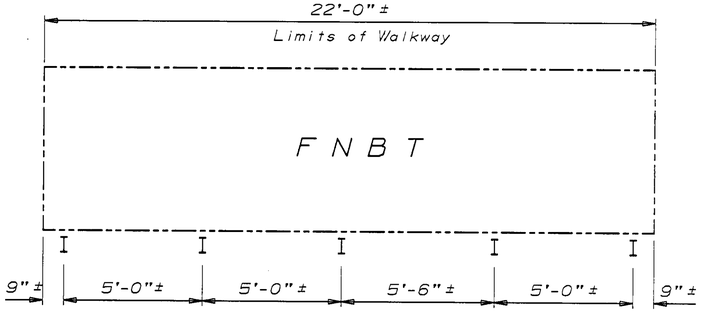
$\frac{3}{8}$"= 1'-0"



BR. NO. 41-46

SOUTH MADERA OVERCROSSING

$\frac{3}{8}$"= 1'-0"



BR. NO. 42-189

PACIFIC AVE. OVERCROSSING

$\frac{3}{8}$"= 1'-0"

DESIGN	BY D. Ross 9-90	CHECKED G. Joe 9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9	BRIDGE NO. Various / POST MILE
DETAILS	BY Mus D. Pagalla 9-90	CHECKED G. Joe 9-90			
QUANTITIES	BY D. Ross 9-90	CHECKED S. Maan 9-90			

CONCRETE BARRIER REPLACEMENT

SIGN DETAILS NO. 3

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 9-5-90 | 9-27-90 | 10-5-90

SHEET 23 OF 24

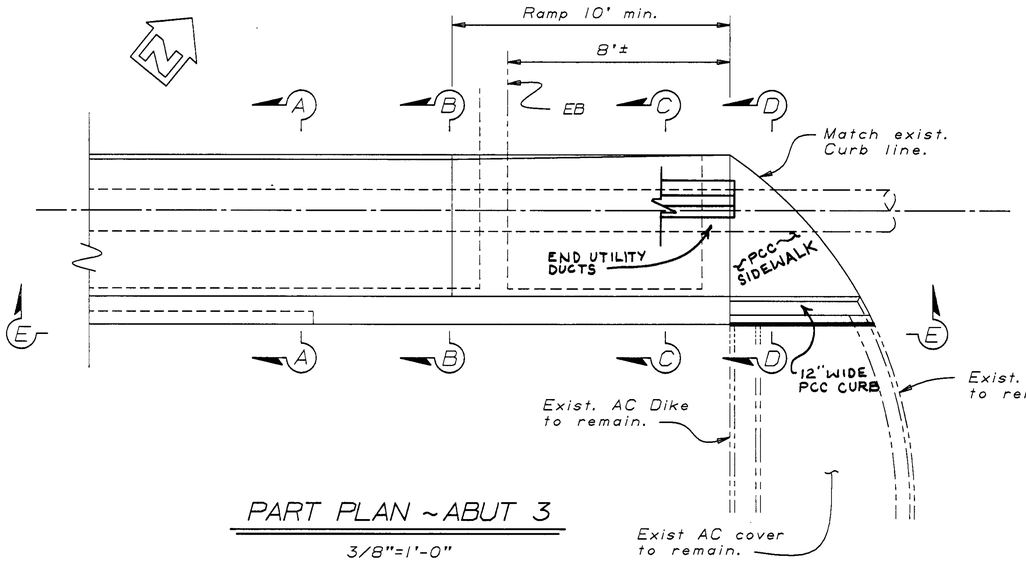
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	31	39

REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

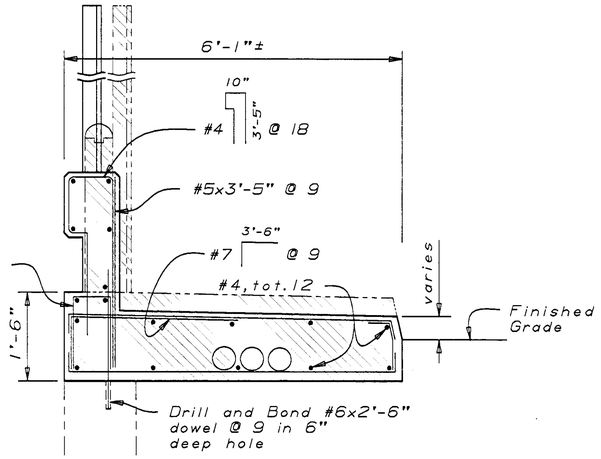
2-4-91
PLANS APPROVAL DATE



PART PLAN ~ ABUT 3

3/8"=1'-0"

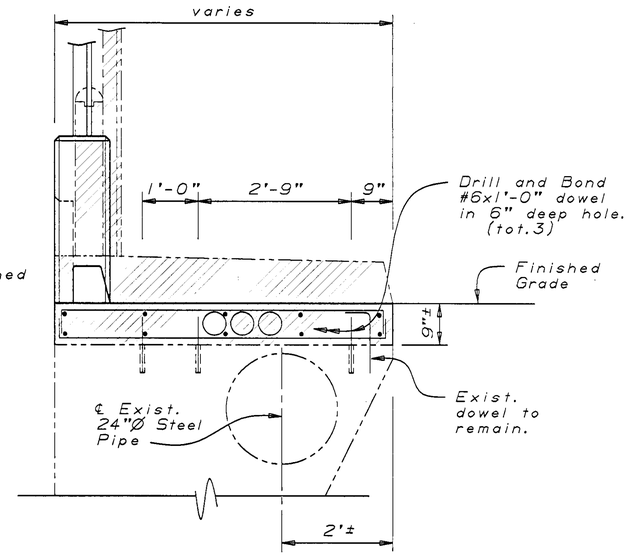
For Sections A-A and B-B, see "Barrier Details No. 7 " sheet.



SECTION C-C

3/4"=1'-0"

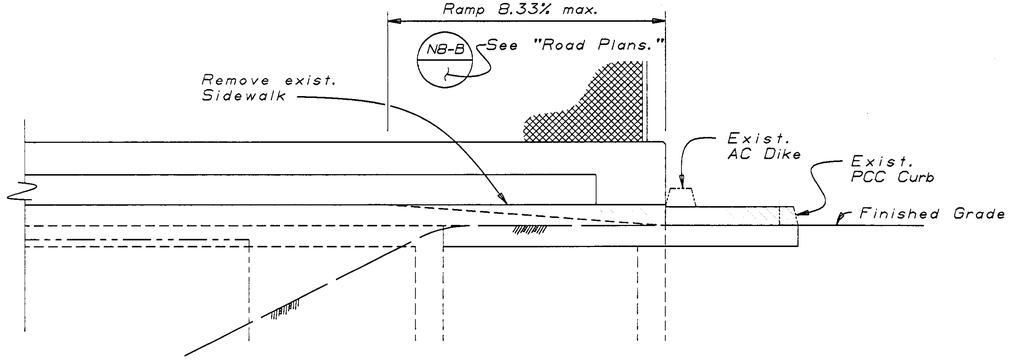
For details not shown, see "Typical Section" on "Barrier Details No. 7 " sheet.



VIEW D-D

3/4"=1'-0"

For details not shown see Section C-C



ELEVATION E-E

3/8"=1'-0"

W.A.R. 3-11-93
CORRECT J. ABERCROMBIE
CONTRACT NO. 06-282204
DATE 8-3-92

Notes:

Indicates limits of existing Structure removal.

---——--- Indicates existing structure.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

WEST FOURTH STREET OVERCROSSING

	BY		CHECKED	
DESIGN	D. Ross	9-90	G. Joe	9-90
DETAILS	L. Good	9-90	G. Joe	9-90
QUANTITIES	D. Ross	9-90	S. Maan	9-90

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 9

BRIDGE NO.	CONCRETE BARRIER REPLACEMENT
41-50	
POST MILE	BARRIER DETAILS NO. 8
11.0	

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): ~~9-28-90~~ ~~9-28-90~~ 10-1-90 10-16-90

SHEET 16 OF 24

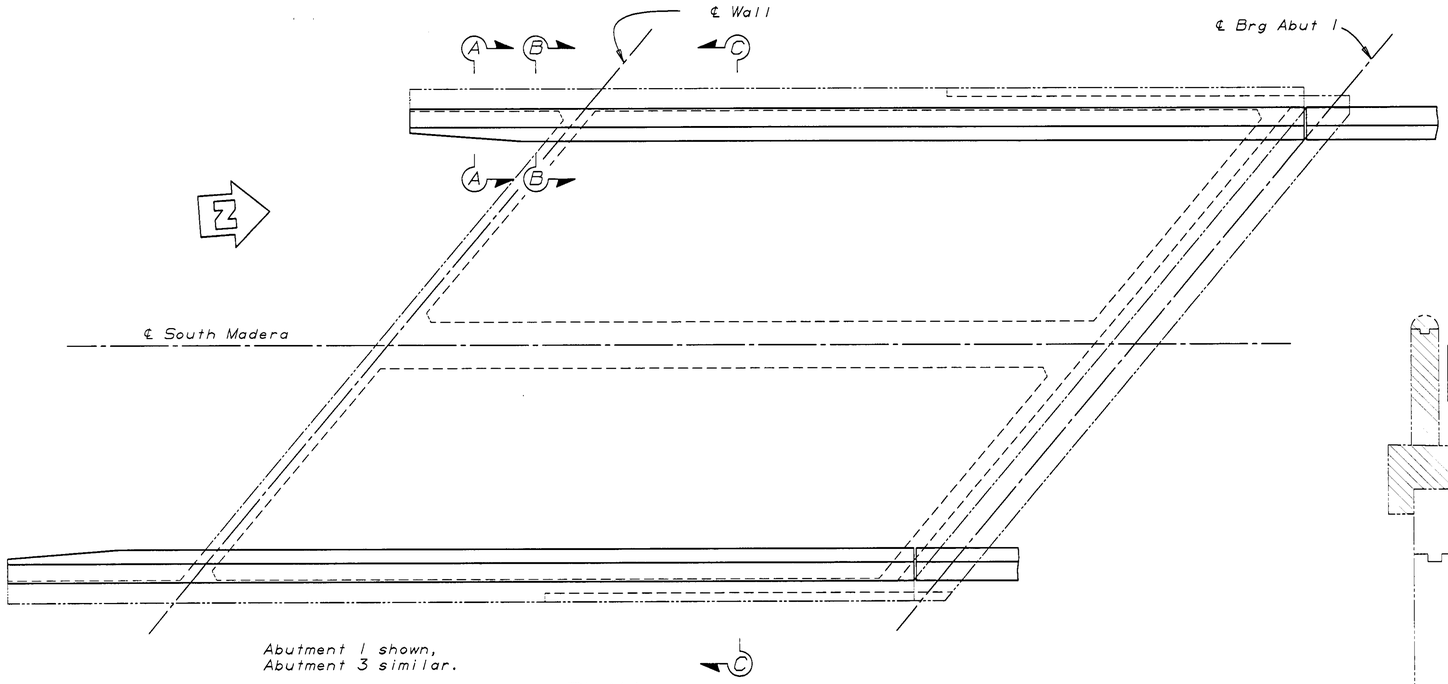
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	24	39

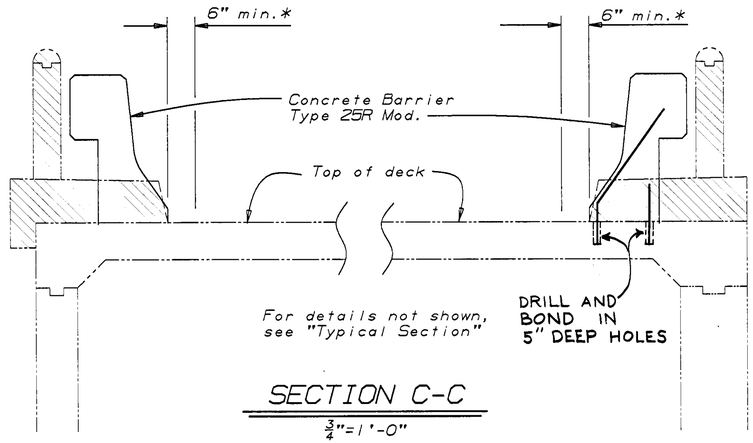
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

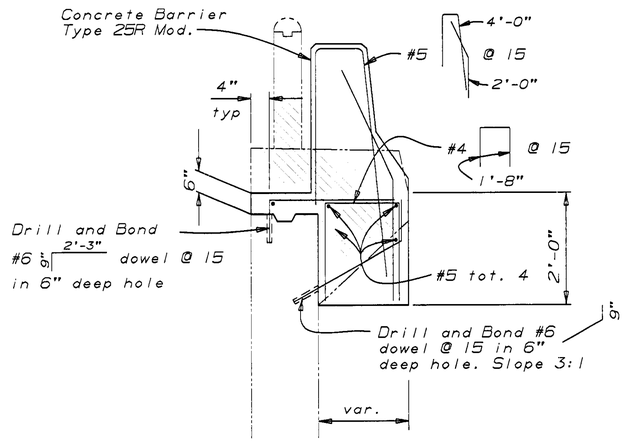
2-4-91
PLANS APPROVAL DATE



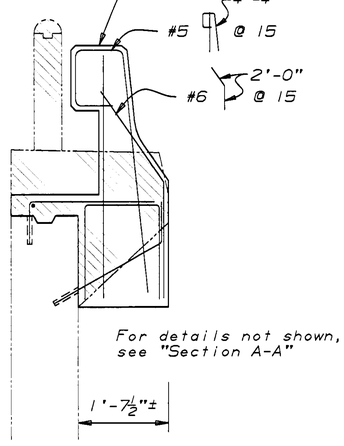
PLAN
1/4"=1'-0"



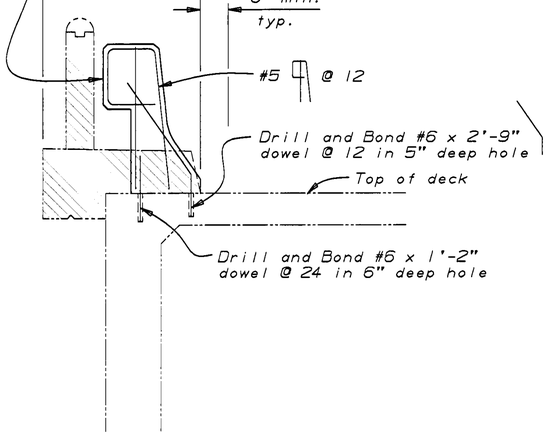
SECTION C-C
3/4"=1'-0"



SECTION A-A
3/4"=1'-0"



SECTION B-B
3/4"=1'-0"



TYPICAL SECTION
3/4"=1'-0"

AS BUILT
W.A.R 3-11-93
CORRECTED BY J. ABERCROMBIE

CONTRACT NO. 06-282204

DATE 8-3-92

Notes:

* Limits of refinishing bridge deck.

For details and reinf. not shown see "Concrete Barrier Type 25R" sheet.

Indicates limits of existing Structure removal.

Indicates existing structure.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

SOUTH MADERA OVERCROSSING

DESIGN	BY D. ROSS 9-90	CHECKED G. JOE 9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9	BRIDGE NO. 41-46K
DETAILS	BY D.A. SANDERSON 9-90	CHECKED G. JOE 9-90			POST MILE 9.7
QUANTITIES	BY D. ROSS 9-90	CHECKED S. MAAN 9-90			

CONCRETE BARRIER REPLACEMENT
BARRIER DETAILS NO. 1

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 5-8-90 | 9-7-90 | 10-3-90 | 10-4-90 | 10-8-90 | 11-28-90

SHEET 9 OF 24

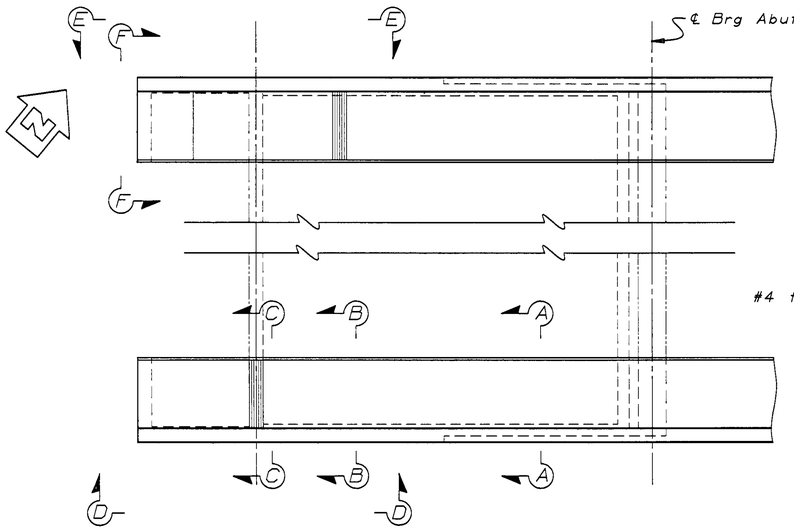
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	25	39

REGISTERED ENGINEER - CIVIL

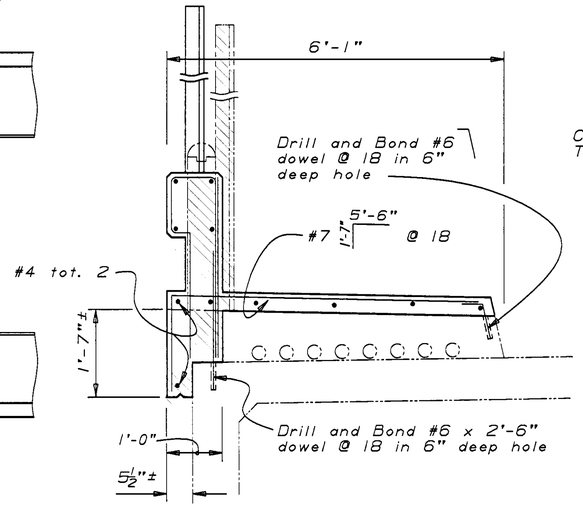
REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE



PLAN - ABUTMENT 1

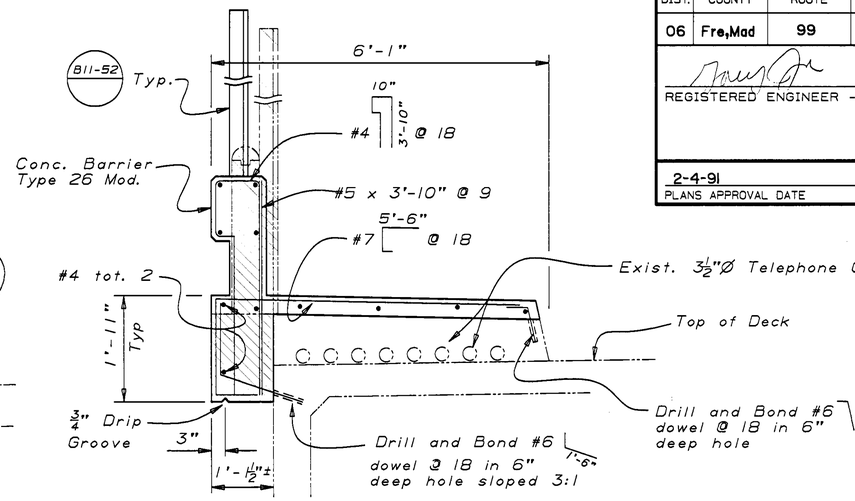
$\frac{3}{16}$"=1'-0"



SECTION A-A

$\frac{3}{4}$"=1'-0"

For details not shown see "Typical Section - Rt. Side"



TYPICAL SECTION - RT. SIDE

B11-54

$\frac{3}{4}$"=1'-0"

(LOOKING BACK ON STATION)

Notes:

For Elevations D-D & E-E see "Barrier Details No. 4" sheet

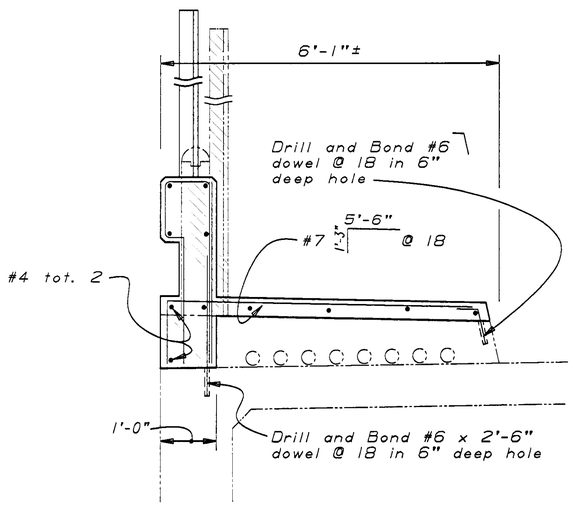
For Elevation F-F see "Barrier Details No. 3" sheet.

* Limits of refinishing bridge deck.

—·—·— Indicates existing structure.

▨ Indicates limits of existing Structure removal

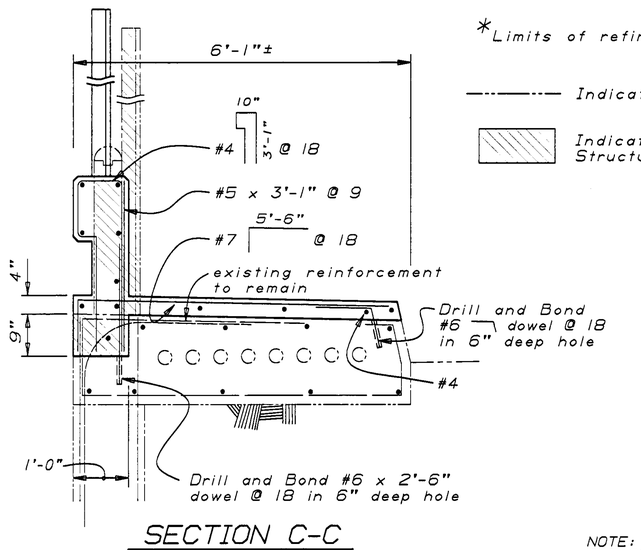
NO CORRECTIONS NEEDED
AS BUILT
W.A.R 3-11-93
CORRECTED BY J. ABERCROMBIE
CONTRACT NO. 06-282204
DATE 8-3-92



SECTION B-B

$\frac{3}{4}$"=1'-0"

For details not shown see "Typical Section - Rt. Side"

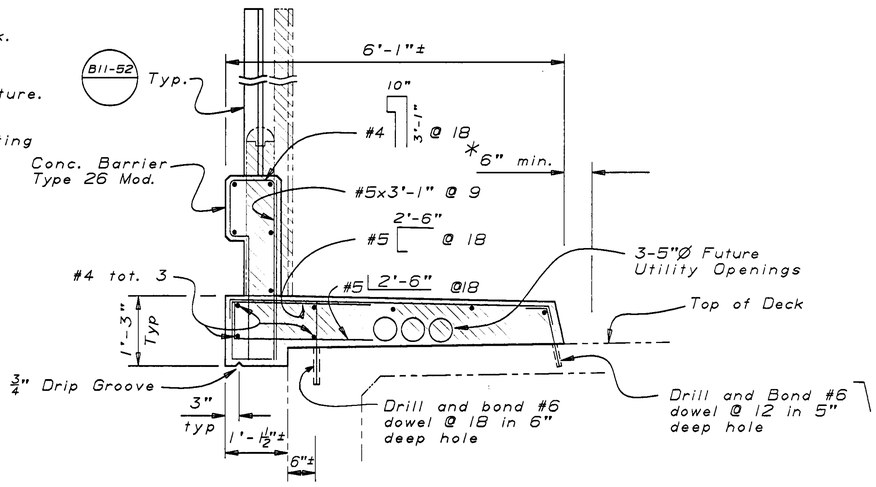


SECTION C-C

$\frac{3}{4}$"=1'-0"

For details not shown see "Typical Section - Rt. Side"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



TYPICAL SECTION - LT. SIDE

$\frac{3}{4}$"=1'-0"

WEST SIXTH STREET OVERCROSSING

DESIGN	BY D. ROSS	9-90	CHECKED G. JOE	9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9	BRIDGE NO. 41-48
DETAILS	BY D.A. SANDERSON	9-90	CHECKED G. JOE	9-90			POST MILE 10.3
QUANTITIES	BY D. ROSS	9-90	CHECKED S. MAAN	9-90			

CONCRETE BARRIER REPLACEMENT
BARRIER DETAILS NO. 2

DS 05D 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 9-28-90 | 10-1-90 | 10-2-90 | 10-4-90 | 12-3-90

SHEET 10 OF 24

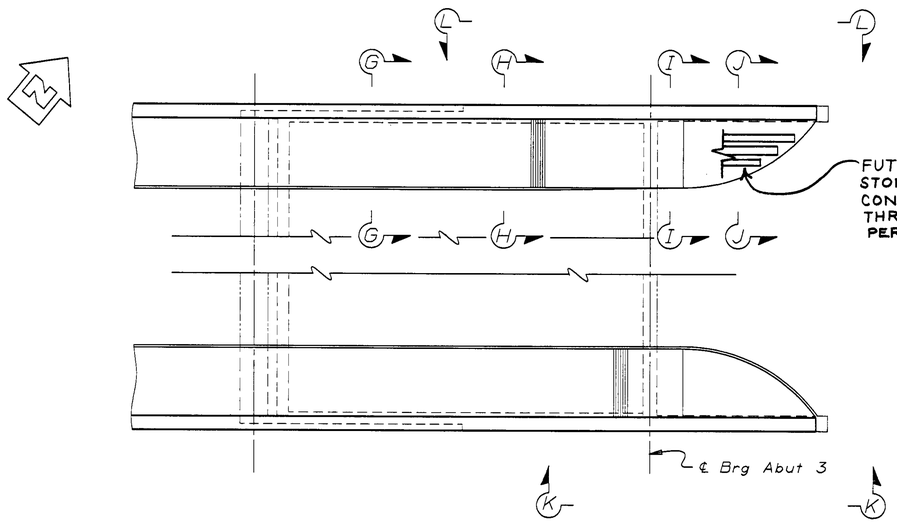
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	26	39

REGISTERED ENGINEER - CIVIL

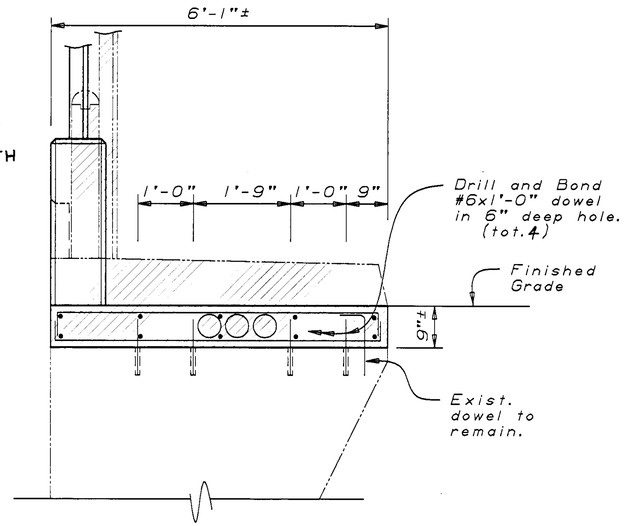
REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE



PLAN - ABUTMENT 3

$\frac{3}{16}$"=1'-0"



For details not shown see "Section I-I"

ELEVATION F-F

$\frac{3}{4}$"=1'-0"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

For Elevations K-K & L-L see "Barrier Details No. 4" sheet

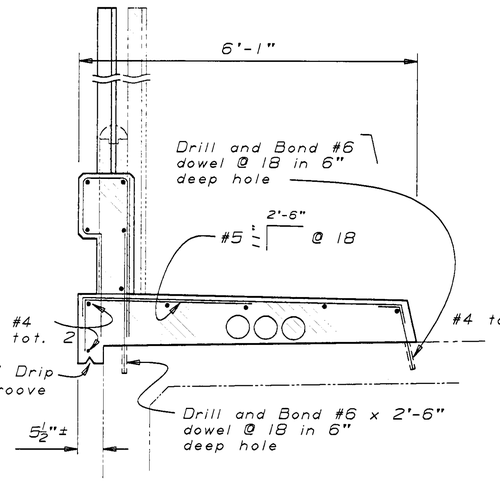
Indicates limits of existing Structure removal.

Indicates existing structure

AS BUILT
W.A.R 3-10-93
CORRECTED BY J. ABERCROMBIE

CONTRACT NO. 06-282204

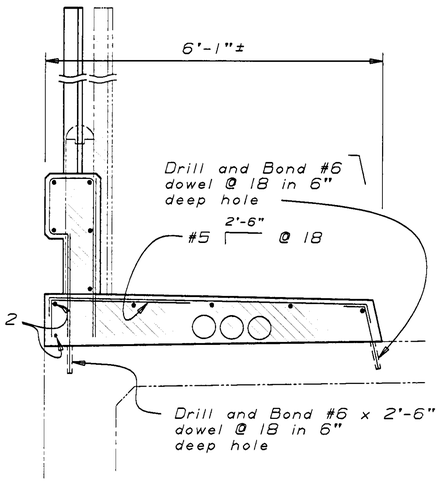
DATE 8-3-92



SECTION G-G

$\frac{3}{4}$"=1'-0"

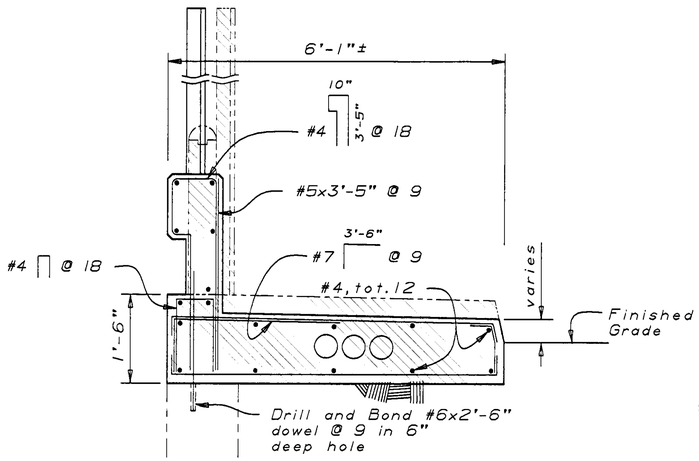
For details not shown see "Typical Section - Lt. Side" on "Barrier Details No. 2" sheet



SECTION H-H

$\frac{3}{4}$"=1'-0"

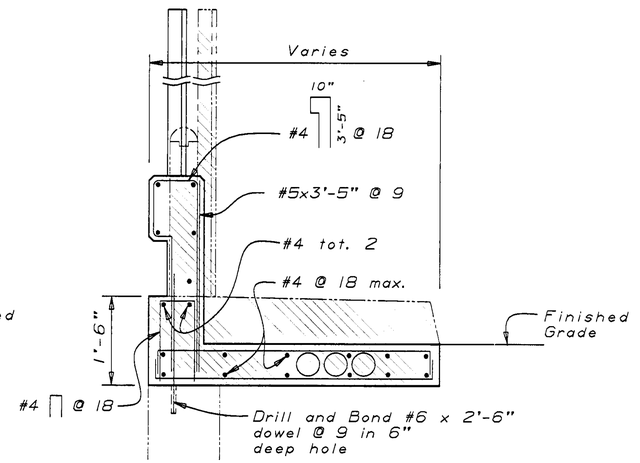
For details not shown see "Typical Section - Lt. Side" on "Barrier Details No. 2" sheet



SECTION I-I

$\frac{3}{4}$"=1'-0"

For details not shown see "Typical Section - Lt. Side" on "Barrier Details No. 2" sheet



SECTION J-J

$\frac{3}{4}$"=1'-0"

For details not shown see "Section I-I"

WEST SIXTH STREET OVERCROSSING

DESIGN	BY D. ROSS 9-90	CHECKED G. JOE 9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9	BRIDGE NO. 41-48 / POST MILE 10.3
DETAILS	BY D.A. SANDERSON 9-90	CHECKED G. JOE 9-90			CONCRETE BARRIER REPLACEMENT
QUANTITIES	BY D. ROSS 9-90	CHECKED S. MAAN 9-90			BARRIER DETAILS NO. 3

DS OSD 2:39 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): ~~9-28-90~~ | 10-1-90 | 10-2-90 | 10-3-90 | 10-4-90

SHEET 11 OF 24

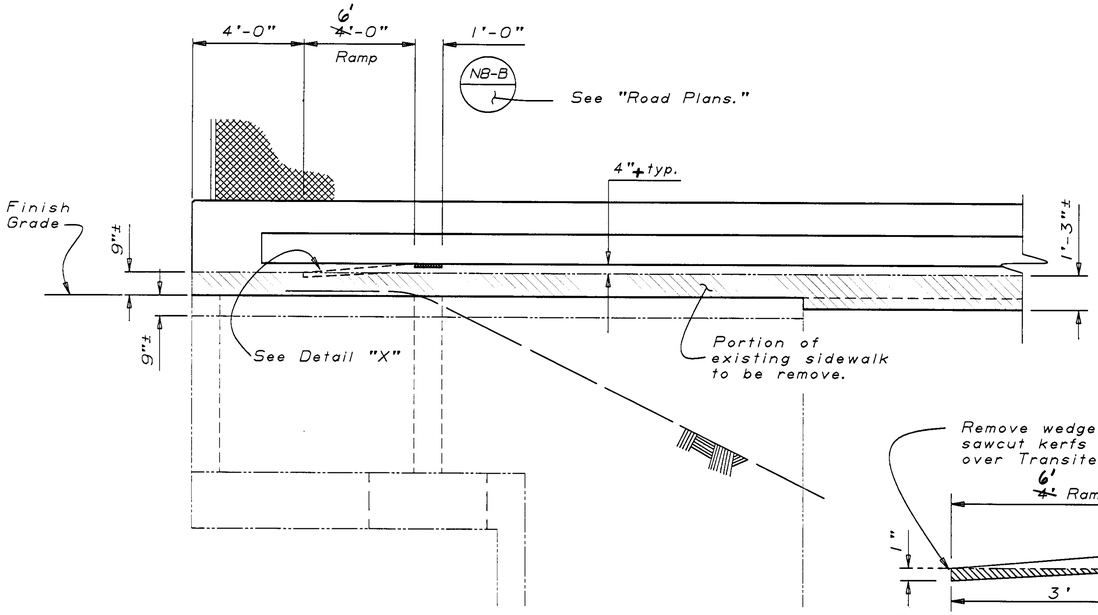
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	27	39

REGISTERED ENGINEER - CIVIL

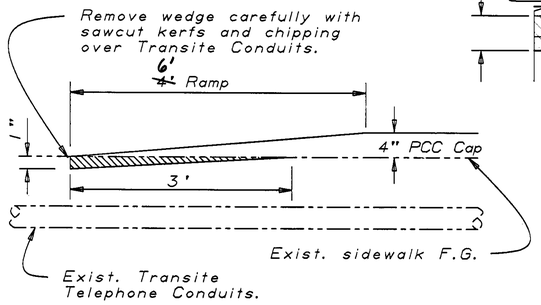
REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE



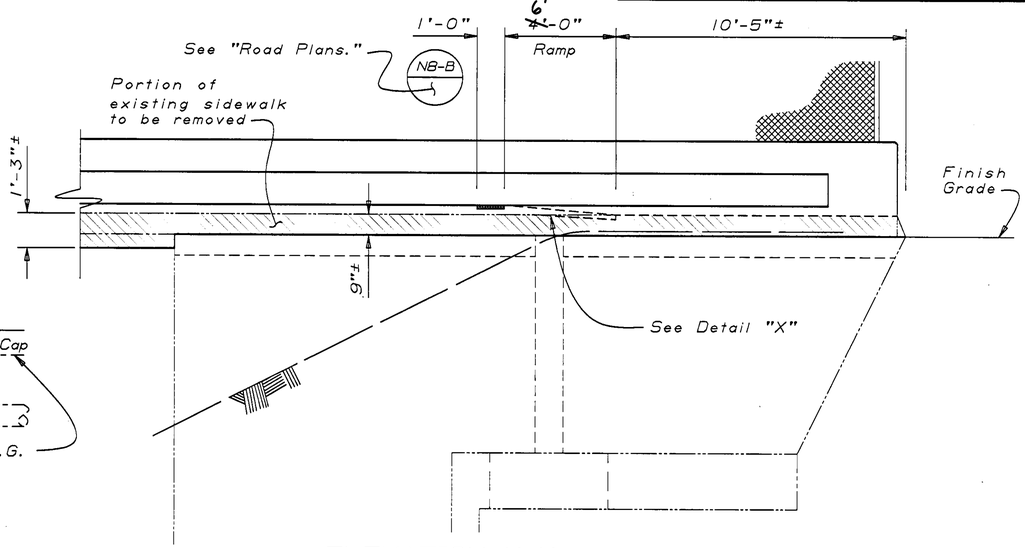
ELEVATION D-D

$\frac{3}{8}$"= 1'-0"



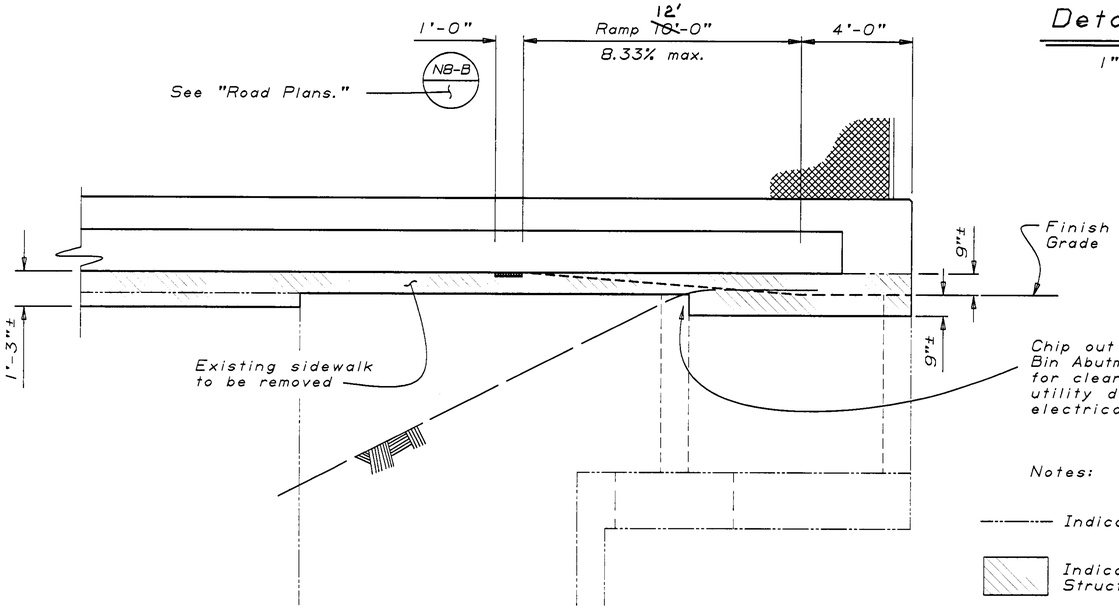
Detail "X"

1"=1'-0"



ELEVATION K-K

$\frac{3}{8}$"= 1'-0"



ELEVATION E-E

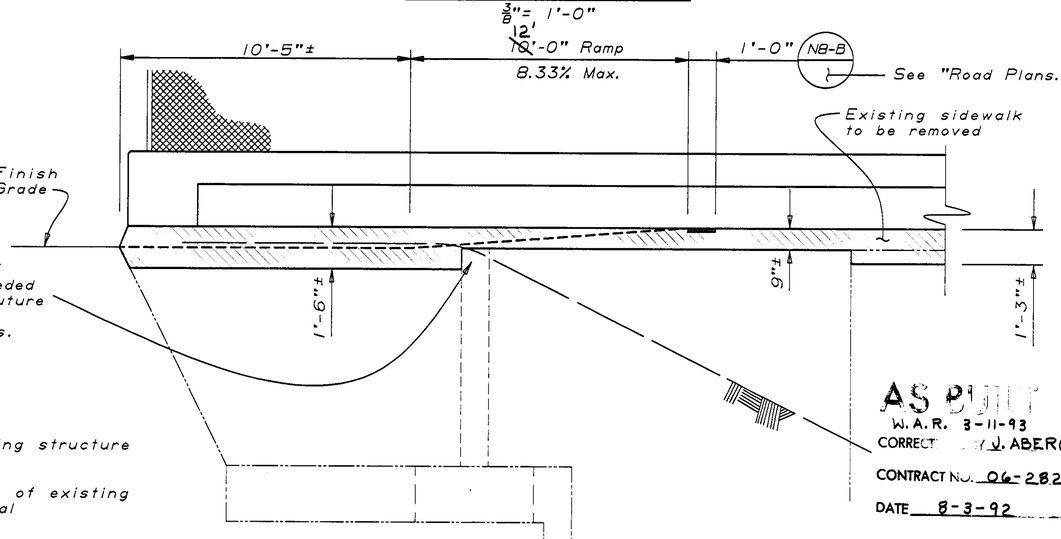
$\frac{3}{8}$"= 1'-0"

Notes:

Indicates existing structure

Indicates limits of existing Structure removal

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



ELEVATION L-L

$\frac{3}{8}$"= 1'-0"

AS BUILT
W.A.R. 3-11-93
CORRECTED BY J. ABERCROMBIE
CONTRACT NO. 06-282204
DATE 8-3-92

WEST SIXTH STREET OVERCROSSING

DESIGN	BY D. ROSS 9-90	CHECKED G. JOE 9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9	BRIDGE NO. 41-48
DETAILS	BY D.A. SANDERSON 9-90	CHECKED G. JOE 9-90			POST MILE 10.3
QUANTITIES	BY D. ROSS 9-90	CHECKED S. MAAN 9-90			

CONCRETE BARRIER REPLACEMENT
BARRIER DETAILS NO. 4

OS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): ~~9-28-90~~ | 10-2-90 | 10-4-90 | 10-18-90 | 11-5-90 | 11-28-90 | 12-3-90

SHEET 12 OF 24

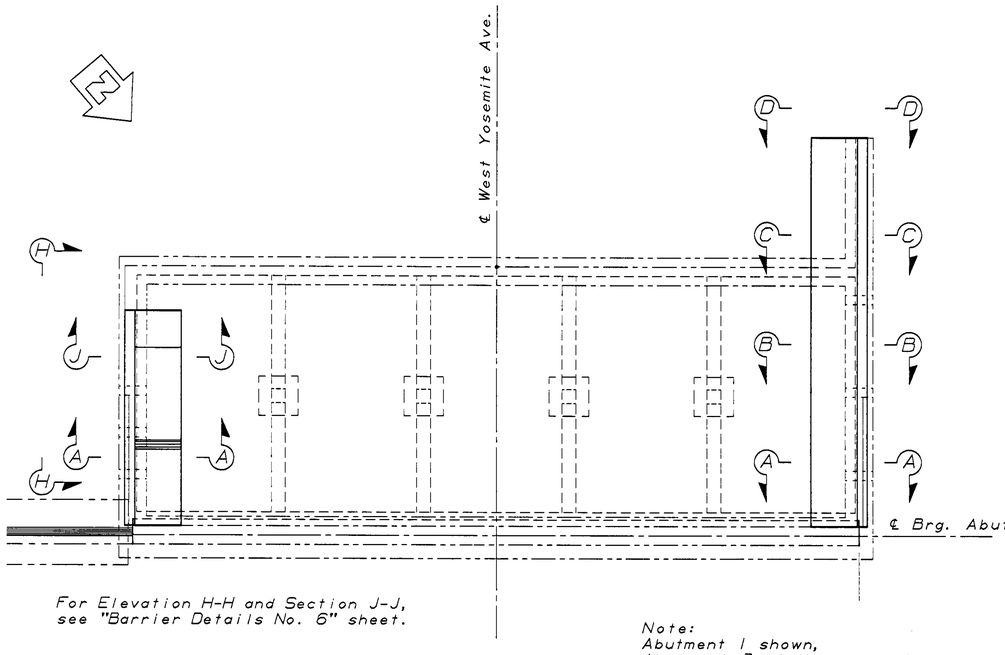
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	28	39

REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

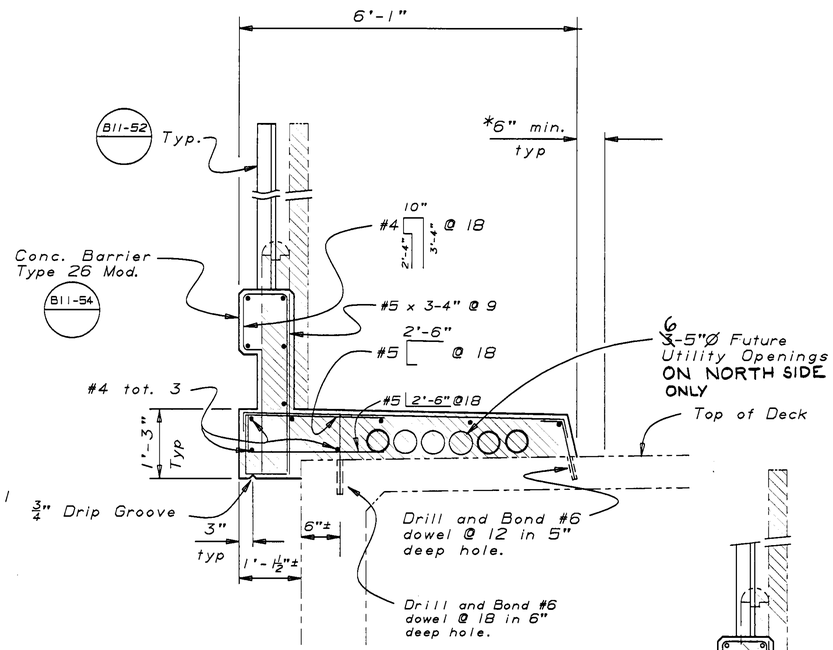
2-4-91
PLANS APPROVAL DATE



For Elevation H-H and Section J-J, see "Barrier Details No. 6" sheet.

Note:
Abutment 1 shown,
Abutment 3 similar, except as noted.
See "Barrier Details No. 6."

PLAN
1/8"=1'-0"



TYPICAL SECTION
3/4"=1'-0"

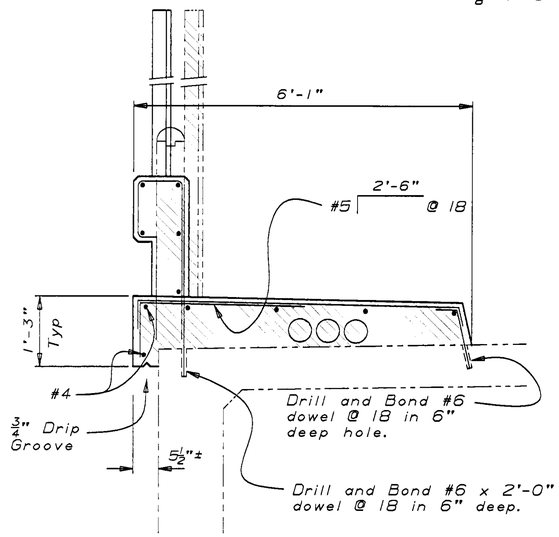
Notes:

* Limits of refinishing bridge deck.

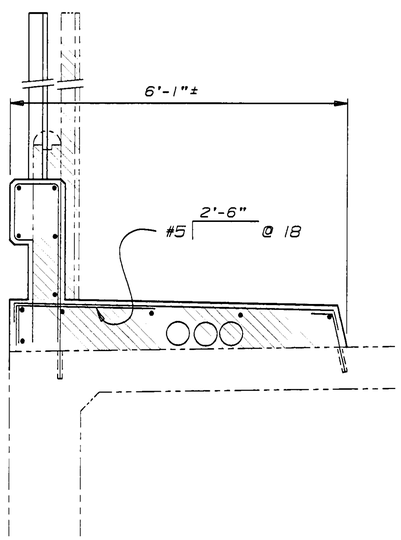
Indicates limits of existing Structure removal.

Indicates existing structure.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

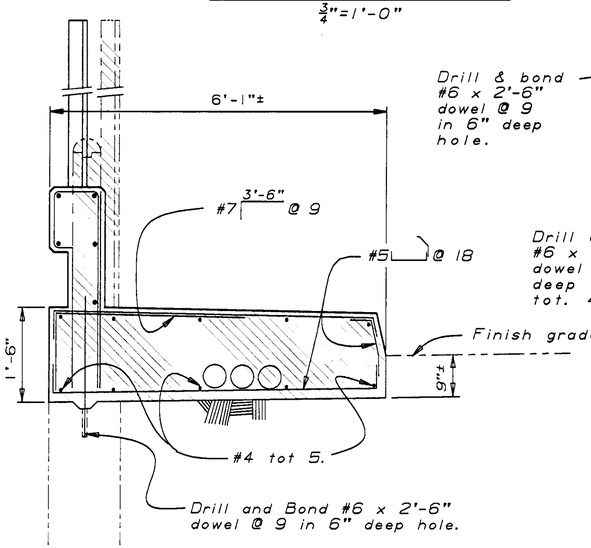


SECTION A-A
3/4"= 1'-0"



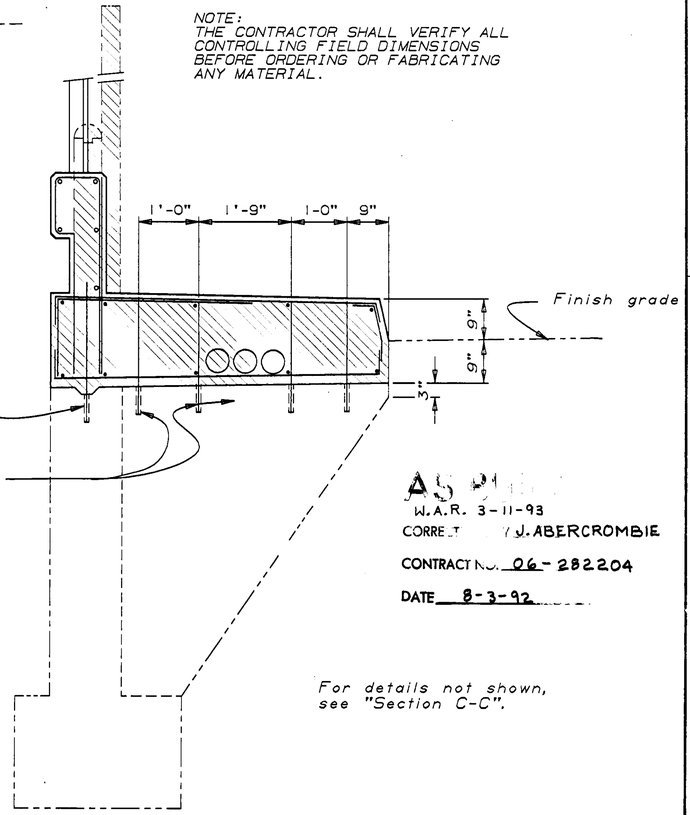
SECTION B-B
3/4"= 1'-0"

For details not shown, see "Section A-A".



SECTION C-C
3/4"= 1'-0"

For details not shown, see "Section A-A".



AS BUILT
W.A.R. 3-11-93
CORRECTED J. ABERCROMBIE
CONTRACT NO. 06-282204
DATE 8-3-92

For details not shown, see "Section C-C".

ELEVATION D-D
3/4"= 1'-0"

WEST YOSEMITE AVE. OVERCROSSING

DESIGN	BY Don Ross	CHECKED G. Joe	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9	BRIDGE NO. 41-49
DETAILS	BY D.A. SANDERSON 7-90	CHECKED G. Joe			POST MILE 10.8
QUANTITIES	BY Don Ross	CHECKED S. Maan			

CONCRETE BARRIER REPLACEMENT
BARRIER DETAILS NO. 5

DS 050 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 7-1-90 | 8-31-90 | 9-28-90 | 9-28-90 | 10-4-90 | 10-15-90 | 12-3-90

SHEET 13 OF 24

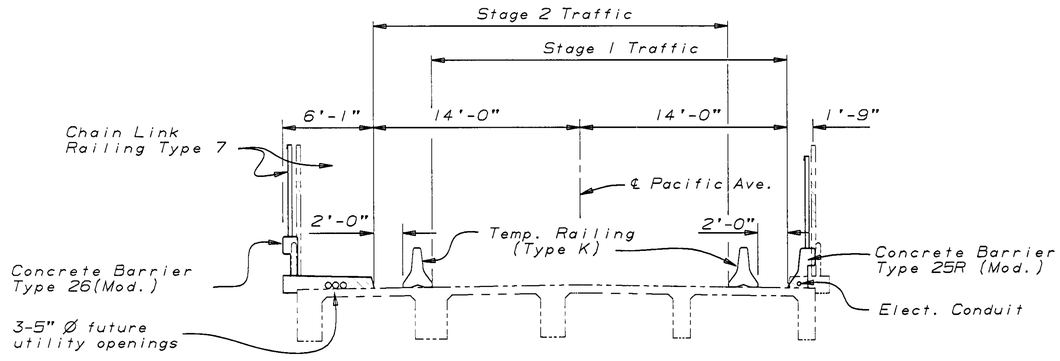
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	23	39

REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE



TYPICAL SECTION

1" = 5'

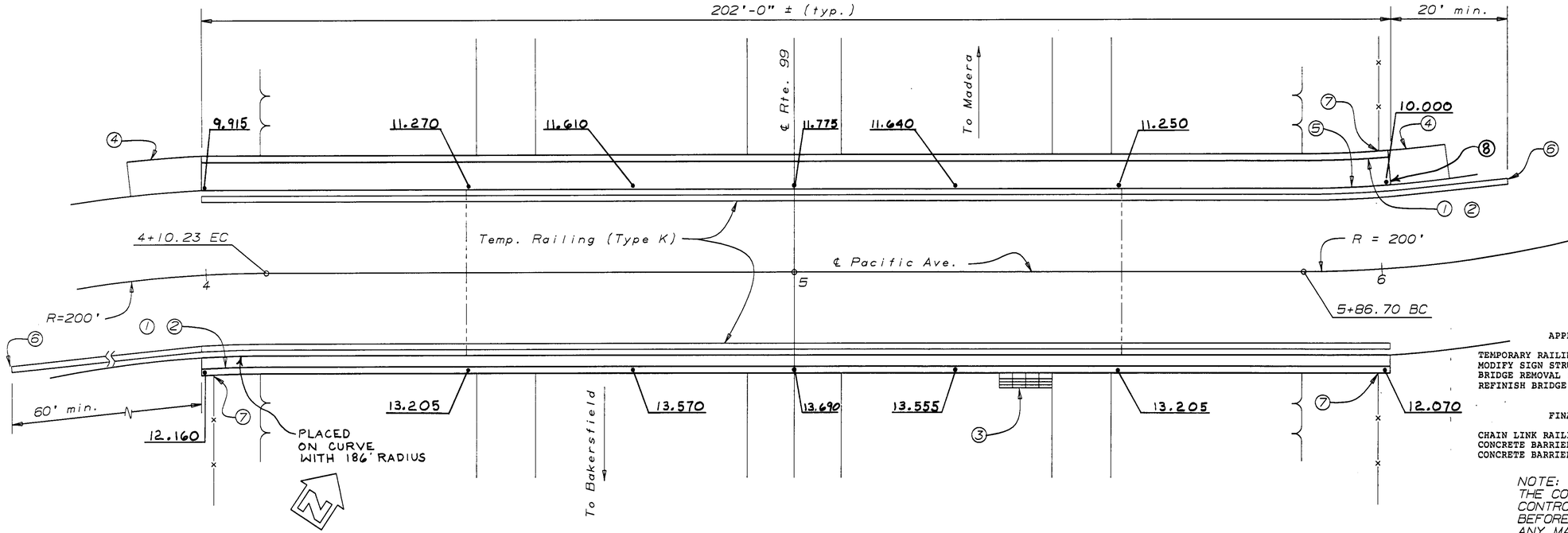
Notes:

1. Paint "Pacific Avenue Overcrossing" and year constructed.
2. Paint "Br. No. 42-189".
3. Remove sign structure prior to construction and reinstall after barrier rails are completed.
4. Construct 6' wide AC ramps at 8.33%, see "Road Plans."
5. Existing sidewalk curb is curved on a radius of 186'± from sta. 5+86.70 to end of wingwall.
6. Temporary Crash Cushion Modules, see "Road Plans."
7. Remove end post of existing Right of Way Fence prior to construction. Replace and reconnect end post and Fence after Barrier Rail is complete.

▨ Indicates limits of existing Structure removal.

– – – – Indicates existing structure.

8. REFERENCE NAILS BASED ON ASSUMED ELEV 10.000 (NE CORNER)



PLAN

1" = 10'

AS BUILT
W.A.R. 3-11-93
CORRECTED BY J. ABERCROMBIE
CONTRACT NO. 06-282204
DATE 8-3-92

APPROXIMATE QUANTITIES

TEMPORARY RAILING (TYPE K)	500 LF
MODIFY SIGN STRUCTURE	1 EA
BRIDGE REMOVAL (PORTION), LOCATION H	LUMP SUM
REFINISH BRIDGE DECK	112 SQFT

FINAL PAY QUANTITIES

CHAIN LINK RAILING (TYPE 7)	406 LF
CONCRETE BARRIER (TYPE 25R MODIFIED)	203 LF
CONCRETE BARRIER (TYPE 26 MODIFIED)	203 LF

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

PACIFIC AVENUE OVERCROSSING

L M Stoke 12-90
DESIGN ENGINEER

DESIGN	BY D. Ross 9-90	CHECKED G. Joe 9-90	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
DETAILS	BY D.A. SANDERSON 7-90	CHECKED G. Joe 9-90	LAYOUT	BY D. Ross 9-90	CHECKED G. Joe 9-90
QUANTITIES	BY D. Ross 9-90	CHECKED S. Maan 9-90	SPECIFICATIONS	BY	PLANS AND SPECS COMPARED

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 9

CU 06200
EA 282201

BRIDGE NO. 42-189
POST MILE 22.4

CONCRETE BARRIER REPLACEMENT
GENERAL PLAN NO. 8

DS OSD 2138 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 7-2-90 | 8-30-90 | 9-11-90 | 9-28-90 | 10-3-90 | 10-5-90 | 10-8-90 | 11-28-90

SHEET 8 OF 24

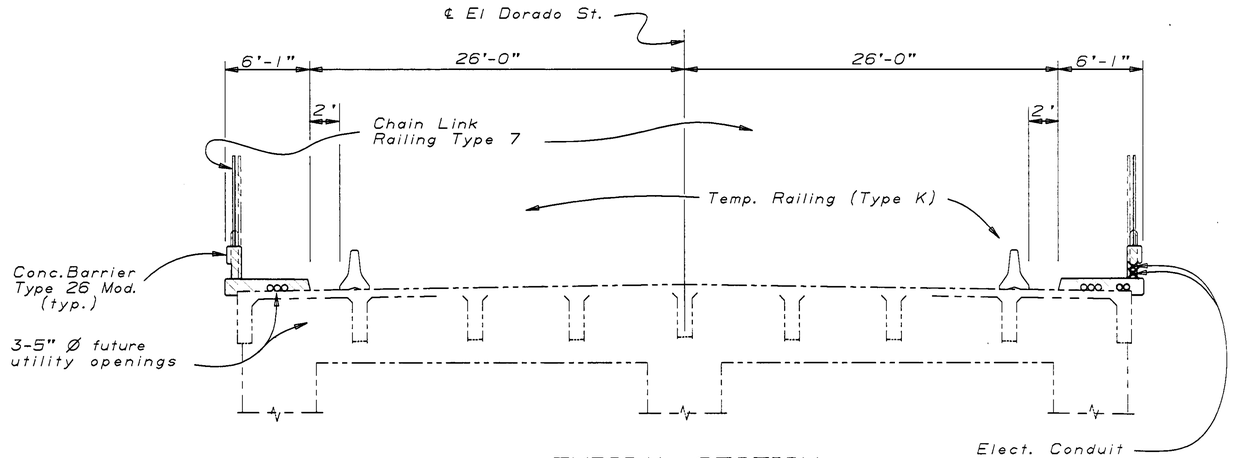
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	22	39

REGISTERED ENGINEER - CIVIL

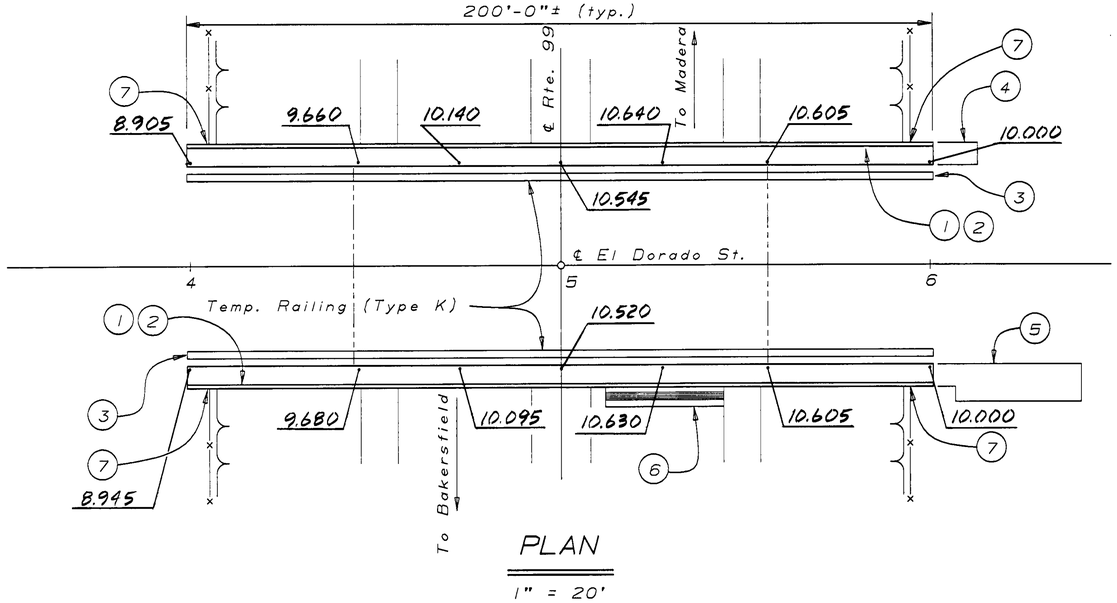
REGISTERED PROFESSIONAL ENGINEER — Gary Joe, No. 36652, Exp. 6-30-92, CIVIL, STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE



TYPICAL SECTION

1" = 5'



PLAN

1" = 20'

AS BUILT
CORRECTED BY D.A.S. 1-15-93 J. Abercrombie
CONTRACT NO. 06-282204
DATE 8-3-92

Notes:

(1) Paint "El Dorado Street Overcrossing" and year constructed.

(2) Paint "Br. No. 42-184".

(3) Temporary Crash Cushion Modules, see "Road Plans."

(4) Construct 6' wide AC ramp at 8.33%, see "Road Plans."

(5) Construct PCC sidewalk, see "Road Plans."

(6) Remove sign structure prior to construction and reinstall after barrier rails are completed.

(7) Remove end post of Right of Way Fence prior to construction. Replace and reconnect end post and Fence after Barrier Rail is complete.

▨ Indicates limits of existing Structure removal.

– – – – Indicates existing structure.

(8) Reference nails based on Assumed Elev. 10.000 (NE Corner)

APPROXIMATE QUANTITIES

TEMPORARY RAILING (TYPE K)	400 LF
MODIFY SIGN STRUCTURE	1 EA
BRIDGE REMOVAL (PORTION), LOCATION G	LUMP SUM
REFINISH BRIDGE DECK	112 SQFT

FINAL PAY QUANTITIES

CHAIN LINK RAILING (TYPE 7)	399 LF
CONCRETE BARRIER (TYPE 26 MODIFIED)	399 LF

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

EL DORADO STREET OVERCROSSING

L M Storke 12-90
DESIGN ENGINEER

	BY		CHECKED	
DESIGN	D. Ross	9-90	G. Jos	9-90
DETAILS	Flo Callum	5-90	G. Joe	9-90
QUANTITIES	D. Ross	9-90	S. Maan	9-90

LOAD FACTOR DESIGN — LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD

	BY		CHECKED	
LAYOUT	D. Ross	9-90	G. Joe	9-90
SPECIFICATIONS	R.J. Cochrane		PLANS AND SPECS COMPARED	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 9

BRIDGE NO. 42-184
POST MILE 21.5

CONCRETE BARRIER REPLACEMENT
GENERAL PLAN NO. 7

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 5-24-90 | 6-1-90 | 8-30-90 | 9-11-90 | 9-14-90 | 9-27-90 | 10-1-90 | 10-9-90 | 11-27-90

SHEET 7 OF 24

DS OSD 2138 (CADD 4/89)

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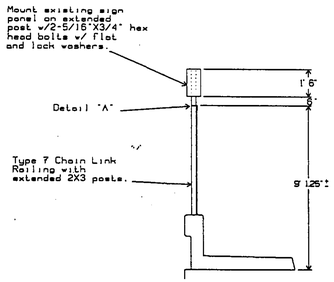
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	21	39

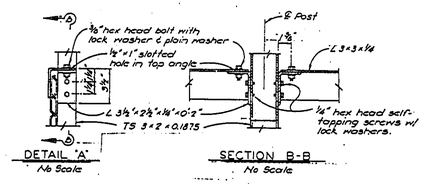
REGISTERED ENGINEER - CIVIL

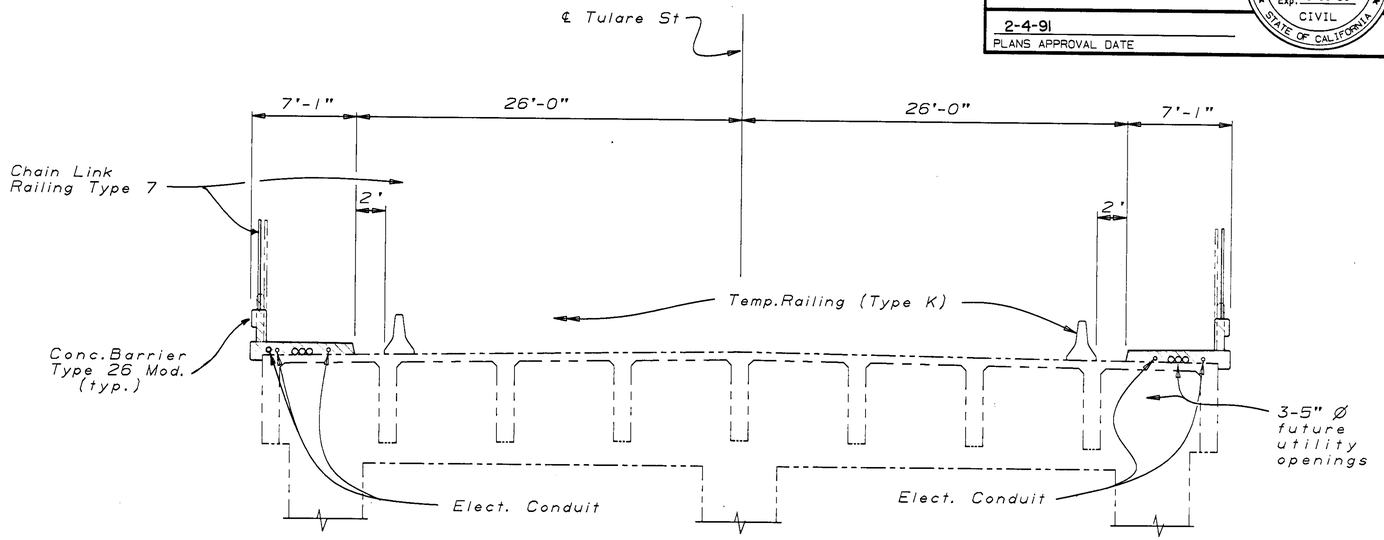
Gary Joe
No. 36652
Exp. 6-30-90
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE

CCO #3

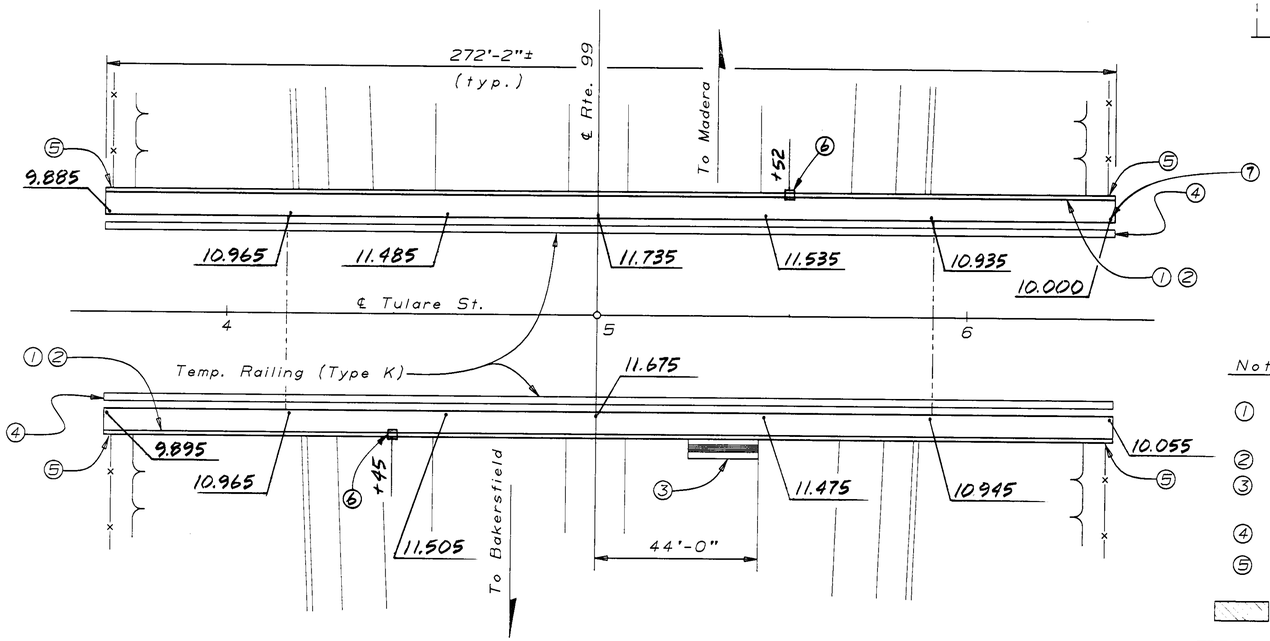






TYPICAL SECTION

1" = 5'



PLAN

1" = 20'

AS BUILT
CORRECTED BY D.A.S. 1-15-93 J Abercrombie
CONTRACT NO. 06-282204
DATE 8-3-92

APPROXIMATE QUANTITIES

TEMPORARY RAILING (TYPE K)	560	LF
REMOVE SIGN STRUCTURE	1	EA
BRIDGE REMOVAL (PORTION), LOCATION F	LUMP	SUM
REFINISH BRIDGE DECK	175	SQFT
FURNISH SIGN STRUCTURE (BRIDGE MOUNTED WITH WALKWAY)	1,205	LB
INSTALL SIGN STRUCTURE (BRIDGE MOUNTED WITH WALKWAY)	1,205	LB

FINAL PAY QUANTITIES

CHAIN LINK RAILING (TYPE 7)	546	LF
CONCRETE BARRIER (TYPE 26 MODIFIED)	546	LF

Notes:

1. Paint "Tulare Street Overcrossing" and year constructed.
2. Paint "Br. No. 42-169".
3. Remove existing sign structure prior to construction. Install new sign structure after Barrier Rail is completed.
4. Temporary Crash Cushion Modules, see "Road Plans."
5. Remove end post of existing Right of Way Fence prior to construction. Replace and reconnect end post and Fence after Barrier Rail is complete.

▨ Indicates limits of existing Structure removal.

– – – – Indicates existing structure.

6. Road sign mounted on 2x3 steel post of Type 7 fencing See details above. CCO #3 (No Parking Signs)
7. Reference nails based on Assumed Elev. 10.000 (NE Corner)

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

TULARE STREET OVERCROSSING

L M Stolis 12-30
DESIGN ENGINEER

DESIGN	BY D. Ross 9-90	CHECKED G. Joe 9-90	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
DETAILS	BY Flo Collum 5-90	CHECKED G. Joe 9-90	LAYOUT	BY D. Ross 9-90	CHECKED G. Joe 9-90
QUANTITIES	BY D. Ross 9-90	CHECKED S. Maan 9-90	SPECIFICATIONS	BY R. J. Abercrombie	PLANS AND SPECS COMPARED R. L. Baker

DS OSD 2138 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 9

CU 06200
EA 282201

BRIDGE NO. 42-169
POST MILE 20.6

CONCRETE BARRIER REPLACEMENT
GENERAL PLAN NO. 6

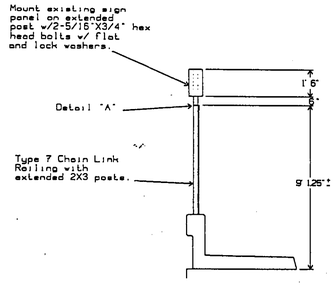
DISREGARD PRINTS BEARING EARLIER REVISION DATES →

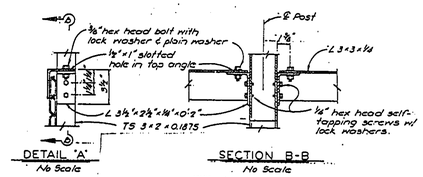
REVISION DATES (PRELIMINARY STAGE ONLY): 5-21-90 | 6-13-90 | 8-30-90 | 9-10-90 | 9-13-90 | 9-27-90 | 10-5-90 | 11-27-90

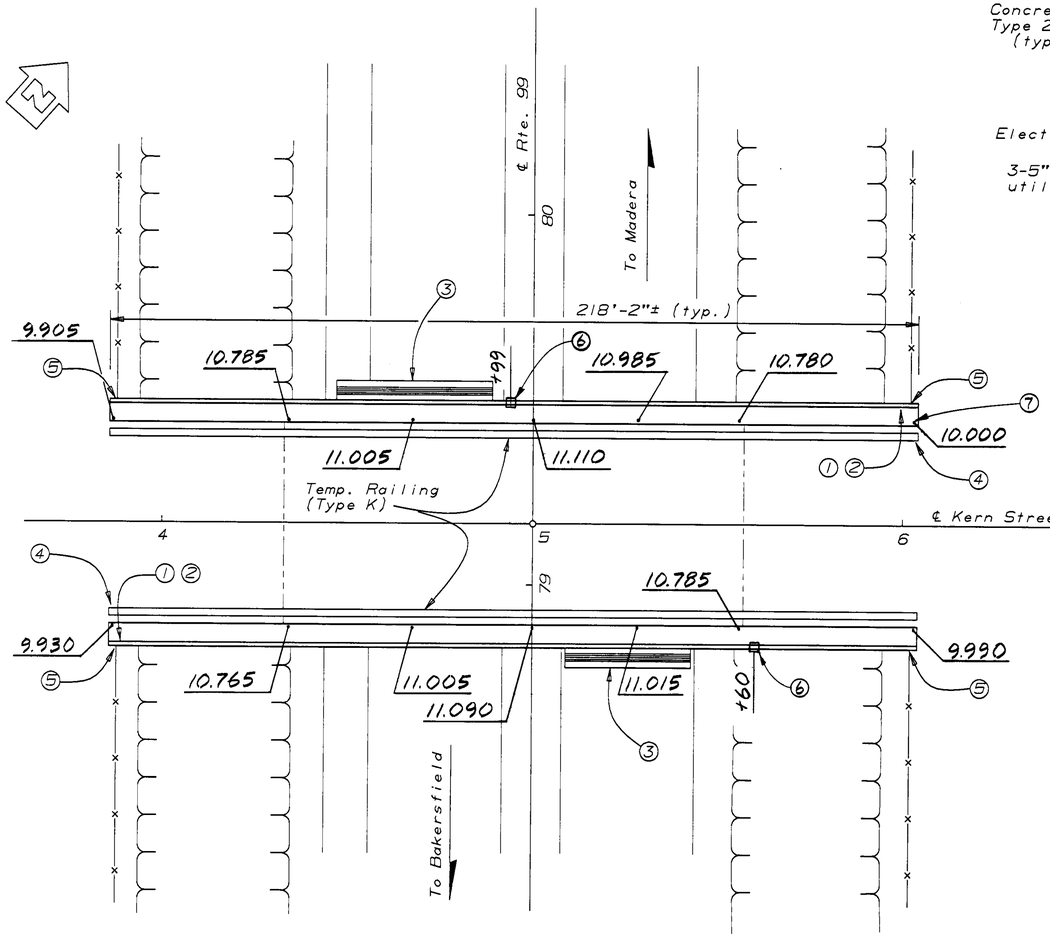
SHEET 6 OF 24

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CCO #3

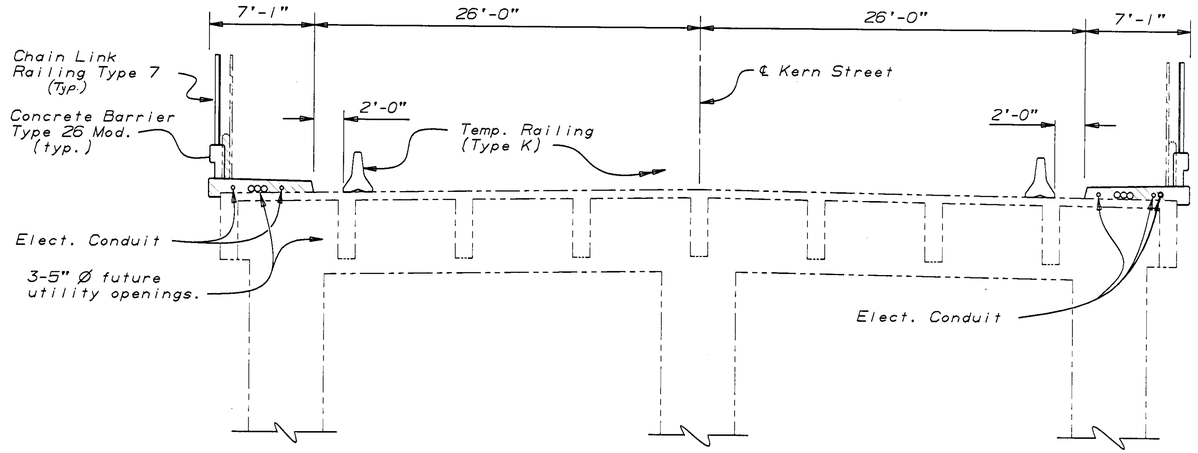






PLAN

1"=20'



TYPICAL SECTION

1"=5'

AS BUILT
D.A.S. 1-15-92
CORRECTED BY J. Abercrombie
CONTRACT NO. 06-282204
DATE 8-3-92

Notes:

1. Paint "Kern Street Overcrossing" and year constructed.
2. Paint "Br. No. 42-159".
3. Remove sign structures prior to construction and reinstall after barrier rails are completed.
4. Temporary Crash Cushion Modules, see "Road Plans."
5. Remove end post of existing Right of Way Fence prior to construction. Replace and reconnect end post and Fence after Barrier Rail is completed.

▨ Indicates limits of existing Structure removal.

– – – – Indicates existing structure.

6. Road sign mounted on 2x3 steel post of Type 7 fencing See details above. CCO #3 (No Parking Signs)
7. Reference nails based on Assumed Elev. 10.000 (NE Corner)

APPROXIMATE QUANTITIES

TEMPORARY RAILING (TYPE K)	440 LF
MODIFY SIGN STRUCTURE	2 EA
BRIDGE REMOVAL (PORTION), LOCATION E	LUMP SUM
REFINISH BRIDGE DECK	125 SQFT

FINAL PAY QUANTITIES

CHAIN LINK RAILING (TYPE 7)	437 LF
CONCRETE BARRIER (TYPE 26 MODIFIED)	437 LF

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

KERN STREET OVERCROSSING

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	20	39

REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE

J. M. Stolin 12-90
DESIGN ENGINEER

DESIGN	BY D. Ross 9-90	CHECKED G. Joe 9-90	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
DETAILS	BY D.A. SANDERSON 7-90	CHECKED G. Joe 9-90	LAYOUT	BY D. Ross 9-90	CHECKED G. Joe 9-90
QUANTITIES	BY D. Ross 9-90	CHECKED S. Maan 9-90	SPECIFICATIONS	BY R. J. Anderson	PLANS AND SPECS COMPARED R. J. Anderson

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 9

BRIDGE NO. 42-159
POST MILE 20.5

CONCRETE BARRIER REPLACEMENT
GENERAL PLAN NO. 5

DS OSD 2138 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 7-5-90 | 8-10-90 | 9-7-90 | 9-14-90 | 9-27-90 | 10-5-90 | 10-15-90 | 10-25-90 | 11-27-90

SHEET 5 OF 24

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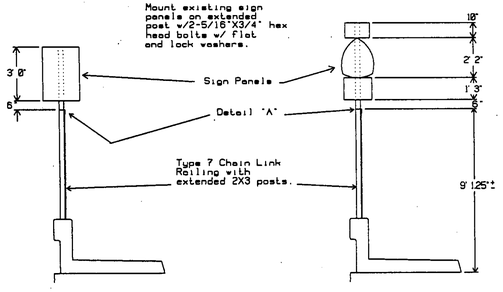
CCO #3

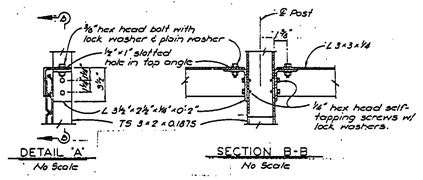
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	19	39

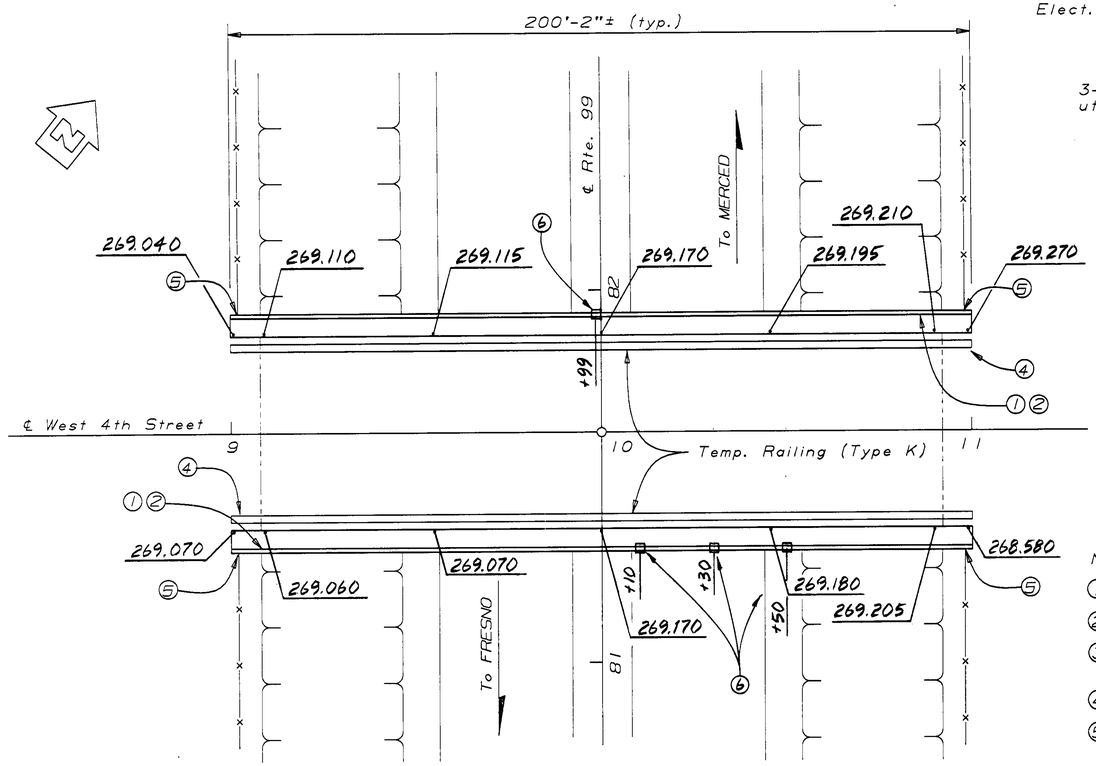
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036852 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

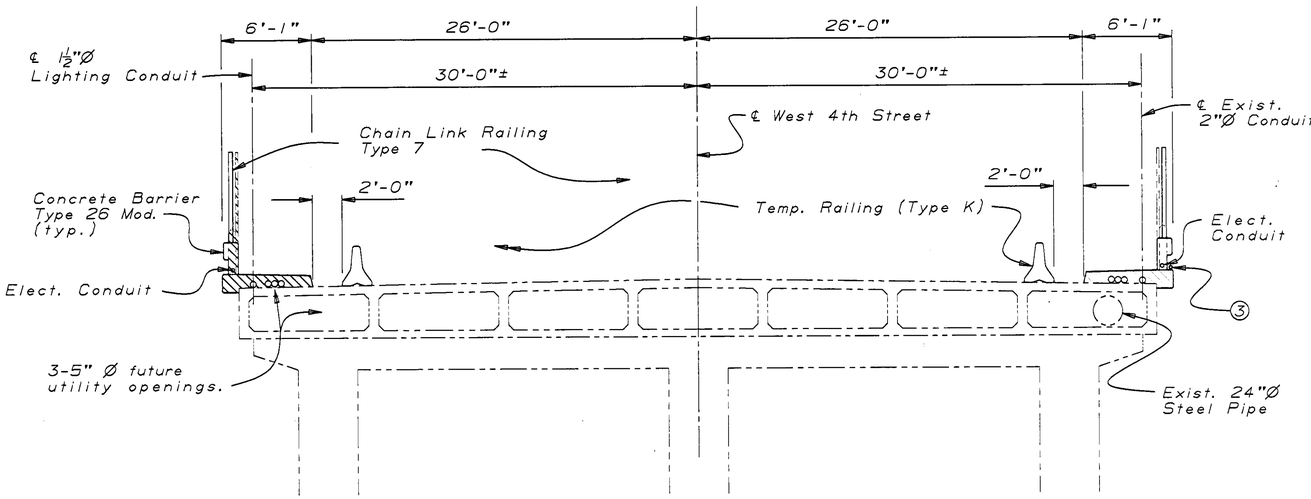
2-4-91
PLANS APPROVAL DATE







PLAN
1"=20'



TYPICAL SECTION
1"=5'

AS BUILT DAS. 1-14-93
CORRECTIONS BY J. Abercrombie
CONTRACT NO. 06-282204
DATE 8-3-92

APPROXIMATE QUANTITIES

TEMPORARY RAILING (TYPE K)	400 LF
BRIDGE REMOVAL (PORTION), LOCATION D	LUMP SUM
REFINISH BRIDGE DECK	185 SQFT

FINAL PAY QUANTITIES

CHAIN LINK RAILING (TYPE 7)	401 LF
CONCRETE BARRIER (TYPE 26 MODIFIED)	401 LF

Notes:

① Paint "West 4th Street Overcrossing" and year constructed.

② Paint "Br. No. 41-50".

③ Remove existing electrical conduit prior to construction. Provide temporary electrical conduit during construction.

④ Temporary Crash Cushion Modules, see "Road Plans."

⑤ Remove end post of existing Right of Way Fence prior to construction. Replace and reconnect end post and Fence after Barrier Rail is complete.

▭ Indicates limits of existing Structure removal.

---- Indicates existing structure.

⑥ Road sign mounted on 2x3 steel post of Type 7 fencing
See details above
Sign at 9+97: "TO 99 SOUTH ←"
10+10: "TO 99 NORTH →"
Sign at 10+30 "Trucks over 60.00 Gross No Left Turn"
10+50: "No Right Turn"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

WEST FOURTH STREET OVERCROSSING

DESIGN	BY D. Ross 9-90	CHECKED G. Joe 9-90	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9
DETAILS	BY D.A. SANDERSON 7-90	CHECKED G. Joe 9-90	LAYOUT	BY D. Ross 9-90	CHECKED G. Joe 9-90		
QUANTITIES	BY D. Ross 9-90	CHECKED S. Maan 9-90	SPECIFICATIONS	BY	PLANS AND SPECS COMPARED		

I M Stoelin 12-90
DESIGN ENGINEER

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

BRIDGE NO. 41-50
POST MILE 11.0

CONCRETE BARRIER REPLACEMENT
GENERAL PLAN NO. 4

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 7-12-90 | 9-7-90 | 9-14-90 | 9-27-90 | 10-1-90 | 10-5-90 | 10-15-90 | 11-5-90 | 11-27-90

SHEET 4 OF 24

DS OSD 2138 (CADD 4/89)

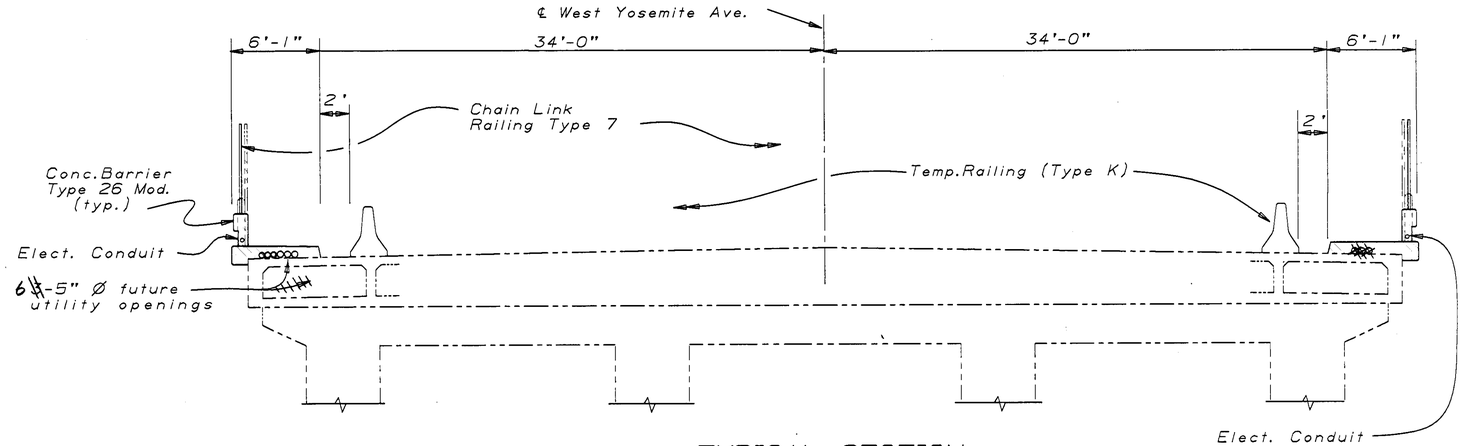
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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	18	39

REGISTERED ENGINEER - CIVIL

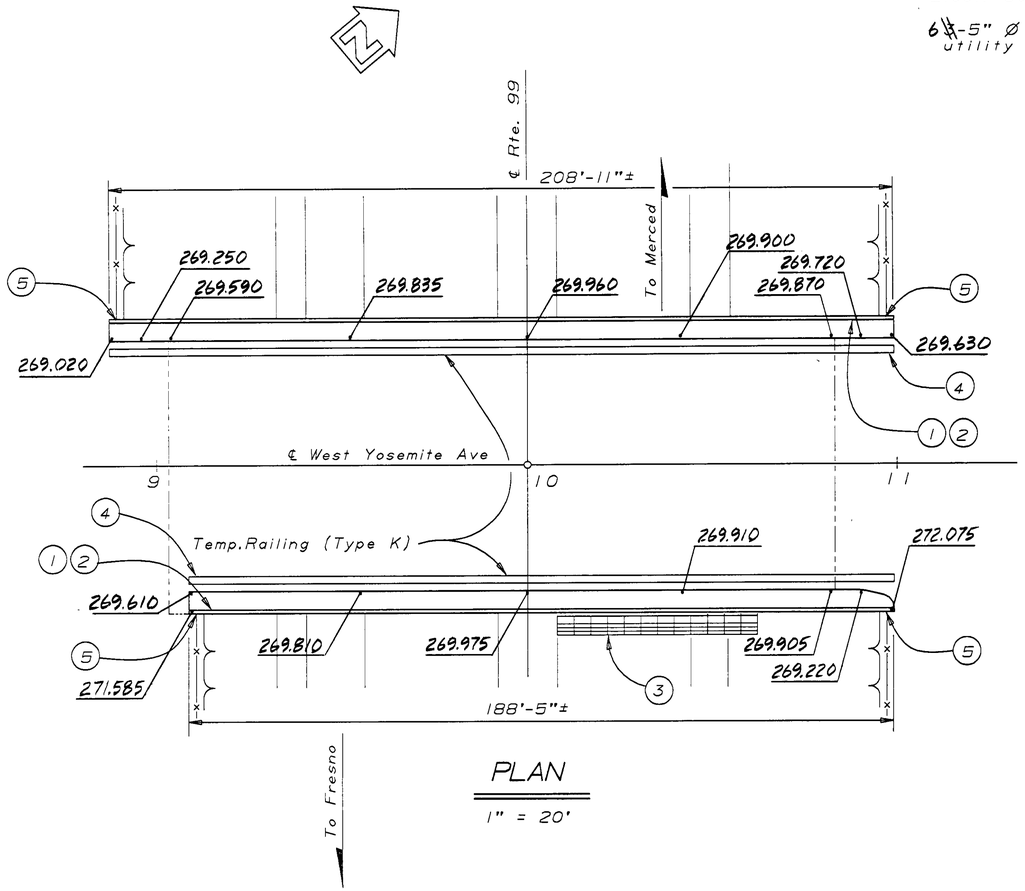
REGISTERED PROFESSIONAL ENGINEER — Gary Joe, No. 36652, Exp. 6-30-92, CIVIL, STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE



TYPICAL SECTION

1" = 5'



PLAN

1" = 20'

AS BUILT
CORRECTED BY J. Abercrombie DAS 12-8-92
CONTRACT NO. 06-282204
DATE 8-3-92

Notes:

1. Paint "West Yosemite Ave. Overcrossing" and year constructed.
2. Paint "Br. No. 41-49".
3. Remove sign structure prior to construction and reinstall after barrier rails are completed.
4. Temporary Crash Cushion Modules, see "Road Plans."
5. Remove end post of existing Right of Way Fence prior to construction. Replace and reconnect end post and Fence after Barrier Rail is complete.

▨ Indicates limits of existing Structure removal.

– – – – Indicates existing structure.

APPROXIMATE QUANTITIES

TEMPORARY RAILING (TYPE K)	420 LF
MODIFY SIGN STRUCTURE	1 EA
BRIDGE REMOVAL (PORTION), LOCATION C	LUMP SUM
REFINISH BRIDGE DECK	181 SQFT

FINAL PAY QUANTITIES

CHAIN LINK RAILING (TYPE 7)	398 LF
CONCRETE BARRIER (TYPE 26 MODIFIED)	398 LF

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

WEST YOSEMITE AVENUE OVERCROSSING

I m Stahl 12-90
DESIGN ENGINEER

DESIGN	BY D. Ross 9-90	CHECKED G. Joe 9-90	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD			
DETAILS	BY Flo Callen 5-90	CHECKED G. Joe 9-90	LAYOUT	BY D. Ross 9-90	CHECKED G. Joe 9-90		
QUANTITIES	BY D. Ross 9-90	CHECKED S. Maan 9-90	SPECIFICATIONS	BY R. J. Parkinson	PLANS AND SPECS COMPARED R. J. Parkinson		

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 9

CU 06200
EA 282201

BRIDGE NO. 41-49
POST MILE 10.8

CONCRETE BARRIER REPLACEMENT
GENERAL PLAN NO. 3

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)										SHEET	OF
5-21-90	6-1-90	6-13-90	8-10-90	9-7-90	9-13-90	9-27-90	10-1-90	10-5-90	11-27-90	3	24

DS OSD 2138 (CADD 4/89)

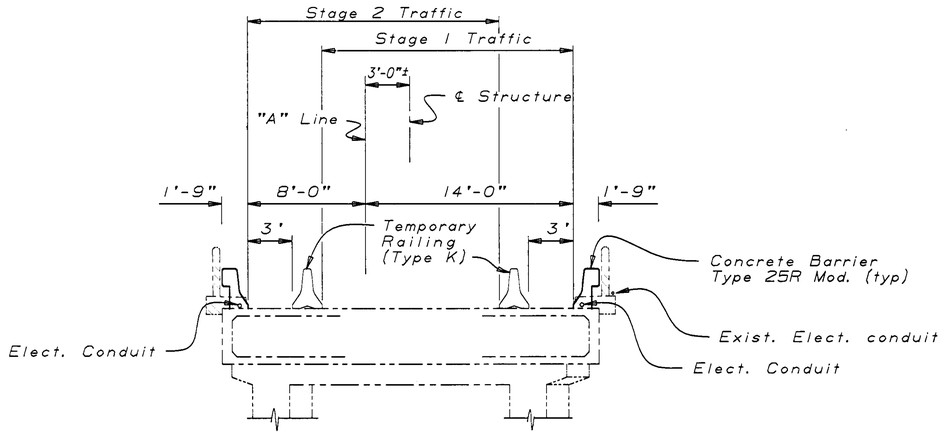
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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	16	39

REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — Gary Joe — No. 36852 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE



TYPICAL SECTION

1"=5'

PLAN

1" = 20'

Notes:

1. Paint "South Madera Overcrossing" and year constructed.
2. Paint "Br. No. 41-46K".
3. Remove sign structure prior to construction and reinstall after barrier rail is complete.
4. Provide anchorage for existing MBGR. See Road Plans.
5. Temporary Crash Cushion Modules, see "Road Plans."

Indicates limits of existing Structure removal.

Indicates existing structure.

6. Reference nails based on Assumed Elev. 10.000 (NE Corner)

GENERAL NOTES
WORKING STRESS DESIGN

DESIGN: BRIDGE DESIGN SPECIFICATIONS (1983 AASHTO with Interims and Revisions by CALTRANS).

REINFORCED CONCRETE: f_s = 24,000 psi

f_c = 1,300 psi

n = 10

APPROXIMATE QUANTITIES

TEMPORARY RAILING (TYPE K)	620 LF
MODIFY SIGN STRUCTURE	1 EA
BRIDGE REMOVAL (PORTION), LOCATION A	LUMP SUM
REFINISH BRIDGE DECK	226 SQFT

FINAL PAY QUANTITIES

CONCRETE BARRIER (TYPE 25R MODIFIED)	488 LF

INDEX TO PLANS

SHEET NO.	TITLE
1.	GENERAL PLAN NO. 1
2.	GENERAL PLAN NO. 2
3.	GENERAL PLAN NO. 3
4.	GENERAL PLAN NO. 4
5.	GENERAL PLAN NO. 5
6.	GENERAL PLAN NO. 6
7.	GENERAL PLAN NO. 7
8.	GENERAL PLAN NO. 8
9.	BARRIER DETAILS NO. 1
10.	BARRIER DETAILS NO. 2
11.	BARRIER DETAILS NO. 3
12.	BARRIER DETAILS NO. 4
13.	BARRIER DETAILS NO. 5
14.	BARRIER DETAILS NO. 6
15.	BARRIER DETAILS NO. 7
16.	BARRIER DETAILS NO. 8
17.	BARRIER DETAILS NO. 9
18.	BARRIER DETAILS NO. 10
19.	BARRIER DETAILS NO. 11
20.	BARRIER DETAILS NO. 12
21.	SIGN DETAILS NO. 1
22.	SIGN DETAILS NO. 2
23.	SIGN DETAILS NO. 3
24.	CONCRETE BARRIER TYPE 25R

STANDARD PLANS DATED JANUARY 1988

B11-30	TEMPORARY RAILING (TYPE K)
B11-52	CHAIN LINK RAILING TYPE 7
B11-54	CONCRETE BARRIER TYPE 26
S9-12	OVERHEAD SIGNS, WALKWAY DETAILS NO. 1
S10-9	OVERHEAD SIGNS, WALKWAY DETAILS NO. 2
S11-10	OVERHEAD SIGNS, WALKWAY RAILING DETAILS

AS BUILT
DAS 12-8-92
CORRECTIONS BY J. Abercrombie
CONTRACT NO. 06-282204
DATE 8-3-92

Standard Plan Sheet No.
Detail No.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

SOUTH MADERA OVERCROSSING

L m Stokes 12-90
DESIGN ENGINEER

DESIGN	BY D. Ross 9-90	CHECKED G. Joe 9-90	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
DETAILS	BY Flo Calkins 5-90	CHECKED G. Joe 9-90	LAYOUT	BY D. Ross 9-90	CHECKED G. Joe 9-90
QUANTITIES	BY D. Ross 9-90	CHECKED S. Moan 9-90	SPECIFICATIONS	BY	PLANS AND SPECS COMPARED

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 9

CU 06200
EA 282201

BRIDGE NO. 41-46K
POST MILE 9.7

CONCRETE BARRIER REPLACEMENT
GENERAL PLAN NO. 1

DS 050 2138 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 10-18-90 | 11-26-90 | 9-7-90 | 9-13-90 | 9-14-90 | 9-27-90 | 10-1-90 | 10-5-90

SHEET 1 OF 24

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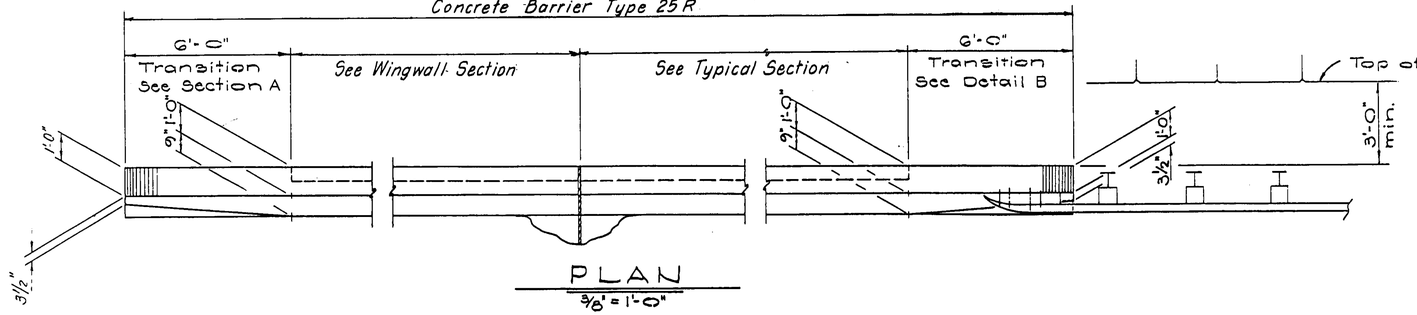
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	39	39

REGISTERED ENGINEER - CIVIL

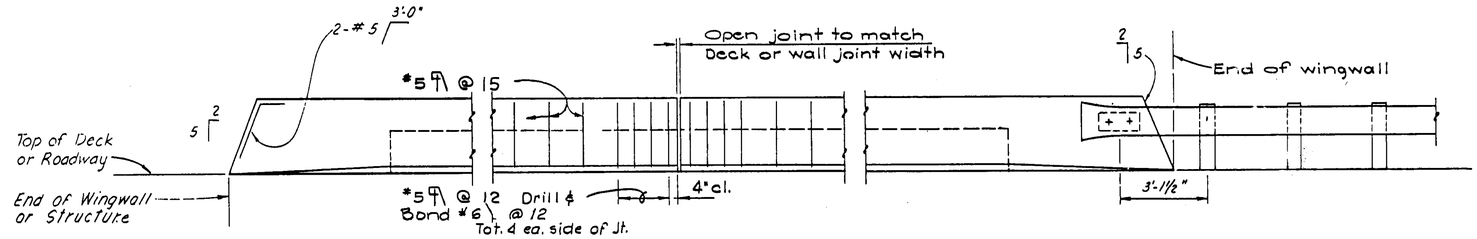
2-4-91
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — G. Joe — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

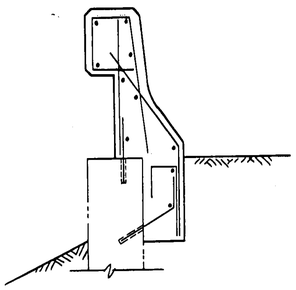
Concrete Barrier Type 25R



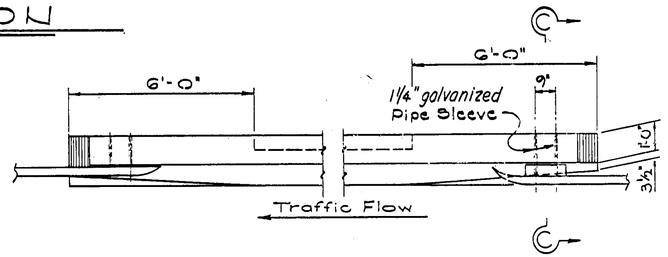
PLAN
3/8" = 1'-0"



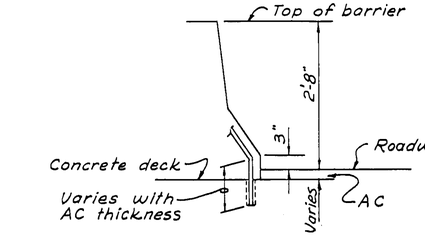
ELEVATION
3/8" = 1'-0"



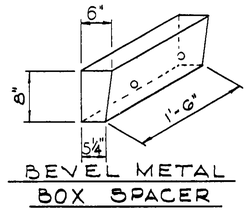
WINGWALL SECTION
3/4" = 1'-0"



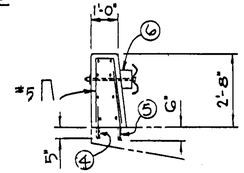
PLAN



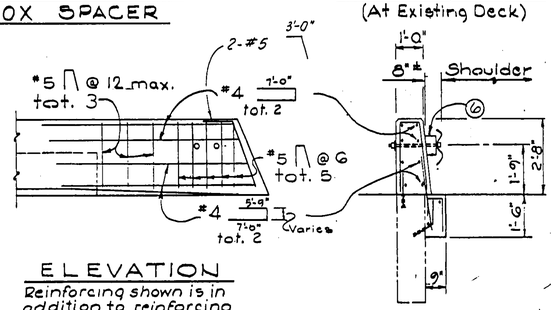
AC DETAIL



BEVEL METAL
BOX SPACER



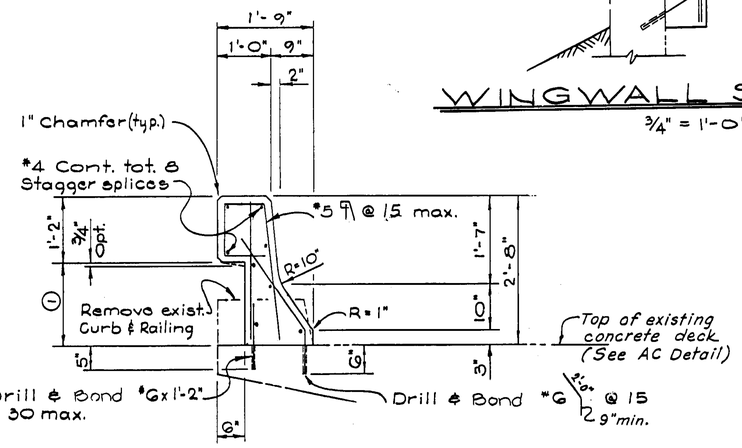
SECTION C-C
(At Existing Deck)



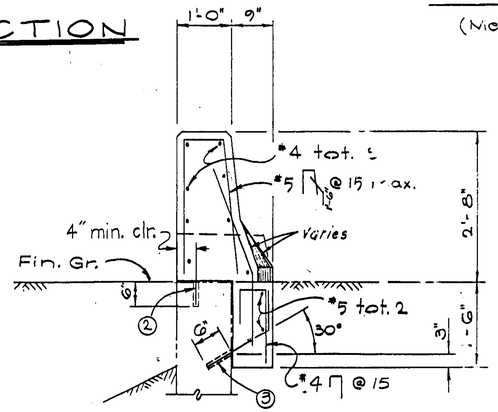
ELEVATION
Reinforcing shown is in addition to reinforcing in Typical Section

SECTION C-C
(At Wingwall)
For Details not shown, see "Section A".

DETAIL B
(Metal Beam Guard Rail Anchorage)



TYPICAL SECTION
3/4" = 1'-0"



SECTION A
3/4" = 1'-0"

Notes:
① - Dimension may vary with cross-slope and with certain thicknesses of surfacing.
② - Drill & Bond #6 x 1'-2" @ 30 max.

③ - Drill & Bond #6 @ 30 max.
④ - Drill & Bond #6 x 1'-2" @ 15
⑤ - Drill & Bond #6 x 2'-6" @ 15
⑥ - Bevel Metal Box Spacer, for anchorage details see Std. Plans A79-C.

Clearance to reinforcing steel in barrier to be 1" except as noted. Longitudinal reinforcement to stop at all expansion joints.
All reinforcing dowels or bolts which will be exposed after Barrier Modification shall be cut off 1" below finish surface and the hole filled with cement mortar.
For Metal Beam Guard Rail details not shown see Standard Plans A77-C, A77-D, A79-A, A79-B and A79-C.

For Drill and Bond, use Magnesium Phosphate Concrete.

NO CORRECTIONS THIS SHEET
AS BUILT
CORRECTED J. ABERCROMBIE
CONTRACT NO. 06-282204
DATE 8-3-93

FILE NO.	DESIGN By G. Joe	Checked D. Ross	Approval Recommended By
DRAWING	DETAILS By	Checked	DESIGN SUPERVISOR
DATE	SUBMITTED BY		REGISTERED CIVIL ENGINEER NUMBER

State of CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN

PROJECT ENGINEER — REGISTERED CIVIL ENGINEER NO.

BRIDGE NO. Various
POST MILE Various

CONCRETE BARRIER REPLACEMENT
CONCRETE BARRIER TYPE 25R

DS 050 2147A (2/86)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

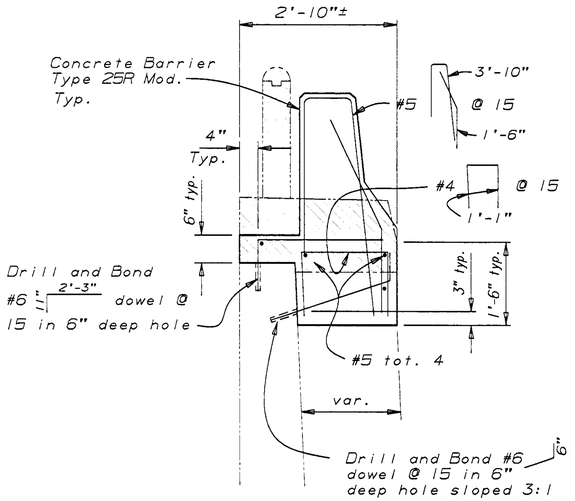
CU 06200
EA 282201

Disregard prints bearing earlier revision dates →

REVISION DATES (PRELIMINARY STAGE ONLY): 8/86 9/87

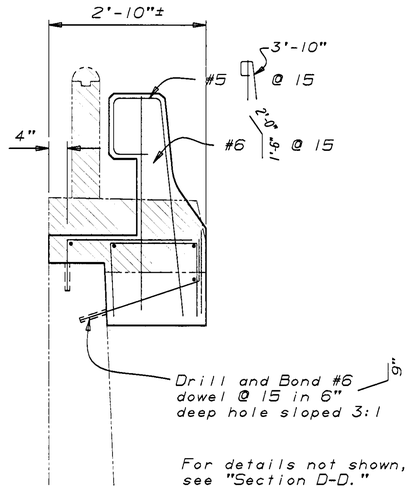
SHEET 24 OF 24

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SECTION D-D

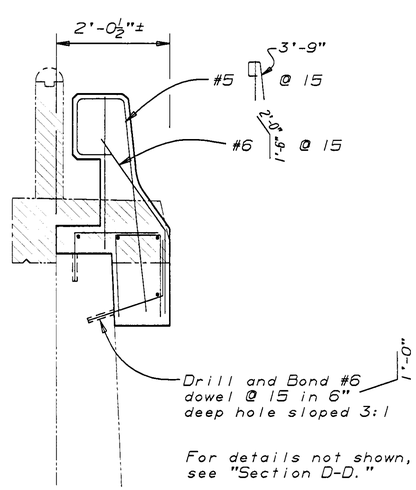
$\frac{3}{4}$"=1'-0"



For details not shown, see "Section D-D."

SECTION E-E

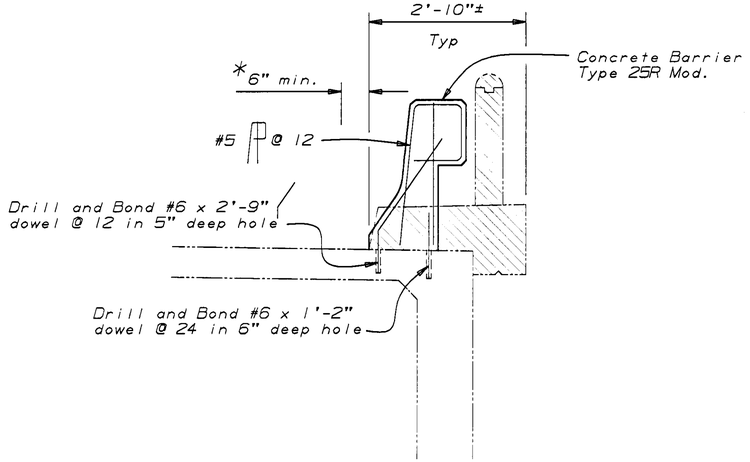
$\frac{3}{4}$"=1'-0"



For details not shown, see "Section D-D."

SECTION F-F

$\frac{3}{4}$"=1'-0"



TYPICAL SECTION - RT. EDGE OF DECK

$\frac{3}{4}$"=1'-0"

Notes:

* Limits of refinishing bridge deck.

For locations of "Section D-D, E-E & F-F," see "Barrier Details No. 4" sheet.

For details and reinf. not shown see "Concrete Barrier Type 25R" sheet.

Indicates limits of existing Structure removal.

Indicates existing structure.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

NO CORRECTIONS THIS SHEET

AS BUILT

W. A. R. 3-11-93

CORRECTED BY J. ABERCROMBIE

CONTRACT NO. 06-282204

DATE 8-3-92

PACIFIC AVENUE OVERCROSSING

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	35	39

REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE

DESIGN	BY D. ROSS 9-90	CHECKED G. JOE 9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9	BRIDGE NO. 42-189 / POST MILE 22.4
DETAILS	BY D.A. SANDERSON 9-90	CHECKED G. JOE 9-90			
QUANTITIES	BY D. ROSS 9-90	CHECKED S. MAAN 9-90			

CONCRETE BARRIER REPLACEMENT
BARRIER DETAILS NO. 12

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 9-14-90 | 9-18-90 | 10-1-90 | 10-8-90 | 11-28-90

SHEET 20 OF 24

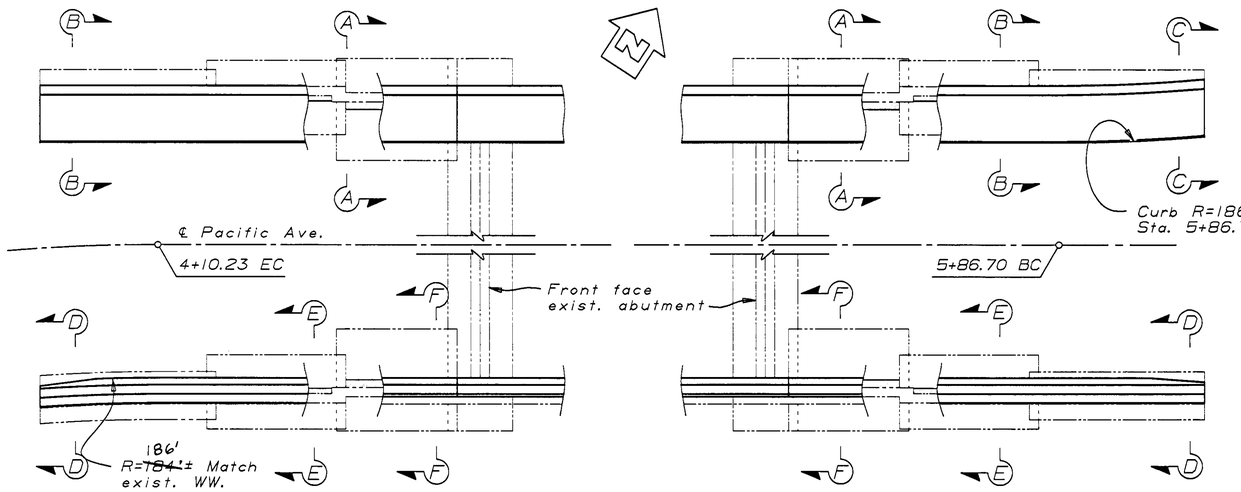
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	34	39

REGISTERED ENGINEER - CIVIL

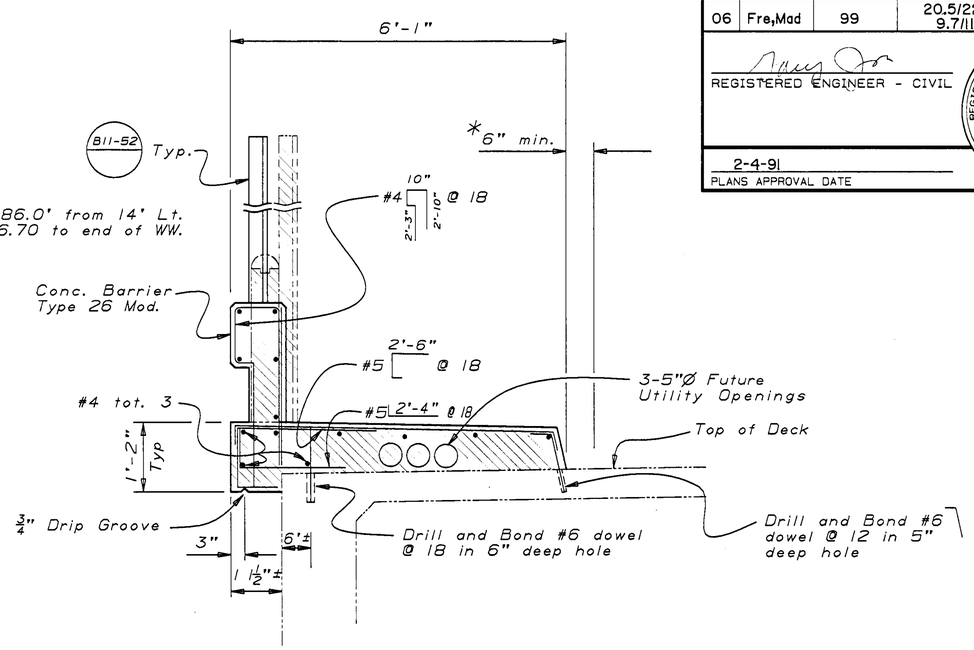
REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE

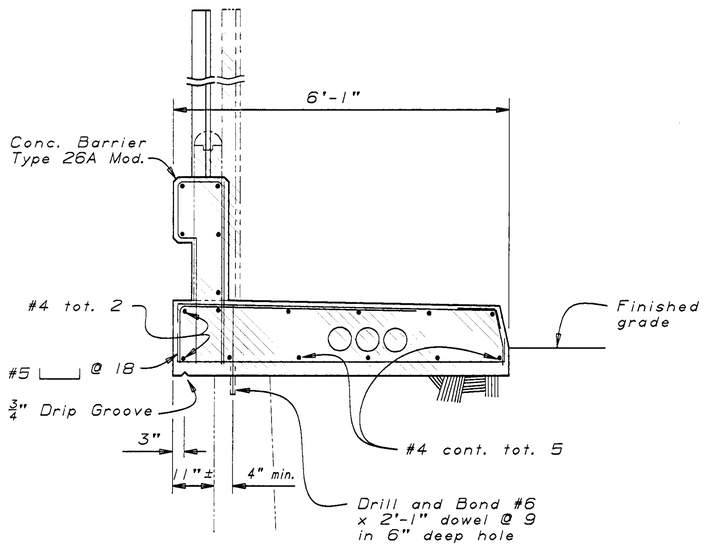


PLAN
1/8"=1'-0"

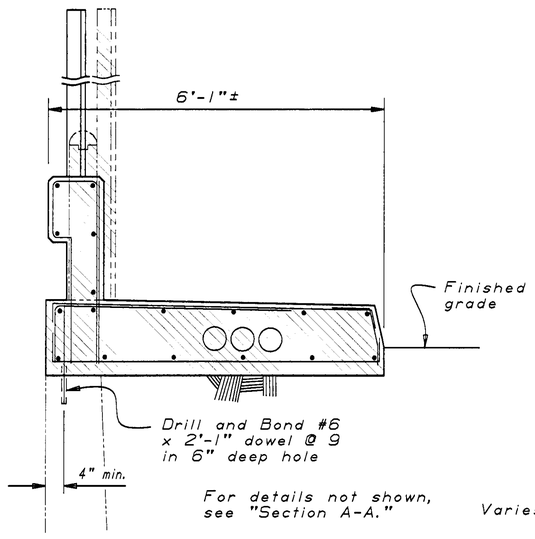
Note:
For Sections D-D, E-E, F-F and Typical Section - Rt. Edge of Deck, see "Barrier Details No. 12" sheet.



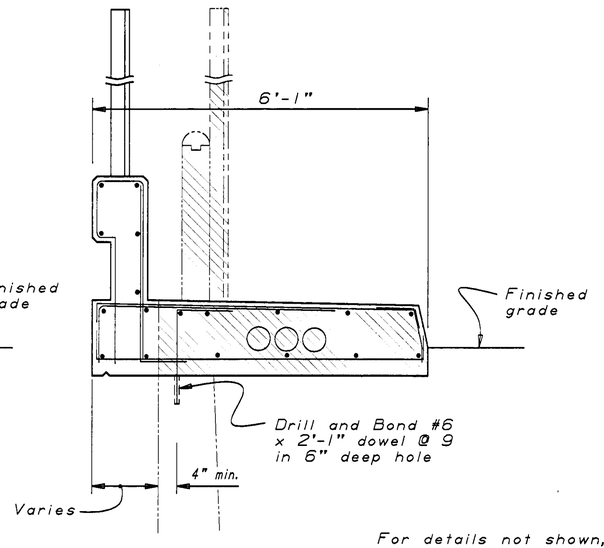
TYPICAL SECTION - LT. EDGE OF DECK B11-54
¾"=1'-0"



SECTION A-A B11-54
¾"=1'-0"



SECTION B-B
¾"=1'-0"



SECTION C-C
¾"=1'-0"

W.A.R 3-11-93
CORRE[illegible] J. ABERCROMBIE
CONTRACT NO. 06-282204
DATE 8-3-92

Notes:

* Limits of refinishing bridge deck.

Indicates limits of existing Structure removal.

Indicates existing structure.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

PACIFIC AVENUE OVERCROSSING

DESIGN	BY D. ROSS 9-90	CHECKED G. JOE 9-90	
DETAILS	BY D.A. SANDERSON 9-90	CHECKED G. JOE 9-90	
QUANTITIES	BY D. ROSS	CHECKED S. MAAN	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 9

CU 06200
EA 282201

BRIDGE NO.	CONCRETE BARRIER REPLACEMENT
42-189	BARRIER DETAILS NO. 11
POST MILE 22.4	

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 9-11-90 | 10-1-90 | 10-8-90 | 10-15-90 | 10-18-90 | 12-3-90

SHEET 19 OF 24

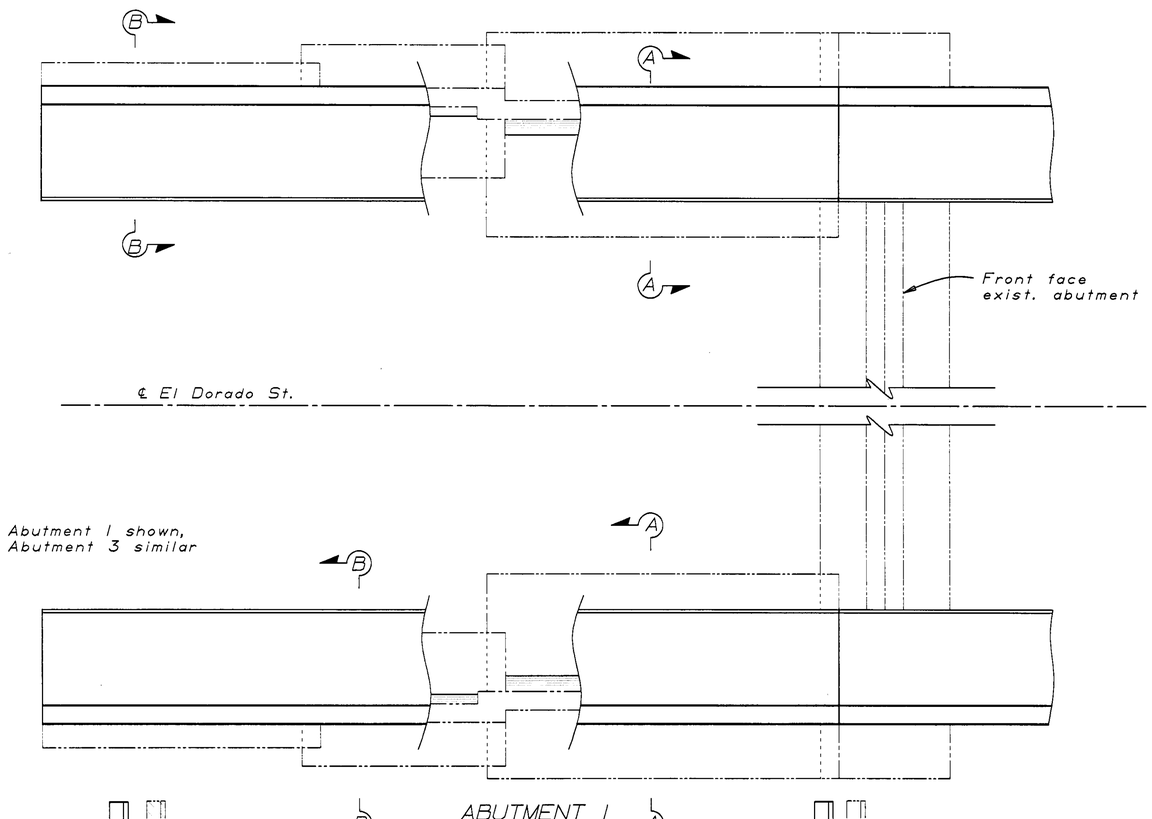
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	33	39

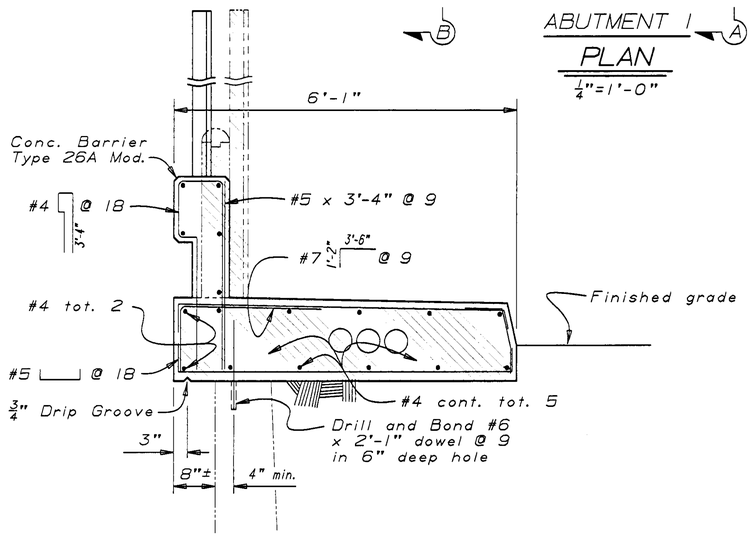
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

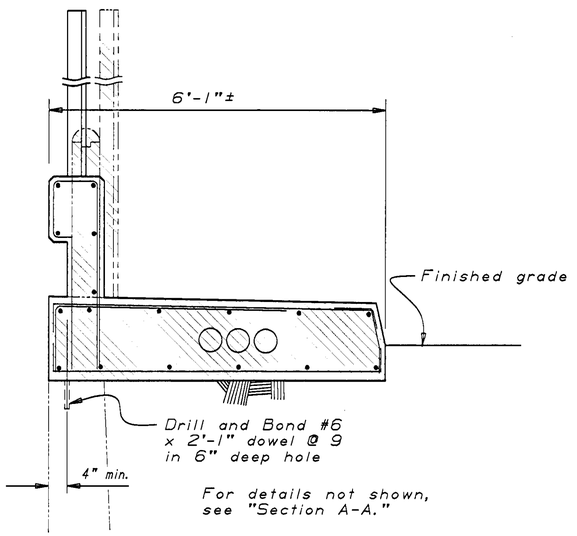
2-4-91
PLANS APPROVAL DATE



ABUTMENT 1
PLAN
1/4"=1'-0"

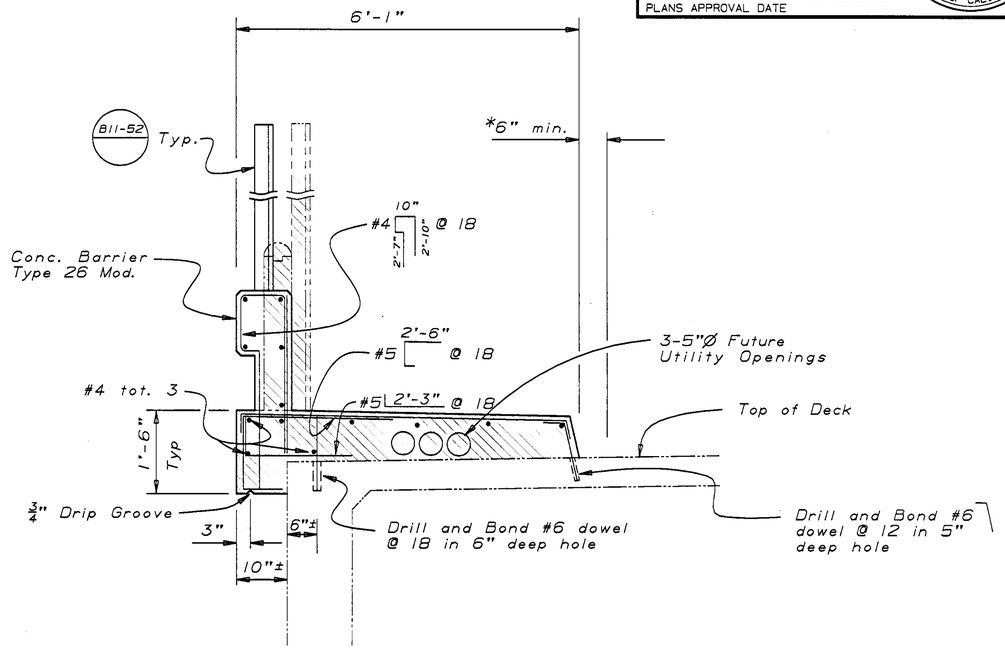


SECTION A-A
3/4"=1'-0"



For details not shown, see "Section A-A."

SECTION B-B
3/4"=1'-0"



TYPICAL SECTION (B11-54)
3/4"=1'-0"

NO CORRECTIONS THIS SHEET

W.A.R. 3-11-93
CORRECTED J. ABERCROMBIE
CONTRACT NO. 06-282204
DATE 8-3-92

Notes:

* Limits of refinishing bridge deck.

Indicates limits of existing Structure removal.

Indicates existing structure.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

EL DORADO STREET OVERCROSSING

DESIGN	BY D. ROSS 9-90	CHECKED G. JOE 9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9
DETAILS	BY D.A. SANDERSON 9-90	CHECKED G. JOE 9-90		
QUANTITIES	BY D. ROSS 9-90	CHECKED S. MAAN 9-90		

BRIDGE NO. 42-184
POST MILE 21.5

CONCRETE BARRIER REPLACEMENT
BARRIER DETAILS NO. 10

DS 050 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 9-11-90 | 9-28-90 | 10-1-90 | 10-4-90 | 10-8-90 | 12-3-90

SHEET 18 OF 24

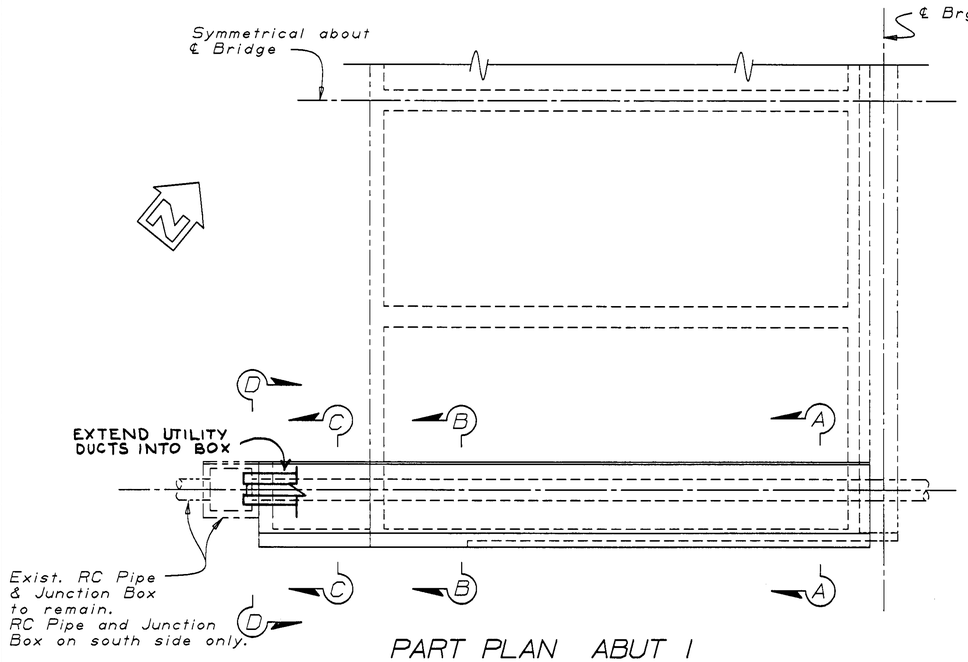
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	30	39

REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

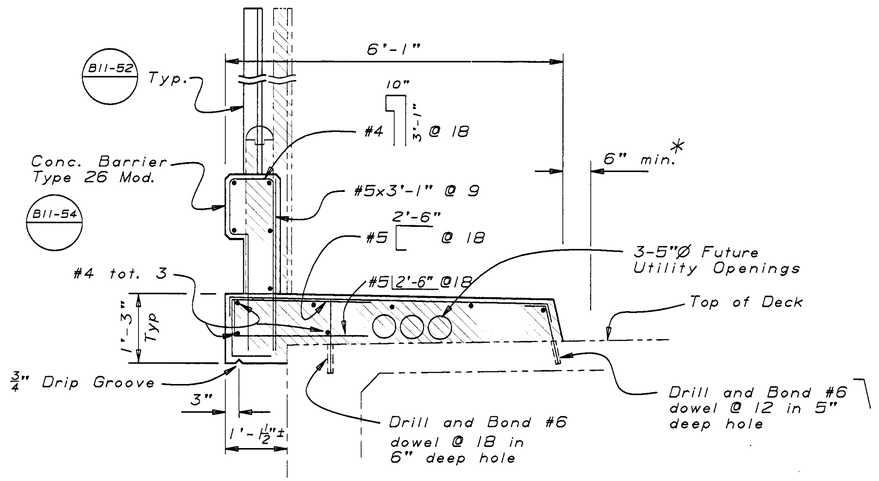
2-4-91
PLANS APPROVAL DATE



PART PLAN ABUT 1

$\frac{3}{16}$"=1'-0"

Abutment 3 similar except as noted, see Barrier Details No. 8 sheet.



TYPICAL SECTION

$\frac{3}{4}$"=1'-0"

(LOOKING BACK ON STATION)

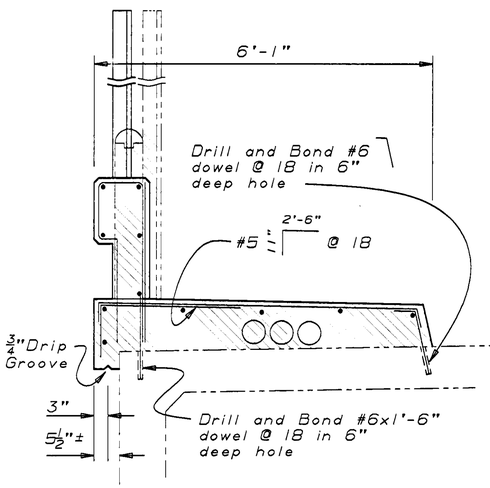
Notes:

* Limits of refinishing bridge deck.

Indicates limits of existing Structure removal.

Indicates existing structure.

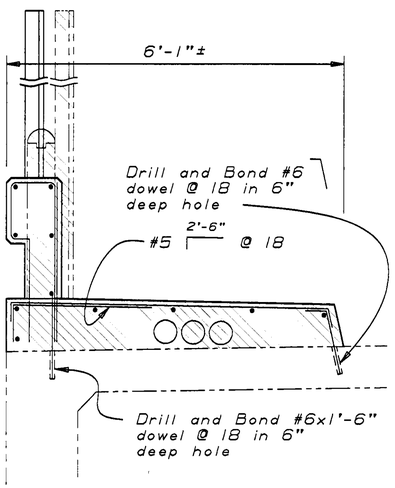
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



SECTION A-A

$\frac{3}{4}$"=1'-0"

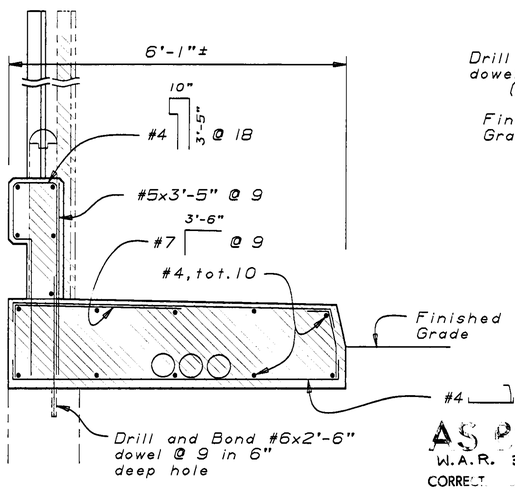
For details not shown see Typical Section



SECTION B-B

$\frac{3}{4}$"=1'-0"

For details not shown see Typical Section

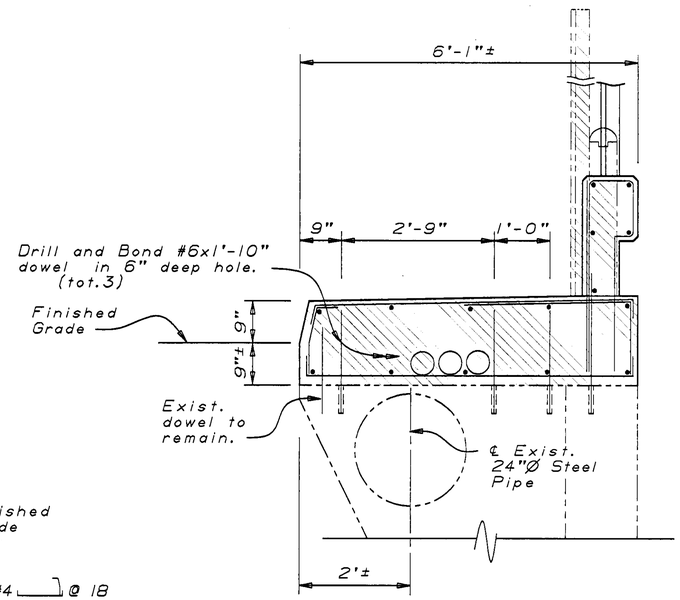


SECTION C-C

$\frac{3}{4}$"=1'-0"

For details not shown see Typical Section

AS PLOTTED
W.A.R. 3-10-93
CORRECTED J. ABERCROMBIE
CONTRACT NO. 06-282204
DATE 8-3-92



VIEW D-D

$\frac{3}{4}$"=1'-0"

For details not shown see Section C-C

WEST FOURTH STREET OVERCROSSING

DESIGN	BY D. Ross 9-90	CHECKED G. Joe 9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9	BRIDGE NO. 41-50
DETAILS	BY L. Good 9-90	CHECKED G. Joe 9-90			POST MILE 11.0
QUANTITIES	BY D. Ross 9-90	CHECKED S. Maan 9-90		CU 06200 EA 282201	

CONCRETE BARRIER REPLACEMENT
BARRIER DETAILS NO. 7

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 9-21-90 | 9-26-90 | 9-28-90 | 10-1-90 | 10-8-90 | 12-3-90

SHEET 15 OF 24

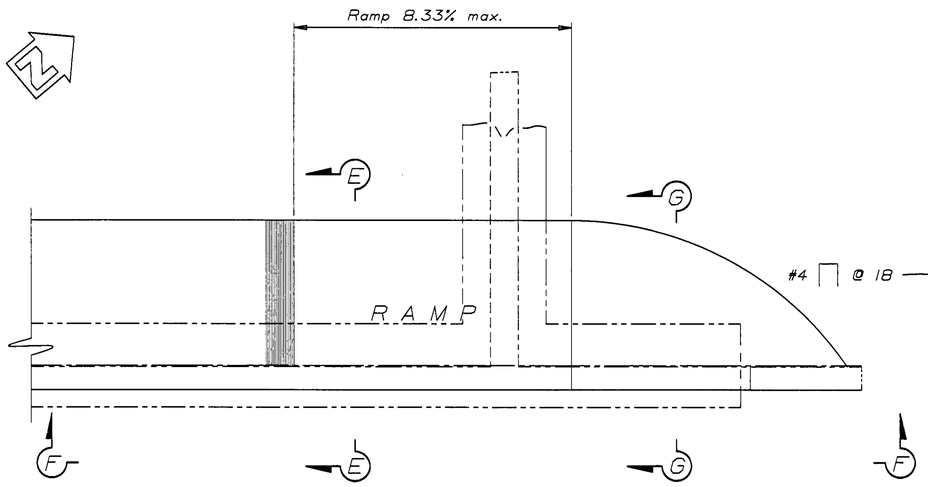
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06.	Fre,Mad	99	20.5/22.4, 9.7/11.0	29	39

REGISTERED ENGINEER - CIVIL

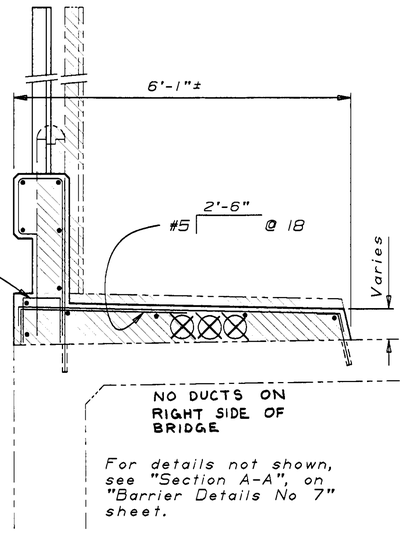
REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE



HALF PLAN - ABUT. 3 RT. SIDE

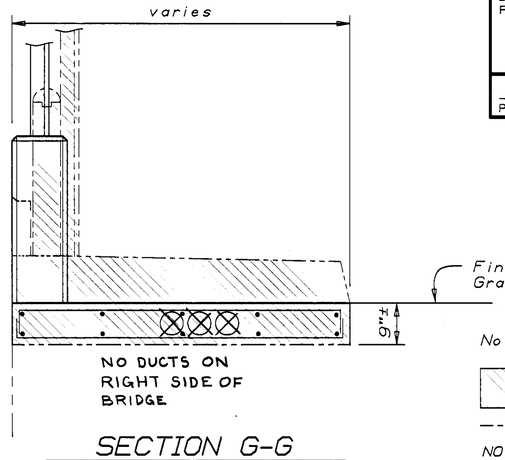
$\frac{3}{8}$"= 1'-0"



For details not shown, see "Section A-A", on "Barrier Details No 7" sheet.

SECTION E-E

$\frac{3}{4}$"= 1'-0"



SECTION G-G

$\frac{3}{4}$"=1'-0"

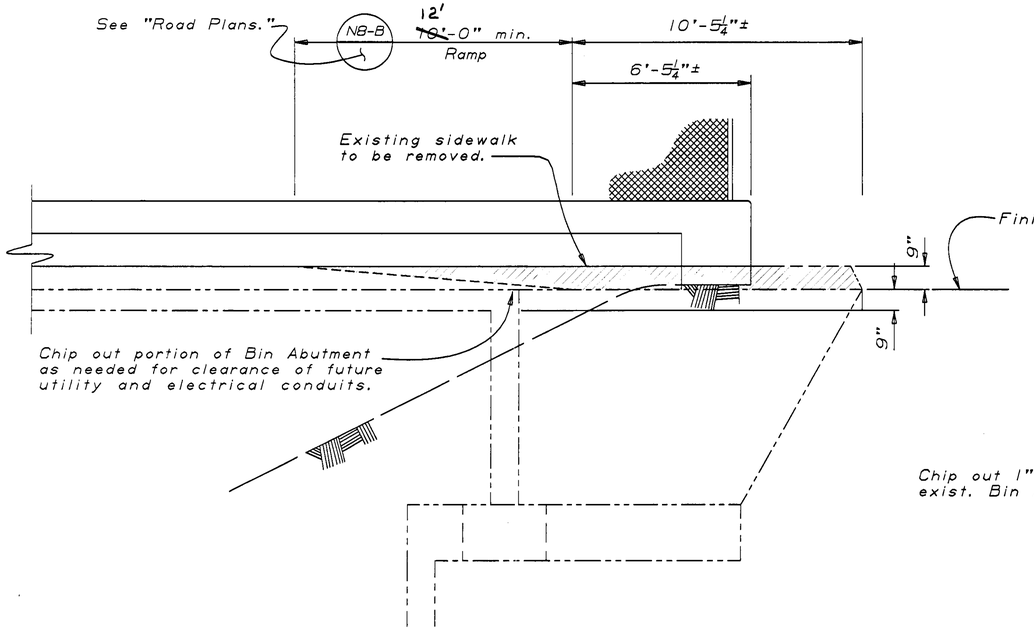
For details not shown, see "Typical Section" on "Barrier Details No.5" sheet.

Notes:

Indicates limits of existing Structure removal.

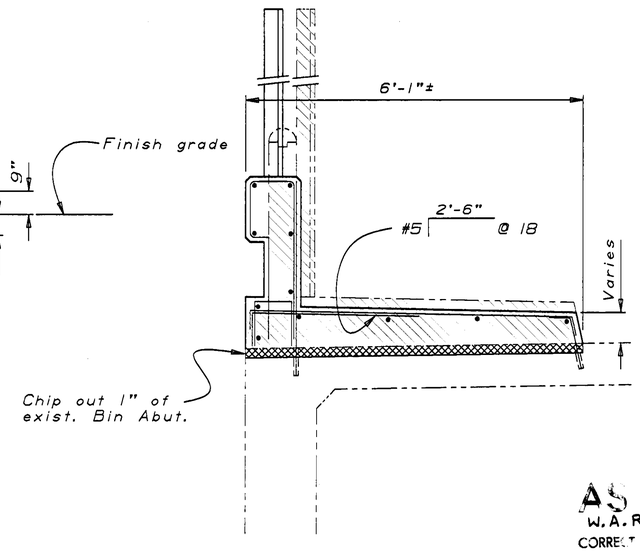
Indicates existing structure.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



ELEVATION F-F

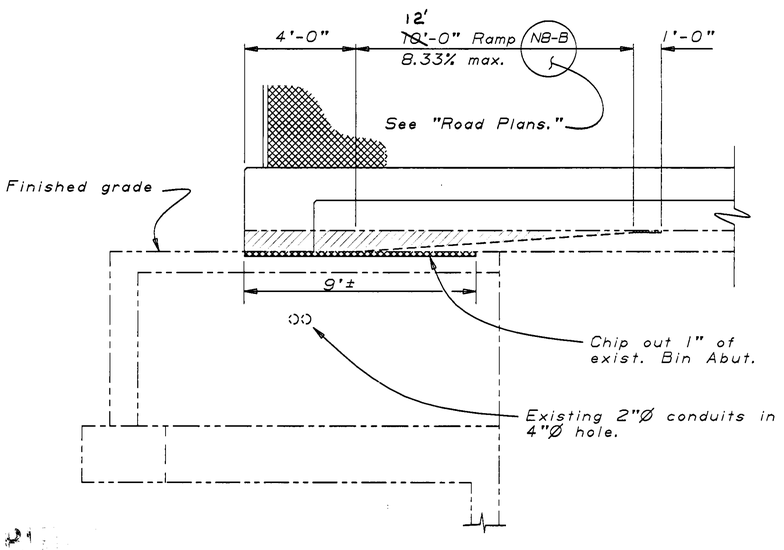
$\frac{3}{8}$"= 1'-0"



SECTION J-J

$\frac{3}{4}$"= 1'-0"

For details not shown, see "Section A-A", on "Barrier Details No 7" sheet.



ELEVATION H-H

$\frac{3}{8}$"= 1'-0"

W.A.R. 3-11-93
CORRECT J. ABERCROMBIE
CONTRACT NO. 06-282204
DATE 8-3-92

WEST YOSEMITE AVE. OVERCROSSING

DESIGN	BY D. ROSS	CHECKED G. JOE	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9	BRIDGE NO. 41-49
DETAILS	BY 9-90	CHECKED G. JOE			POST MILE 10.8
QUANTITIES	BY D. ROSS	CHECKED S. MAAN			

CONCRETE BARRIER REPLACEMENT
BARRIER DETAILS NO. 6

DS 050 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 9-7-90; 9-28-90; 10-3-90; 10-4-90; 10-17-90; 12-3-90

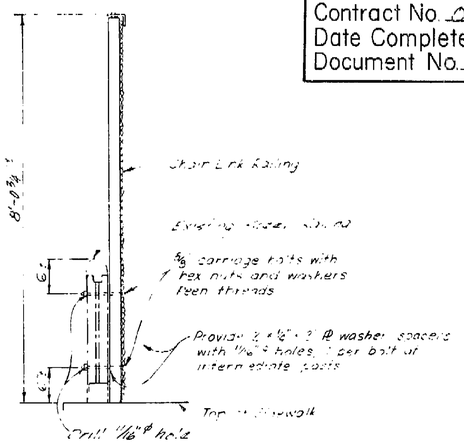
SHEET 14 OF 24

ClibPDF - www.fastio.com

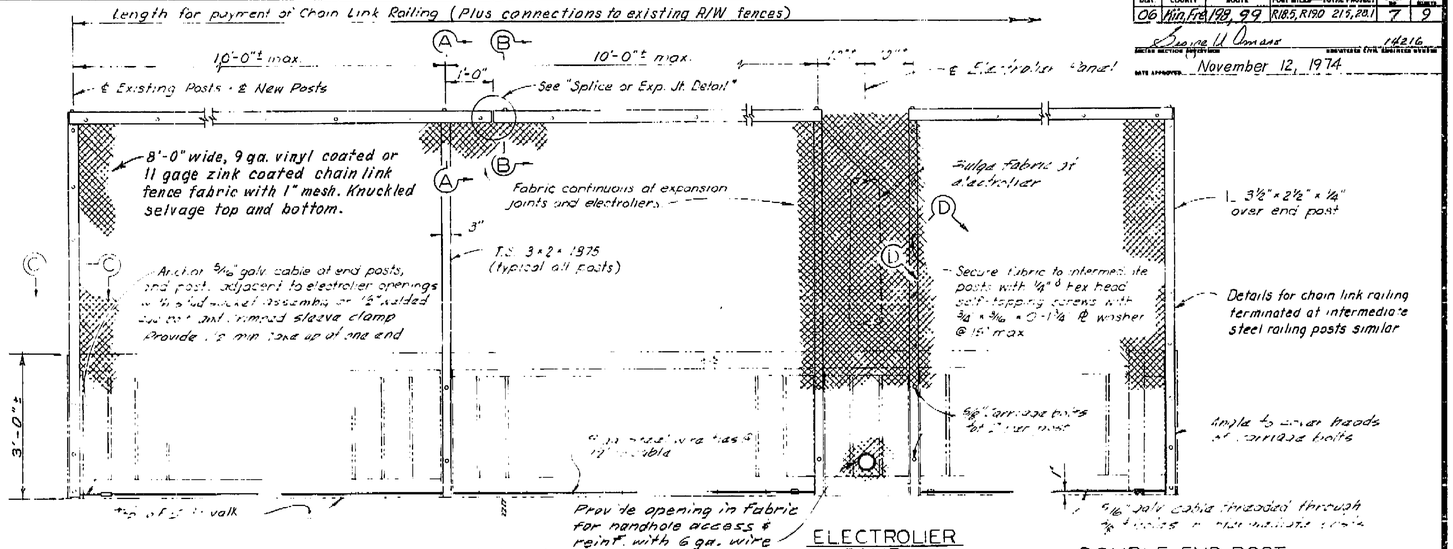
DIST	COUNTY	ROUTE	POST MILES	TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	R18.5, R19.0	215,281	7	9

Duane U Ormsbee 14216
REGISTERED CIVIL ENGINEER
DATE APPROVED November 12, 1974

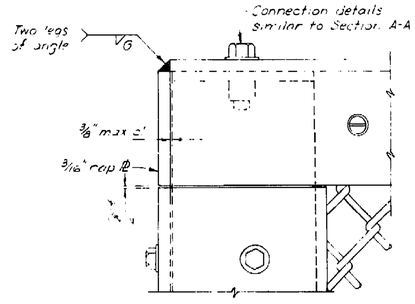
AS BUILT PLANS
Contract No. 06-144204
Date Completed 3-10-75
Document No. 6000524



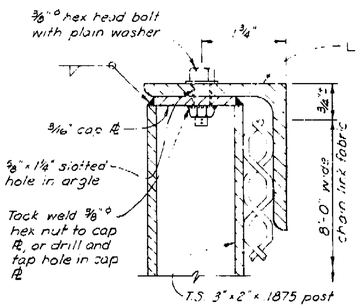
TYPICAL SECTION



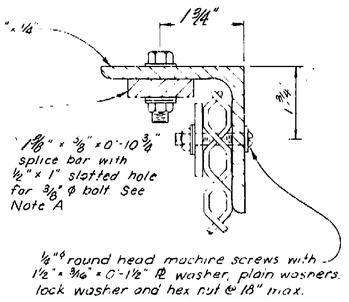
ELEVATION



END POST ELEVATION

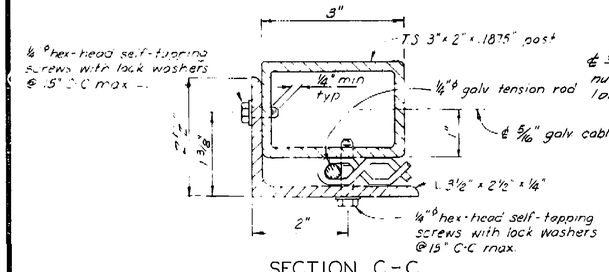


SECTION A-A

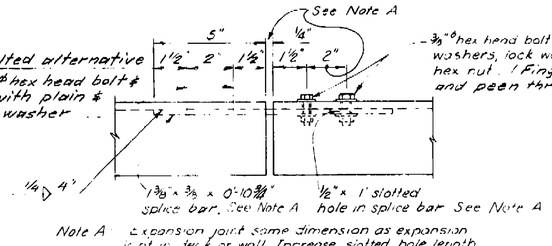


SECTION B-B

NOTES:
1. Railing assembly except chain link fabric to be galvanized after fabrication.
2. Posts shall be vertical.
3. Railing shall conform to horizontal and vertical alignment of ground, angle points to conform to horizontal alignment where slope is 15.0 ft or less and may be on a curve where slope is over 15.0 ft.
4. Horizontal angle shall be continuous over not less than two intermediate posts, except that a shorter length is permitted at expansion joints, electroliers and other rail discontinuities.
5. When rail is on slope, place fabric parallel to slope.
6. Alternative details may be submitted by Contractor for Engineer's approval.
7. Provide thimbles at all cable loops.
8. The Contractor shall verify all dependent dimensions in the field before ordering or fabricating any material.
9. When railing is placed on a curved horizontal alignment with radius of 600 ft or less, thread the cable through 3/8 ø slotted eye bolts set in steel backplate 1/4" x 3" x 6" drilled holes in concrete curb or sidewalk equally spaced to give the nearest distance between the 5/16" cable and the curb 6" max.
10. Peen all exposed bolts.



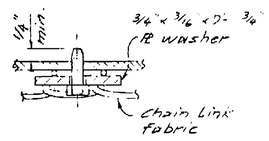
SECTION C-C



Note A: Expansion joint same dimension as expansion joint in deck or wall. Increase slotted hole length & splice bar length correspondingly.

SPLICE OR EXPANSION JOINT DETAIL

AS BUILT
CORRECTIONS BY
CONTRACT NO.
DATE



SECTION D-D

RAILING MODIFICATION

① Existing Steel Baluster (7-25-73)

DESIGN	By M. Pohll 7-72	Checked Elee 8-72	
DETAILS	By K. Endow 7-72	Checked Elee 8-72	
QUANTITIES	By J. Bonita 4/74	Checked M. Camacho '74	

State of CALIFORNIA DEPARTMENT OF TRANSPORTATION

BRIDGE DEPARTMENT DESIGN SECTION 2
PROJECT ENGINEER Jas Bonita

BRIDGE NO. 42-184
POST MILE 21.46

EL DORADO STREET OVERCROSSING
CHAIN LINK RAILING DETAILS

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU WO

Disregard prints bearing earlier revision dates →

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 2 OF 2

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

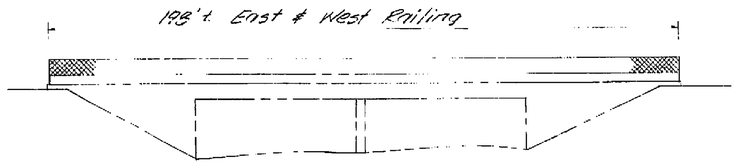
DATE 4/28/75 Dick Meadows Marilyn Spaeseni

DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fresno	180, 99	R18.3, R20 21.3, 21.1	6	9

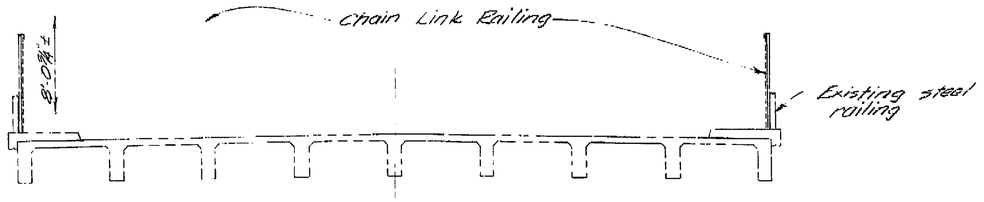
R. C. Cardona — 9013
BRIDGE ENGINEER — REGISTERED CIVIL ENGINEER NUMBER

Marc F. Downing — 4891
ASSISTANT STATE BRIDGE ENGINEER — REGISTERED CIVIL ENGINEER NUMBER

DATE APPROVED: November 12, 1974

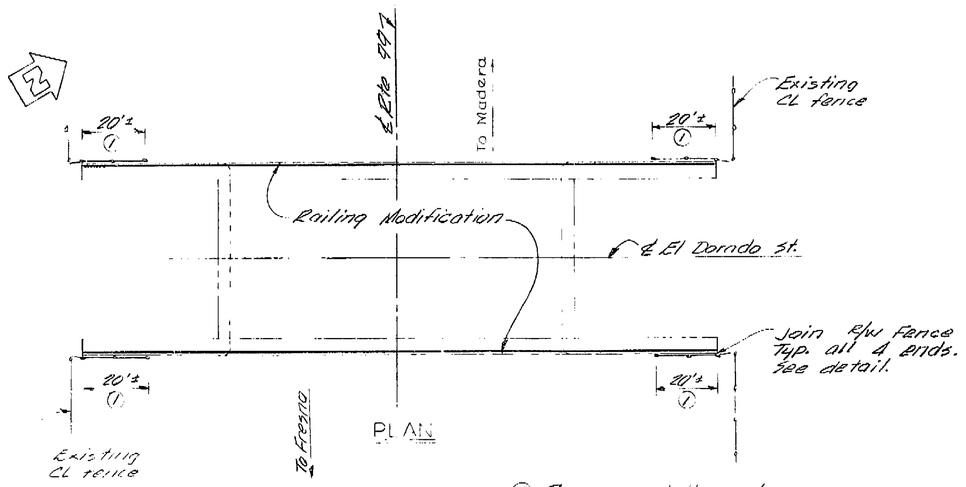


ELEVATION
No Scale

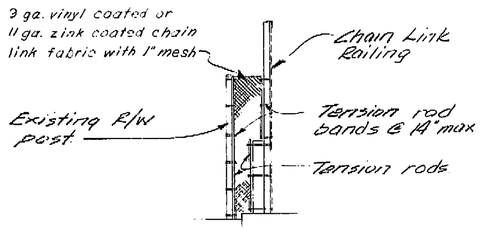


TYPICAL SECTION
No Scale

NOTE:
THE CONTRACTOR SHALL VERIFY ALL DEPENDENT DIMENSIONS IN THE FIELD BEFORE ORDERING OR FABRICATING ANY MATERIAL.



① Remove existing chain link fencing



R/W FENCE CONNECTION DETAILS
No Scale

AS BUILT PLANS
Contract No. 06-144204
Date Completed 3-10-75
Document No. 6005524

No AS BUILT Exempt per 4-1-74 CONTRACT DATE 3-10-75

APPROXIMATE QUANTITIES

REMOVE CHAIN LINK FENCE	80 LF
MODIFY BRIDGE RAILING (LOCATION C)	400 LF

RAILING MODIFICATION

Submitted By: George A. Amaro — 14216 — DESIGN SECTION SUPERVISOR — REGISTERED CIVIL ENGINEER NUMBER	DESIGN	By: J. Renuta 1/74	Checked: M. Camacho 6-74	LIVE LOADING: HS 20-44 AND ALTERNATIVE			BRIDGE DEPARTMENT DESIGN SECTION 2	BRIDGE NO. 42-184	EL DORADO STREET OVERCROSSING
Approval Recommended By: George A. Amaro — 14216 — DESIGN ENGINEER — REGISTERED CIVIL ENGINEER NUMBER	DETAILS	By: J. Schroeder 1/74	Checked: M. Camacho 6-74	LAYOUT: By J. Schroeder 1/74	Checked: M. Camacho 6-74	State of CALIFORNIA DEPARTMENT OF TRANSPORTATION	PROJECT ENGINEER Leo Fresnette	POST MILE 21.46	GENERAL PLAN
	QUANTITIES	By: J. Renuta 6/74	Checked: M. Camacho 6-74	SPECIFICATIONS: By J. V. Montenegro	Plans and Specs Compared: Jon Moulton		CU 06351 WO 144201	Disregard prints bearing earlier revision dates →	REVISION DATES (PRELIMINARY STAGE ONLY) — SHEET 1 OF 2

HSD D 135 — ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.
DATE 11/20/75 — SIGNATURE — TITLE Assistant Secretary

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INDEX OF SHEETS

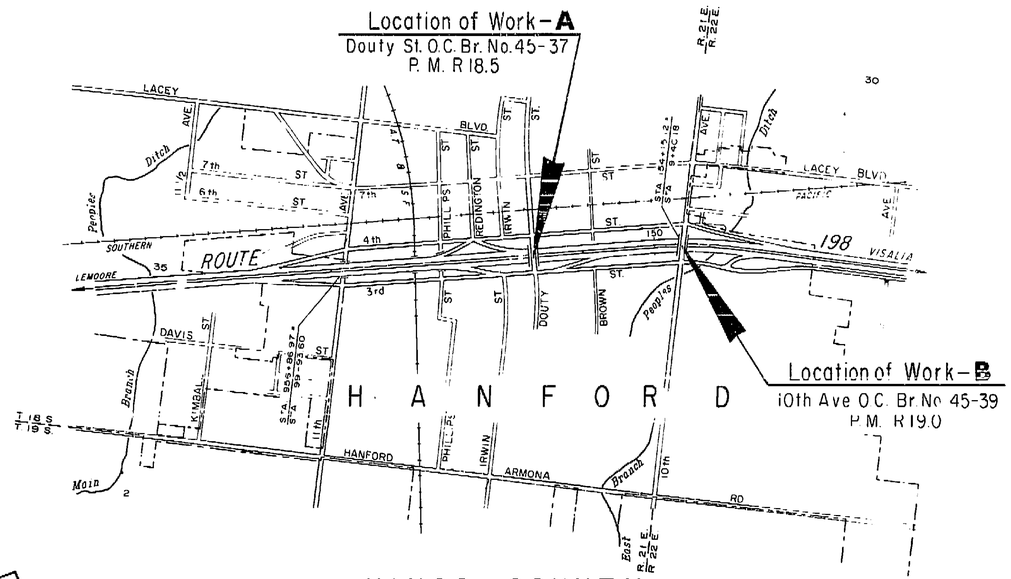
Sheet No		
1		Title Sheet
2-9		Railing Modification

Dist	County	Route	Post Miles	Sheet No.	Total Sheets
06	Kin. Fre	198 99	R18.5, R19.0 21.5, 28.1	1	9

R H Ramm
DISTRICT DIR. OF TRANSPORTATION
REGISTERED CIVIL ENGINEER NO. 10644

DATE APPROVED November 12, 1974

Location of Work-A
Douty St. O.C. Br. No. 45-37
P. M. R18.5

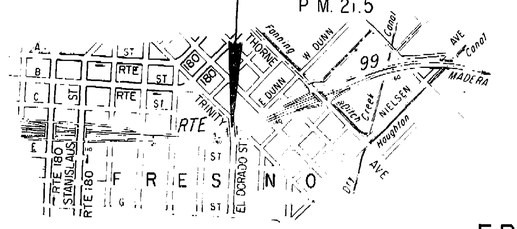




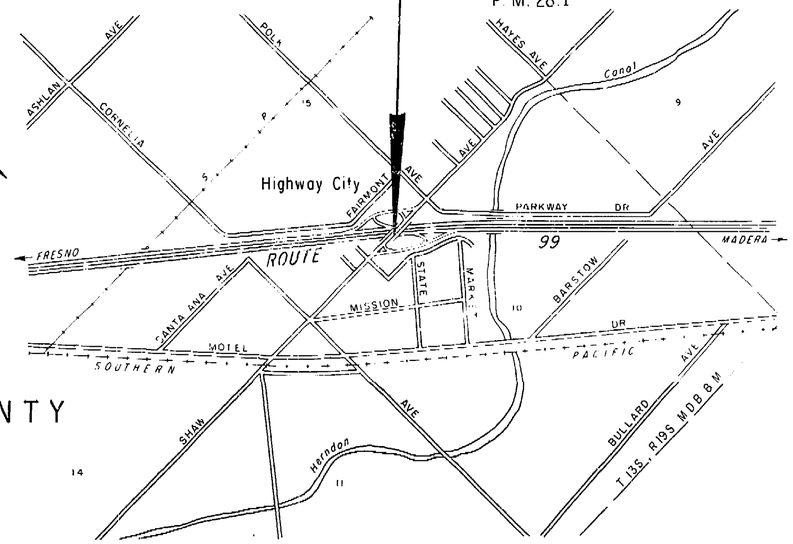
LOCATION MAP

AS BUILT PLANS
Contract No. 06-144204
Date Completed 3-10-75
Document No. 6000 6524

Location of Work-C
El Dorado St O.C. Br. No. 42-184
P.M. 21.5



Location of Work-D
Shaw Ave O.C. Br. No. 42-130
P.M. 28.1



STATE OF CALIFORNIA
BUSINESS AND TRANSPORTATION AGENCY
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN KINGS AND FRESNO COUNTIES
ON ROUTE 198 IN HANFORD AT DOUTY STREET OVERCROSSING AND AT 10TH AVENUE OVERCROSSING AND ON ROUTE 99 IN AND NEAR FRESNO AT EL DORADO STREET OVERCROSSING AND AT SHAW AVENUE OVERCROSSING

to be supplemented by Standard Plans dated January, 1973

Contract No. 06-144204

06 351 144201

Project Engineer	Design Engr	Dev.	Engr	Approved & Recommended By	Date
J. B. Wigton 8/74	C. Hall 8/74		8/74 J. Palmer		8/74

1

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE _____ TITLE _____

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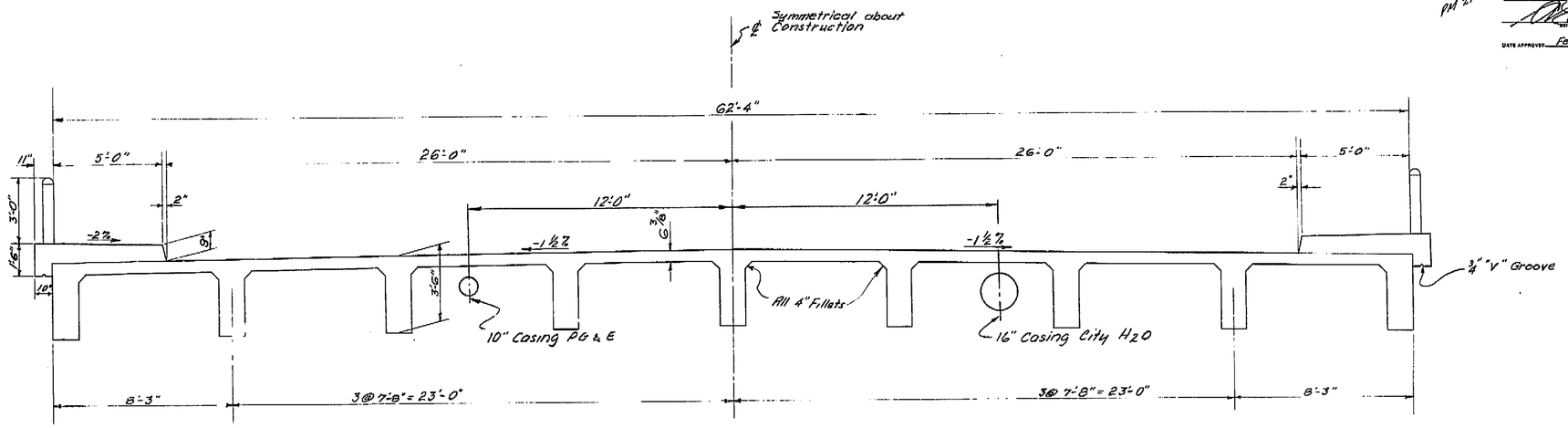
FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.	0-8194 (8)		78	162

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	99			

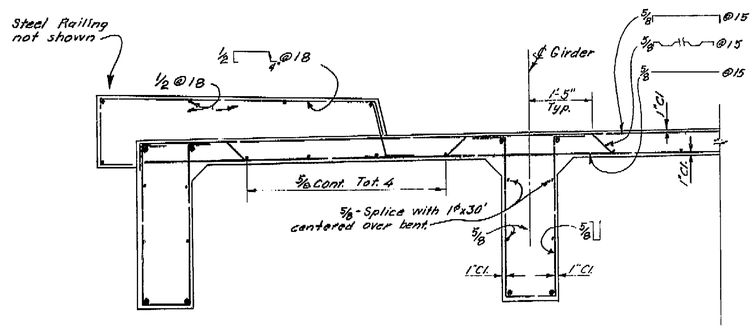
pm 21.5

CIVIL ENGINEER — BRIDGE ENGINEER

DATE APPROVED February 28, 1956

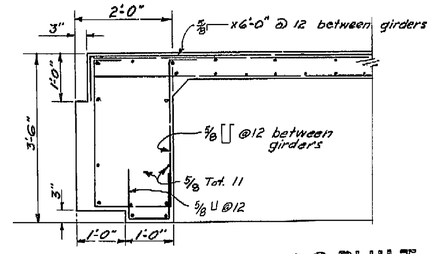


TYPICAL SECTION
3/8" = 1'-0"



PART SECTION
¾" = 1'-0"

Note: All reinf. not shown. See "Girder Layout & Reinf. sheet.



END DIAPHRAGM
¾" = 1'-0"

AS BUILT
CORRECTIONS BY ROBERTSHAW
CONTRACT NO. 56-6TC1
DATE 1-9-57 SY 1-79

BRIDGE DEPARTMENT

7 SECTION

Submitted by	Jr. Engr.	Date	Checked	Date	Checked
STRUCTURE DETAILS	Jr. Engr.	7-56	Checked	7-56	Checked
QUANTITIES	Jr. Engr.	7-56	Checked	7-56	Checked
SPECIFICATIONS	Jr. Engr.	7-56	Checked	7-56	Checked

Approved Recommended [illegible] Bridge Engineer

Dig out drawings 56-6TC1 - 3452

AS BUILT PLANS
Contract No. 56-6TC1
Date Completed
Document No. 60000990

DESIGN SECTION 7
PROJECT DESIGNER

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

EL DORADO ST. O.C.

TYPICAL SECTION

SCALE	BRIDGE	FILE	DRAWING
Noted	42-184		C-3452-5.

PREL. DRAWING No. P-3452 [illegible]

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 1-30-80 SIGNATURE Joseph M Costa TITLE SUPERVISOR OF MICROFILM SERVICES

DAS-53-70

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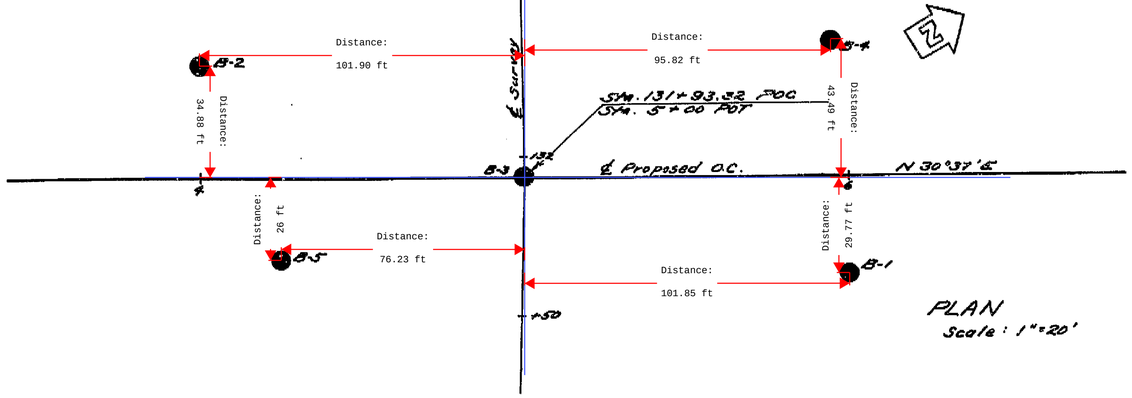
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	41	Fre 9	9	71

99 — Bridge Drawings — CIVIL ENGINEER-LICENSE 35145

APPROVED February 28, 1955

FED. ROAD DIST. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2	CAL.	U-019-5 (2)		80	162

VI - Fre - 9 - Fre



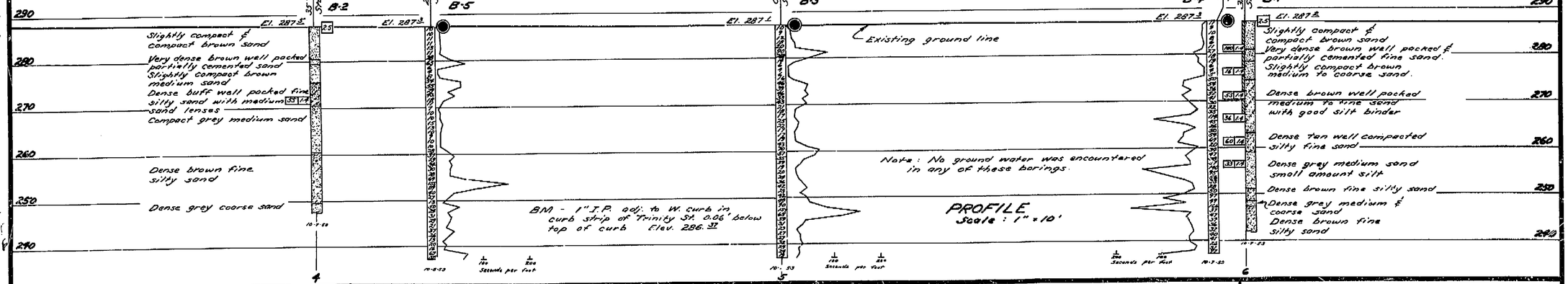
PLAN
Scale: 1"=20'

BRIDGE DEPARTMENT

FIELD STUDY	W.C. Mont. 10-53
DRAWN	T.A. Moore 10-53
CHECKED	W.C. Mont. 10-53

Approved Standards Engineer

AS BUILT
NO CONNECTIONS BY Hewlett
DATE 1-8-57



PROFILE
Scale: 1"=10'

CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS

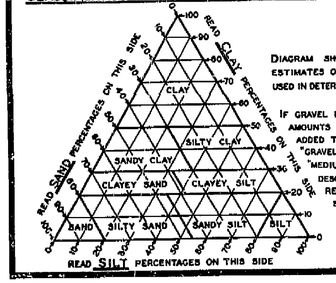


DIAGRAM SHOWING THE BASIS FOR ESTIMATES OF GRADE SIZE DISTRIBUTION USED IN DETERMINATION OF CLASS NAMES

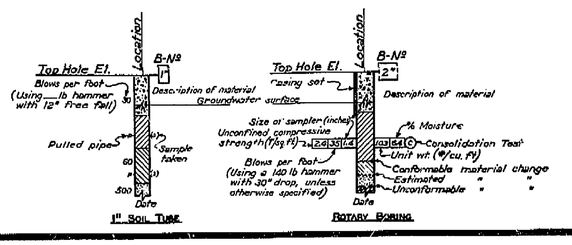
IF GRAVEL IS PRESENT IN APPRECIABLE AMOUNTS THE TERM "GRAVELLY" MAY BE ADDED TO THE CLASS NAME, VIS. "GRAVELLY SAND." THE TERMS "COARSE," "MEDIUM" AND "FINE" WHEN USED TO DESCRIBE GRAVEL, SAND AND SILT REFER TO STANDARD GRADE SIZE LIMITS.

LEGEND OF EARTH MATERIALS

- GRAVEL
- SAND
- SILT
- CLAY
- SANDY CLAY OR CLAYEY SAND
- SANDY SILT OR SILTY SAND
- SILTY CLAY OR CLAYEY SILT
- PEAT AND/OR ORGANIC CLAY
- FILLED MATERIAL
- IGNEOUS ROCK
- SEDIMENTARY ROCK
- METAMORPHIC ROCK

LEGEND OF BORING OPERATIONS

- PLAN OF ANY BORING
- PENETROMETER
- 2½" CONE PENETROMETER
- SAMPLER BORING (DRY)
- ROTARY BORING (W&T)
- AUGER BORING (DRY)
- JET BORING
- CORE BORING
- TEST PIT



NOTES

THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 2, ARTICLE (c) OF THE STANDARD SPECIFICATIONS AND TO THE SPECIAL PROVISIONS ACCOMPANYING THIS SET OF PLANS. CLASSIFICATION OF EARTH MATERIAL AS SHOWN ON THIS SHEET IS BASED UPON FIELD INSPECTION AND IS NOT TO BE CONSTRUED TO IMPLY MECHANICAL ANALYSIS.

PENETROMETER BORINGS HAVING A RATE OF PENETRATION MEASURED IN SECONDS PER FOOT ARE DRIVEN WITH A № 2 MCHENRAN-TERRY AIR HAMMER AT 115 PSI.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

EL DORADO STREET OVERCROSSING

LOG OF TEST BORINGS

SCALE: HORIZ. As Noted VERT. | BRIDGE 42-184 | FILE | DRAWING C-3452-7

PREL. DRAWING NO. P-3452.13

198

3452-4

AS BUILT PLANS
Contract No. 56-6TC1
Date Completed
Document No. 60000990

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 1-30-01 SIGNATURE Joseph M Costa TITLE SUPERVISOR OF MICROFILM SERVICES

DES-55-70

ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.	U-0173 (2)		79	162

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre			2	7

BRIDGE ENGINEER — CIVIL ENGINEER — LICENSE 9665

DATE APPROVED: February 20, 1955

BRIDGE DEPARTMENT

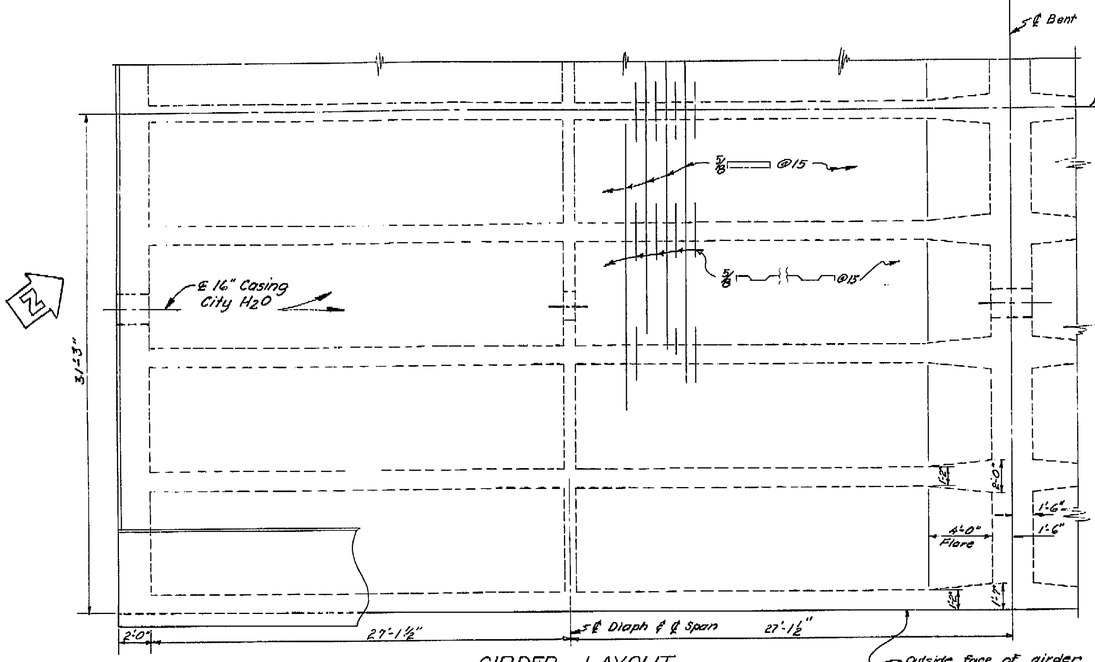
DESIGN 7 SECTION

	By	Date	Checked
DESIGN	[illegible]	1-64	WFM
DETAILS	[illegible]	1-64	WFM
QUANTITIES	[illegible]	2-64	WFM
SPECIFICATIONS	[illegible]	2-64	WFM

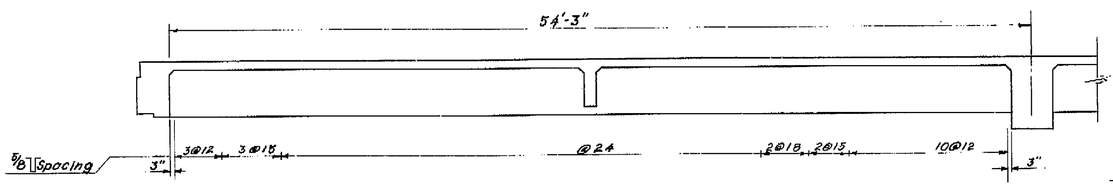
Approved Recommended by [illegible] Bridge Engineer

Plot settlement 336.3 ft. Elevation 336.3 ft. Datum

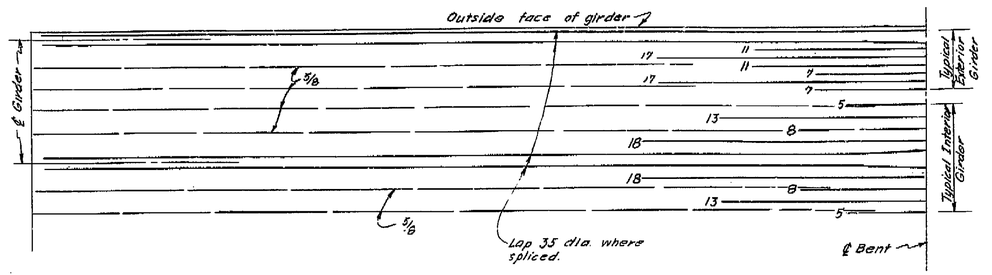
Note: Layout is symmetrical about ℄ Bent & about ℄ Construction.



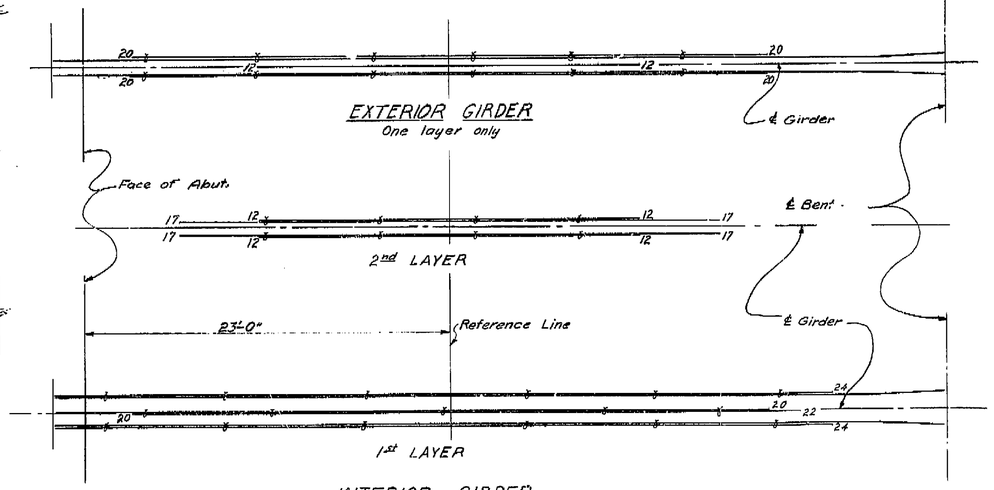
GIRDER LAYOUT



LONGITUDINAL SECTION



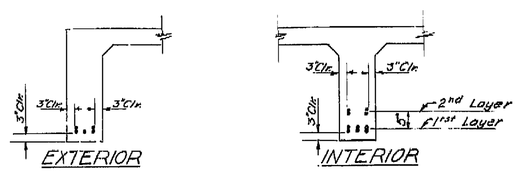
TOP REINF



INTERIOR GIRDER

BOTTOM REINF

For exact location see "Sections"



SECTIONS

AS BUILT
CORRECTIONS BY Hoeschner
CONTRACT NO. 56 6TC1
DATE 1-9-57 SX 7-79

DESIGN SECTION 7
PROJECT DESIGNER

Note: All bars are 1½" unless detailed otherwise. Numbers at ends of bars indicate length from ℄ Bent or from Reference Line. ⫩ Indicates bundle bars

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

EL DORADO ST OC

GIRDER LAYOUT & REINFORCEMENT

SCALE	BRIDGE	FILE	DRAWING
½"=1'-0"	42-184		C-3452-6

PREL. DRAWING NO. P-3452 X X X 22

AS BUILT PLANS
Contract No. 56-6TC1
Date Completed
Document No. 60000990

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 1-30-80 SIGNATURE Joseph M. Cota TITLE SUPERVISOR OF MICROFILM SERVICES

016-58-70

ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.	U-019409		74	152

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	99			7

Rte 99
PM 21.5

DESIGN BRANCH CIVIL AND STRUCTURAL ENGINEER — LICENSE 5414

DATE APPROVED February 28, 1958

STATE HIGHWAY ENGINEER
CIVIL ENGINEER — LICENSE 5084

BRIDGE DEPARTMENT

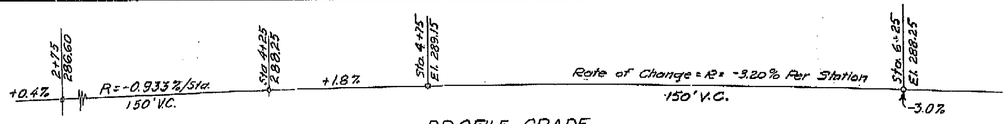
DESIGN SECTION 7

	Submitted by	Checked	Date
DESIGN	E.F.F.	J.C.L.	1-57
DETAILS	T.M.H.	J.C.L.	1-57
QUANTITIES	E.F.F.	J.C.L.	1-57
SPECIFICATIONS	P.S.D.	J.C.L.	1-57

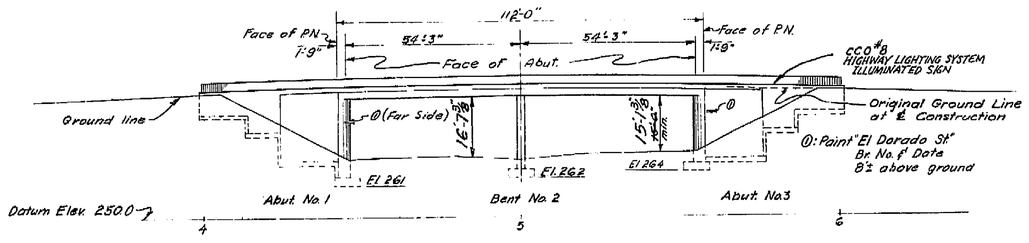
Approved [illegible] Bridge Engineer

Checked by W.E.M. 7-57
Checked E.F.F. 8-5-57
Checked P.S.D. 11-57
Checked [illegible]

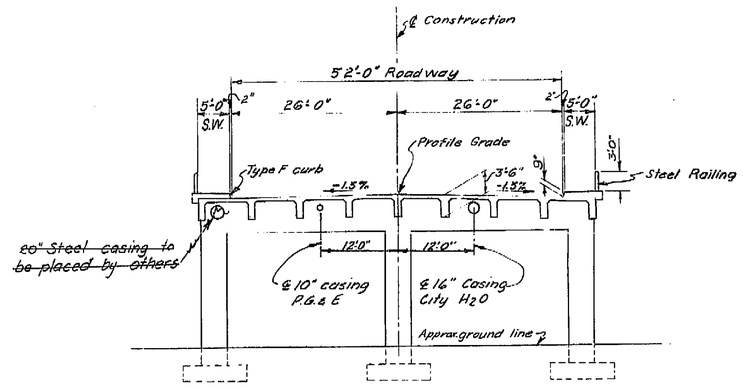
Submitted for approval 1-30-58



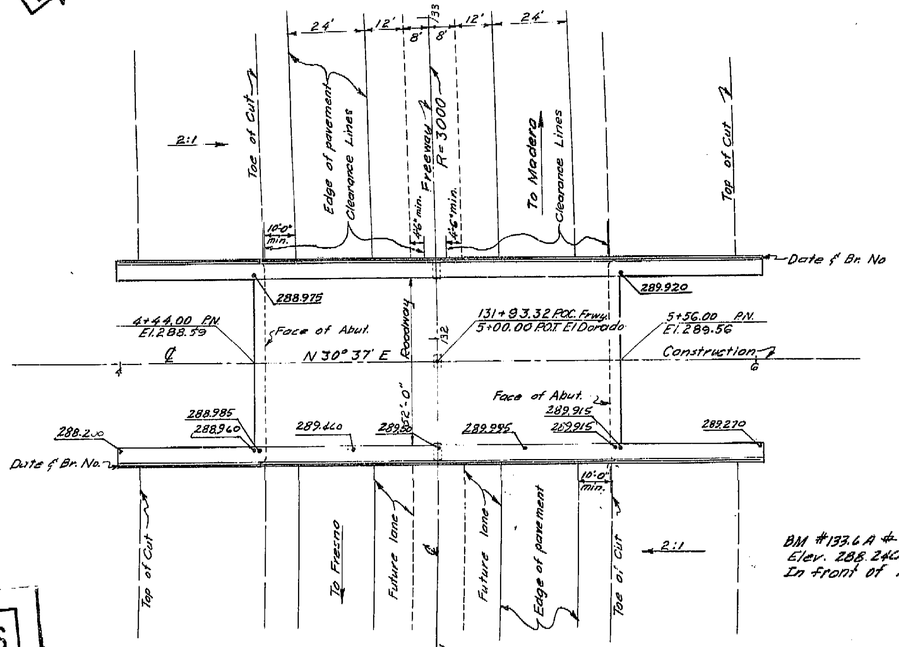
PROFILE GRADE



ELEVATION
Scale: 1"=20'



TYPICAL SECTION
Scale: 1"=10'



PLAN
Scale: 1"=20'

APPROXIMATE QUANTITIES

ROADWAY EXCAVATION	790 C.Y.
STRUCTURE EXCAVATION	940 C.Y.
STRUCTURE BACKFILL	640 C.Y.
CLASS A CONCRETE (BRIDGES)(940 C.Y.)	LUMP SUM
RUBBER WATERSTOPS	124 L.F.
BAR REINFORCING STEEL (BRIDGES)(156,000 LBS.)	LUMP SUM
MEMBRANE WATERPROOFING	40 S.Y.
STEEL RAILING	401 L.F.

INDEX TO PLANS

Sheet No.	Title
1	General Plan
2	Foundation Plan
3	Abutments
4	Bent
5	Typical Section
6	Girder Layout & Reinforcement
7	Log of Test Borings

Refer to Tehama St. O.C. for:
Standard Details
Miscellaneous Details
Steel Railing
Type 1 Cantilever Retaining Wall
Lighting Reinforcement

56 6TC1

For General Notes see Tehama St. OC.

AS BUILT
CORRECTIONS BY. Hoerchner
CONTRACT NO. 56 6TC1
DATE 1-9-67 5Y 7.79

BM #133.6 A ± on curb 260' Rt. of ℄ Sta. 133+60
Elev. 288.240, ± is marked 133.6 T
In front of 2026 "D" Street.

DESIGN SECTION 7
E.F. Fuhrmann
PROJECT DESIGNER

Live Loading: M20-S16-44

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

EL DORADO STREET OVERCROSSING

LOCATED NEAR THE EXISTING INTERSECTION OF EL DORADO & TRINITY STEETS IN THE CITY OF FRESNO

GENERAL PLAN

SCALE Noted	BRIDGE 42-184	FILE

PREL. DRAWING NO. P-3452 X X X

AS BUILT PLANS
Contract No. 56-6TC1
Date Completed
Document No. 60000990

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 1-30-01 SIGNATURE Joseph M. Cota TITLE SUPERVISOR OF MICROFILM SERVICES

ClibPDF - www.fastio.com

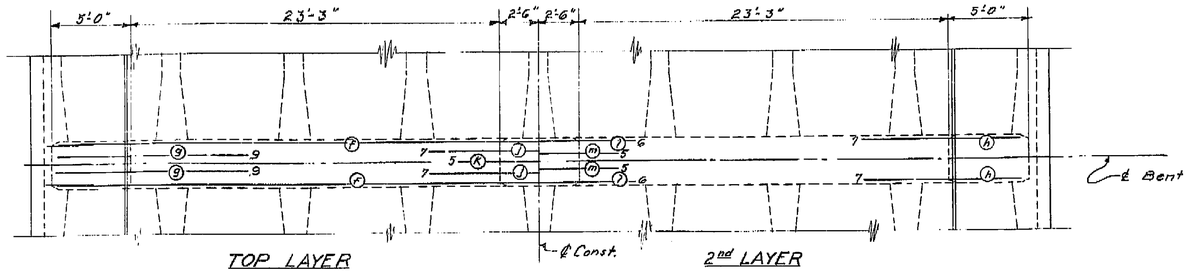
FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.	U-2194 (2)		77	162

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	[illegible]	[illegible]	[illegible]	7

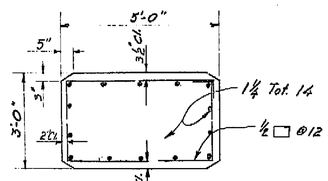
99

DATE APPROVED February 20, 1955

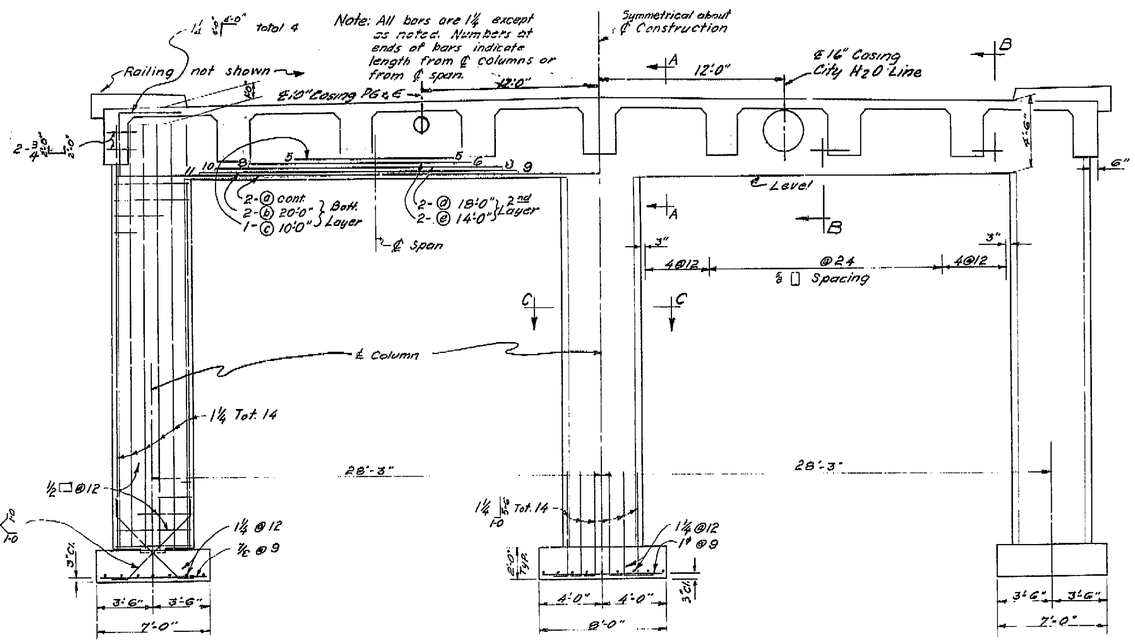
PM 21.5



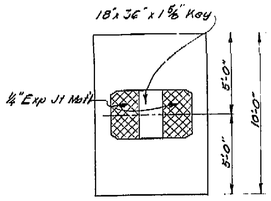
TOP REINF. PLAN



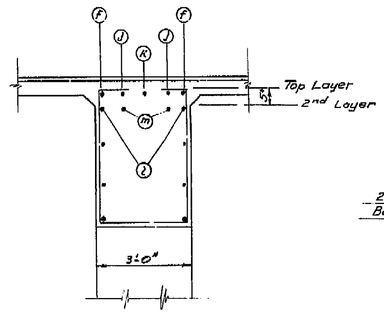
SECTION C-C
½"=1'-0"



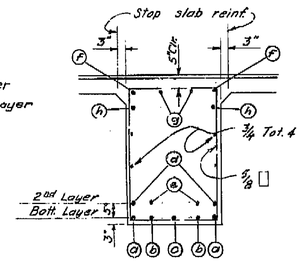
ELEVATION



FOOTINGS



SECTION A-A
½"=1'-0"



SECTION B-B
½"=1'-0"

AS BUILT
CORRECTIONS BY HOERRNER
CONTRACT NO. 56-6TC1
DATE 1-19-57 SY 779

DESIGN SECTION 7
PROJECT DESIGNER

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

EL DORADO ST. OC

BENT

SCALE ½"=1'-0" Noted | BRIDGE 42-184 | FILE | DRAWING C-3452-4

PREL. DRAWING No. P- 3452 X X 16 20

DIVISION 7 SECTION

	Submitted by	Date	Checked	Date
DESIGN	[illegible]	8-26-54	WRM	7-26
QUANTITIES	[illegible]	9-24-54	WRM	11-15
SPECIFICATIONS	[illegible]	1-24-55	EFB	2-8-55

Approved Recommended by [illegible] Chief Engineer Date Approved 2/20/55

AS BUILT PLANS
Contract No. 56-6TC1
Date Completed
Document No. 60000990

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 1-30-60 SIGNATURE Joseph M Costa TITLE SUPERVISOR OF HIGHWAY SERVICES

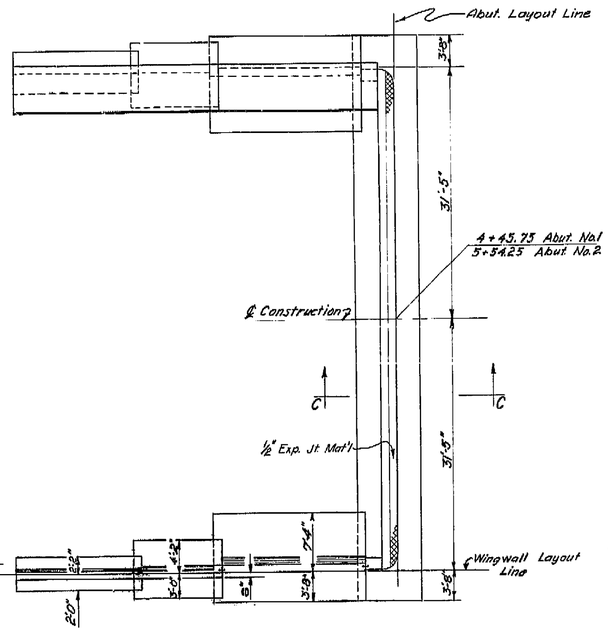
ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.	11-019-K (2)		76	162

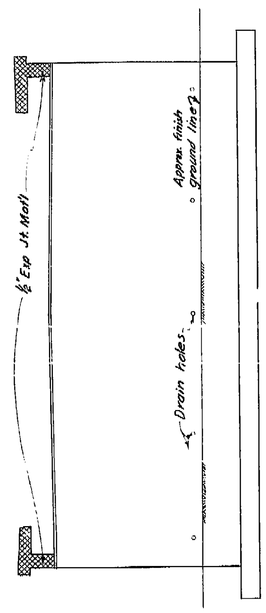
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre				

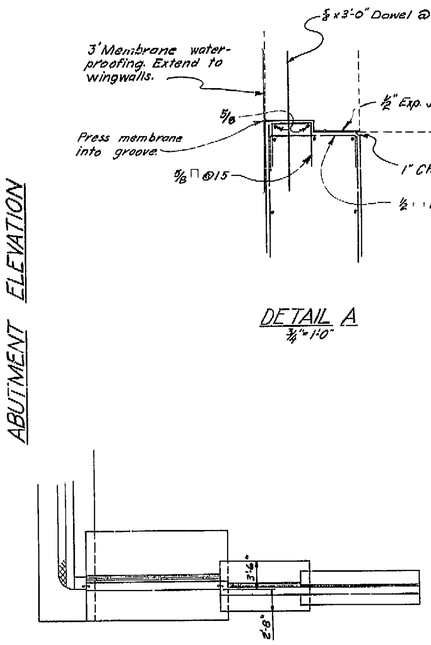
DATE APPROVED February 28, 1955

pm 21.5



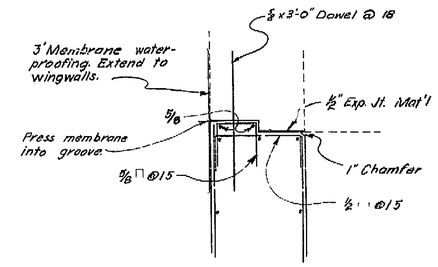
ABUT. NO. 1
PLAN



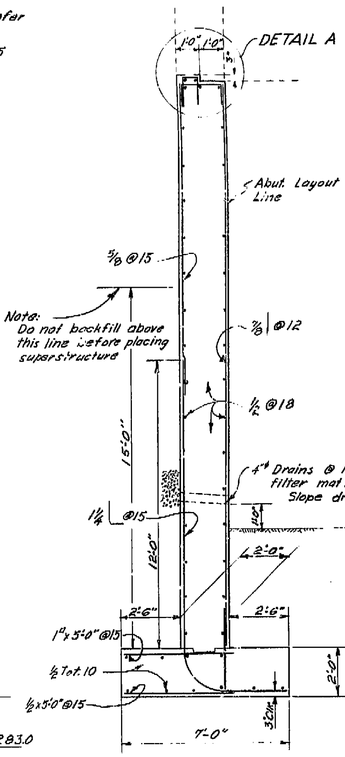


ABUT. NO. 3
PLAN

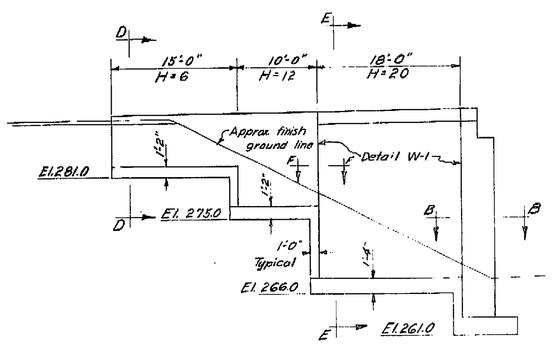
Note: All Abut. No. 1 & No. 3 layout & dimensions are the same except as noted. Each abut. is symmetrical about ℄ Construction. Curbs, sidewalk, and rail should not be placed on wingwalls until backfill is completed.



DETAIL A
3"=1'-0"

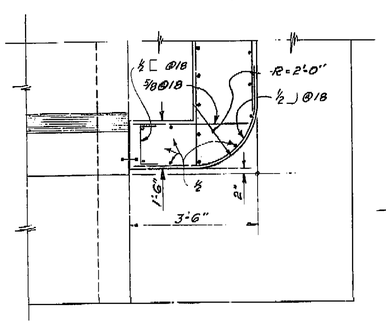


SECTION C-C
⅜"=1'-0"

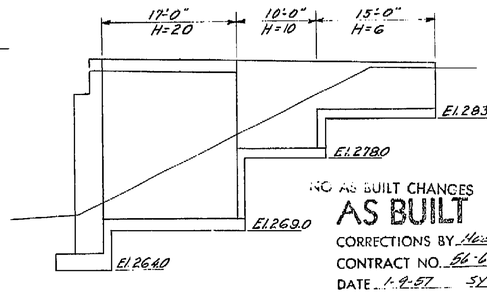


WINGWALL ELEVATION

Note: For Sections D-D, E-E & F-F see "Belmont Ave. OC, Abut. Details" sheet



SECTION B-B
½"=1'-0"



WINGWALL ELEVATION

NO. AS BUILT CHANGES
AS BUILT
CORRECTIONS BY Heurenner
CONTRACT NO. 56-6TC1
DATE 1-8-57 SY 7-79

DESIGN SECTION 7
P. T. Tripsack
PROJECT DESIGNER

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

EL DORADO ST. OC

ABUTMENTS

SCALE ½"=1'-0" & Noted | BRIDGE 42-184 | FILE | DRAWING C-3452-3

PREL. DRAWING NO. P- 3452 K 10 8 19

BRIDGE DEPARTMENT

SECTION 7

Submitted by	DESIGN	W.P.M.	7-56	W.P.M.	7-56
	DETAILS	R.W.P.	8-56	W.P.M.	7-56
	QUANTITIES	R.W.P.	8-56	C.H.D.	8-56
	SPECIFICATIONS	R.W.P.	8-56	C.H.D.	8-56
Approved Recommended				Bridge Engineer	

AS BUILT PLANS
Contract No. 56-6TC1
Date Completed
Document No. 60000990

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 1-30-80 SIGNATURE Joseph M Cota TITLE SUPERVISOR OF MICROFILM SERVICES

ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.	U-0194(2)		75	162

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	~~4~~ Fre		2	7

PM 21.5

CIVIL ENGINEER — CIVIL ENGINEER—LICENSE 9385

DATE APPROVED February 28, 1955

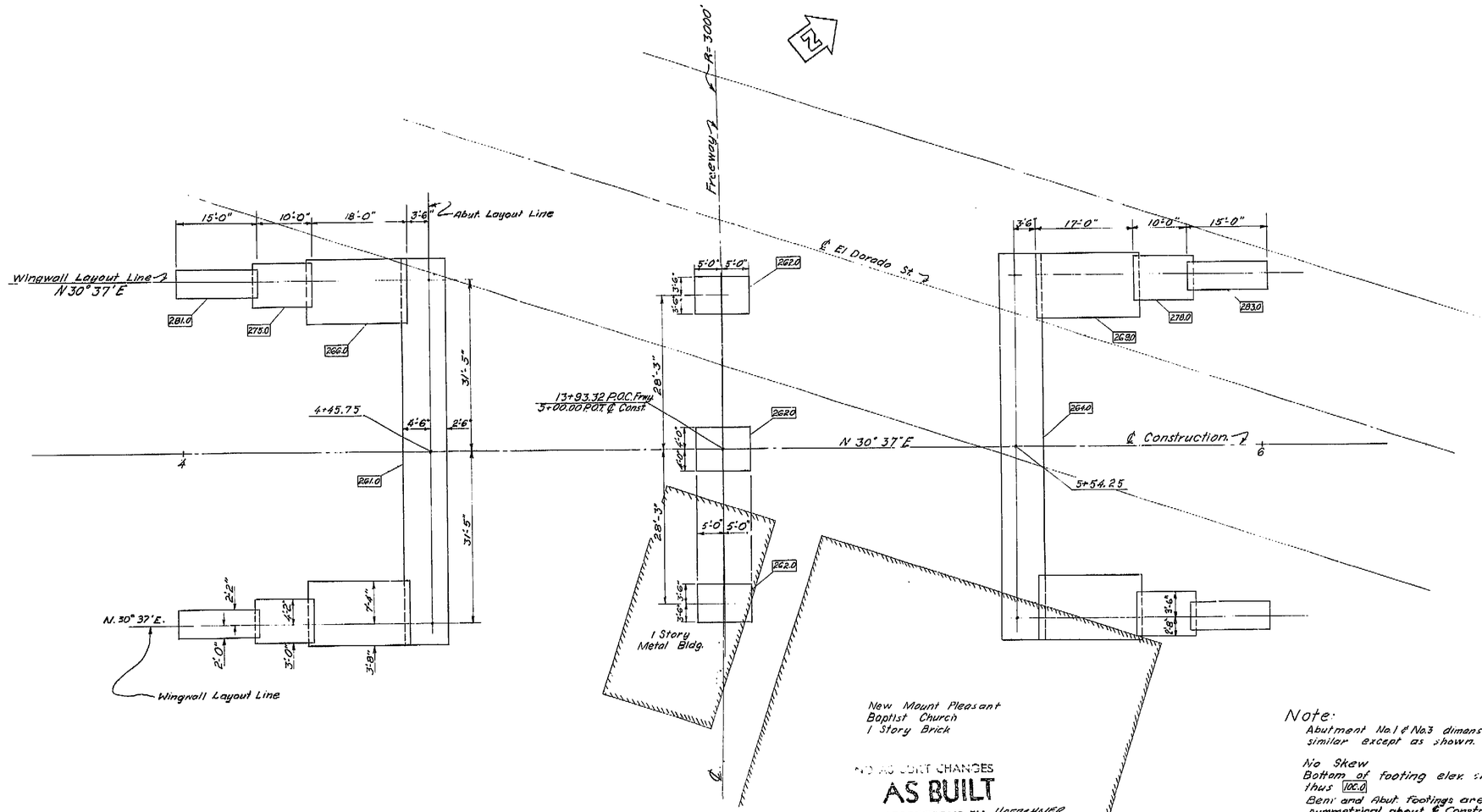
BRIDGE DEPARTMENT

DESIGN 7 SECTION

	Initial	Date
DESIGN	W.R.H.	2-58
DETAILS	W.R.H.	2-58
QUANTITIES	E.A.B.	2-58
SPECIFICATIONS	Check see sheet	

Submitted by [signature] Date

Approved Recommended [signature] Engineer — PUC 640 Section 1 — PUC 640 Section 2 — PUC 640 Section 3



℄ Freeway
Δ = 25° 52' 45"
R = 3000'
T = 689.27
L = 1355.03

New Mount Pleasant
Baptist Church
1 Story Brick

NO AS BUILT CHANGES

AS BUILT
CORRECTIONS BY HOERCHNER
CONTRACT NO. 56 6161
DATE 1-9-57 SY 7-79

BM No. 1354
RR Spike in RR
245' Rt. Sta. 134+70
W. Con. Int. of 'D' St and Trinity St.
El. 289.15

Note:
Abutment No.1 & No.3 dimensions similar except as shown.

No Skew
Bottom of footing elev. shown thus 100.0
Bent and Abut. footings are each symmetrical about ℄ Construction.

DESIGN SECTION 7
PROJECT DESIGNER

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

EL DORADO ST. OC

FOUNDATION PLAN

SCALE	BRIDGE	FILE	DRAWING
1"=10'-0"	42-184		C-3452-2

PREL. DRAWING No. P- 3452 | 8 | 9

AS BUILT PLANS
Contract No. 56-161
Date Completed
Document No. 60000990

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

ClibPDF - www.fastio.com

California Department of Transportation
Division of Maintenance

Structure Maintenance and Investigations

BRIDGE

INSPECTION

RECORDS

INFORMATION

SYSTEM

The requested documents have been generated by BIRIS.

These documents are the property of the California Department of Transportation and should be handled in accordance with Deputy Directive 55 and the State Administrative Manual.

Records for “Confidential” bridges may only be released outside the Department of Transportation upon execution of a confidentiality agreement.

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	19.0/39.3	10S	11

8-07-07
REGISTERED CIVIL ENGINEER

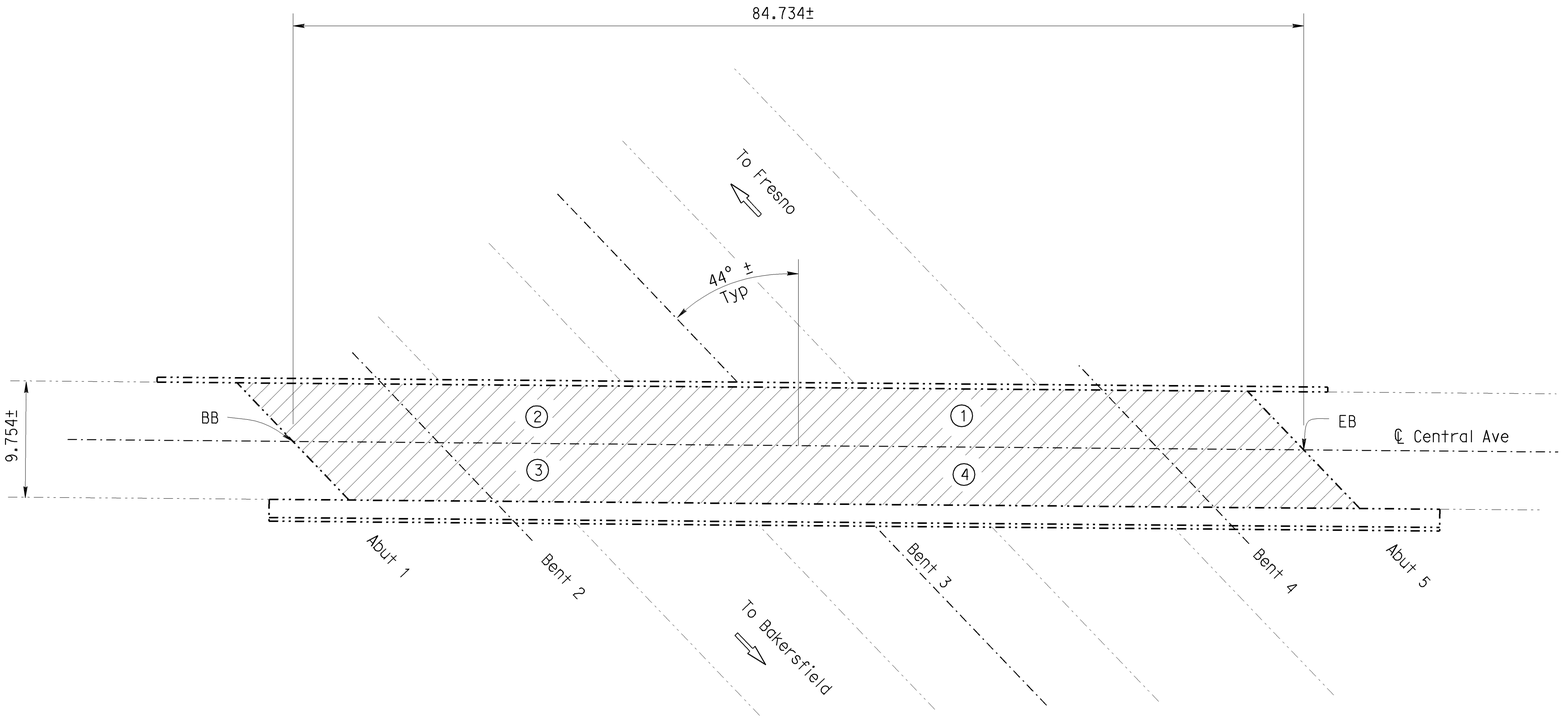
REGISTERED PROFESSIONAL ENGINEER
MATTHEW W. LEE
No. C 56698
Exp. 6-30-07
CIVIL
STATE OF CALIFORNIA

PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

The Caltrans web site is at www.dot.ca.gov

AS BUILT CORRECTIONS
CORRECTIONS TRANSFERED BY: BEM
FIELD CORRECTIONS BY: Victor Diaz
TRANSFER DATE: 12-21-2007
FIELD CORRECTION DATE: 11-15-2007
CONTRACT NO: 06-0C4104



CENTRAL AVENUE OVERCROSSING

BRIDGE NO. 42-0207, RTE. 99, KP 25.52
1:250

NOTES: (APPLY TO THIS SHEET ONLY)

Indicates limits of clean and treat existing bridge deck as designated in the "DECK TREATMENT TABLE".

Contractor shall take 3 ea 76 mm ø x 127 mm deep cores in each quardrant at locations designated by the Engineer. Fill cored holes with rapid-set concrete patch.

DECK TREATMENT TABLE

LOCATION	MANUFACTURER	MATERIAL NAME
①	UNITEX	BRIDGE SEAL CA
②	LIQUID CONCRETE	URE-KOTE R-60
③	ChemCo Systems	CCS Coating, Epoxy Healer Sealer
④	Any Manufacturer that meets the Caltrans Deck Treatment specification	Caltrans specification High Molecular Weight Methacrylate

CONTRACT CHANGE ORDER NO. 4
SHEET 1 OF 1

SUPPLEMENTAL SHEET

Caltrans Metric

Michael J. Lee
DESIGN ENGINEER
STRUCTURE MAINTENANCE DESIGN GENERAL PLAN & DETAIL SHEET (METRIC) (REV. 10/2/05)

DESIGN	BY Matt Lee	CHECKED Tim Powell
DETAILS	BY D. kish	CHECKED Tim Powell
QUANTITIES	BY Matt Lee	CHECKED Tim Powell
LAYOUT	BY D. kish	CHECKED Matt Lee
SPECIFICATIONS	BY Karla Meier	PLANS AND SPECS COMPARED Karla Meier

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

CU 06244
EA 0C4101

BRIDGE NO. Varies
KILOMETER POST Various

ROUTE 99 BRIDGES (TREAT DECK)
GENERAL PLAN NO. 2

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 8-07-07

SHEET 2 OF 3

FILE => 06-0c4101_02gp2.dgn

USERNAME => bmiller DATE PLOTTED => 21-DEC-2007 TIME PLOTTED => 09:59

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	19.0/39.3	11R1	11

REGISTERED CIVIL ENGINEER — 11/20/06

2-26-07
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MATTHEW W. LEE — No. C 56698 — Exp. 6-30-07 — CIVIL — STATE OF CALIFORNIA

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To get to the Caltrans web site, go to: http://www.dot.ca.gov

CONTRACT NO: 06-0C4104
TRANSFER DATE: 12-21-2007
FIELD CORRECTION DATE: 11-13-2007
CORRECTIONS TRANSFERED BY: BEM
FIELD CORRECTIONS BY: Victor Diaz

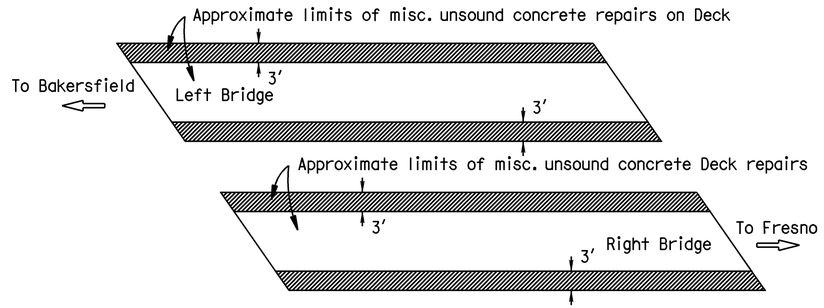
AS BUILT CORRECTIONS

DECK RESURFACING WORK DESCRIPTION

QUANTITIES

ROUTE	KP	BRIDGE NAME	BRIDGE NUMBER	LENGTH	ROADWAY WIDTH	SHOULDER WIDTH		WORK REQUIRED			CLEAN BRIDGE DECK	TREAT BRIDGE DECK	FURNISH BRIDGE DECK TREATMENT MATERIAL (LOW ODOR)	REMOVE EPOXY GRIT SURFACING
						LEFT	RIGHT	REPLACE JOINT SEALS	REMOVE OVERLAY	CLEAN AND TREAT BRIDGE DECK WITH METHACRYLATE				
				(m)	(m)	(m)	(m)				(m^2)	(m^2)	(L)	(m^2)
99	19.05	Adams Ave OC	42 0203	99.092	9.754	1.219	1.219	YES	NO	~~YES~~ YES	936 ~~966~~	936 ~~966~~	414 ~~435~~	N/A
99	25.52	Central Ave OC	42 0207	84.734	9.756	1.219	1.219	NO	NO	YES	826	826	376	N/A
99	26.63	South Calwa OH	42 0208L	78.029	14.935	2.438	1.524	YES	YES	YES	1165	1165	~~530~~ 531	1165
99	26.63	South Calwa OH	42 0208R	66.446	14.935	2.438	1.524	YES	YES	YES	992	992	~~451~~ 450	992
99	35.61	Clinton Ave OC	42 0183	See General Plan				YES	NO	YES		See General Plan		
99	39.30	Nielsen Ave UC	42 0188	See General Plan				YES	YES	YES		See General Plan		

1 → As per CCO # 3

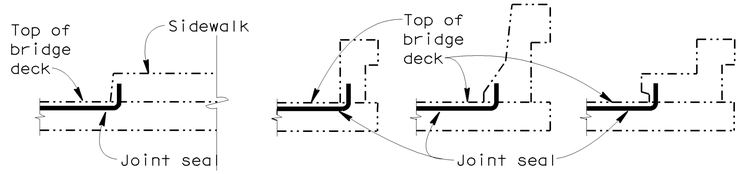


SOUTH CALWA OH

BR 42-0208L/R
NO SCALE

JOINT SEAL TABLE

BRIDGE NUMBER	LOCATION		MINIMUM "MR" (mm)	APPROXIMATE LENGTH (m)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (mm)
42 0203	Abut 1	BW	40	13.1	NO	229
	Abut 5	BW	40	13.1	NO	229
42 0208L	Abut 1	PN	30	21.7	NO	305
	Abut 5	PN	30	21.7	NO	305
42 0208R	Abut 1	PN	30	21.7	NO	305
	Abut 4	PN	30	21.7	NO	305
42 0183	Abut 1	BW	40	25.7	NO	229
	Span 3	H	40	8.8	NO	229
	Abut 3	BW	40	27.5	NO	229
42 0188	Abut 1	BW	15	~~17.9~~ 0	NO	356
	Bent 2	BW	30	56.8	NO	~~1219~~ 305
	Bent 3	B	30	~~56.8~~ 19.4	YES	203
	Bent 4	BW	30	56.8	NO	~~1219~~ 305
	Abut 5	BW	15	~~18.6~~ 0	NO	~~396~~ 305

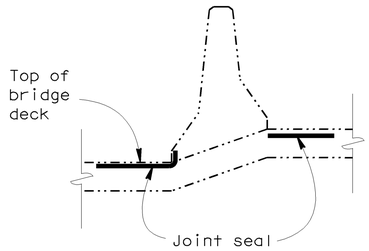


SIDEWALK — BARRIER RAIL

JOINT SEAL AT LOW SIDE OF DECK

Notes: Details shown for illustration purposes only.

For use only where deck joint matches the sidewalk, curb or barrier rail joint.



At Bridge No. 42-0188

LEGEND:
BW = Abutment backwall
PN = Paving notch
H = Hinge
B = Bent

REGISTERED PROFESSIONAL ENGINEER — MICHAEL J LEE — No. C42447 — Exp. 3-31-08 — CIVIL — STATE OF CALIFORNIA

MARK	DATE	REVISION(S) DESCRIPTIONS	DES	CHK	DET
1	8-23-07	CHANGE QUANTITIES ADAM AVE TABLE	MJL	TP	DK

REGISTERED CIVIL ENGINEER: Michael J Lee — DATE: 9-07-07

Caltrans Metric

	BY	CHECKED
DESIGN	Matt Lee	Tim Powell
DETAILS	Seth Evans	Tim Powell
QUANTITIES	Matt Lee	Tim Powell

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

CU 06244
EA 0C4101

BRIDGE NO. Varies
KILOMETER POST Various

ROUTE 99 BRIDGES (TREAT DECK)

JOINT SEAL TABLE

STRUCTURE MAINTENANCE DESIGN
GENERAL PLAN & DETAIL SHEET
(METRIC) (REV. 10/2/05)

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): ~~4-11-06~~ ~~9-27-06~~ 12-7-06

SHEET 3 OF 3

FILE => 06-0c4101_03gp3.dgn

USERNAME => bmiller DATE PLOTTED => 21-DEC-2007 TIME PLOTTED => 10:38

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CONTRACT NO. 06-0C4104
TRANSFER DATE: 12-21-2007
FIELD CORRECTION DATE: 11-15-2007
CORRECTIONS TRANSFERED BY: REM
FIELD CORRECTIONS BY: Victor Diaz

AS BUILT CORRECTIONS

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	19.0/39.3	10R1	11

Matthew W. Lee 11/20/06
REGISTERED CIVIL ENGINEER

2-26-07
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MATTHEW W. LEE — No. C 56698 — Exp. 6-30-07 — CIVIL — STATE OF CALIFORNIA

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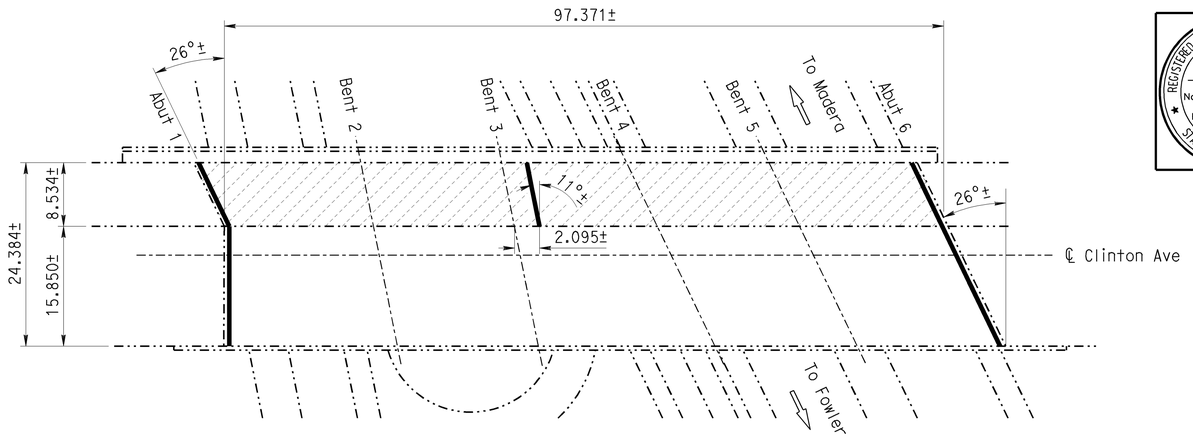
To get to the Caltrans web site, go to: http://www.dot.ca.gov

REGISTERED PROFESSIONAL ENGINEER — MICHAEL J LEE — No. C42447 — Exp. 3-31-08 — CIVIL — STATE OF CALIFORNIA

MARK	DATE	REVISION(S) DESCRIPTIONS	DES	CHK	DET
3	8-08-07	CHANGE SHEET NUMBERS	MJL	TP	DK
2	8-08-07	CHANGED NAME GENERAL PLAN NO. 1	MJL	TP	DK
1	8-08-07	ADDED SUPPLEMENTAL SHEET	MJL	TP	DK

REGISTERED CIVIL ENGINEER: Michael J. Lee DATE: 9-07-07

CONTRACT CHANGE ORDER NO. ____
SHEET ___ OF ___



STANDARD PLANS DATED JULY 2004

SHEET No.	TITLE
A10A	ACRONYMS AND ABBREVIATIONS (A-L)
A10B	ACRONYMS AND ABBREVIATIONS (M-Z)
RSP B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 50 mm)

INDEX TO PLANS

SHEET No.	TITLE
1	GENERAL PLAN NO. 1
2	GENERAL PLAN NO. 2
3	JOINT SEAL TABLE

NOTES: (APPLY TO ALL SHEETS)

Indicates existing.

THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

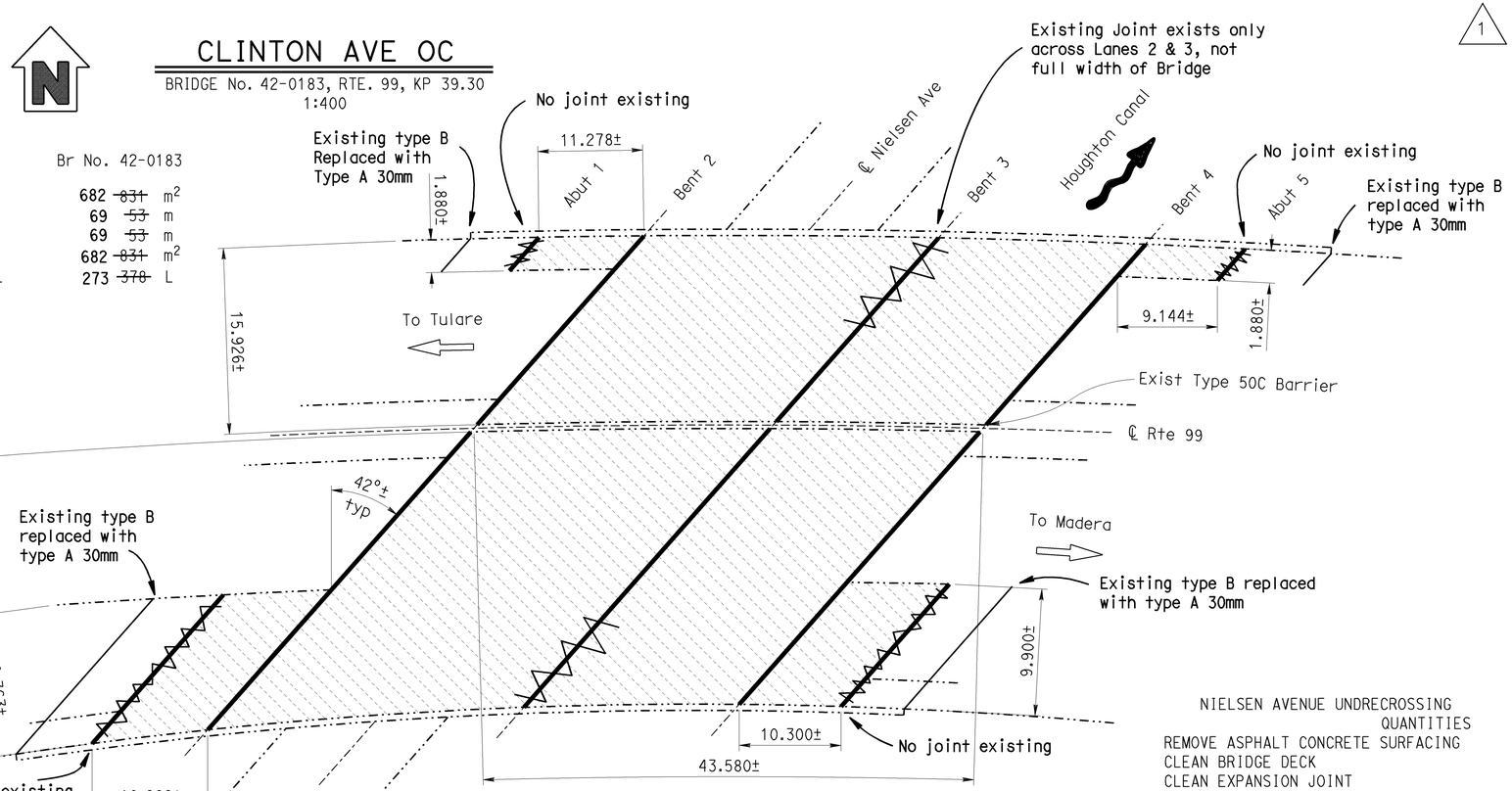
Indicates limits of clean and treat deck with high molecular weight methacrylate.

Indicates limits of remove existing 25mm± thick AC overlay, clean and treat deck with high molecular weight methacrylate.

Indicates limits of existing joint seal removal and placement of new joint seal.

CLINTON AVE OC

BRIDGE No. 42-0183, RTE. 99, KP 39.30
1:400



CLINTON AVENUE OVERCROSSING QUANTITIES	Br No. 42-0183	
CLEAN BRIDGE DECK	682 ~~831~~	m^2
CLEAN EXPANSION JOINT	69 ~~53~~	m
JOINT SEAL (MR 40 MM)	69 ~~53~~	m
TREAT BRIDGE DECK	682 ~~831~~	m^2
FURNISH BRIDGE DECK TREATMENT MATERIAL	273 ~~378~~	L

NIELSEN AVE UC

BRIDGE No. 42-0188, ROUTE 99, KP 35.63
1:250

NIELSEN AVENUE UNDRECROSSING QUANTITIES	Br No. 42-0188	
REMOVE ASPHALT CONCRETE SURFACING	2 123	m^2
CLEAN BRIDGE DECK	2 123	m^2
CLEAN EXPANSION JOINT	129 ~~207~~	m
JOINT SEAL (MR 30 mm)	129 ~~172~~	m
not used ~~JOINT SEAL (MR 15 mm)~~	37	m
TREAT BRIDGE DECK	2 123	m^2
FURNISH BRIDGE DECK TREATMENT MATERIAL	908 ~~965~~	L

Caltrans Metric	Michael J. Lee DESIGN ENGINEER — STRUCTURE MAINTENANCE DESIGN GENERAL PLAN & DETAIL SHEET (METRIC) (REV. 10/2/05)	DESIGN	BY Matt Lee	CHECKED Tim Powell	
		DETAILS	BY Seth Evans	CHECKED Tim Powell	
		QUANTITIES	BY Matt Lee	CHECKED Tim Powell	
		LAYOUT	BY Seth Evans	CHECKED Matt Lee	
		SPECIFICATIONS	BY Karla Meier	PLANS AND SPECS COMPARED Karla Meier	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

CU 06244
EA 0C4101

BRIDGE NO. Varies
KILOMETER POST Various

ROUTE 99 BRIDGES (TREAT DECK)
GENERAL PLAN NO. 1

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): ~~4-11-06~~ ~~9-27-06~~ 12-7-06

SHEET 1 OF 3

USERNAME => bmiller DATE PLOTTED => 21-DEC-2007 TIME PLOTTED => 09:59
FILE => 06-0c4101_01gp1.dgn

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	99	23 3/50 7	125	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

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VENTURA STREET OC 42-0158K
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION E	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	78 m

VENTURA STREET OC 42-0158E
QUANTITIES

BRIDGE REMOVAL (PORTION) LOCATION F	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	122 m

VENTURA STREET OC 42-0158S
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION G	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	74 m

NOTES

— — Indicates existing

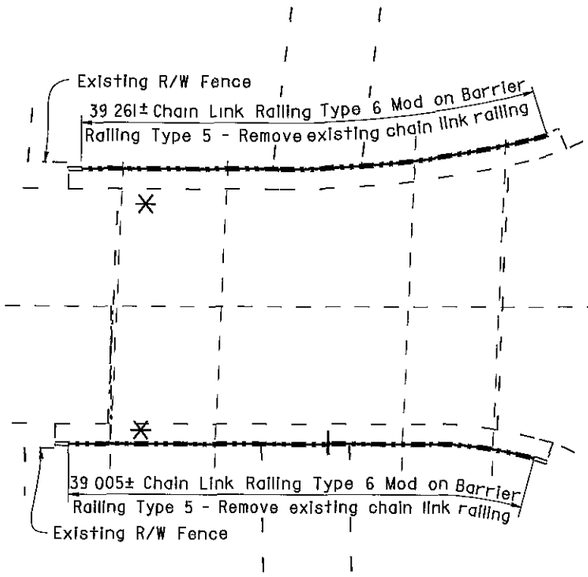
℄ Indicates approximate location of existing electroller (To remain)

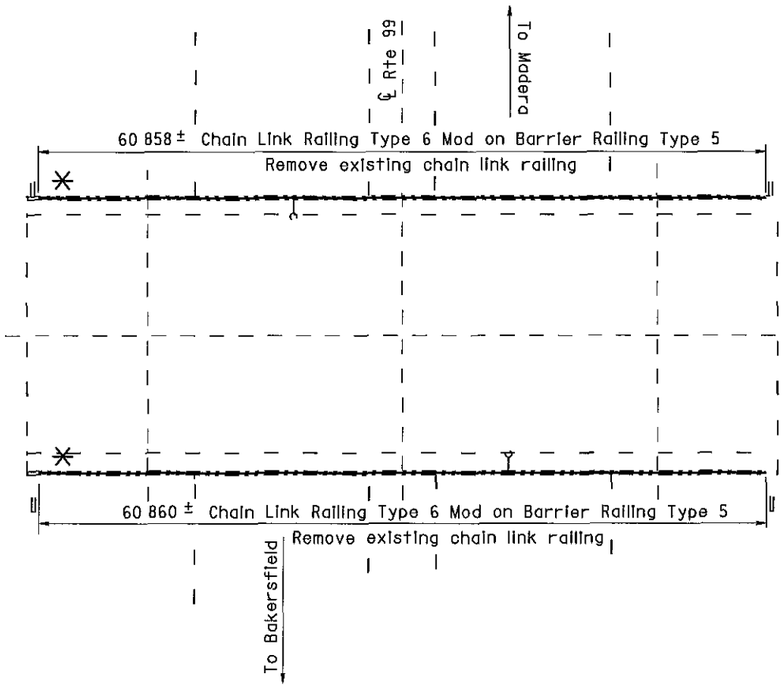
Indicates approximate location of remove and reinstall sign on new post

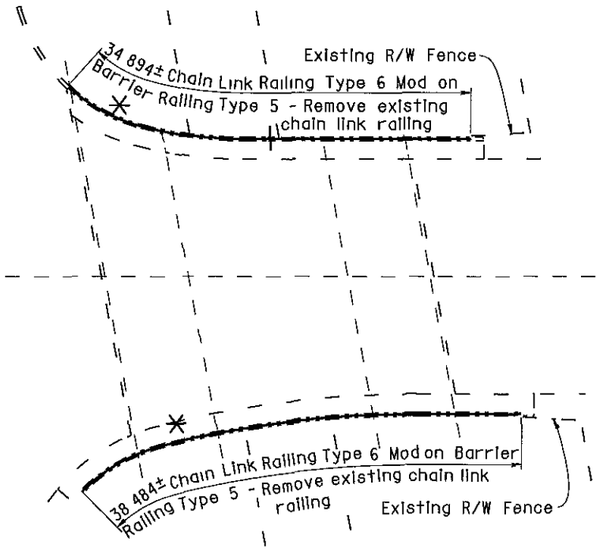
Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.







Br No 42-0158K

Bridges 42-0158K and 42-0158S were both painted with Color No. 20109 - "Deep red".

Br No. 42-0158E

VENTURA STREET OC

Fre, KP 32 5
I 250

AS BUILT
MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

Br No 42-0158S

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00 DESIGN ENGINEER	DESIGN	BY D Acoba 4/00	CHECKED F Tannous 5/00	LAYOUT	BY K Endow 4/00	CHECKED D Acoba 4/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE	BRIDGE NO Various	ROUTE 99 BRIDGES	
	DETAILS	BY K Endow 4/00	CHECKED F Tannous 5/00			PLANS AND SPECS COMPARED J Maroney 9/00			KILOMETER POST Varies	GENERAL PLAN NO. 3	
	QUANTITIES	BY D Acoba 5/00	CHECKED F Tannous 5/00	SPECIFICATIONS	BY J Maroney 9/00						

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE => nagp3.dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 5/15/00 7/17/00 9/28/00 10/1/00

SHEET 3 OF 11

USERNAME => mcarlson DATE PLOTTED => 03 JAN 2003 TIME PLOTTED => 08 32

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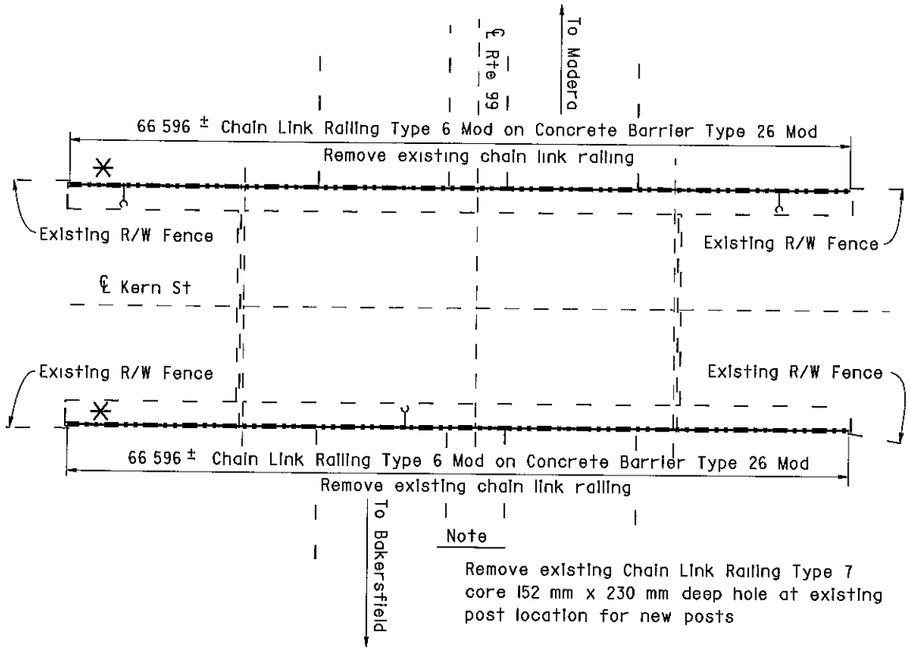
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	126	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

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Note

Remove existing Chain Link Railing Type 7 core 152 mm x 230 mm deep hole at existing post location for new posts

KERN STREET OC

Br No 42-0159, Fre, KP 33 0
1 250

KERN STREET OC 42-0159
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION H	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	133 m

TULARE STREET OC 42-0169
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION I	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	166 m

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

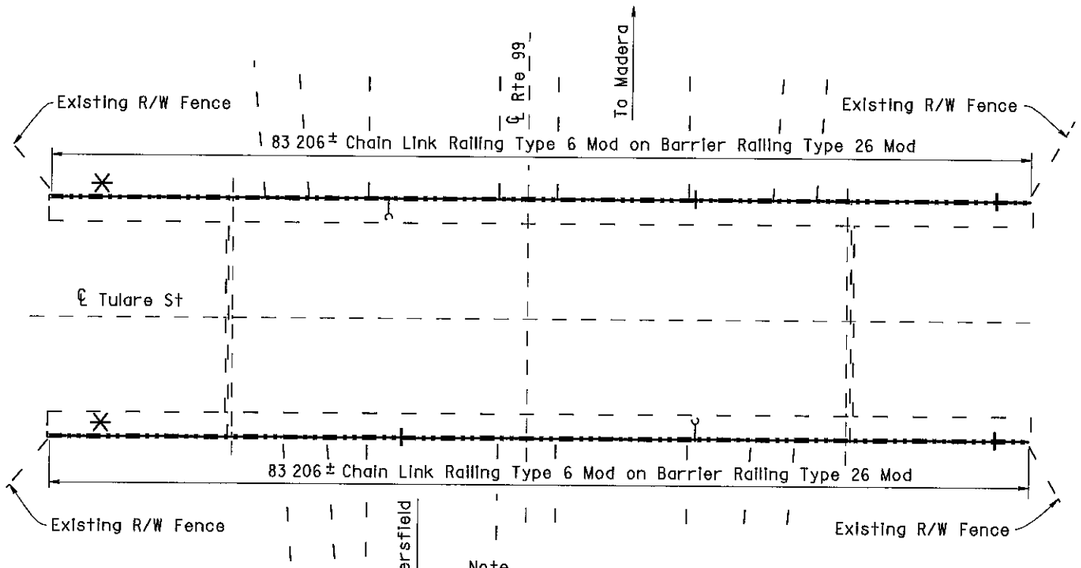
NOTES

— — Indicates existing

℄ Indicates approximate location of existing electrolier (To remain)

Indicates approximate location of remove and reinstall sign on new post

Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details



Note

Remove existing Chain Link Railing Type 7 core 152 mm x 230 mm deep hole at existing post location for new posts

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

TULARE STREET OC

Br No 42-0169, Fre, KP 33 2
1 250

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00 DESIGN ENGINEER	DESIGN	BY D Acoba 4/00	CHECKED F Tannous 5/00	LAYOUT	BY K Endow 4/00	CHECKED D Acoba 4/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE	BRIDGE NO Various
	DETAILS	BY K Endow 4/00	CHECKED F Tannous 5/00						KILOMETER POST Varies
	QUANTITIES	BY D Acoba 5/00	CHECKED F Tannous 5/00	SPECIFICATIONS	BY J Maroney 9/00	PLANS AND SPECS COMPARED J Maroney 9/00		CU 06015 EA 440101	DISREGARD PRINTS BEARING EARLIER REVISION DATES

ROUTE 99 BRIDGES
GENERAL PLAN NO. 4

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 7/17/00 9/26/00 10/3/00

SHEET 4 OF 11

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

FILE > nagp4 dgn

USERNAME > mcarlson DATE PLOTTED > 03-JAN-2003 TIME PLOTTED => 08:38

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	127	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

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FRESNO STREET OC 42-0170
QUANTITIES

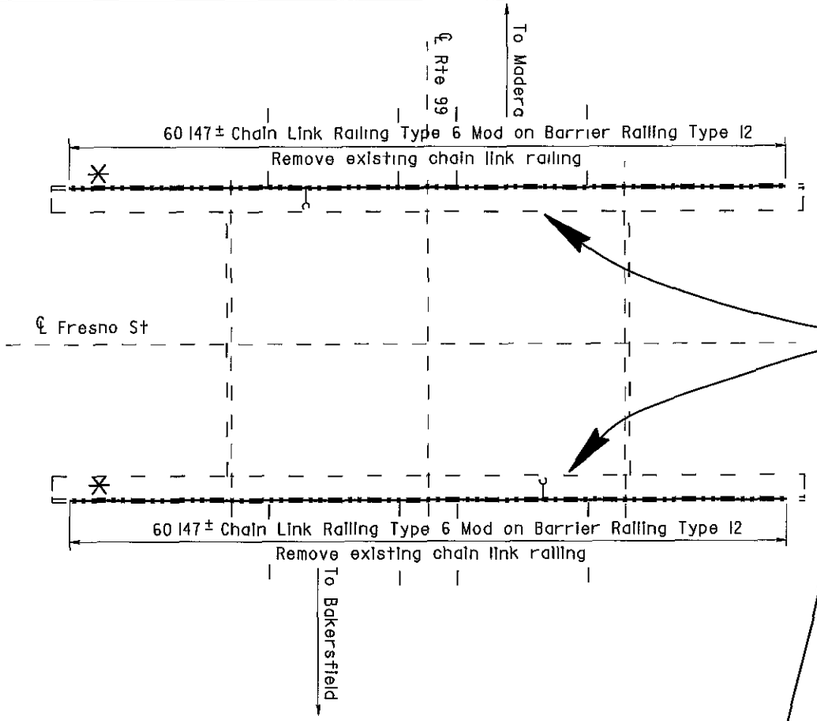
BRIDGE REMOVAL (PORTION), LOCATION J	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	120 m

EL DORADO STREET OC 42-0184
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION K	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	122 m

BELMONT AVENUE OC 42-0186
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION L	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	138 m



Handrail added to Fresno St. and Belmont Ave. OC

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

NOTES

— — Indicates existing

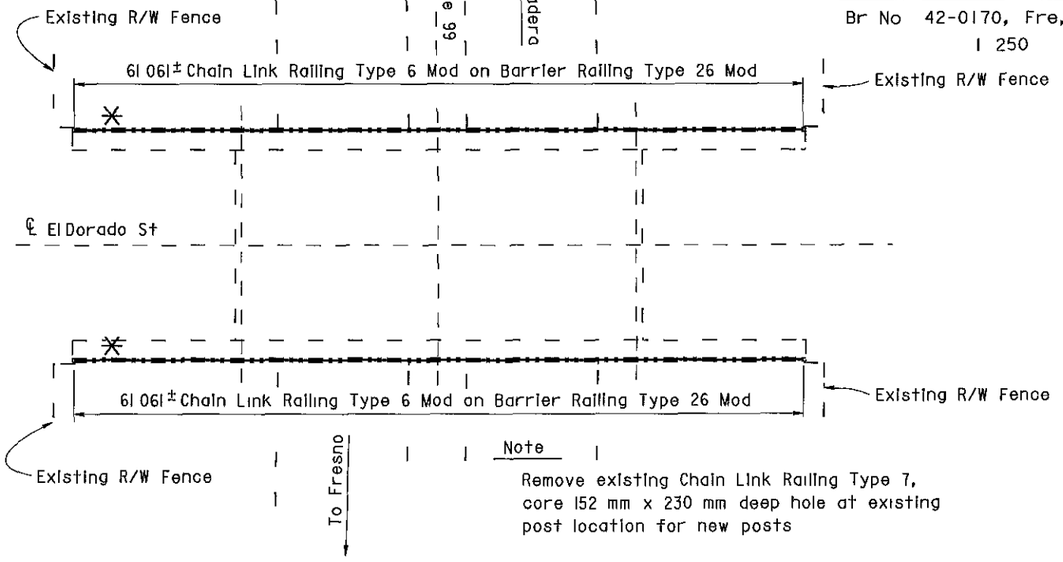
℄ Indicates approximate location of existing electrolier (To remain)

Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

FRESNO STREET OC

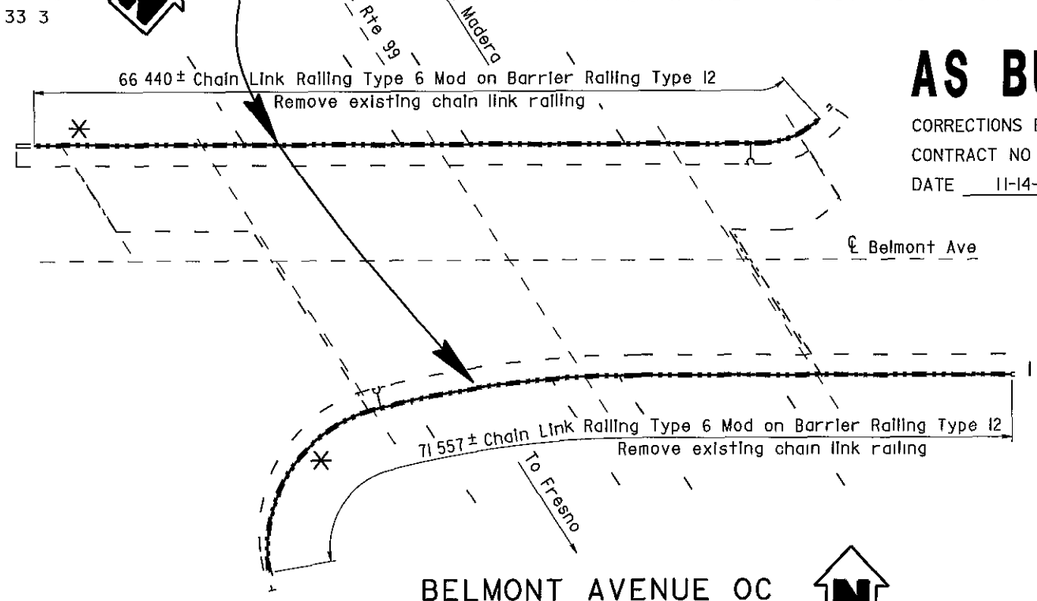
Br No 42-0170, Fre, KP 33 3
1 250



Note
Remove existing Chain Link Railing Type 7, core 152 mm x 230 mm deep hole at existing post location for new posts

EL DORADO STREET OC

Br No 42-0184, Fre, KP 34 6
1 250



BELMONT AVENUE OC

Br No 42-0186, Fre, KP 36 5
1 250

AS BUILT
MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED		LAYOUT	BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00		K Endow	4/00	D Acoba	4/00
DETAILS	K Endow	4/00	F Tannous	5/00				PLANS AND SPECS COMPARED	
QUANTITIES	D Acoba	5/00	F Tannous	5/00	SPECIFICATIONS	J Maroney	9/00	J Maroney	9/00

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

CU 06015
EA 440101

FILE => nogp5.dgn

BRIDGE NO	Various
KILOMETER POST	Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 5

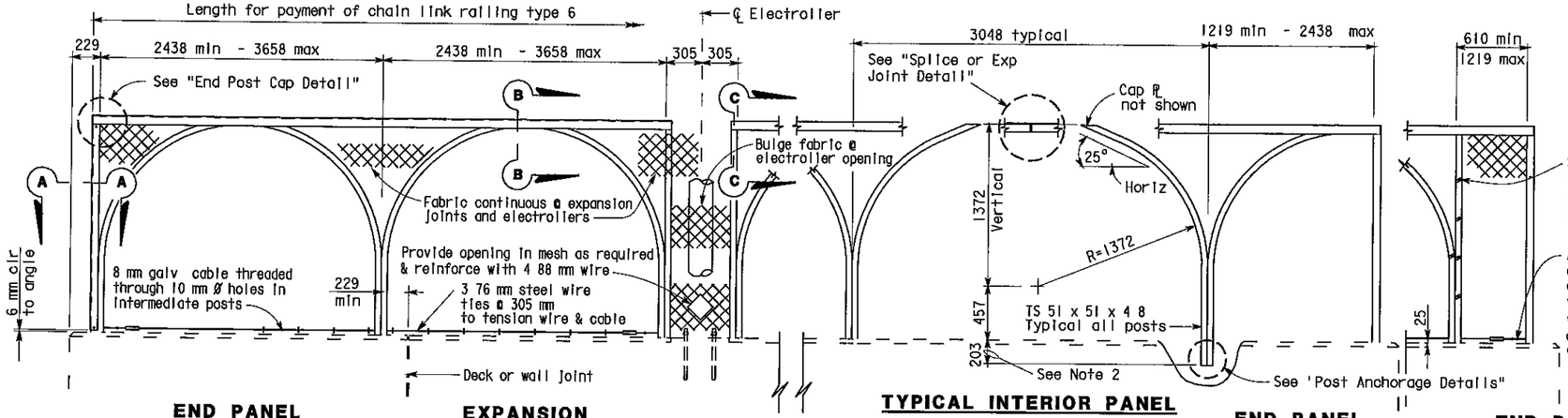
DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)									
5/15/00	7/17/00	9/26/00	10/3/00						

SHEET 5 OF 11

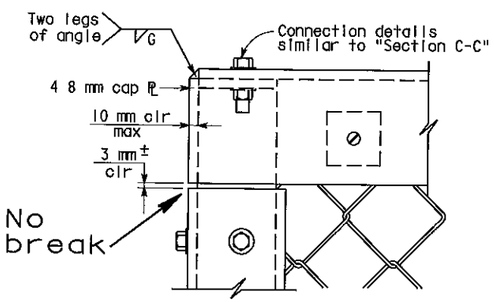
USERNAME => marison DATE PLOTTED => 03-JAN 2003 TIME PLOTTED => 06 50

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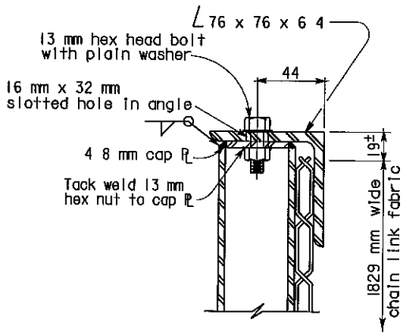


END PANEL 2438 mm - 3658 mm | **EXPANSION PANEL AT ELECTROLIER** | **TYPICAL INTERIOR PANEL** | **END PANEL 1219 mm - 2438 mm** | **END PANEL 610 mm - 1219 mm**

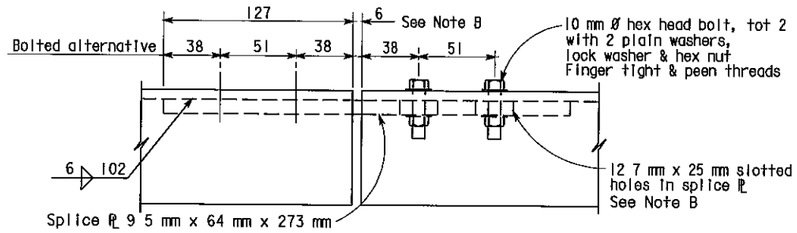
ELEVATION



END POST CAP DETAIL

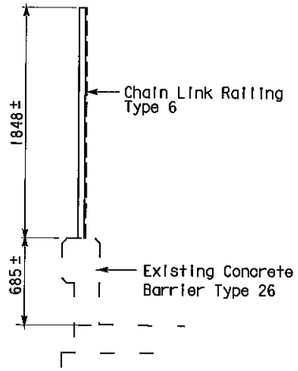


SECTION C-C

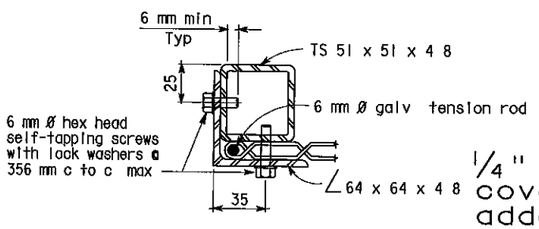


SPLICE OR EXPANSION JOINT DETAIL

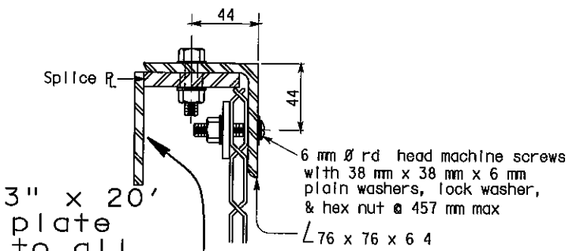
Note B Expansion joint same dimension as expansion joint in deck or wall Increase slotted hole length and splice ℙ length correspondingly



TYPICAL SECTIONS



SECTION A-A



SECTION B-B

NOTES

1. Horizontal angle shall be continuous over not less than two intermediate posts except that a shorter length is permitted at expansion joints, electrollers and other rail discontinuities
2. One post may be embedded 152 mm minimum to accomodate grade changes, otherwise fabricate post lengths as required
3. Curved posts may be rotated in plan within its post pocket to accomodate curved horizontal alignment
4. Straight posts and straight portions of curved posts shall be installed normal to bridge profile grade
5. Top horizontal angle shall be parallel to bridge profile grade and shall be shop bent to fit horizontal curves
6. When railing is on slope, fabric shall be placed parallel to slope
7. Alternative details may be submitted by Contractor for Engineer's approval
8. Railing assembly except chain link fabric shall be galvanized after fabrication
9. For details and reinforcement not shown, see "Concrete Barrier Type 25 or 26" sheet
10. See Bridge Plans for limits of Chain Link Railing Type 6 Mod
11. Provide thimbles at all cable loops
12. Chain link fabric to be 1829 mm wide with 25 mm mesh and with knuckled selvage top and bottom
13. When railing is placed on a horizontal alignment with a radius of 45 72 m or less, thread 8 mm cable through 10 mm Ø welded eye rods embedded 102 mm into the top of the concrete parapet and equally spaced to limit the middle ordinate distance between the 8 mm cable and the curve to 25 mm max
14. Splices and expansion joints shall be located at ℄ panel
15. Holes in posts for 8 mm cable and its anchorage may be field drilled and painted with zinc rich paint

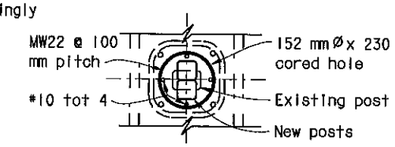
AS BUILT

MRC 1-3-03

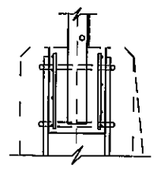
CORRECTIONS BY John Borquez

CONTRACT NO 06-440104

DATE 11-14-02



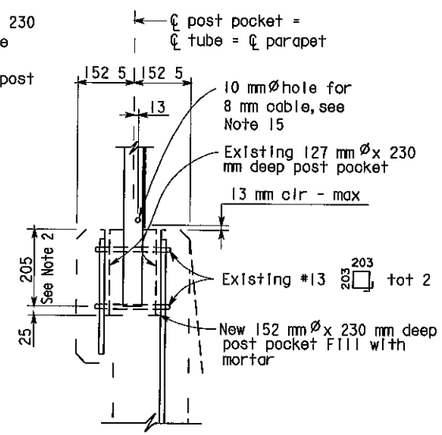
PLAN



SECTION

Detail omitted

POCKET DETAILS



POST ANCHORAGE DETAIL

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	130	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

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DESIGN	BY D Acoba	5/00	CHECKED F Tannous	5/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY K Endow	5/00	CHECKED F Tannous	5/00	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE
QUANTITIES	BY D Acoba	5/00	CHECKED F Tannous	5/00	BRIDGE NO Various; KILOMETER POST Varies

ROUTE 99 BRIDGES

CHAIN LINK RAILING TYPE 6 MOD NO. 1

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV 10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE > nat61.dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/17/00 | 9/26/00 | 10/3/00

SHEET 8 OF 11

USERNAME mcarlson DATE PLOTTED > 03-JAN-2003 TIME PLOTTED => 12:11

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
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10/3/00
REGISTERED CIVIL ENGINEER

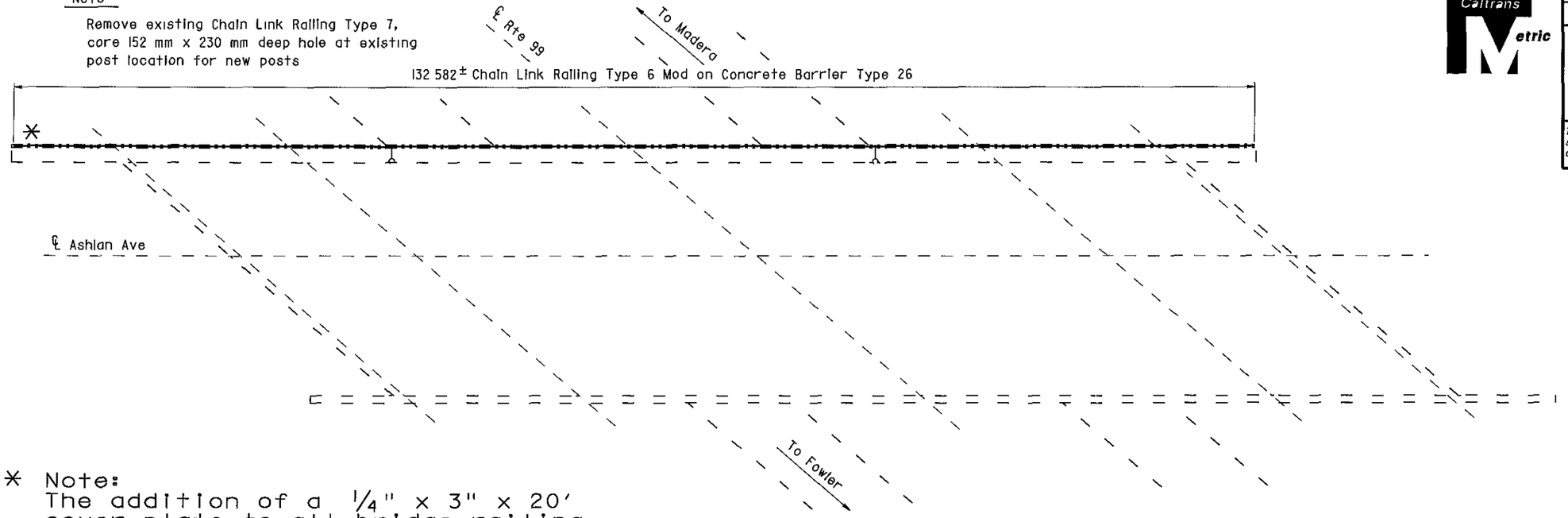
11-13-00
PLANS APPROVAL DATE

DIOSDADO ACOBA No 52003 Exp 12-31-02 CIVIL STATE OF CALIFORNIA

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Note

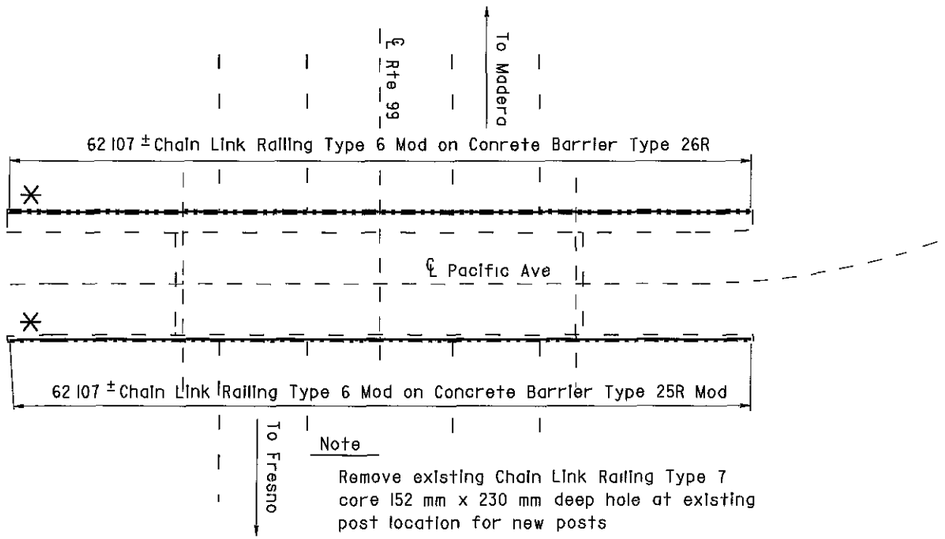
Remove existing Chain Link Railing Type 7, core 152 mm x 230 mm deep hole at existing post location for new posts



* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

ASHLAN AVENUE OC

Br No 42-0140, Fre, KP 42 8
1 250



Note

Remove existing Chain Link Railing Type 7 core 152 mm x 230 mm deep hole at existing post location for new posts

PACIFIC AVENUE OC

Br No 42-0189, Fre, KP 36 0
1 250

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

NOTES

— — Indicates existing

℄ ↓ Indicates approximate location of existing electrolier (To remain)

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

ASHLAN AVENUE OC 42-0140
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION O	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	133 m

PACIFIC AVENUE OC 42-0189
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION P	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	124 m

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

DESIGN	BY D Acoba 4/00	CHECKED F Tannous 5/00	LAYOUT	BY K Endow 4/00	CHECKED D Acoba 4/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE
DETAILS	BY K Endow 4/00	CHECKED F Tannous 5/00					
QUANTITIES	BY D Acoba 5/00	CHECKED F Tannous 5/00	SPECIFICATIONS	BY J Maroney 9/00	PLANS AND SPECS COMPARED J Maroney 9/00		

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 7

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE => nagp7.dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 5/15/00 7/17/00 9/26/00 10/3/00

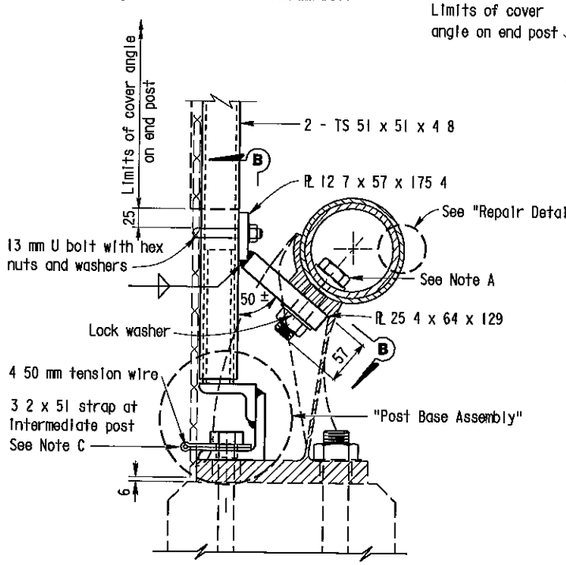
SHEET 7 OF 11

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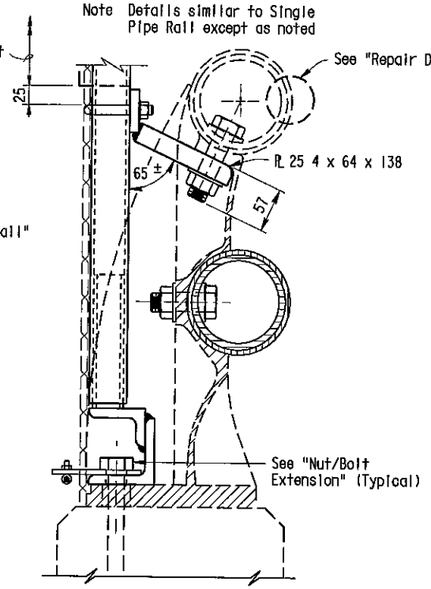
Note A

Replace existing bolt with 25 mm x 102 mm bolt



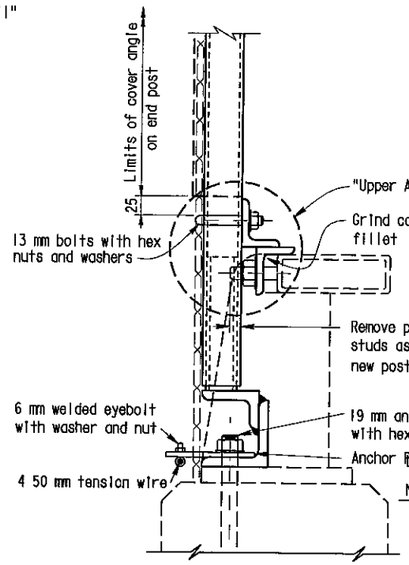
SECTION A-A (SINGLE PIPE RAIL)

Note Details similar to Single Pipe Rail except as noted



SECTION A-A (DOUBLE PIPE RAIL)

Note Details for Type 9 and Type 11 Metal Railing are similar, Type 11 not shown



SECTION A-A (TUBE RAIL)

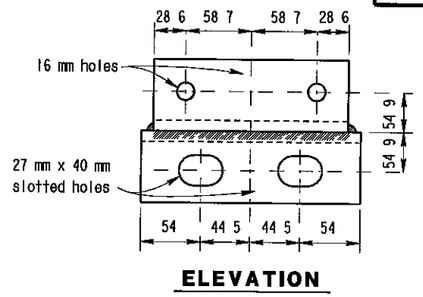
NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Note B

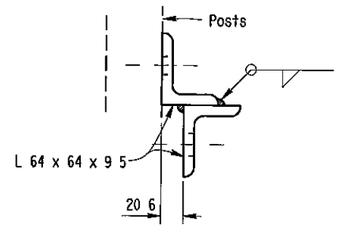
Paint all cut and ground surfaces with zinc rich paint

Note C

At intermediate posts only contractor has an alternate of 3 mm x 51 mm strap or 6 4 mm anchor plate with eyebolt



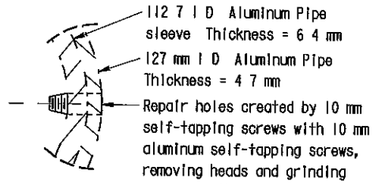
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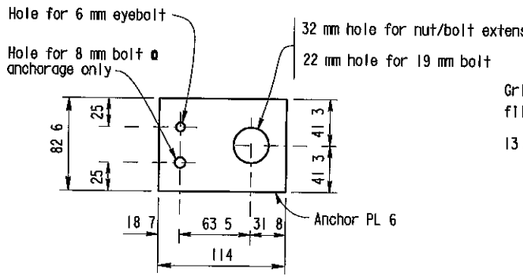
SIDE VIEW

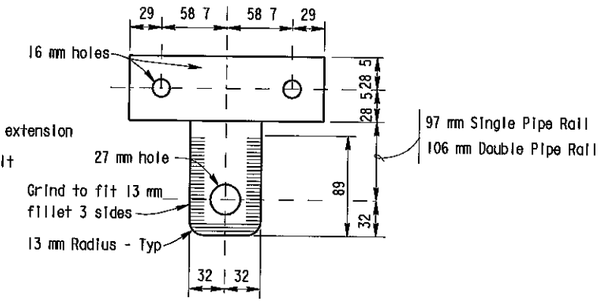
UPPER ANGLE BRACKET

ATTACHMENT DETAILS



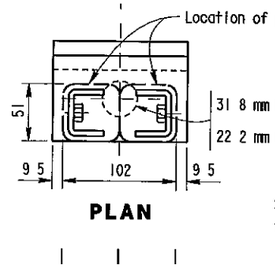
REPAIR DETAIL



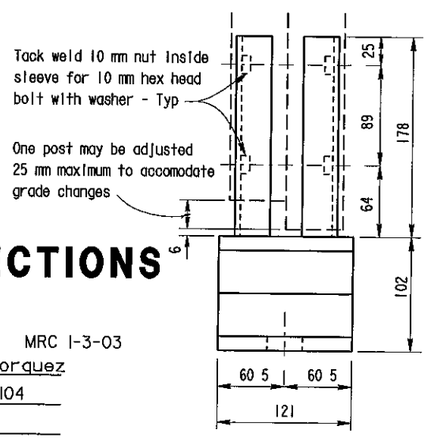


VIEW B-B

(Developed view of upper bracket)

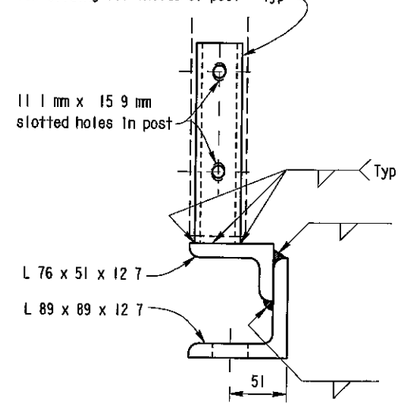


PLAN



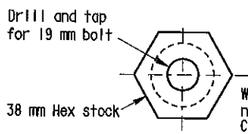
ELEVATION

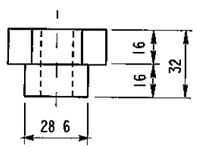
Sleeve formed from PL 4 7, bent thus ⊔ for sliding fit inside of post - Typ



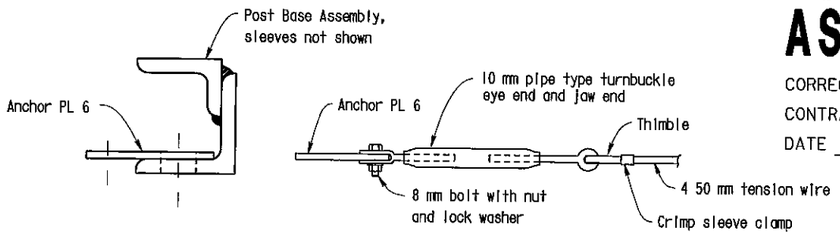
SIDE VIEW

POST BASE ASSEMBLY





NUT/BOLT EXTENSION



BOTTOM ANCHORAGE DETAIL

NO CORRECTIONS AS BUILT

MRC 1-3-03

CORRECTIONS BY John Borquez

CONTRACT NO 06-440104

DATE 11-14-02

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	132	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DIOSDADO ACOBA No 52003 Exp 12-31 02 CIVIL STATE OF CALIFORNIA

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DETAILS	BY K Endow	5/00	CHECKED F Tannous	5/00	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE
QUANTITIES	BY D Acoba	5/00	CHECKED F Tannous	5/00	CU 06015 EA 440101

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
CHAIN LINK RAILING TYPE 6 MOD NO. 3

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

FILE > nat63 dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 7/17/00 9/26/00 10/3/00

SHEET 10 OF 11

USERNAME > mgarlson DATE PLOTTED > 03 JAN 2003 TIME PLOTTED > 13:26

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
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10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

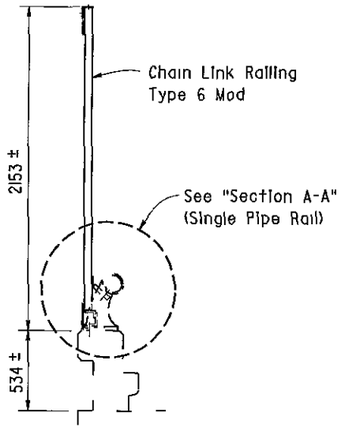
REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

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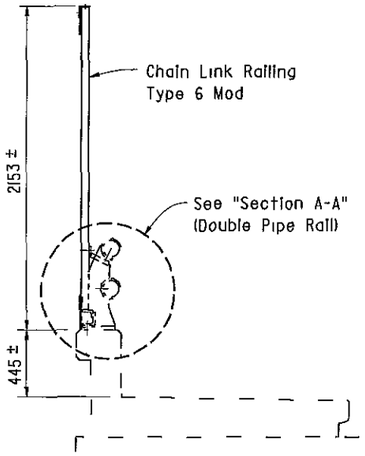
NO CORRECTIONS
AS BUILT

MRC 1-3-03

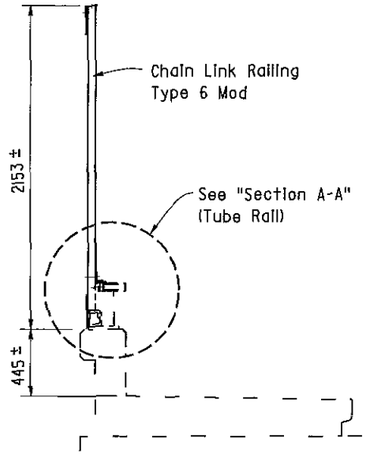
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02



TYPE 1



TYPE 5



TYPE 12

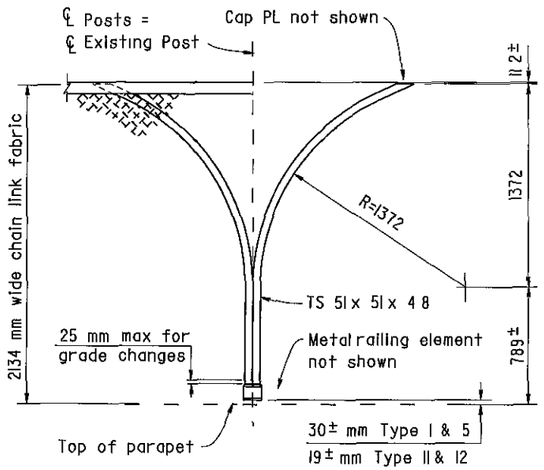
BARRIER RAILING SECTIONS

Existing chain link railing not shown

I 20

TYPE A
- NORTH AVE OC - 2 Locations
- CHURCH AVE OC - 4 Locations
- CALIFORNIA AVE OC - 4 Locations
- VENTURA ST OC - 4 Locations

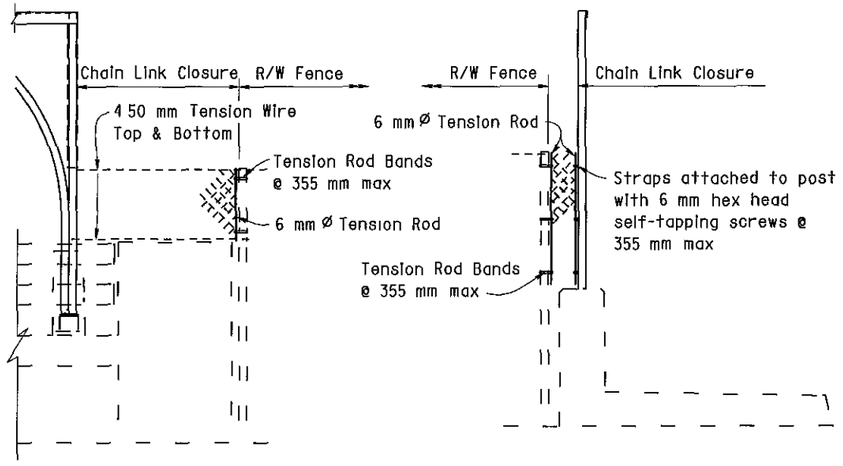
TYPE B
- KERN ST OC - 4 Locations
- TULARE ST OC - 4 Locations
- EL DORADO ST OC - 4 Locations



PART OUTSIDE ELEVATION

Note For details and notes not shown, see "Chain Link Railing Type 6 Mod No 1" sheet

I 10

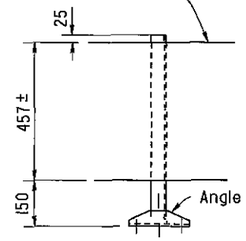


TYPE A TYPE B

R/W FENCE CONNECTION

I 10

Remove existing sign panels and reinstall on new post



TULARE ST OC

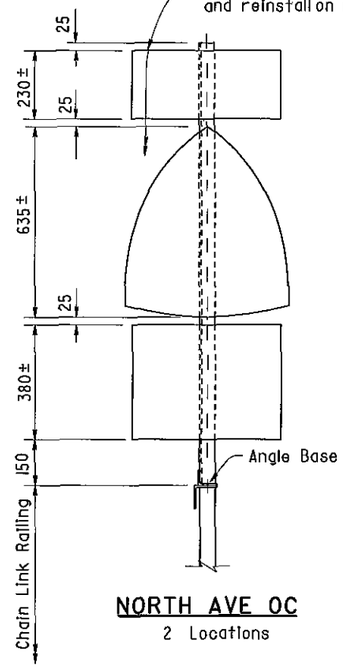
4 Loactions

Note

Reinstall signs at approximately the same location on chain link railing as existing

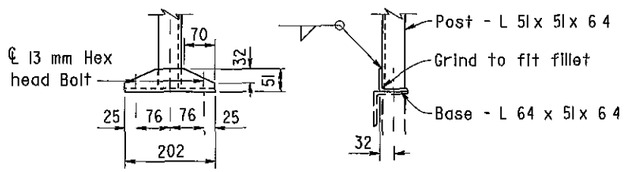
NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Remove existing sign panels and reinstall on new post



NORTH AVE OC

2 Locations



ANGLE BASE

Note

Hot dip galvanize sign post after fabrication
Field drilled holes to be painted with zinc rich paint

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

	BY		CHECKED	
DESIGN	D Acoba	5/00	F Tannous	5/00
DETAILS	K Endow	5/00	F Tannous	5/00
QUANTITIES	D Acoba	5/00	F Tannous	5/00

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
CHAIN LINK RAILING TYPE 6 MOD NO. 2

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE > nat62.dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/17/00 | 9/26/00 | 10/3/00

SHEET 9 OF 11

USERNAME => mcarlson DATE PLOTTED > 03-JAN-2003 TIME PLOTTED > 13:23

ClibPDF - www.fastio.com

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
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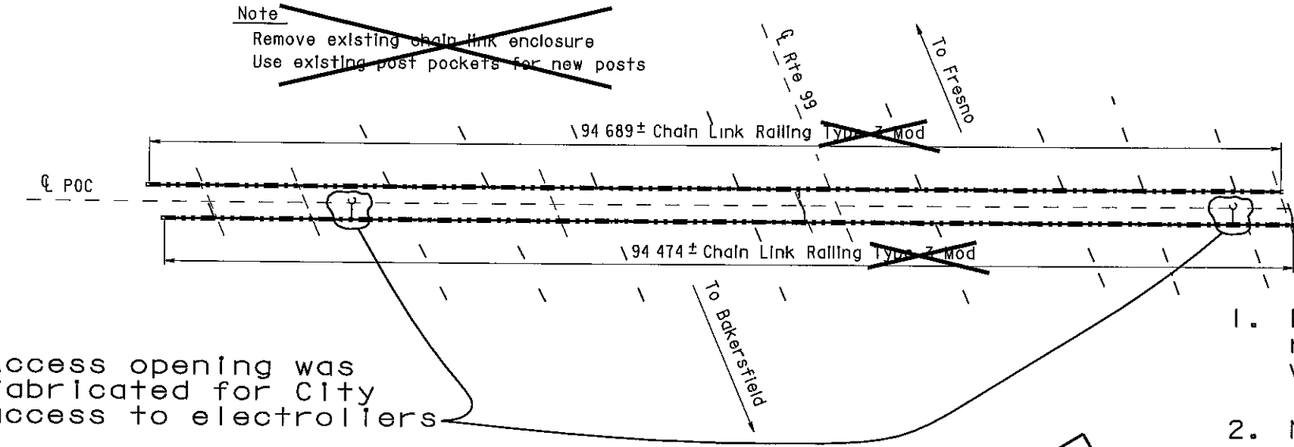
10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

Note
Remove existing chain link enclosure
Use existing post pockets for new posts



COSMOS PLAYGROUND POC

Br No 42-0215, Fre, KP 31 2
1 250

1. Existing chain link railing remained and was painted.
2. New 1" mesh was installed and replaced the old 2" mesh.
3. Existing electroliers remained.

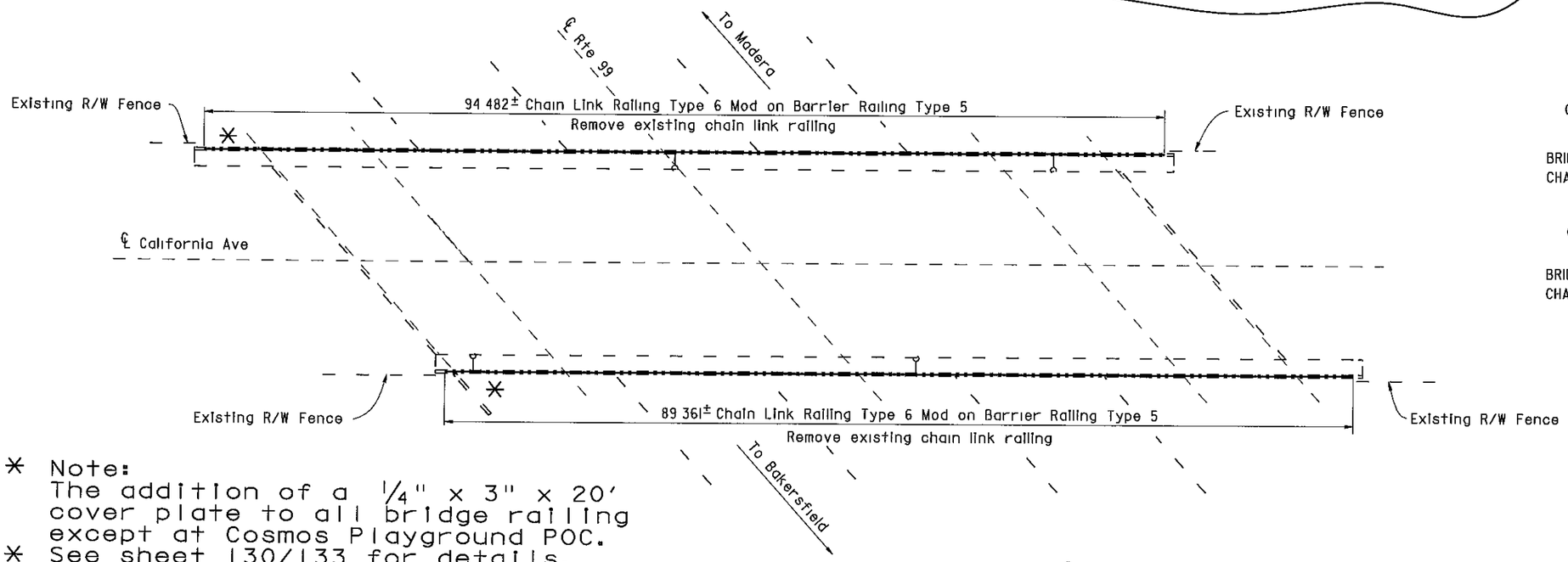
NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

NOTES

— — Indicates existing

℄ Indicates approximate location of existing electroliter (To remain)

Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details



COSMOS PLAYGROUND POC 42-0215
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION C	LUMP SUM
CHAIN LINK RAILING (TYPE 3 MODIFIED)	209 m

CALIFORNIA AVENUE OC 42-0217
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION D	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	184 m

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

CALIFORNIA AVENUE OC

Br No 42-0217, Fre, KP 32 0
1 250

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borguez
CONTRACT NO 06-440104
DATE 11-14-02

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00
DETAILS	K Endow	4/00	F Tannous	5/00
QUANTITIES	D Acoba	5/00	F Tannous	5/00
LAYOUT	K Endow	4/00	D Acoba	4/00
SPECIFICATIONS	J Maroney	9/00	J Maroney (PLANS AND SPECS COMPARED)	9/00

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

CU 06015
EA 440101

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 2

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/12/00 | 9/26/00 | 10/3/00

SHEET 2 OF 11

FILE -> nagp2.dgn

USERNAME -> morrison DATE PLOTTED -> 03 JAN 2003 TIME PLOTTED -> 08:15

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NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Caltrans Metric

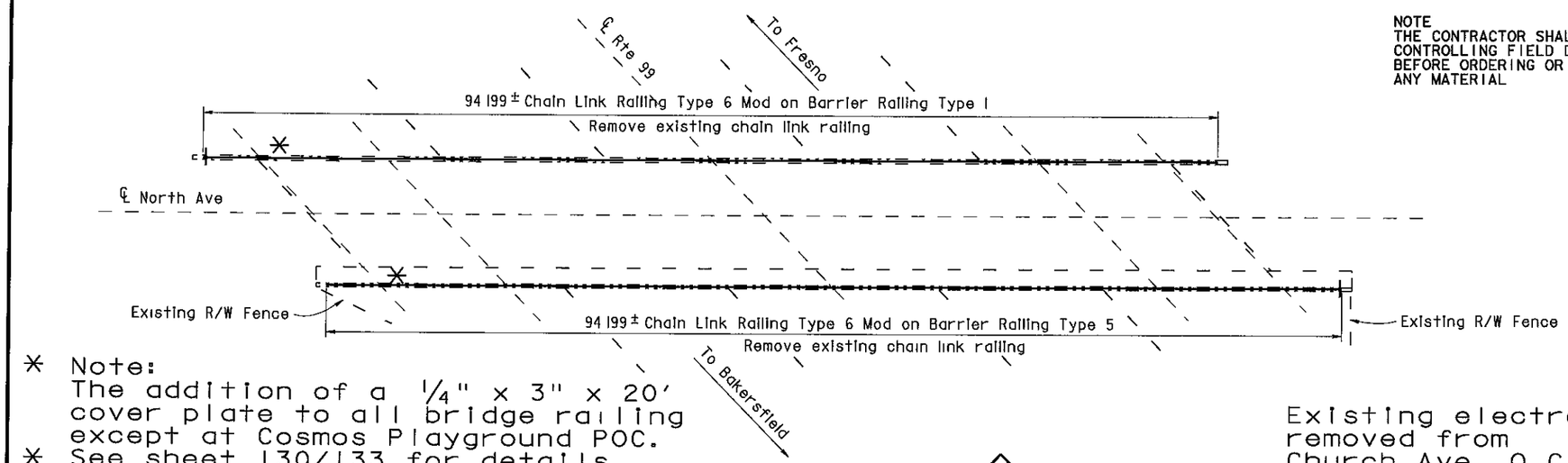
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	123	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DIOSDADO ACOBA
No 52003
Exp 12-31-02
CIVIL
STATE OF CALIFORNIA

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* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

NORTH AVENUE OC

Br No 42-0210, Fre, KP 27 8
1 250

Existing electroliers removed from Church Ave. O.C.

NOTES

— — Indicates existing

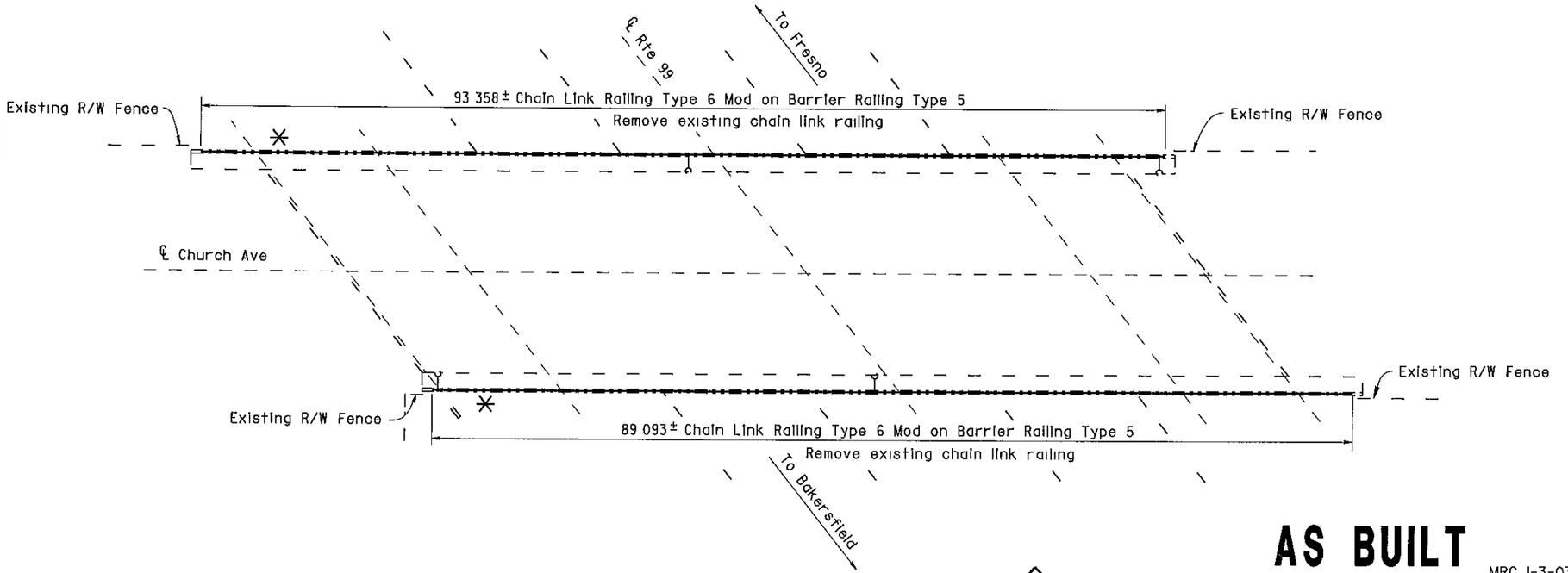
℄ Indicates approximate location of existing electrolier (To remain)

Indicates approximate location of remove and reinstall sign on new post

Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details

INDEX TO PLANS

SHEET NO	TITLE
1	GENERAL PLAN NO 1
2	GENERAL PLAN NO 2
3	GENERAL PLAN NO 3
4	GENERAL PLAN NO 4
5	GENERAL PLAN NO 5
6	GENERAL PLAN NO 6
7	GENERAL PLAN NO 7
8	CHAIN LINK RAILING TYPE 6 MOD NO 1
9	CHAIN LINK RAILING TYPE 6 MOD NO 2
10	CHAIN LINK RAILING TYPE 6 MOD NO 3
11	CHAIN LINK RAILING TYPE 3 MOD



CHURCH AVENUE OC

Br No 42-0214, Fre, KP 30 9
1 250

AS BUILT MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

NORTH AVENUE OC 42-0210
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION A	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	189 m

CHURCH AVENUE OC 42-0214
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION B	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	183 m

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED		BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00	LAYOUT	K Endow	4/00	D Acoba	4/00
DETAILS	K Endow	4/00	F Tannous	5/00				PLANS AND SPECS COMPARED	
QUANTITIES	D Acoba	5/00	F Tannous	5/00	SPECIFICATIONS	J Maroney	9/00	J Maroney	9/00

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 1

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 5/15/00 7/17/00 9/26/00 10/3/00

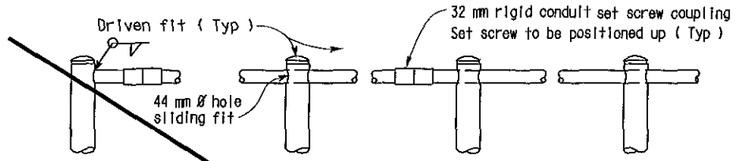
SHEET 1 OF 11

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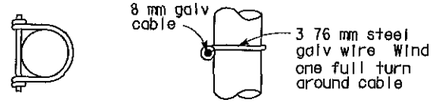
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RELEASED 6-9-98



END POST **INTERMEDIATE POSTS**



PLAN **ELEVATION**

DETAIL H

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
06	Fre	99	23 3/50 7	133	133

10-3-00
REGISTERED ENGINEER - CIVIL

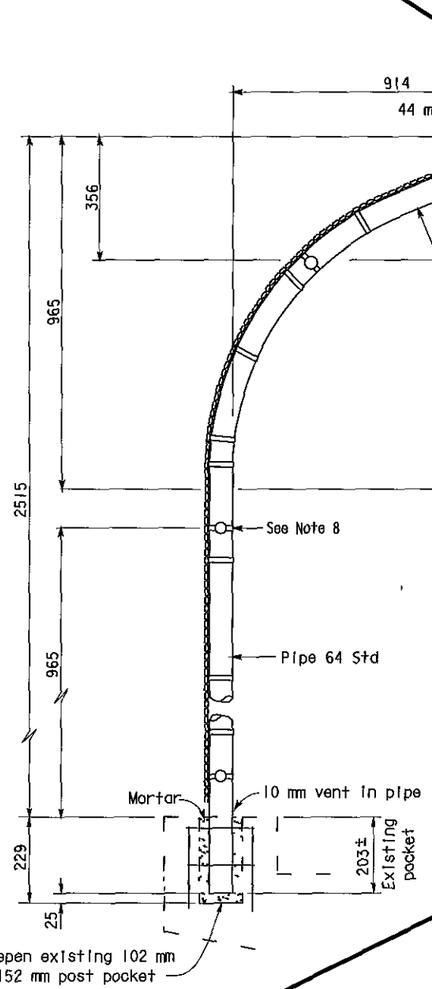
11-13-00
PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

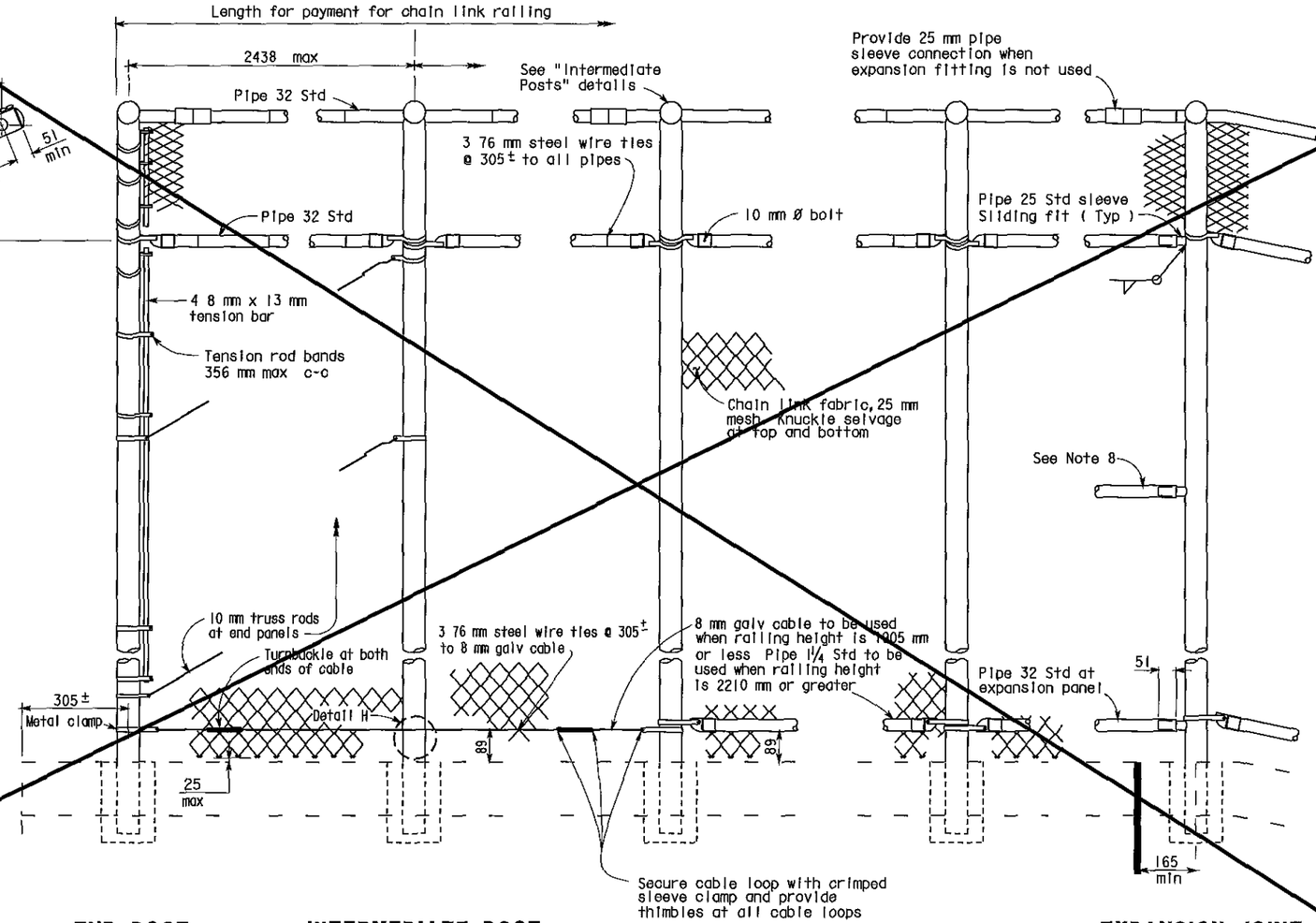
REGISTERED PROFESSIONAL ENGINEER
DIOSDADO ACOBA
No 52003
Exp 12 31 02
CIVIL
STATE OF CALIFORNIA

NOTES:

1 Railing assembly except chain link fabric to be galvanized after fabrication
2 Railing shall conform to horizontal and vertical alignment Posts shall be vertical Horizontal pipes shall be bent if radius is 45 72 m or less may be on 2 438 m chords If radius is over 45 72 m
3 Peen all 10 mm Ø bolts
4 When railing is on slope fabric shall parallel to slope
5 Alternative details may be submitted by Contractor for Engineer's approval
6 Additional pipe 32 std required on radius less than 45 72 m



TYPICAL POST DETAIL



END POST **INTERMEDIATE POST** **EXPANSION JOINT**

ELEVATION

Sheet Deleted

No Type 3 Modified Railing was used on this contract

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

SPECIAL DETAIL

NO SCALE
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

STANDARD DRAWING				
FILE NO XS 9 81	DESIGN BY R W BISHOP	CHECKED J HAMAGUCHI	APPROVAL RECOMMENDED BY	
DRAWING DATE Revised	DETAILS BY R YEE	CHECKED J HAMAGUCHI		
	SUBMITTED BY R W BISHOP		DESIGN SUPERVISOR	

DS OSD 2147A (METRIC) (REV 2/25/97)

1 Revised sheet - removed handrailing and electrical details and notes

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

CU 06105
EA 452001

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
CHAIN LINK RAILING TYPE 3 MOD 1

DISREGARD PRINTS BEARING EARLIER REVISION DATES
REVISION DATES (PRELIMINARY STAGE ONLY) 5/30/00 7/17/00 9/28/00 10/3/00

SHEET 11 OF 11

USERNAME > mgarlson
x5981 dgn
XS981 DGN

DATE PLOTTED > 03-JAN-2003 TIME PLOTTED > 13 32

ClibPDF - www.fastio.com

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	128	133

10/3/00
REGISTERED CIVIL ENGINEER

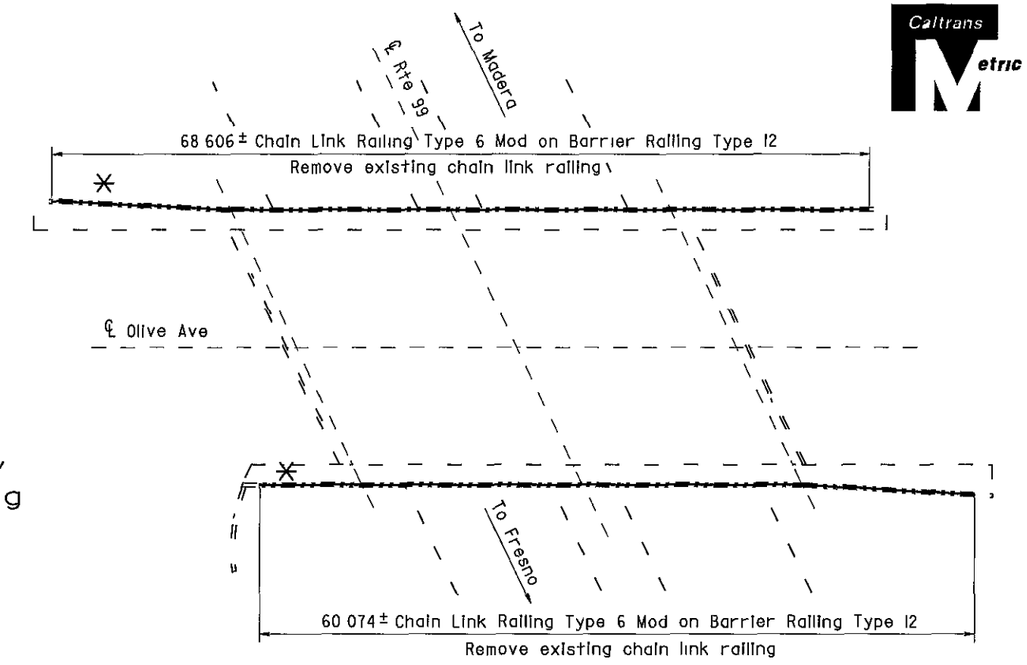
11-13-00
PLANS APPROVAL DATE

DIOSDADO ACOBA No 52003 Exp 12-31 02 CIVIL STATE OF CALIFORNIA REGISTERED PROFESSIONAL ENGINEER

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.



OLIVE AVENUE OC

Br No 42-0187, Fre, KP 37 5
1 250

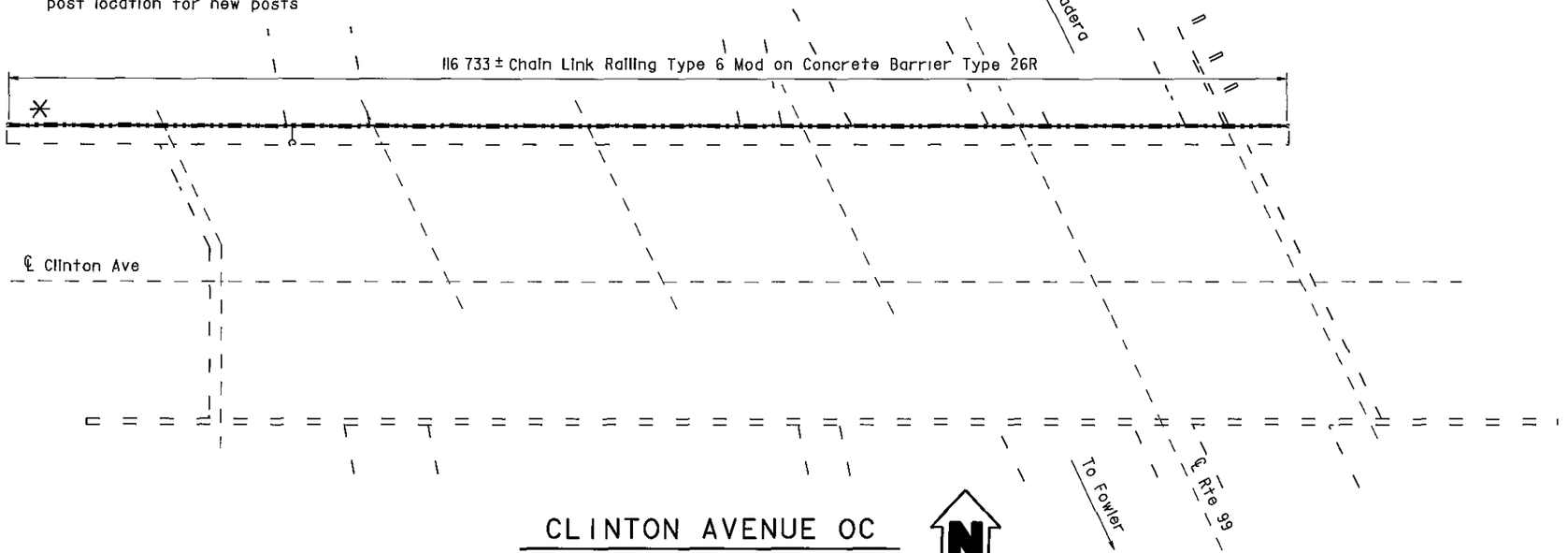
NOTES

— — Indicates existing

℄ Indicates approximate location of existing electrolier (To remain)

Note

Remove existing Chain Link Railing Type 7 core 152 mm x 230 mm deep hole at existing post location for new posts



CLINTON AVENUE OC

Br No 42-0183, Fre, KP 39 3
1 250

OLIVE AVENUE OC 42-0187
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION M	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	129 m

CLINTON AVENUE OC 42-0183
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION N	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	116 m

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED		BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00	LAYOUT	K Endow	4/00	D Acoba 4/00
DETAILS	K Endow	4/00	F Tannous	5/00				
QUANTITIES	D Acoba	5/00	F Tannous	5/00	SPECIFICATIONS	J Maroney	9/00	PLANS AND SPECS COMPARED J Maroney 9/00

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 6

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE => nagp6.dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/17/00 | 9/26/00 | 10/3/00

SHEET 6 OF 11

USERNAME => mcarlson DATE PLOTTED => 03 JAN-2003 TIME PLOTTED => 08 53

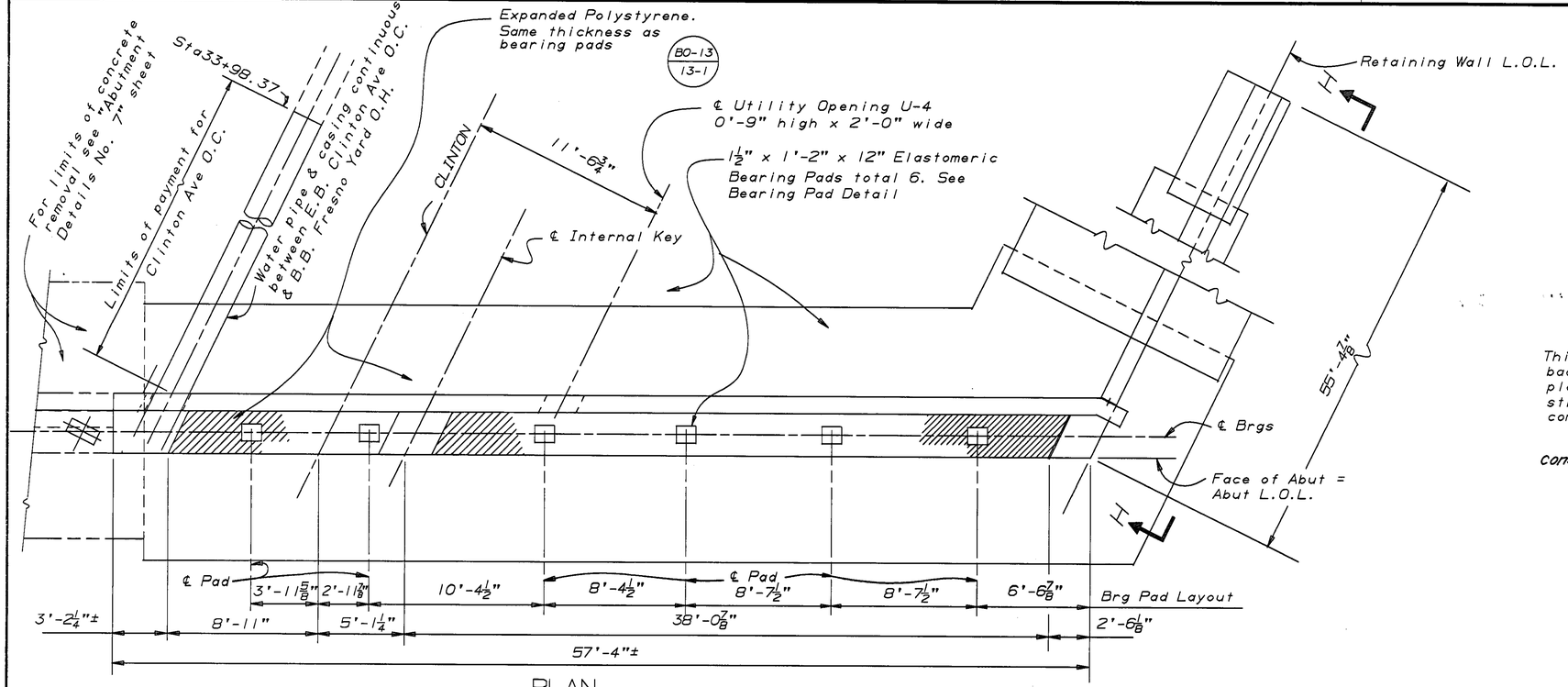
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	24.4, 26.6	119	199

REGISTERED ENGINEER - CIVIL

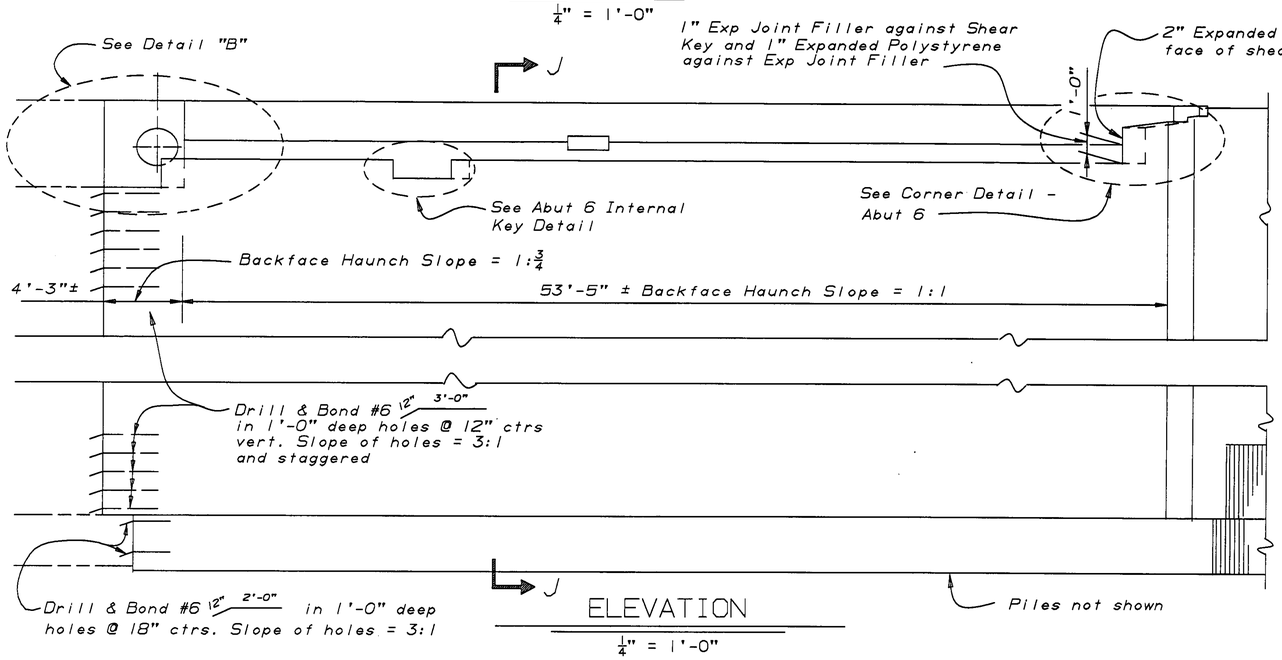
REGISTERED PROFESSIONAL ENGINEER — J Fujimoto — No. 43943 — Exp. 06-30-93 — CIVIL — STATE OF CALIFORNIA

3-11-91
PLANS APPROVAL DATE



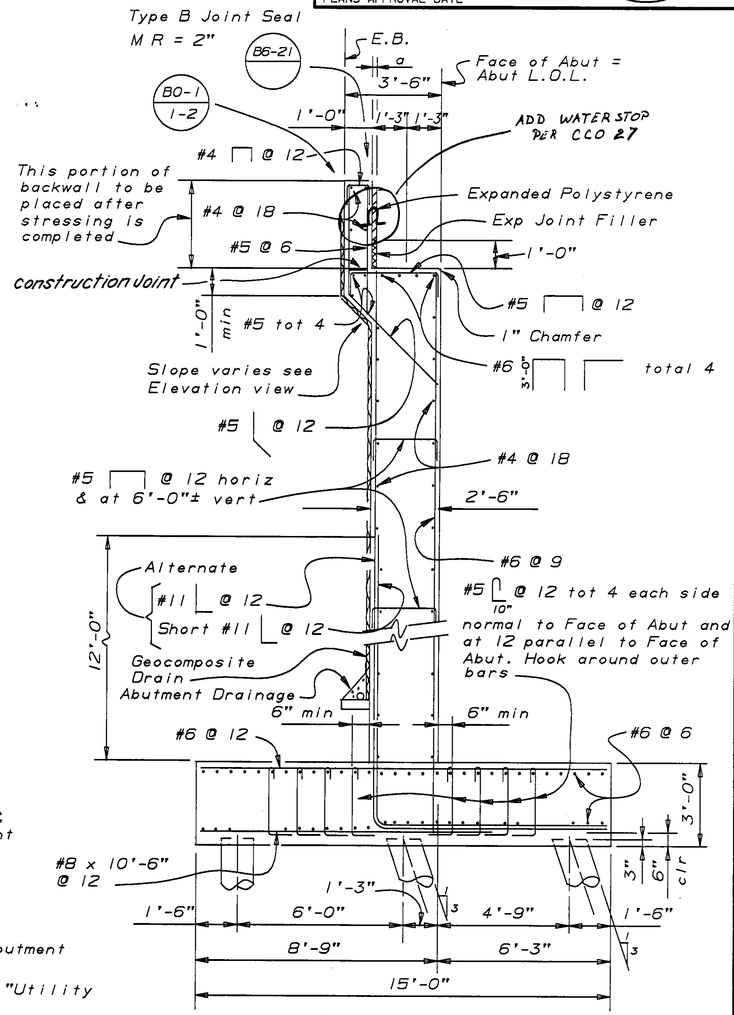
PLAN

¼" = 1'-0"



ELEVATION

¼" = 1'-0"



SECTION J-J

¾" = 1'-0"

Note

For Footing Plan see "Abutment Details No 1" sheet

For Corner Detail, Detail "B" & Bearing Pad Detail see "Abutment Details No 4" sheet

For Elevation H-H & Abutment Drainage see "Abutment Details No 5" sheet

For Internal Key Detail see "Abutment Details No 6" sheet

For Utility Opening U-4 see "Utility Opening - Box Girder" sheet

AS BUILT

CORRECTIONS BY DAVID VALLEJOS

CONTRACT NO. 06-342934

DATE 4-16-93 VHH 6/6/94

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTRACTING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	BY Clark Peri 8-90	CHECKED R.E.Bateman 9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 2	BRIDGE NO. 42-183
DETAILS	BY K-C-B 8-90	CHECKED R.E.Bateman 9-90			POST MILE 24.4
QUANTITIES	BY Clark Peri 9-90	CHECKED R.E.Bateman 9-90		CU 06 EA 342931	

CLINTON AVE O.C. (WIDEN)
ABUTMENT 6 LAYOUT

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 8-14-90, 10-01-90, 11-21-90, 11-30-90, 12-03-90

SHEET 5 OF 29

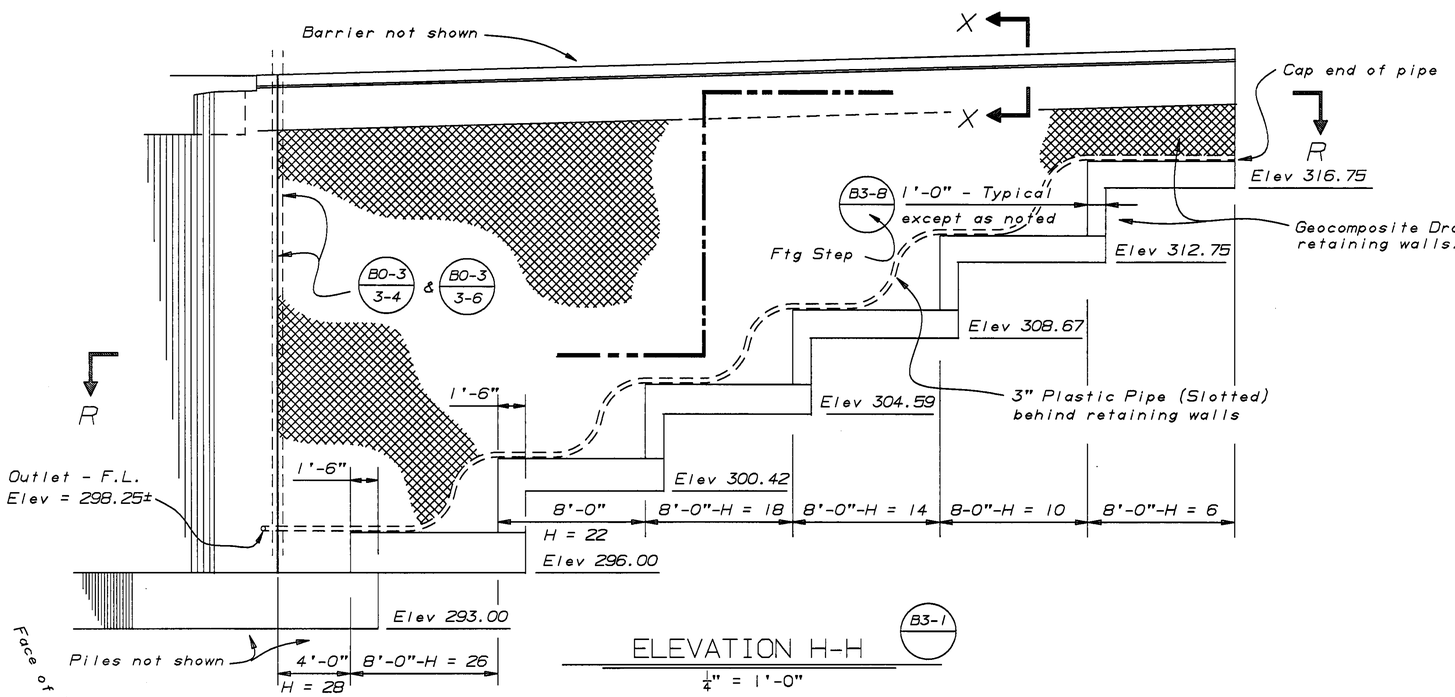
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	24.4, 26.6	124	199

John Fujimoto
REGISTERED ENGINEER - CIVIL

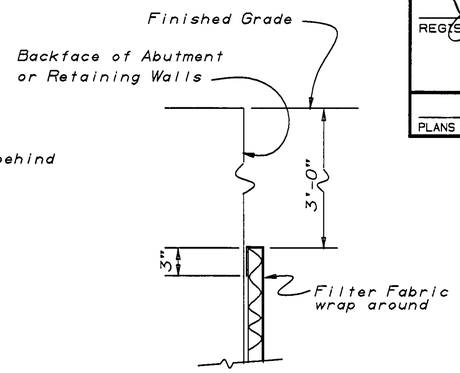
REGISTERED PROFESSIONAL ENGINEER
J Fujimoto
No. 43943
Exp. 06-30-93
CIVIL
STATE OF CALIFORNIA

3-11-91
PLANS APPROVAL DATE

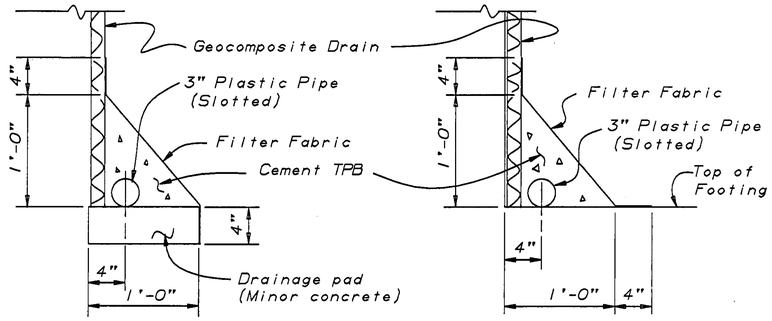


ELEVATION H-H (B3-1)

1/4" = 1'-0"



AT TOP

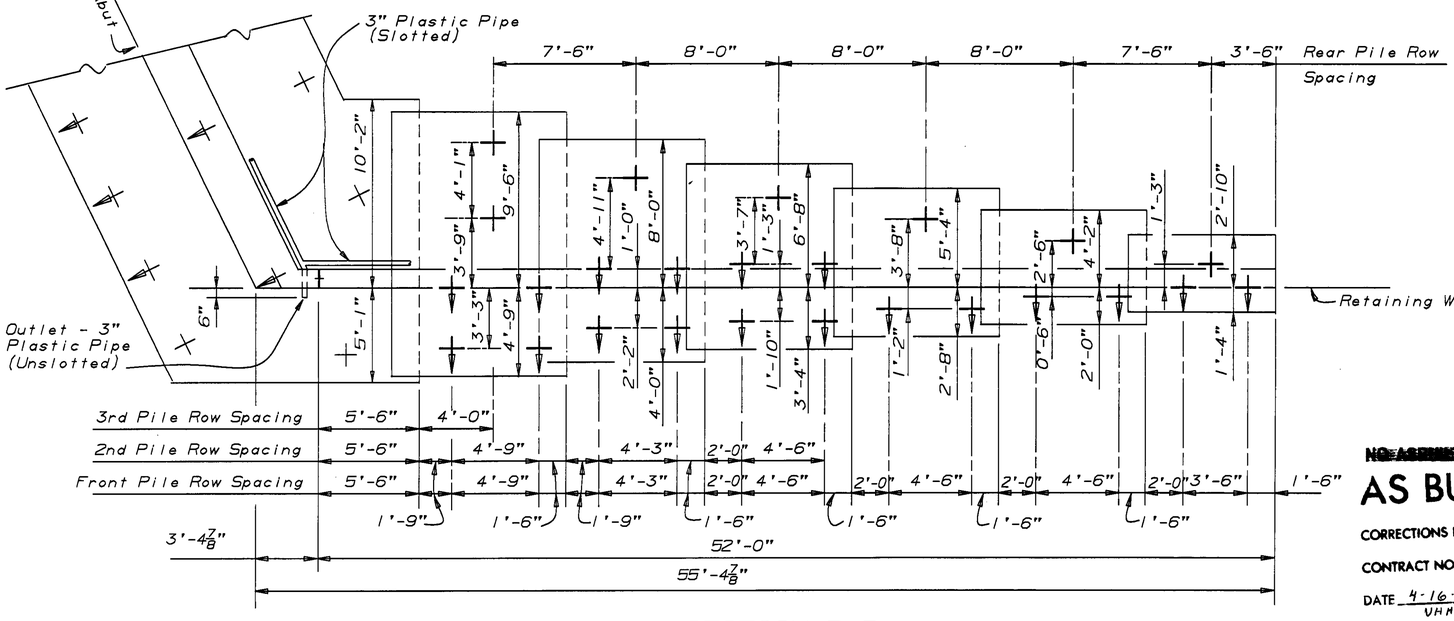


AT BOTTOM WITHOUT FOOTING

AT BOTTOM WITH FOOTING

ABUTMENT DRAINAGE

1 1/2" = 1'-0"



SECTION R-R

1/4" = 1'-0"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

~~NO AS-BUILT CHANGES~~

AS BUILT

CORRECTIONS BY DAVID VALLEJOS

CONTRACT NO. 06-342934

DATE 4-16-93
VHH 6/6/94

Note:
For location of Elevation H-H see "Abutment 6 Layout" sheet
For Section X-X see "Abutment Details No 3" sheet
+ Indicates vertical pile
⫩ Indicates battered pile, battered 1:3

Geocomposite drain, cement treated permeable base and 3" Ø slotted plastic pipe are continuous behind retaining walls or abutments. Cap ends of pipe. Pipe bends to be 30" minimun radius

"NO AS-BUILT CORRECTIONS"

DESIGN	BY Clark Peri	8-90	CHECKED R.E.Bateman	9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY K-C-B	8-90	CHECKED R.E.Bateman	9-90	DIVISION OF STRUCTURES STRUCTURE DESIGN 2
QUANTITIES	BY Clark Peri	9-90	CHECKED R.E.Bateman	9-90	

BRIDGE NO. 42-183
POST MILE 24.4

CLINTON AVE O.C. (WIDEN)
ABUTMENT DETAILS NO 5

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06
EA 342931

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 8-24-90 | 09-21-90 | 10-02-90 | 11-26-90

SHEET 10 OF 29

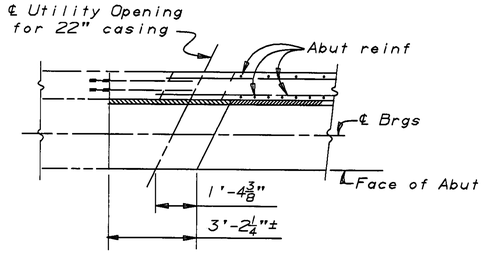
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	24.4, 26.6	123	199

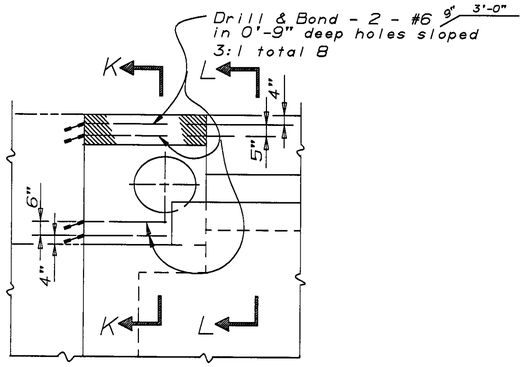
John Fujimoto
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — J Fujimoto, No. 43943, Exp. 06-30-93, CIVIL, STATE OF CALIFORNIA

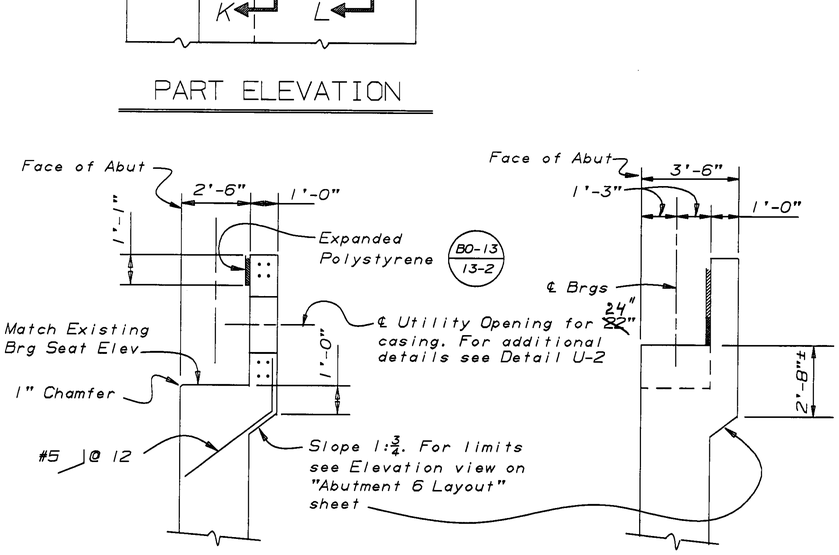
3-11-91
PLANS APPROVAL DATE



PART PLAN



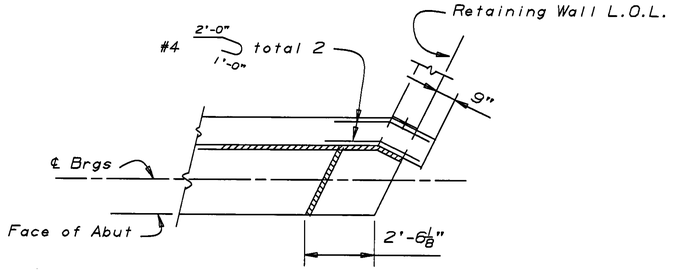
PART ELEVATION



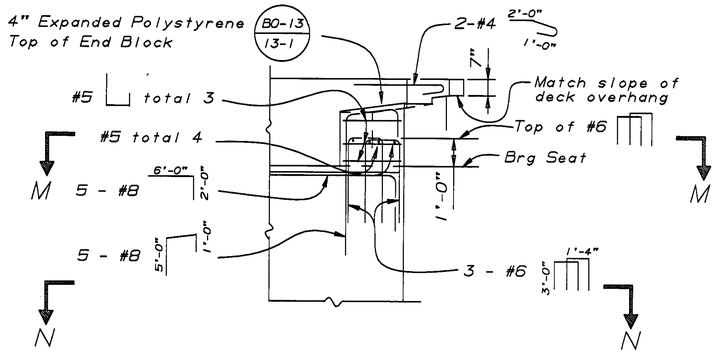
SECTION K-K — SECTION L-L

DETAIL "B"

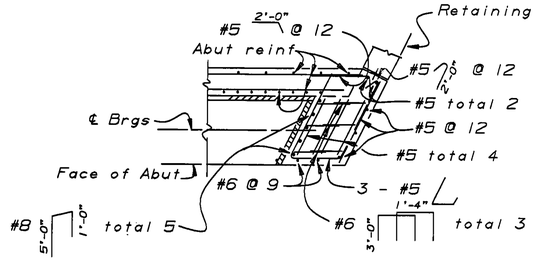
¾" = 1'-0"



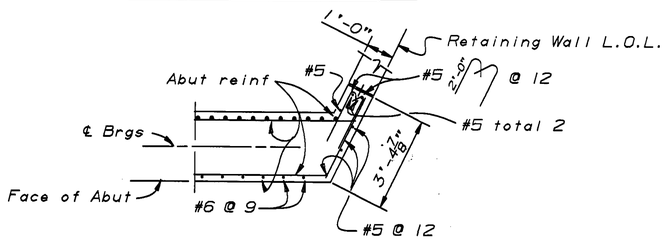
PART PLAN



PART ELEVATION



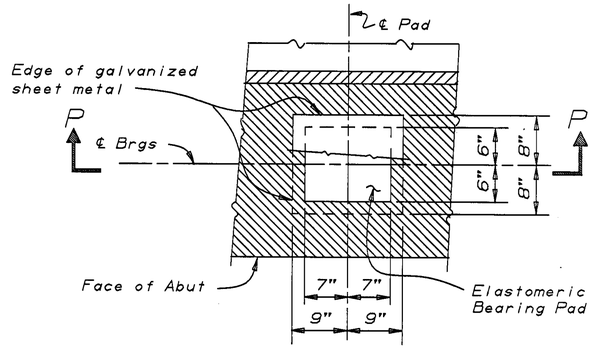
SECTION M-M



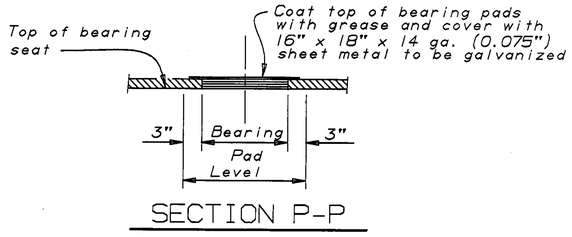
SECTION N-N

CORNER DETAIL - ABUT 6

¾" = 1'-0"



PLAN



SECTION P-P

BEARING PAD DETAIL

1" = 1'-0"

Note:
For location of Corner Detail - Abut 6 and Detail "B" see "Abutment 6 Layout" sheet

AS BUILT

CORRECTIONS BY DAVID VALLEJOS

CONTRACT NO. 06-342934

DATE 4-16-93
VHH 6/6/94

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

	BY		CHECKED	
DESIGN	Clark Peri	8-90	R.E.Bateman	9-90
DETAILS	K-C-B	8-90	R.E.Bateman	9-90
QUANTITIES	Clark Peri	9-90	R.E.Bateman	9-90

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 2

CU 06
EA 342931

BRIDGE NO.	CLINTON AVE O.C. (WIDEN)
42-183	ABUTMENT DETAILS NO 4
POST MILE 24.4	

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 8-29-90, 9-24-90, 10-02-90, 11-21-90, 11-29-90

SHEET 9 OF 29

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

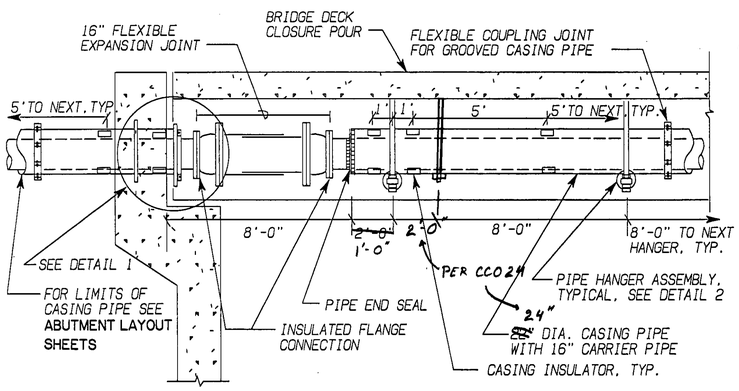
ClibPDF - www.fastio.com

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	FRE	99	24.4, 26.6	139	199

H.T. Phan
REGISTERED ENGINEER MECHANICAL

REGISTERED PROFESSIONAL ENGINEER — H.T. PHAN — No. 20269 — Exp. 9-30-92 MECH. — STATE OF CALIFORNIA

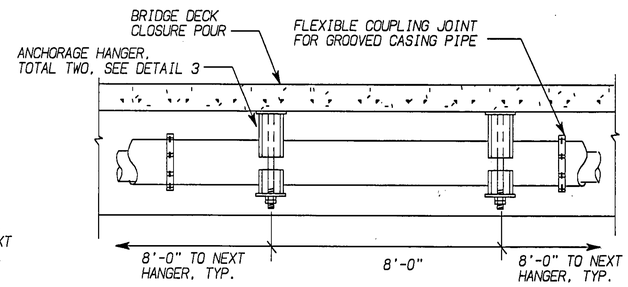
3-11-91
PLANS APPROVAL DATE



WATER ~~SUPPLY~~ LINE INSTALLATION

(TYPICAL AT ABUTMENT WALL)

NOTE : 1. EACH SECTION OF CASING PIPE (BETWEEN FLEXIBLE COUPLING JOINT) SHALL HAVE 2 HANGERS MINIMUM.
2. FLEXIBLE EXPANSION JOINT AT CLINTON BR. ABUTMENT 1 SHALL BE SET WITH MINIMUM LENGTH (FULLY RETRACTED). OTHERS SHALL BE SET IN THE MIDDLE OF EXPANSION CAPACITY.



CASING PIPE ANCHORAGE INSTALLATION

LOCATE AT MIDLENGTH OF STRUCTURE

("CLINTON" LINE STA 31+32±)

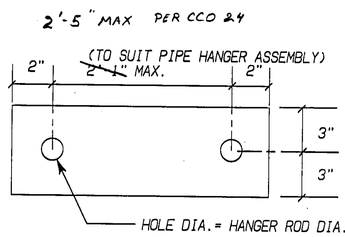
GENERAL NOTE :
1. FOR LOCATION OF PIPE SEE "TYPICAL SECTION" AND "GIRDER LAYOUT" SHEETS.
2. HANGER RODS SHALL BE CAST IN BRIDGE DECK CLOSURE POUR IN A PLUMBED POSITION
3. ALL STEEL PARTS SHALL BE GALVANIZED.
4. ALL DETAILS ARE SHOWN WITH NO SCALE
5. HANGER ROD : MINIMUM ~~1 1/4"~~ 1½" DIA. STEEL CASING PIPE (~~26"~~ 24" DIA. (3/8" THICK) GROOVED GALV. STEEL PIPE CARRIER PIPE): 16" DIA. DUCTILE IRON PIPE PER CCO 24

AS BUILT

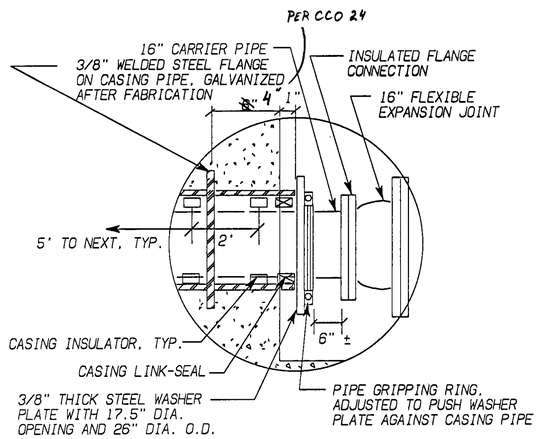
CORRECTIONS BY DAVID VALLEJOS

CONTRACT NO. 06-342934

DATE 4-16-93 VHN 6/6/94

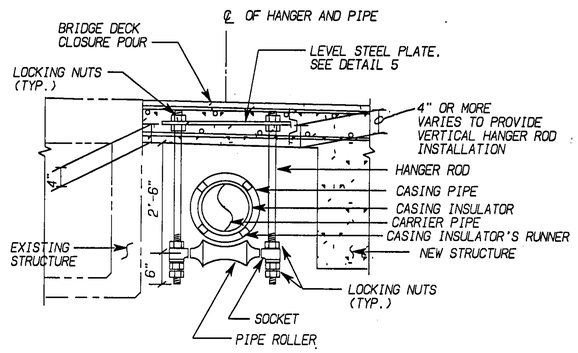


DETAIL 5: LEVEL STEEL PLATE (3/8" THICK)



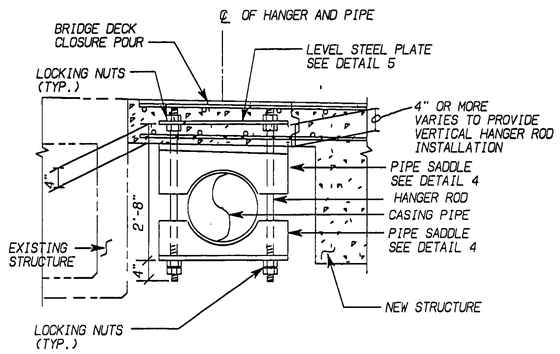
DETAIL 1: PIPE END INSTALLATION

(TYPICAL AT ABUTMENT WALL)



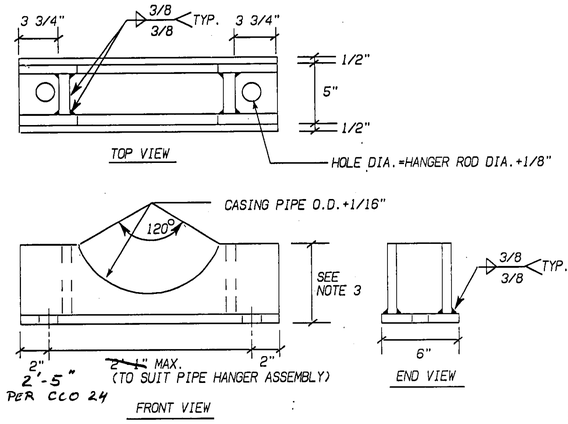
DETAIL 2: PIPE HANGER ASSEMBLY

NOTE: 1. CASING INSULATOR SHALL HAVE SPACING OF 5 FEET MAX. EXCEPT AS NOTED.
2. TWO CASING INSULATOR'S RUNNERS SHALL BE INSTALLED AND SEATED ON THE BOTTOM OF CASING PIPE.



DETAIL 3: ANCHORAGE HANGER

NOTE: 1. CARRIER PIPE AND CASING INSULATOR ARE NOT SHOWN FOR CLARITY.
2. CASING PIPE SHALL BE SECURED TIGHT WITH ANCHORAGE HANGERS.



DETAIL 4: PIPE SADDLE

NOTE : 1. ALL COMPONENTS ARE 3/8" THICK STEEL PLATE.
2. GALVANIZE PIPE SADDLE AFTER FABRICATION
3. HEIGHT OF SADDLE SHALL BE DETERMINED TO PROVIDE ALIGNED PIPE INSTALLATION.

STRUCTURAL REVIEW
BY : John Fujimoto 11/30/00 DATE

	BY		CHECKED
DESIGN	peter Chen	11/90	H. Phan
DETAILS	peter Chen	11/90	H. Phan
QUANTITIES	peter Chen	11/90	H. Phan

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
ELECTRICAL-MECHANICAL-SANITARY DESIGN

BRIDGE NO. 42-183
POST MILE 24.4

CLINTON AVE O.C. (WIDEN)
WATER LINE DETAILS

SHEET

DS OSD 2171 -E (5/89) 88 53334

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06
EA 342931

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): ~~11/19/90~~ ~~1/28/91~~ 11/30/00

SHEET 25 OF 29

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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	24.4, 26.6	137	199

John Fujimoto
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER
J Fujimoto
No. 43943
Exp. 06-30-93
CIVIL
STATE OF CALIFORNIA

3-11-91
PLANS APPROVAL DATE

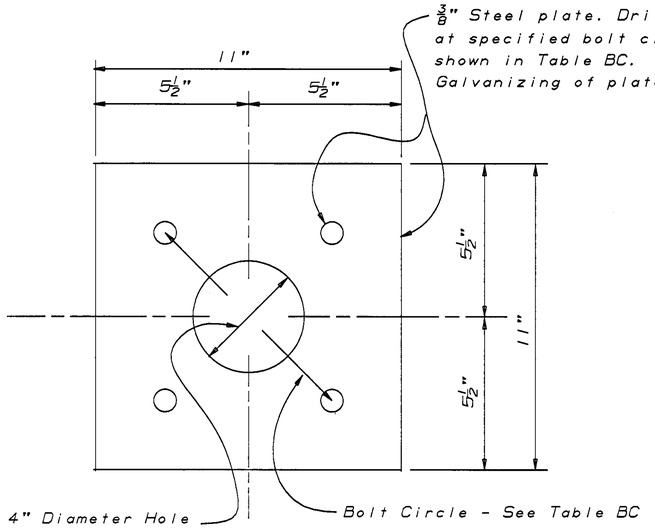
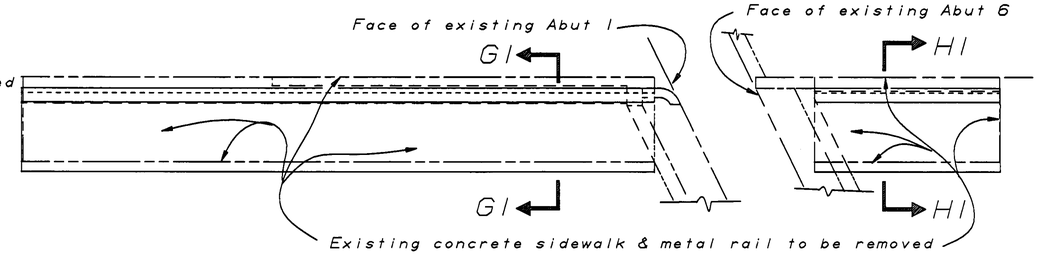


TABLE BC

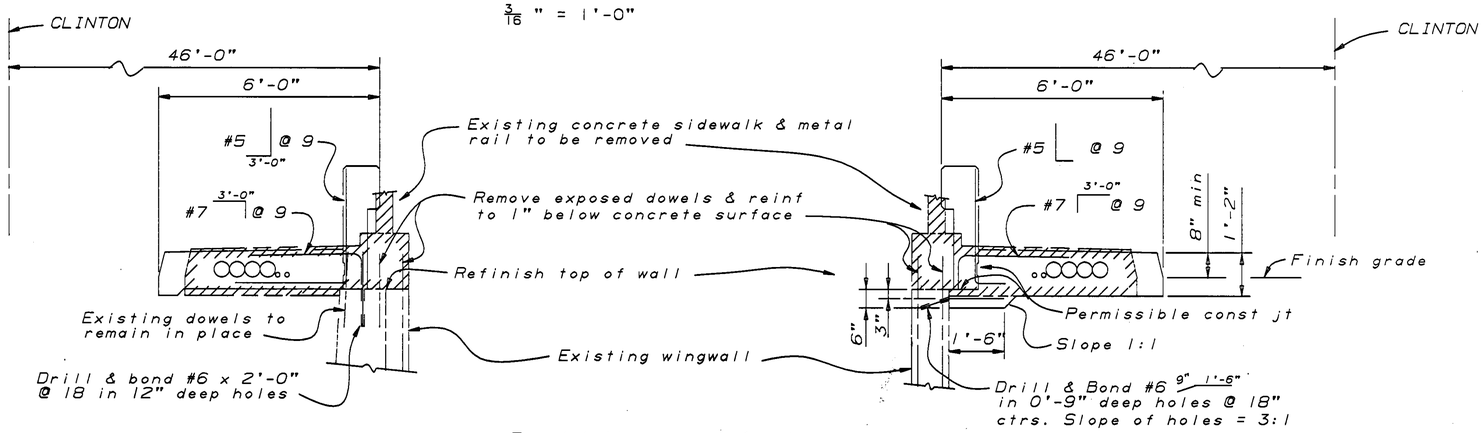
Type	Bolt Circle	Anchor Bolt Diameter
15	8½"	¾"

ANCHOR PLATE - TYPE 1-A SIGNAL STANDARD



PART PLAN

3/16 " = 1'-0"



SECTION G1 -G1

½" = 1'-0"

For details and reinf not shown see B11-54

SECTION H1-H1

½" = 1'-0"

CONCRETE BARRIER TYPE 26A (MODIFIED)

SPECIAL DETAIL

NOTE: This special Detail supersedes "ANCHOR PLATE" on Sheet No ES-7B, page No. 232, of the STANDARD PLANS dated January 1988

For details of Signal Standard see ES-6A Type 1-A Standard

Use reinforcement at Signal Standard base as shown for Electrolier on B11-53

AS BUILT

CORRECTIONS BY DAVID VALLEJOS
CONTRACT NO. 06-342934
DATE 4-16-99 VHN 6/6/94

"NO AS-BUILT CORRECTIONS"
NO ASBUILT CHANGES

DESIGN	BY Clark Peri	10-90	CHECKED R.E.Bateman	9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY K-C-B	10-90	CHECKED R.E.Bateman	9-90	DIVISION OF STRUCTURES STRUCTURE DESIGN 2
QUANTITIES	BY Clark Peri	9-90	CHECKED R.E.Bateman	9-90	

BRIDGE NO. 42-183
POST MILE 24.4

CLINTON AVE O.C. (WIDEN)
MISCELLANEOUS DETAILS

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06
EA 342931

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 10-14-90, 10-18-90, 11-29-90

SHEET 23 OF 29

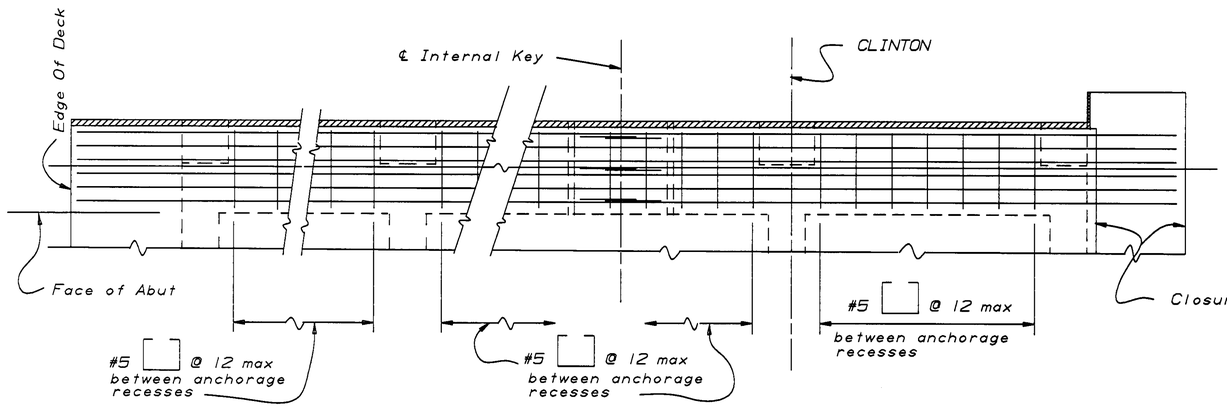
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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	24.4, 26.6	136	199

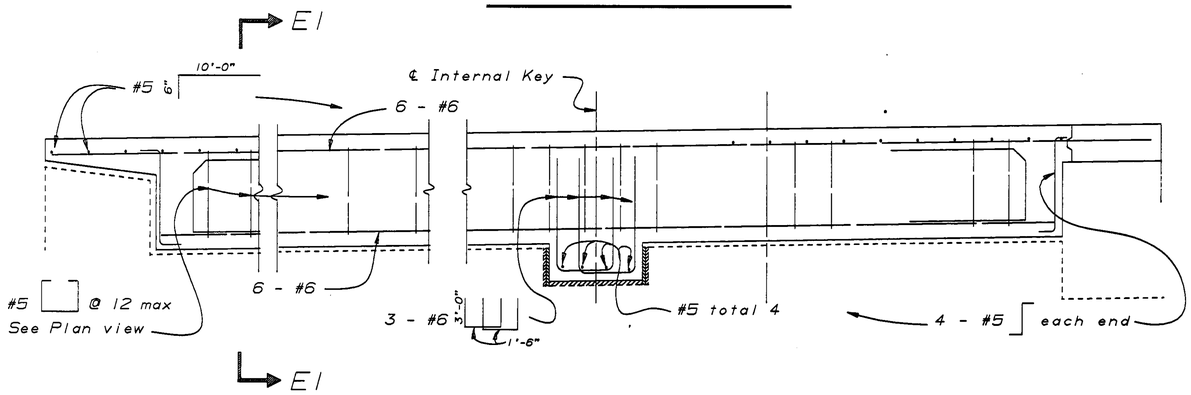
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — J Fujimoto, No. 43943, Exp. 06-30-93, CIVIL, STATE OF CALIFORNIA

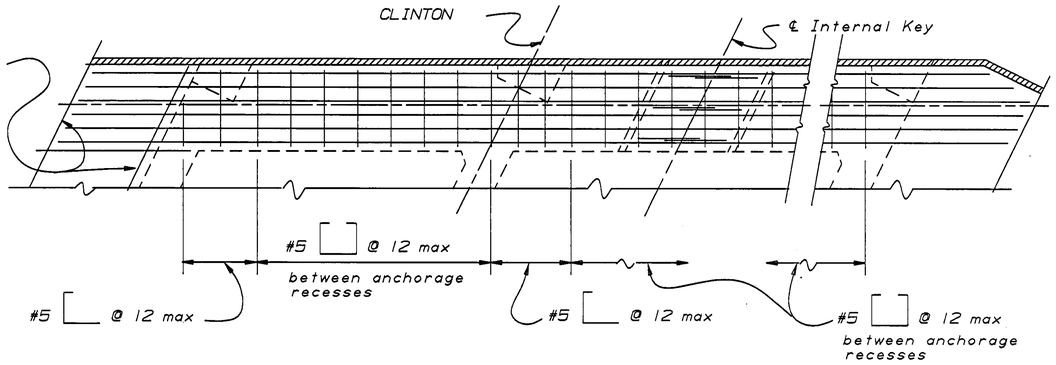
3-11-91
PLANS APPROVAL DATE



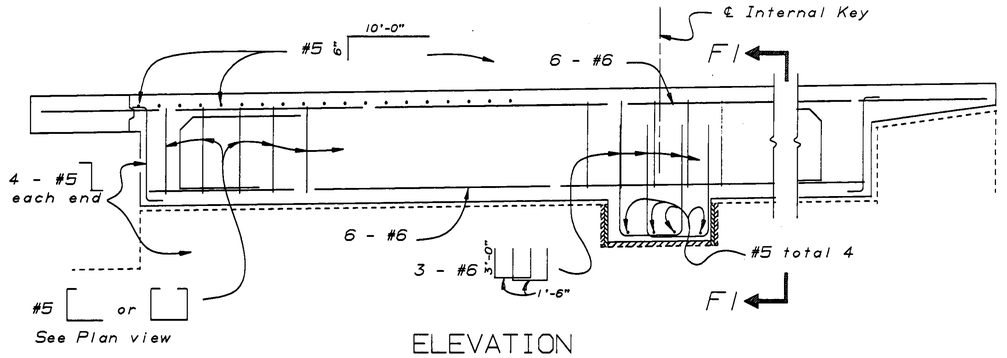
PLAN



ELEVATION



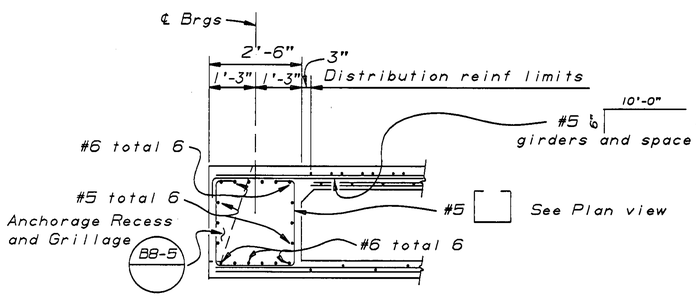
PLAN



ELEVATION

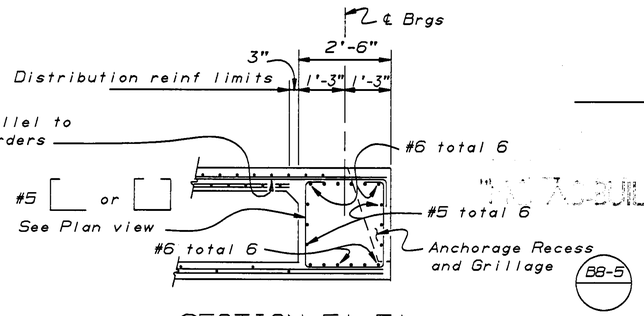
END DIAPHRAGM - ABUT 1 END

½" = 1'-0"



SECTION E1-E1

½" = 1'-0"



SECTION F1-F1

½" = 1'-0"

END DIAPHRAGM - ABUT 6 END

½" = 1'-0"

NO ASBUILT CHANGES

"AS" BUILT CORRECTIONS

AS BUILT

CORRECTIONS BY DAVID VALLEJOS

CONTRACT NO. 06-342934

DATE 4-16-93 VHH 6/6/94

Note:
For location and type of utility openings through end diaphragms see "Girder Layout" sheet

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	BY Clark Peri	8-90	CHECKED R.E.Bateman	9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY K-C-B	9-90	CHECKED R.E.Bateman	9-90	
QUANTITIES	BY Clark Peri	9-90	CHECKED R.E.Bateman	9-90	

DIVISION OF STRUCTURES
STRUCTURE DESIGN 2

CU 06
EA 342931

BRIDGE NO. 42-183
POST MILE 24.4

CLINTON AVE O.C. (WIDEN)
END DIAPHRAGM DETAILS

DS 050 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 9-17-90, 10-26-90, 11-27-90

SHEET 22 OF 29

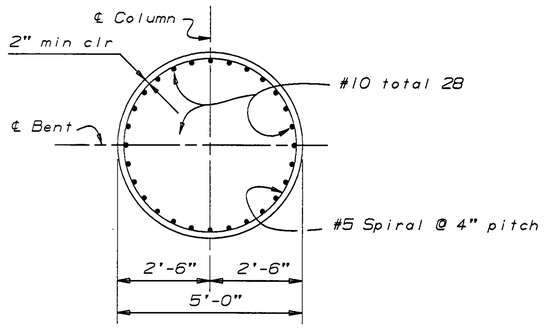
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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	24.4, 26.6	130	199

REGISTERED ENGINEER - CIVIL

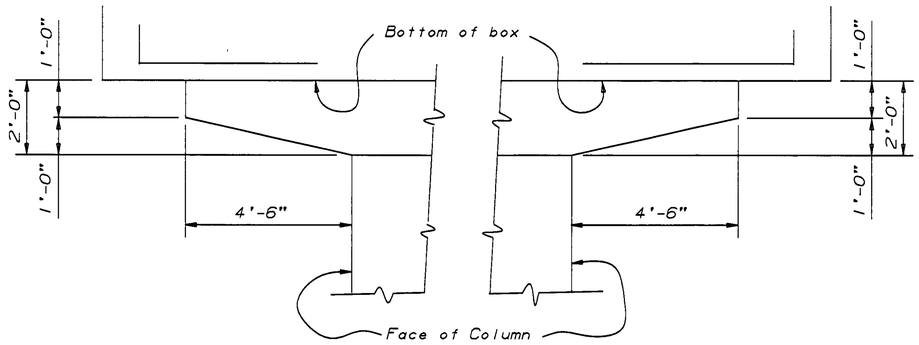
REGISTERED PROFESSIONAL ENGINEER — J Fujimoto — No. 43943 — Exp. 06-30-93 — CIVIL — STATE OF CALIFORNIA

3-11-91
PLANS APPROVAL DATE



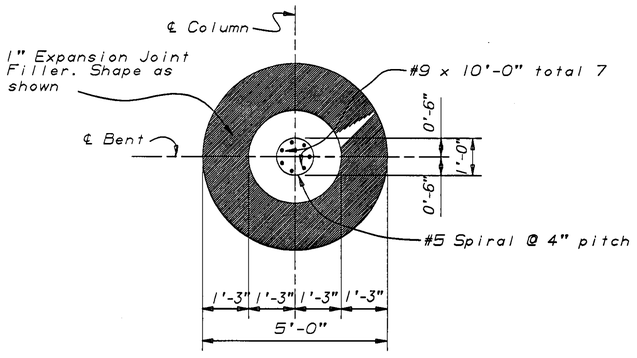
SECTION U-U

½" = 1'-0"



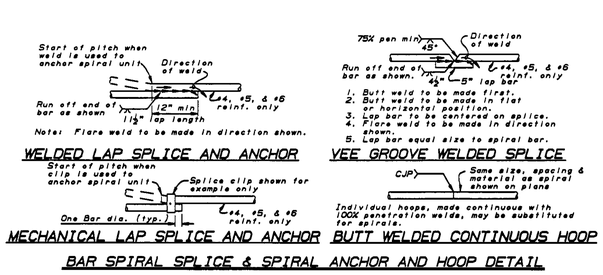
END OF CAP DETAIL

½" = 1'-0"

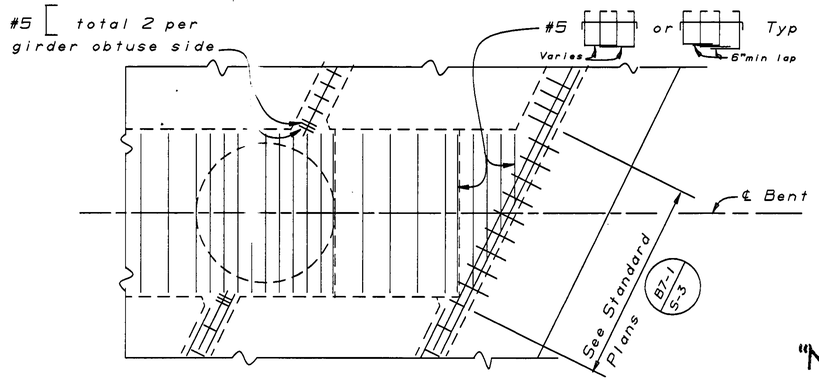


SECTION V-V

½" = 1'-0"

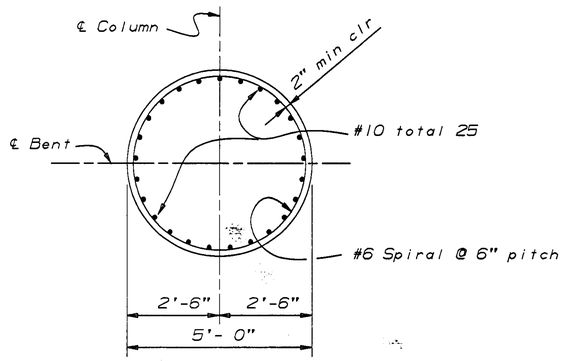


BAR SPIRAL SPLICE & SPIRAL ANCHOR AND HOOP DETAIL



DETAIL "D"

3/8" = 1'-0"



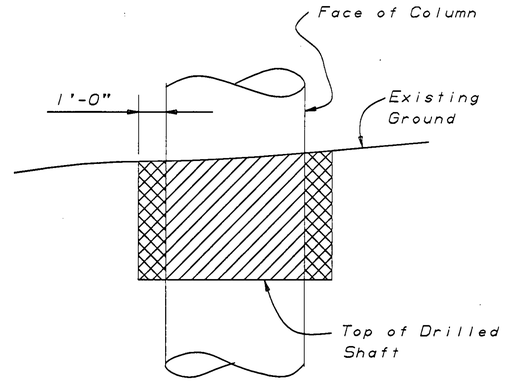
SECTION Z-Z

½" = 1'-0"

Note

For location of Sections U-U, V-V and Z-Z and End of Cap Detail see "Bent Detail No 1" "Bent Detail No 2" and "Bent Detail No 3" sheets

For location of Detail "D" see "Bents No 4 & 5 Details" sheet



PAY LIMITS FOR STRUCTURE EXCAVATION AND BACKFILL AT BENTS

Structure Excavation

Structure Backfill

"NO AS-BUILT CORRECTIONS"

~~NO AS-BUILT CHANGES~~ AS BUILT ~~NO AS-BUILT CHANGES~~

CORRECTIONS BY DAVID VALLEJOS

CONTRACT NO. 06-342934

DATE 4-16-93
VHN 6/6/94

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	BY Clark Peri	8-90	CHECKED R.E.Bateman	9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY K-C-B	9-90	CHECKED R.E.Bateman	9-90	
QUANTITIES	BY Clark Peri	9-90	CHECKED R.E.Bateman	9-90	

DIVISION OF STRUCTURES
STRUCTURE DESIGN 2

BRIDGE NO. 42-183
POST MILE 24.4

CLINTON AVE O.C. (WIDEN)
MISCELLANEOUS BENT DETAILS

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06
EA 342931

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 3-16-90 | 10-24-90 | 11-25-90

SHEET 16 OF 29

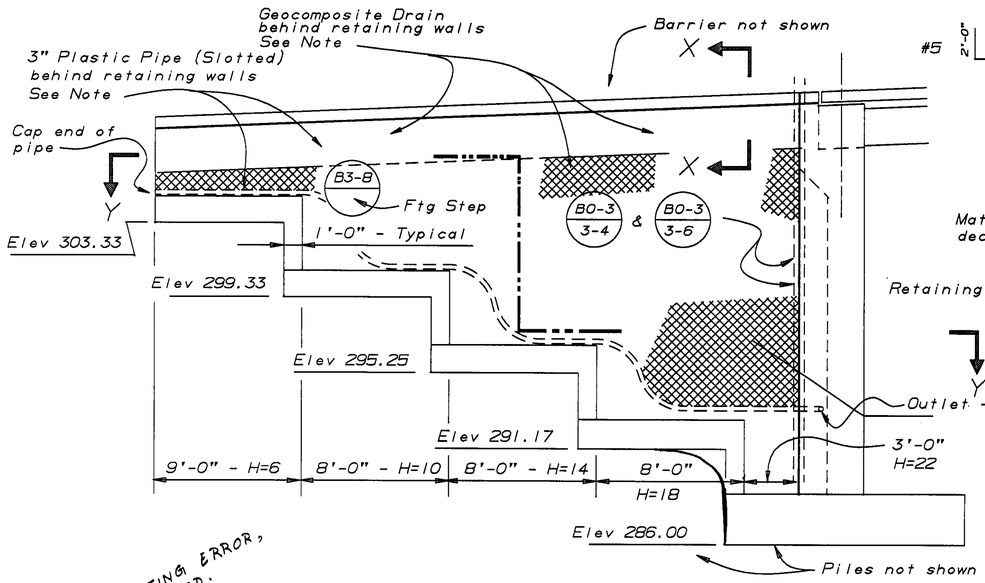
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	24.4,26.6	122	199

John Fujimoto
REGISTERED ENGINEER - CIVIL

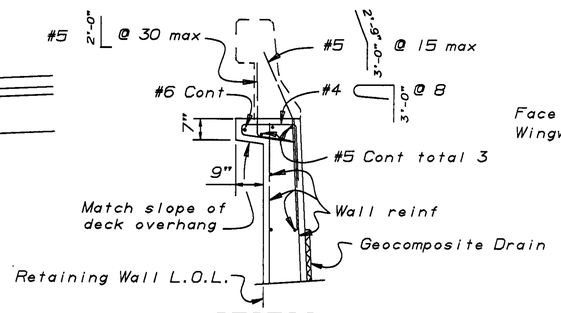
REGISTERED PROFESSIONAL ENGINEER
J Fujimoto
No. 43943
Exp. 06-30-93
CIVIL
STATE OF CALIFORNIA

3-11-91
PLANS APPROVAL DATE



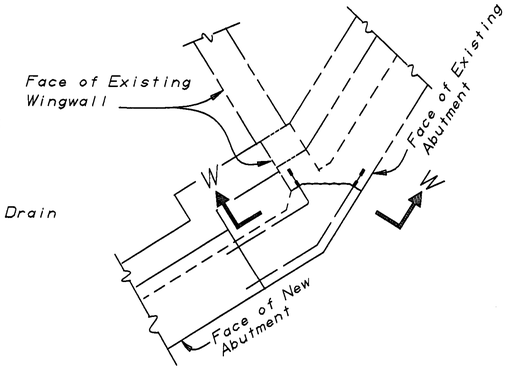
ELEVATION A-A

$\frac{1}{4}$" = 1'-0"



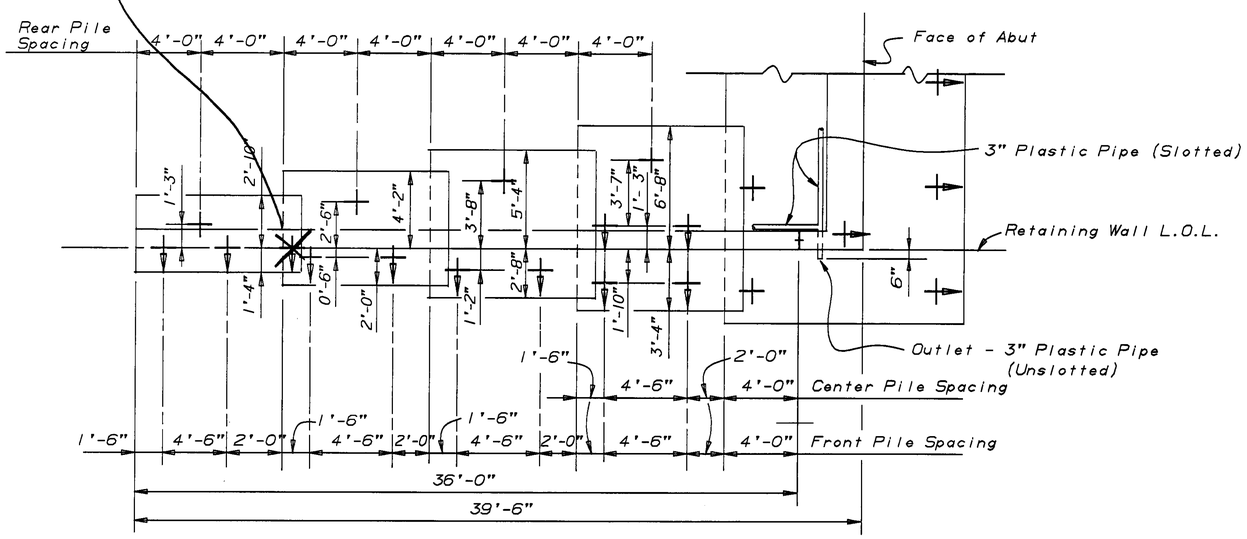
SECTION X-X

$\frac{1}{2}$" = 1'-0"



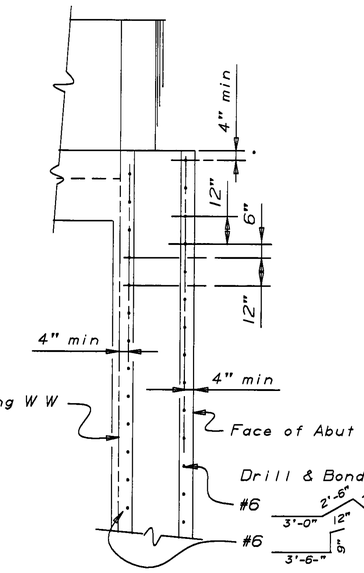
PART PLAN

DRAFTING ERROR, OMITTED. PER O.S.D.



SECTION Y-Y

$\frac{1}{4}$" = 1'-0"



SECTION W-W

DETAIL "C"

$\frac{3}{8}$" = 1'-0"

Note

For location of Elevation A-A & Detail "C" see "Abutment 1 Layout" sheet

+ Indicates vertical pile

+ Indicates battered pile, battered 1:3

For additional drainage details see "Abutment Details No 5" sheet

AS BUILT

CORRECTIONS BY DAVID VALLEJOS

CONTRACT NO. 06-342934

DATE 4-16-93 VHH 6-6-94

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	BY Clark Peri 7-90	CHECKED R.E.Bateman 9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 2	BRIDGE NO. 42-183
DETAILS	BY K-C-B 7-90	CHECKED R.E.Bateman 9-90			POST MILE 24.4
QUANTITIES	BY Clark Peri 9-90	CHECKED R.E.Bateman 9-90		CU 06 EA 342931	

CLINTON AVE O.C. (WIDEN)

ABUTMENT DETAILS NO 3

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 7-27-90 08-03-90 09-19-90 10-02-90 11-21-90

SHEET 8 OF 29

ClibPDF - www.fastio.com

FED ROAD DIST. No.	STATE	PROJ No	FISCAL YEAR	SHEET No	TOTAL SHEETS
2	CAL.			35	

To Accompany Plans Dated 3-11-91

DIST	COUNTY	ROUTE	SECTION	SHEET No	TOTAL SHEETS
VI	Fre	99		19	72

R.C. Wilhelms
APPROVED October 11, 1990

DIST.	COUNTY	ROUTE	POST MILES - TOTAL PROJECT	Sheet No.	Total Sheets
06	Fre	99	24.4, 26.6	143	199

ENGINEERING GEOLOGY BRANCH - TRANSPORTATION MATERIALS & RESEARCH

R.C. Wilhelms
CERTIFIED ENGINEERING GEOLOGIST

CLINTON AVE. O.C. (WIDEN)

LOG OF TEST BORINGS 4 OF 4

NOTE: THIS LOG OF TEST BORINGS IS AVAILABLE ON MICROFILM AT OFFICE OF STRUCTURES DESIGN SACRAMENTO, CALIFORNIA

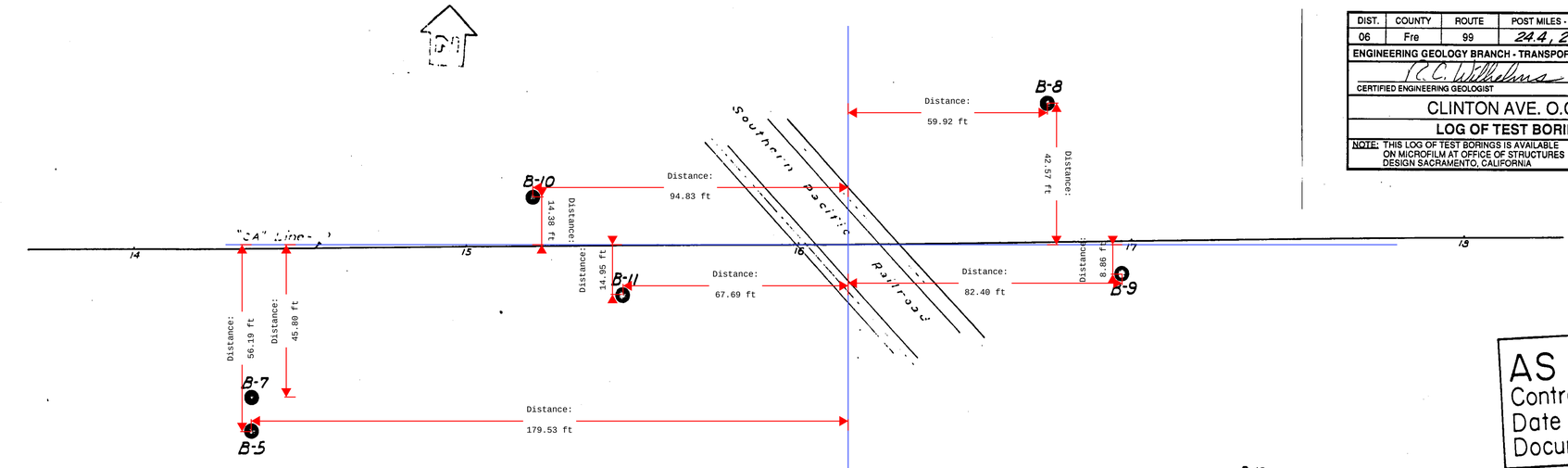
CU: 06
EA: 342931

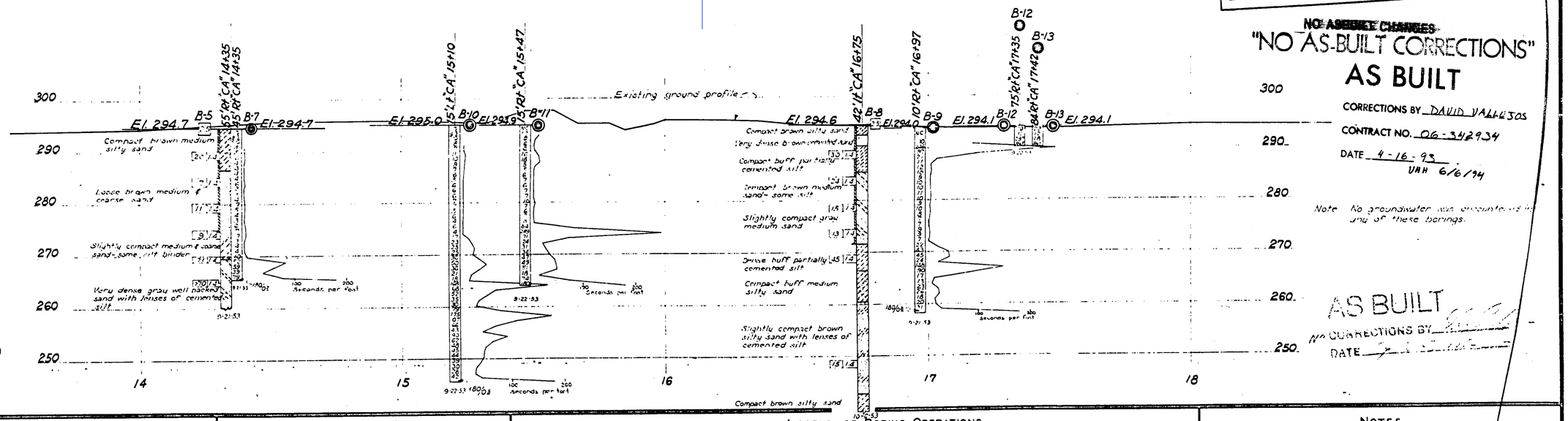
BRIDGE No. 42-183

REGISTERED GEOLOGIST
R.C. WILHELMS
No. 560
Exp. 6-30-92
CERTIFIED ENGINEERING GEOLOGIST
STATE OF CALIFORNIA

AS BUILT PLANS
Contract No. 55-14TC24
Date Completed
Document No. 60000991

NO ASBUILT CHANGES
"NO AS-BUILT CORRECTIONS"
AS BUILT
CORRECTIONS BY DAVID VALLEJOS
CONTRACT NO. 06-342934
DATE 4-16-93
UAH 6/6/94





Note No groundwater was encountered in any of these borings.

AS BUILT
NO CORRECTIONS BY
DATE

BM No 10A
R.R. Spike in tel. pole
at mile 214.30+37 (1945 Survey)
Elev 299.76

CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS

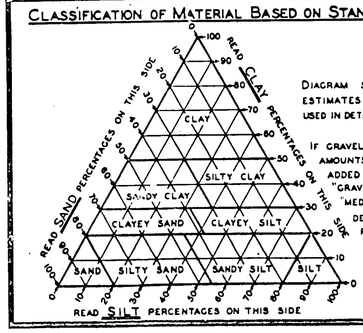


DIAGRAM SHOWING THE BASIS FOR ESTIMATES OF GRADE SIZE DISTRIBUTION USED IN DETERMINATION OF CLASS NAMES

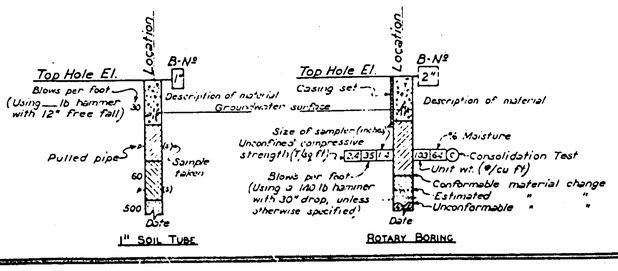
IF GRAVEL IS PRESENT IN APPRECIABLE AMOUNTS THE TERM "GRAVELLY" MAY BE ADDED TO THE CLASS NAME, VIS. "GRAVELLY SAND," THE TERMS "COARSE," "MEDIUM" AND "FINE" WHEN USED TO DESCRIBE GRAVEL, SAND AND SILT REFER TO STANDARD GRADE SIZE LIMITS.

LEGEND OF EARTH MATERIALS

- GRAVEL
- SAND
- SILT
- CLAY
- SANDY CLAY OR CLAYEY SAND
- SANDY SILT OR SILTY SAND
- SILTY CLAY OR CLAYEY SILT
- PEAT AND/OR ORGANIC CLAY
- FILLED MATERIAL
- IGNEOUS ROCK
- SEDIMENTARY ROCK
- METAMORPHIC ROCK

LEGEND OF BORING OPERATIONS

- PLAN OF ANY BORING
- PENETROMETER
- 2½" CONE PENETROMETER
- SAMPLER BORING (DRY)
- ROTARY BORING (WET)
- AUGER BORING (DRY)
- JET BORING
- CORE BORING
- TEST PIT



NOTES

THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 2, ARTICLE (C) OF THE STANDARD SPECIFICATIONS AND TO THE SPECIAL PROVISIONS ACCOMPANYING THIS SET OF PLANS. CLASSIFICATION OF EARTH MATERIAL AS SHOWN ON THIS SHEET IS BASED UPON FIELD INSPECTION AND IS NOT TO BE CONSTRUED TO IMPLY MECHANICAL ANALYSIS.

PENETROMETER BORINGS HAVING A RATE OF PENETRATION MEASURED IN SECONDS PER FOOT ARE DRIVEN WITH A No 2 McKIERNAN-TERRY AIR HAMMER AT 115 PSI.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CLINTON AVENUE OVERCROSSING
FRESNO YARD OVERCROSSING

LOG OF TEST BORINGS (2 of 2)

SCALE HORIZ.	VERT.	BRIDGE	FILL	DRAWING
1"=20'	1"=10'	42-183 42-191		19

3413 40'

SHEET	OF
29	29

ClibPDF - www.fastio.com

U-0194(1)

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2	CAL.			169	199

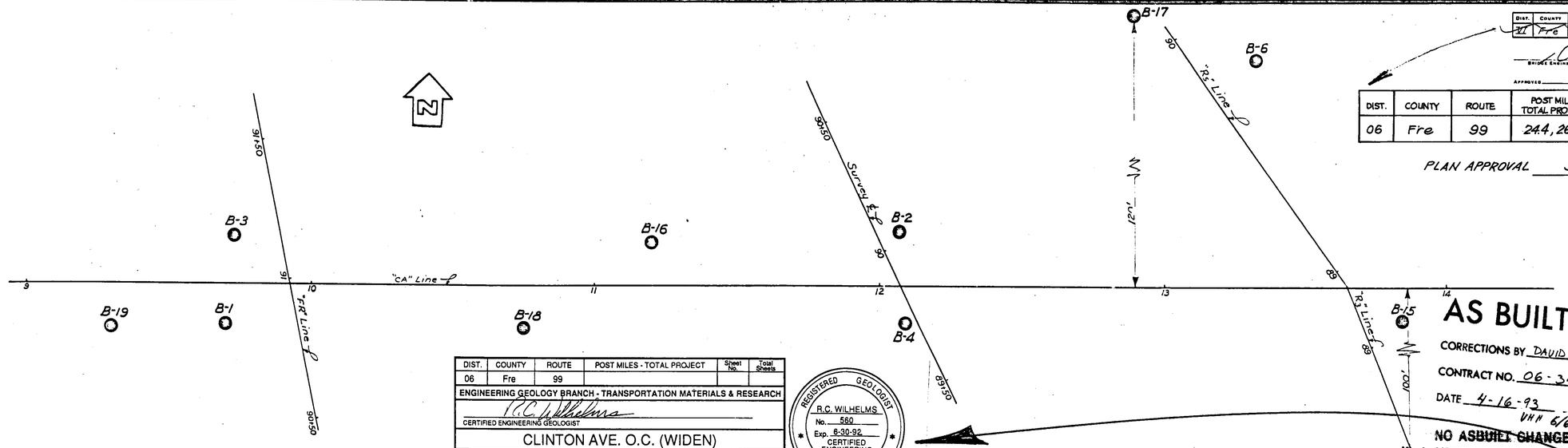
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
21	Fre			18	21

BRIDGE ENGINEER — CIVIL ENGINEER—LICENSE 5585

APPROVED April 26, 1954

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	24.4, 26.6	142	199

PLAN APPROVAL 3-11-91



DIST.	COUNTY	ROUTE	POST MILES - TOTAL PROJECT	Sheet No.	Total Sheets
06	Fre	99			

ENGINEERING GEOLOGY BRANCH - TRANSPORTATION MATERIALS & RESEARCH

R.C. Wilhelms
CERTIFIED ENGINEERING GEOLOGIST

CLINTON AVE. O.C. (WIDEN)

LOG OF TEST BORINGS 3 OF 4

NOTE: THIS LOG OF TEST BORINGS IS AVAILABLE ON MICROFILM AT OFFICE OF STRUCTURES DESIGN SACRAMENTO, CALIFORNIA

CU: 06
EA: 342931

BRIDGE No. 42-183

REGISTERED GEOLOGIST
R.C. WILHELMS
No. 560
Exp. 6-30-92
CERTIFIED ENGINEERING GEOLOGIST
STATE OF CALIFORNIA

AS BUILT

CORRECTIONS BY DAVID VALLEJOS

CONTRACT NO. 06-342934

DATE 4-16-93

VHH 6/6/94

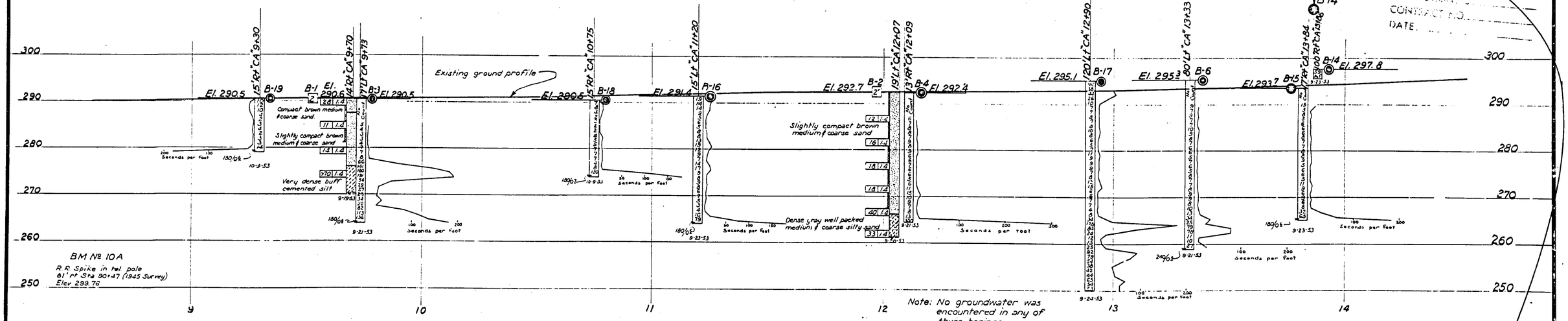
NO ASBUILT CHANGES

"NO AS-BUILT CORRECTIONS"

CORRECTIONS BY

CONTRACT NO.

DATE



Note: No groundwater was encountered in any of these borings.

CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS

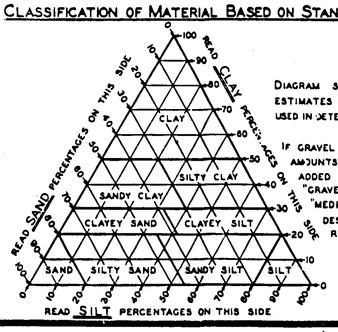


DIAGRAM SHOWING THE BASIS FOR ESTIMATES OF GRADE SIZE DISTRIBUTION USED IN DETERMINATION OF CLASS NAMES

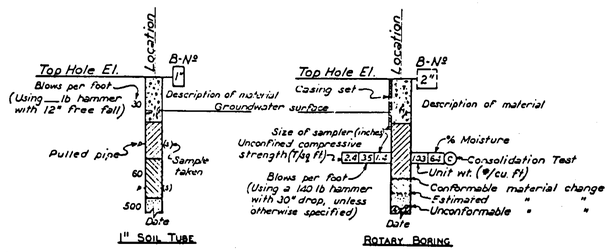
IF GRAVEL IS PRESENT IN APPRECIABLE AMOUNTS THE TERM "GRAVELLY" MAY BE ADDED TO THE CLASS NAME, VIS. "GRAVELLY SAND". THE TERMS "COARSE", "MEDIUM" AND "FINE" WHEN USED TO DESCRIBE GRAVEL, SAND AND SILT REFER TO STANDARD GRADE SIZE LIMITS.

LEGEND OF EARTH MATERIALS

- GRAVEL
- SAND
- SILT
- CLAY
- SANDY CLAY OR CLAYEY SAND
- SANDY SILT OR SILTY SAND
- SILTY CLAY OR CLAYEY SILT
- PEAT AND/OR ORGANIC CLAY
- FILLED MATERIAL
- IGNEOUS ROCK
- S DIMF. ROCK
- MET. MORF. IC ROCK

LEGEND OF BORING OPERATIONS

- PLAN OF ANY BORING
- PENETROMETER
- 2½"CONE PENETROMETER
- SAMPLER BORING (DRY)
- ROTARY BORING (WET)
- AUGER BORING (DRY)
- JET BORING
- CORE BORING
- TEST PIT



NOTES

THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 2, ARTICLE (j) OF THE STANDARD SPECIFICATIONS AND TO THE SPECIAL PROVISIONS ACCOMPANYING THIS SET OF PLANS. CLASSIFICATION OF EARTH MATERIAL AS SHOWN ON THIS SHEET IS BASED UPON FIELD INSPECTION AND IS NOT TO BE CONSTRUED TO IMPLY MECHANICAL ANALYSIS. PENETROMETER BORINGS HAVING A RATE OF PENETRATION MEASURED IN SECONDS PER FOOT ARE DRIVEN WITH A No 2 McKIERNAN-TERRY AIR HAMMER AT 115 PSI.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CLINTON AVENUE OVERCROSSING & ~~FRESNO YARD OVERCROSSING~~

LOG OF TEST BORINGS ~~1 of 2~~

SCALE: HORIZ.	1" = 20'	BRIDGE	42-183 42-191	FILE	E-42	DRAWING	B-3413-1
SCALE: VERT.	1" = 10'						

PREL. DRAWING NO. P-3413 | SHEET 28 | OF 29

AS BUILT PLANS

I HEREBY CERTIFY THAT THIS IS A TRUE AND [illegible]

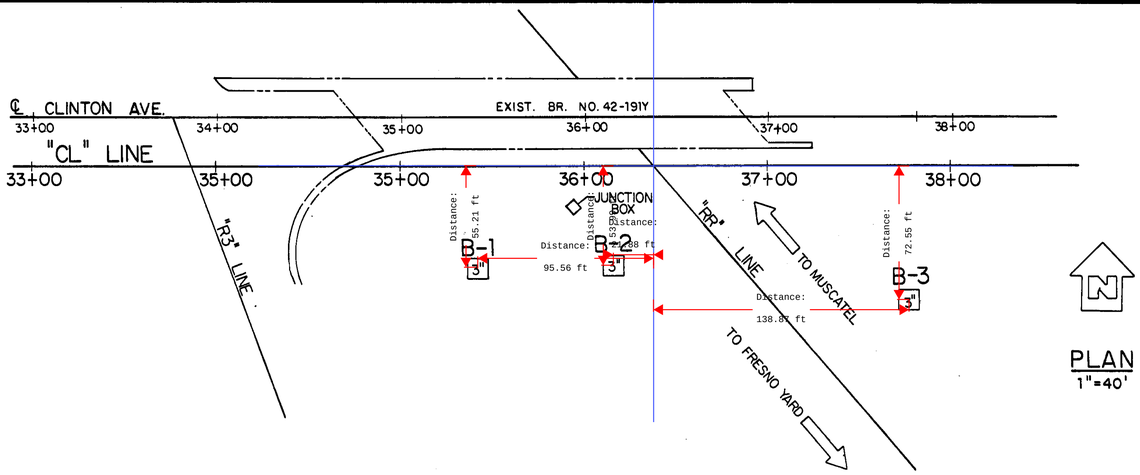
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	24.4, 26.6	141	199

R.C. Wilhelms
CERTIFIED ENGINEERING GEOLOGIST

REGISTERED GEOLOGIST — Exp. 6-30-92 — R.C. WILHELMS — No. 560 — CERTIFIED ENGINEERING GEOLOGIST — STATE OF CALIFORNIA

3-11-91
PLANS APPROVAL DATE



PLAN
1"=40'

NO ASBUILT CHANGES

"NO AS-BUILT CORRECTIONS"

AS BUILT

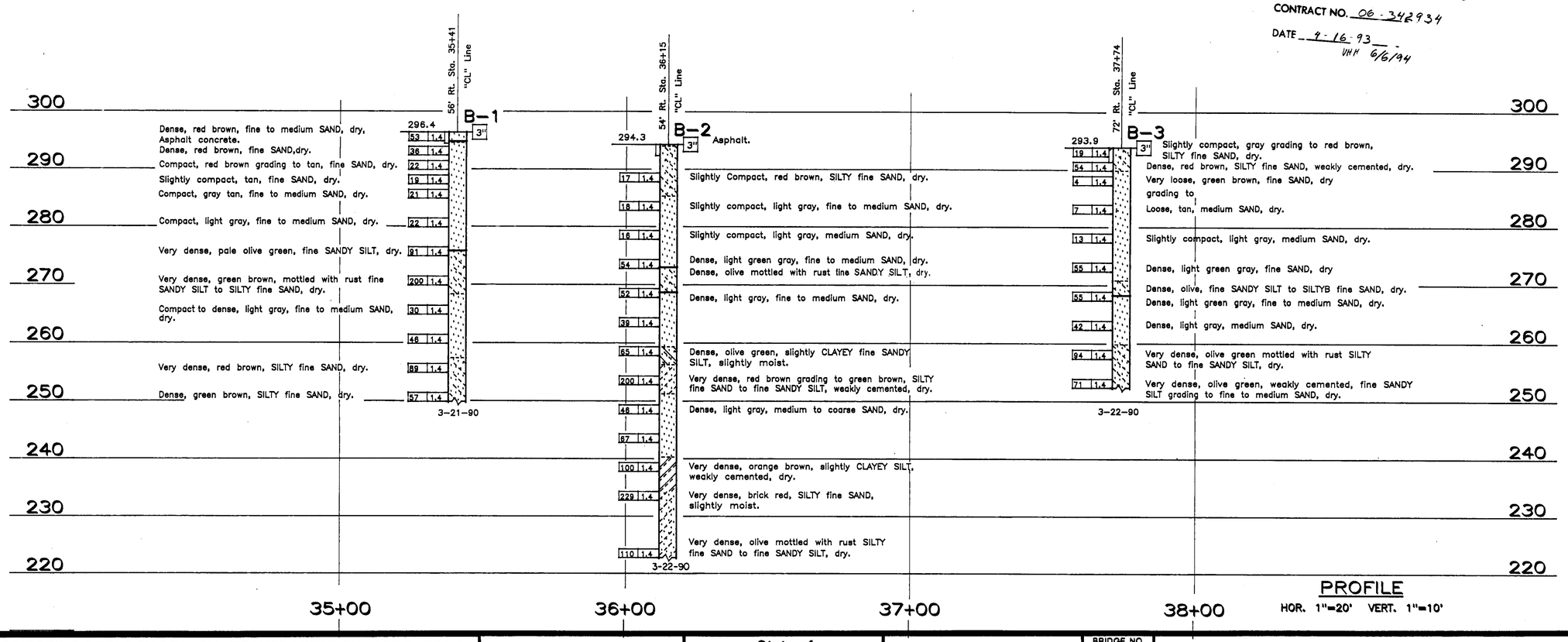
CORRECTIONS BY DAVID VALLEJOS

CONTRACT NO. 06-342934

DATE 4-16-93
VHH 6/6/94

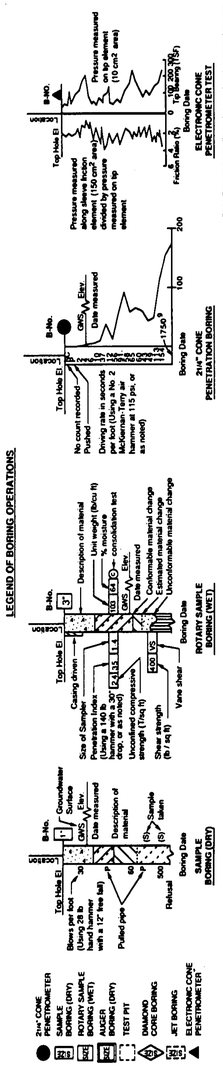
BENCH MARK

FD. USC & GS BM C-366, 1953 SE CORNER CONCRETE JCT. BOX. ELEVATION 298.96

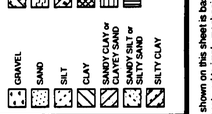


PROFILE
HOR. 1"=20' VERT. 1"=10'

LEGEND OF BORING OPERATIONS



LEGEND OF EARTH MATERIALS



CONSISTENCY CLASSIFICATION FOR SOILS
According to the Standard Penetration Test

Penetration Index (Blows / Ft)	Granular	Cohesive
0-4	Very loose	Very soft
5-9	Loose	Soft
10-19	Slightly compact	Stiff
20-34	Compact	Very stiff
35-69	Dense	Hard
>70	Very dense	Very hard

NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

ENGINEERING GEOLOGY BRANCH - TRANSPORTATION LABORATORY

DRAWN BY LEONY L. LOPEZ 4/90
CHECKED BY

John Fujimoto, PROJECT ENGINEER

State of CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 2

BRIDGE NO. 42-183
POST MILE 24.4

CLINTON AVE. O.C. (WIDEN)
LOG OF TEST BORINGS 2 OF 4

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06
EA 342931

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 10/1/90

SHEET 27 OF 29

TL 6051 REV. 4/89 89 52500

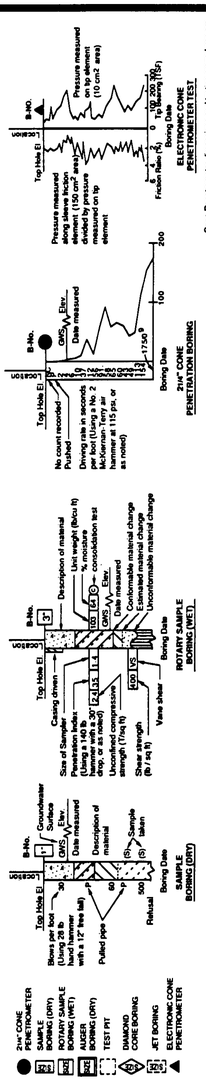
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	24.4, 26.6	140	199

R.C. Wilhelms
CERTIFIED ENGINEERING GEOLOGIST

REGISTERED GEOLOGIST — EXP. 6-30-92 — R.C. WILHELMS — No. 560 — CERTIFIED ENGINEERING GEOLOGIST — STATE OF CALIFORNIA

3-11-91
PLANS APPROVAL DATE



LEGEND OF BORING OPERATIONS

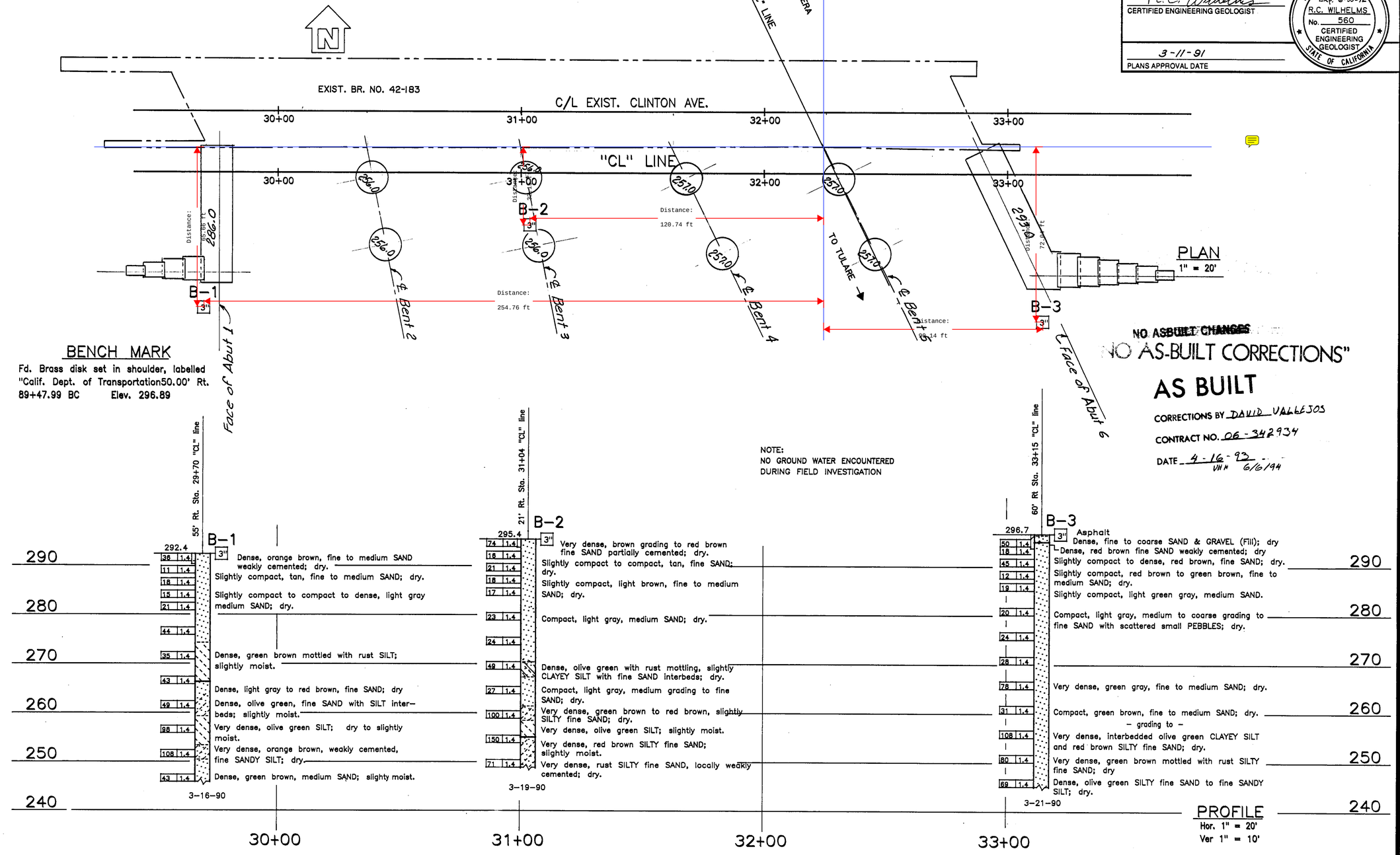
LEGEND OF EARTH MATERIALS

GRAVEL · SAND · SILT · CLAY · SANDY CLAY or CLAYEY SAND · SANDY SILT or SILTY SAND · SILTY CLAY · CLAYEY SILT · PEAT and/or ORGANIC MATTER · FILL MATERIAL · IGNEOUS ROCK · SEDIMENTARY ROCK · METAMORPHIC ROCK

CONSISTENCY CLASSIFICATION FOR SOILS
According to the Standard Penetration Test

Penetration Index (Blows / Ft)	Granular	Cohesive
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20-34	Compact	Very stiff
35-69	Dense	Hard
>70	Very dense	Very hard

NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.



BENCH MARK

Fd. Brass disk set in shoulder, labelled "Calif. Dept. of Transportation50.00' Rt. 89+47.99 BC Elev. 296.89

NOTE:
NO GROUND WATER ENCOUNTERED
DURING FIELD INVESTIGATION

NO ASBUILT CHANGES

"NO AS-BUILT CORRECTIONS"

AS BUILT

CORRECTIONS BY DAVID VALLEJOS

CONTRACT NO. 06-342934

DATE 4-16-93 VHH 6/6/94

PROFILE
Hor. 1" = 20'
Ver 1" = 10'

DRAWN BY	IRMA GAMARRA 5/90
CHECKED BY	

ENGINEERING GEOLOGY BRANCH - TRANSPORTATION LABORATORY

John Liniotis, PROJECT ENGINEER

State of CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 2

BRIDGE NO.	42-183
POST MILE	24.4

CLINTON AVE. O.C. (WIDEN)

LOG OF TEST BORINGS 1 OF 4

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06
EA 342931

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 10-19-89

SHEET 26 OF 29

TL 6051 REV. 4/89 89 52500

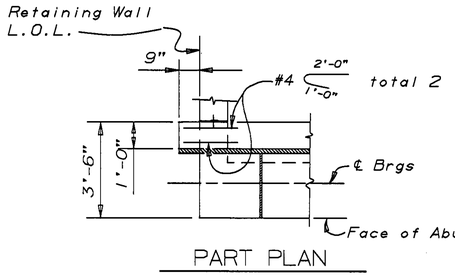
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	24.4, 26.6	121	199

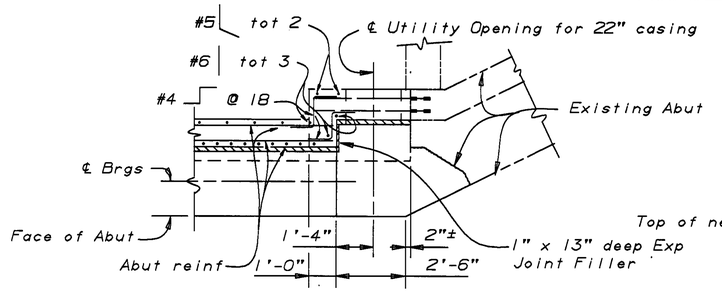
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — J Fujimoto — No. 43943 — Exp. 06-30-93 — CIVIL — STATE OF CALIFORNIA

3-11-91
PLANS APPROVAL DATE

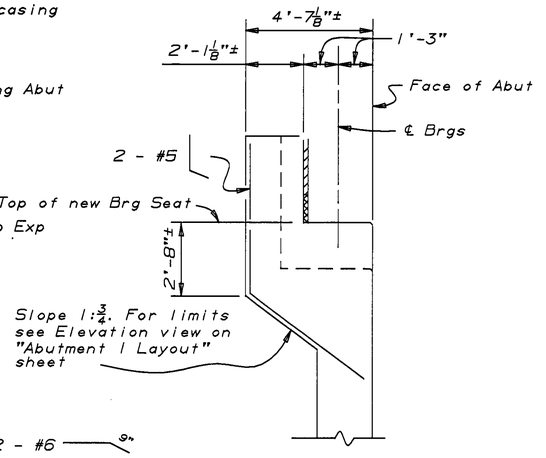


PART PLAN



PART PLAN

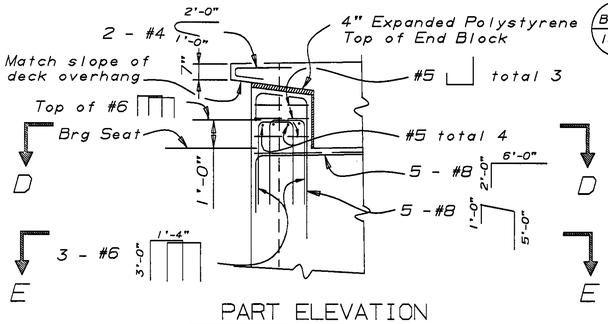
3/4" = 1'-0"



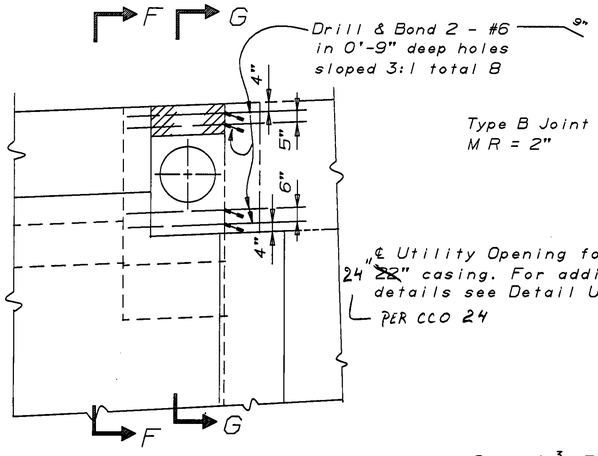
Note

For location of Corner Detail and Detail "A" see "Abutment 1 Layout" sheet

For Utility Opening U-2 see "Utility Opening - Box Girder" sheet



PART ELEVATION

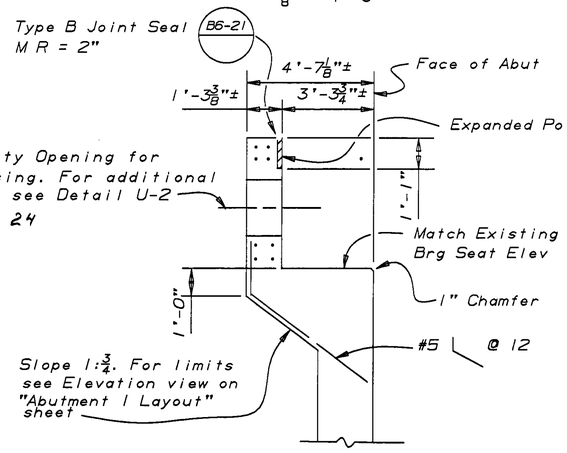


PART ELEVATION

3/4" = 1'-0"

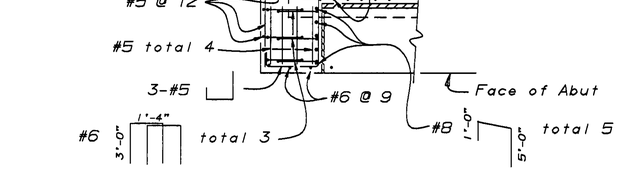
SECTION F-F

3/4" = 1'-0"

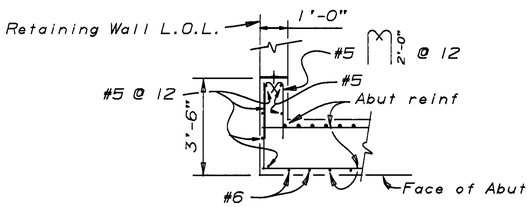


SECTION G-G

3/4" = 1'-0"



SECTION D-D



SECTION E-E

CORNER DETAIL - ABUT 1

3/8" = 1'-0"

DETAIL "A"

AS BUILT

CORRECTIONS BY DAVID VALLEJOS

CONTRACT NO. 06-342934

DATE 4-16-93
VHH 6-6-94

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	BY Clark Peri 7-90	CHECKED R.E.Bateman 9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 2	BRIDGE NO. 42-183 / POST MILE 24.4
DETAILS	BY K-C-B 7-90	CHECKED R.E.Bateman 9-90			
QUANTITIES	BY Clark Peri 9-90	CHECKED R.E.Bateman 9-90			

CLINTON AVE O.C. (WIDEN)
ABUTMENT DETAILS NO 2

DS OSD 2139 (CADD 4/89) — ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 — CU 06 EA 342931 — DISREGARD PRINTS BEARING EARLIER REVISION DATES — REVISION DATES (PRELIMINARY STAGE ONLY): 7-25-90, 09-01-90, 10-22-90, 11-21-90 — SHEET 7 OF 29

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PILING: ABUT 1 - CLASS 70, 12" PC/PS - AVG. TIP 264.90
ABUT 1 P/W - CLASS 45, 12" PC/PS - AVG. TIP 269.20
HIGH 270.38
LOW 262.38

AS BUILT

CORRECTIONS BY DAVID VALLEJOS

CONTRACT NO. 06-342934

DATE 4-16-93
VHH 6/6/94

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	24.4, 26.6	115	199

John Fujimoto
REGISTERED ENGINEER - CIVIL

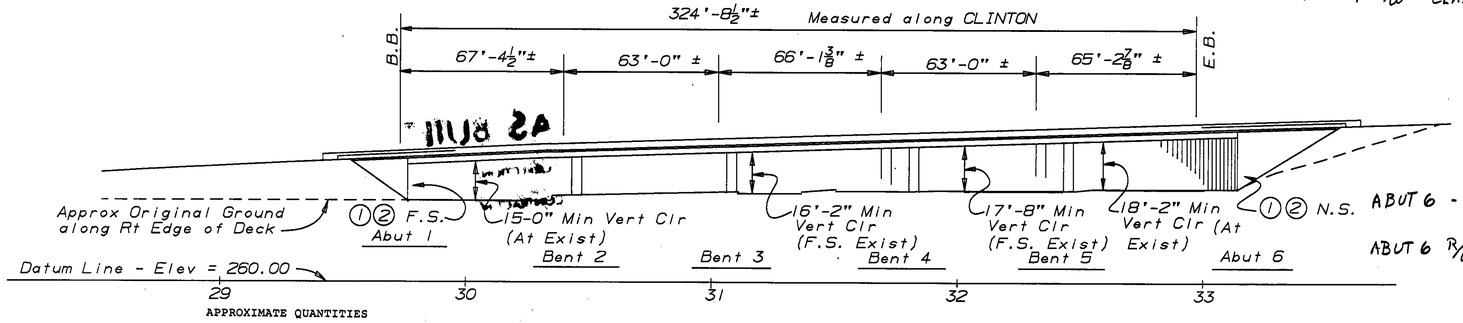
REGISTERED PROFESSIONAL ENGINEER — J Fujimoto — No. 43943 — Exp. 06-30-93 — CIVIL — STATE OF CALIFORNIA

3-11-91
PLANS APPROVAL DATE

PILE SHAFTS :
BENT 2 60" DRILLED SHAFT, AVG. TIP 255.71
BENT 3 " " " , AVG. TIP 255.73
BENT 4 " " " , AVG. TIP 256.13
BENT 5 " " " , AVG. TIP 256.40

ABUT 6 - CLASS 70, 12" PC/PS - AVG. TIP 265.78
HIGH 267.13
LOW 264.00

ABUT 6 P/W - CLASS 45 12" PC/PS AVG. TIP 266.91
HIGH 270.12
LOW 264.83



ELEVATION
1"=30'

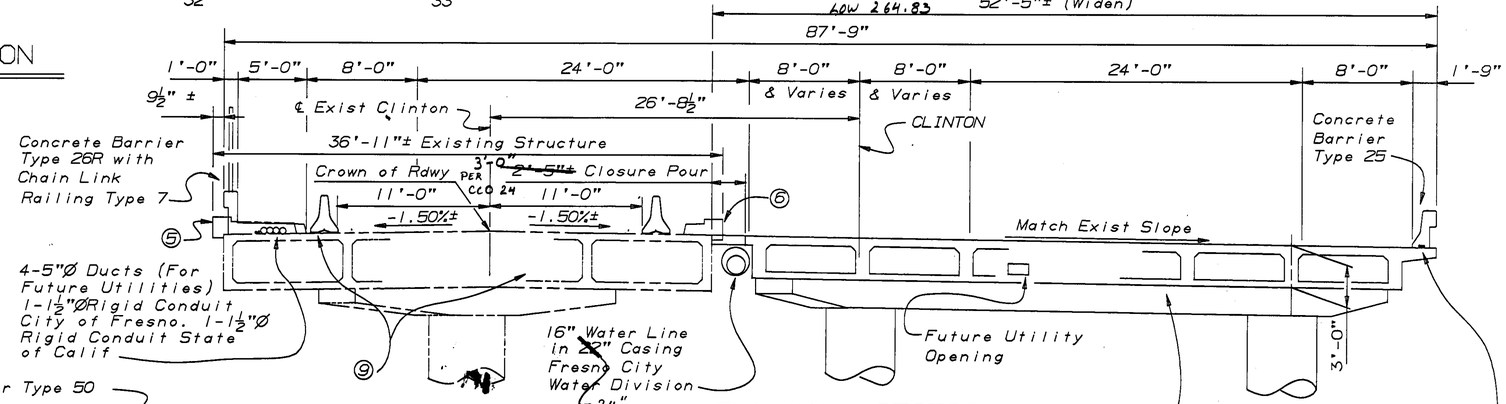
APPROXIMATE QUANTITIES

TEMPORARY RAILING (TYPE K)	1,060 LF
BRIDGE REMOVAL (PORTION), LOCATION B	LUMP SUM
60" DRILLED SHAFT FOUNDATION	280 LF
FURNISH PILING (CLASS 70)	1,298 LF
DRIVE PILE (CLASS 70)	52 EA
FURNISH PILING (CLASS 45)	1,374 LF
DRIVE PILE (CLASS 45)	39 EA
PRESTRESSING CAST-IN-PLACE CONCRETE	LUMP SUM
DRILL AND BOND DOWEL	455 LF
REFINISH BRIDGE DECK	650 SQFT
WATERSTOP	49 LF
JOINT SEAL (TYPE B-MR 2")	104 LF
DRAINAGE SYSTEM	LUMP SUM
WATER LINE AND CASING	LUMP SUM

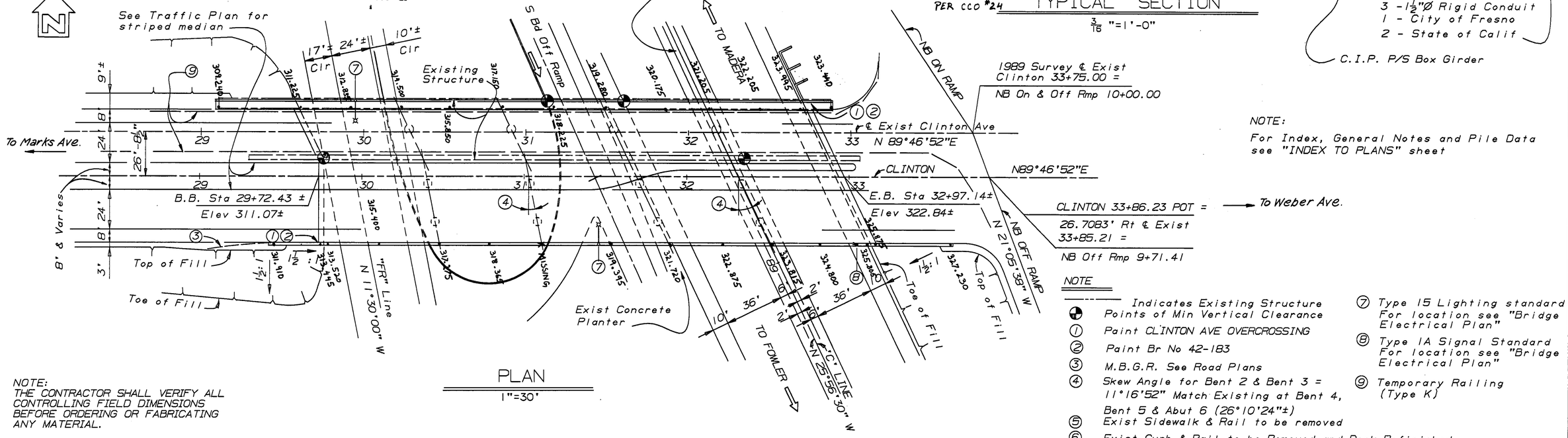
FINAL PAY QUANTITIES

STRUCTURE EXCAVATION (BRIDGE)	538 CY
STRUCTURE EXCAVATION (RETAINING WALL)	195 CY
STRUCTURE BACKFILL (BRIDGE)	775 CY
STRUCTURE BACKFILL (RETAINING WALL)	283 CY
STRUCTURAL CONCRETE, BRIDGE FOOTING	179 CY
STRUCTURAL CONCRETE, BRIDGE	1,365 CY
STRUCTURAL CONCRETE, RETAINING WALL	126 CY
BAR REINFORCING STEEL (BRIDGE)	374,000 LB
BAR REINFORCING STEEL (RETAINING WALL)	16,000 LB
CHAIN LINK RAILING (TYPE 7)	383 LF
CONCRETE BARRIER (TYPE 25)	432 LF
CONCRETE BARRIER (TYPE 26)	384 LF

NOTE: DIST 6 SURVEY CREW SET ELEVATIONS ON NORTH SIDEWALK (WEST END & EAST END) OF CLINTON AVE.
WEST END 309.240
EAST END 323.440



TYPICAL SECTION
3/16 "=1'-0"



PLAN
1"=30'

NOTE:
For Index, General Notes and Pile Data see "INDEX TO PLANS" sheet

NOTE

- Indicates Existing Structure
- Points of Min Vertical Clearance
- ① Paint CLINTON AVE OVERCROSSING
- ② Paint Br No 42-183
- ③ M.B.G.R. See Road Plans
- ④ Skew Angle for Bent 2 & Bent 3 = 11°16'52" Match Existing at Bent 4, Bent 5 & Abut 6 (26°10'24"±)
- ⑤ Exist Sidewalk & Rail to be removed
- ⑥ Exist Curb & Rail to be Removed and Deck Refinished
- ⑦ Type 15 Lighting standard For location see "Bridge Electrical Plan"
- ⑧ Type 1A Signal Standard For location see "Bridge Electrical Plan"
- ⑨ Temporary Railing (Type K)

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN ENGINEER	DESIGN	BY Clark Peri 4-90	CHECKED R.E.Bateman 9-90	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD		
	DETAILS	BY K-C-B 4-90	CHECKED R.E.Bateman 9-90	LAYOUT	BY Clark Peri 4-90	CHECKED R.E.Bateman 9-90	
	QUANTITIES	BY Clark Peri 9-90	CHECKED R.E.Bateman 9-90	SPECIFICATIONS	BY	PLANS AND SPECS COMPARED	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 2

BRIDGE NO. 42-183
POST MILE 24.4

CLINTON AVE O.C. (WIDEN)
GENERAL PLAN

DS OSD 2138 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06
EA 342931

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 11-29-90 | 05-16-91 | 05-24-91 | 06-05-91 | 07-08-91 | 10-10-91 | 10-10-91 | 11-20-91

SHEET 1 OF 29

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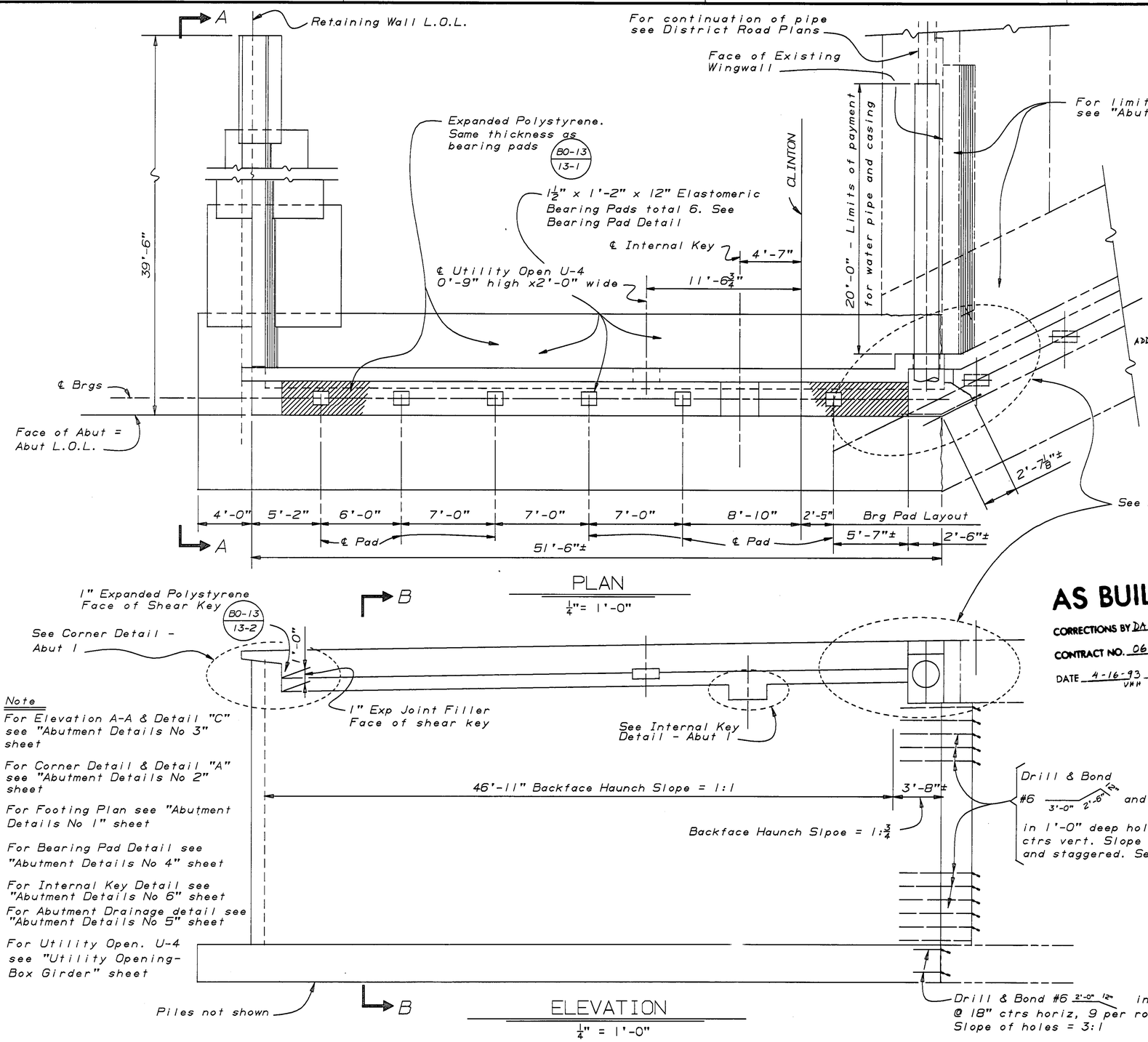
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	24.4, 26.6	118	199

John Fujimoto
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER
J. Fujimoto
No. 43943
Exp. 06-30-93
CIVIL
STATE OF CALIFORNIA

3-11-91
PLANS APPROVAL DATE

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



PLAN
¼"= 1'-0"

ELEVATION
¼" = 1'-0"

Note

For Elevation A-A & Detail "C" see "Abutment Details No 3" sheet

For Corner Detail & Detail "A" see "Abutment Details No 2" sheet

For Footing Plan see "Abutment Details No 1" sheet

For Bearing Pad Detail see "Abutment Details No 4" sheet

For Internal Key Detail see "Abutment Details No 6" sheet

For Abutment Drainage detail see "Abutment Details No 5" sheet

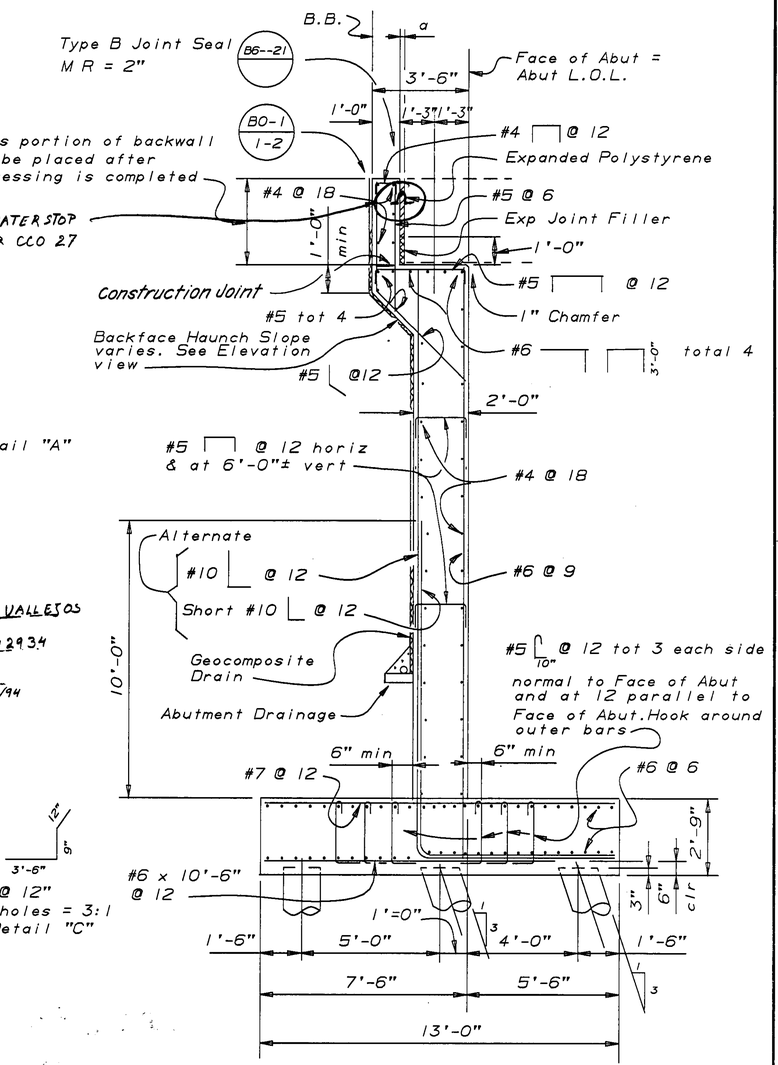
For Utility Open. U-4 see "Utility Opening-Box Girder" sheet

AS BUILT

CORRECTIONS BY DAVID VALLEJOS

CONTRACT NO. 06-342934

DATE 4-16-93 VMH 6/6/94



SECTION B-B
3/4" = 1'-0"

DESIGN	BY Clark Peri 7-90	CHECKED R.E.Bateman 9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 2	BRIDGE NO. 42-183
DETAILS	BY K-C-B 7-90	CHECKED R.E.Bateman 9-90			POST MILE 24.4
QUANTITIES	BY Clark Peri 9-90	CHECKED R.E.Bateman 9-90		CU 06 EA 342931	

CLINTON AVE O.C. (WIDEN)
ABUTMENT 1 LAYOUT

DS 05D 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 7-24-90 | 7-24-92 | 7-31-92 | 10-01-92 | 11-24-92 | 11-30-92 | 11-30-92 | 12-03-90

SHEET 4 OF 29

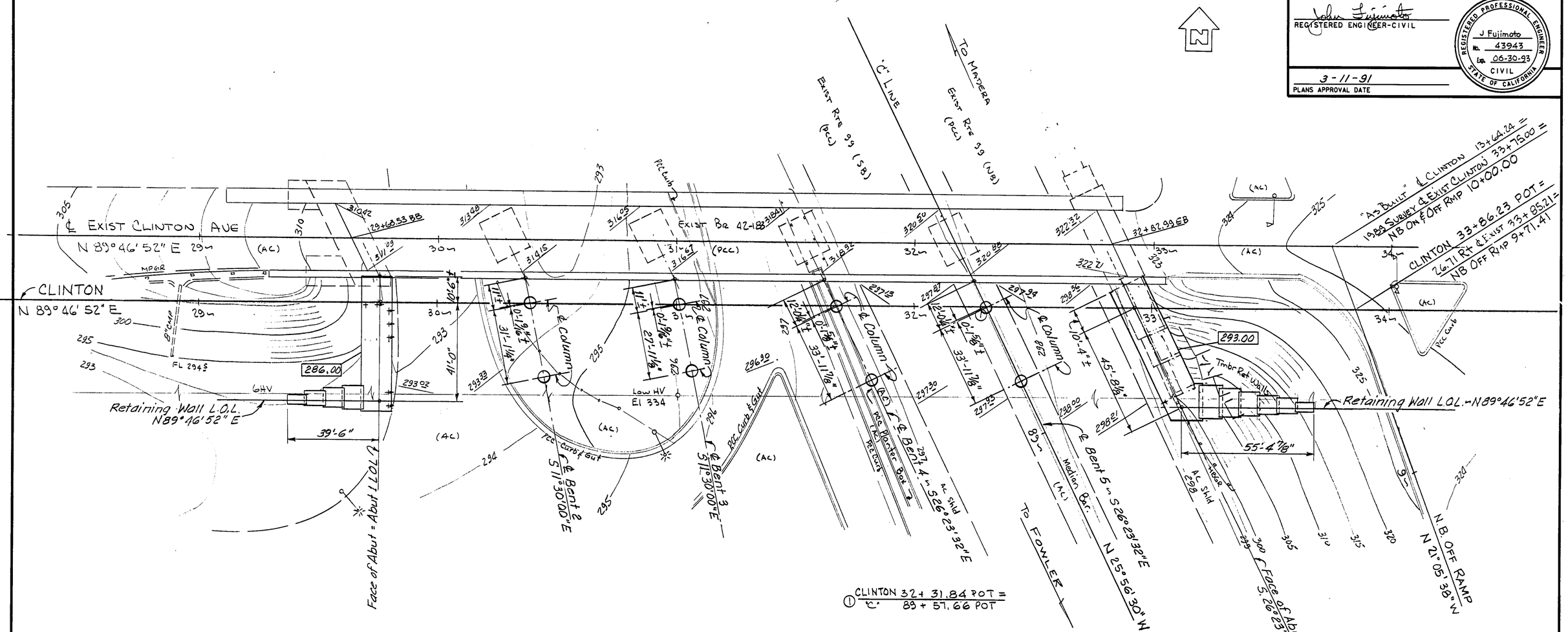
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	24.4, 26.6	117	199

John Fujimoto
REGISTERED ENGINEER-CIVIL

REGISTERED PROFESSIONAL ENGINEER — J Fujimoto — No. 43943 — Exp. 06-30-93 — CIVIL — STATE OF CALIFORNIA

3-11-91
PLANS APPROVAL DATE



Note:
Indicates bottom of Abutment footing elevation.
Indicates 60"ø Drilled Shaft
For complete pile layout at Abutments and Retaining Walls, and Retaining Wall footing elevations see Abutment layout and details sheets.

RP "A"
Fd - 1" IP with Plastic Plug
70' Rt "Clinton" 26+00
El 287.95

RP "C"
Fd - 1" IP with Plastic Plug
70' Rt "Clinton" 33+95
El 324.69

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

NO ADDED CHANGES

AS BUILT

CORRECTIONS BY DAVID VALLEJOS
CONTRACT NO. 06-342934
DATE 4-16-93 UHM 6/6/94

"NO AS-BUILT CORRECTIONS"

R1 - Alinement ties revised 3-5-90

PR- 42183-1R1

PRELIMINARY INVESTIGATION SECTION							
SCALE 1"=20	DATUM NGVD	PHOTOGRAMMETRY AS OF:		DRAWN	BY WHITESIDE 1-90	DESIGN	BY Clark Peri 8-90 CHECKED R.E. Bateman 9/90
		SURVEYED	BY PJC 2-90	TRACED	BY RTR 2-90	DETAILS	BY K-C-B 9/90 CHECKED R.E. Bateman 9/90
ALIGNMENT TIES PR-42183-AR1		FIELD CHECKED	BY	CHECKED	BY PJC 2-90	QUANTITIES	BY Clark Peri 9-90 CHECKED R.E. Bateman 9/90

DS OSD 2145 (4/89) 89 53339

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 2

CU 06
EA 342931

BRIDGE NO. 42-183
POST MILE 24.4

CLINTON AVE OC (WIDEN)
FOUNDATION PLAN

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)
9/19/90 3/4/91 11/26/91 3/2/92

SHEET 3 OF 29

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	24.4, 26.6	116	199

John Fujimoto
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER
J Fujimoto
No. 43943
Exp. 06-30-93
CIVIL
STATE OF CALIFORNIA

3-11-91
PLANS APPROVAL DATE

GENERAL NOTES
LOAD FACTOR DESIGN

DESIGN: BRIDGE DESIGN SPECIFICATIONS (1983 AASHTO with Interims and Revisions by CALTRANS)

DEAD LOAD: Includes 35 psf for future wearing surface.

LIVE LOADING: HS20-44 and alternative and permit design load.

REINFORCED CONCRETE: f_y = 60,000 psi
f'_c = 3,250 psi
n = 9
Transverse Deck Slabs (Working Stress Design)
f_s = 20,000 psi
f_c = 1,200 psi
n = 10

PRESTRESSED CONCRETE: See 'Prestressing Notes'

PILE DATA

LOCATION	TYPE (CONCRETE)	DIAMETER	DESIGN LOAD (SERVICE LOAD)	SPECIFIED TIP ELEV	PROBABLE TIP ELEV	CUT-OFF ELEV
Abut 1	Class 70	~	70 Tons	265.00	260.00	~
Retain Wall - Abut 1	Class 45	~	45	270.00	265.00	~
Bent 2	Drilled Shaft	60"	440	256.00	~	291.00
Bent 3	Drilled Shaft	60"	520	256.00	~	291.00
Bent 4	Drilled Shaft	60"	470	257.00	~	292.00
Bent 5	Drilled Shaft	60"	470	257.00	~	292.00
Abut 6	Class 70	60"	70	267.00	262.00	~
Retain Wall - Abut 6	Class 45	~	45 Tons	267.00	262.00	~

NO ASBUILT CHANGES

AS BUILT

CORRECTIONS BY DAVID VALLEJOS

CONTRACT NO. 06-342934

DATE 4-16-93
VHH 6/6/94

"NO AS-BUILT CORRECTIONS"

INDEX TO PLANS

SHEET NO	TITLE
1.	General Plan
2.	Index To Plans
3.	Foundation Plan
4.	Abutment 1 Layout
5.	Abutment 6 Layout
6.	Abutment Details No 1
7.	Abutment Details No 2
8.	Abutment Details No 3
9.	Abutment Details No 4
10.	Abutment Details No 5
11.	Abutment Details No 6
12.	Abutment Details No 7
13.	Bent No 2 Details
14	Bent No 3 Details
15.	Bents No 4 & 5 Details
16.	Miscellaneous Bent Details
17.	Typical Section
18.	Girder Layout
19.	Girder Reinforcement 1
20.	Girder Reinforcement 2
21.	Girder Details 1
22.	End Diaphragm Details
23.	Miscellaneous Details
24.	Utility Opening - Box Girder
25.	Water Line Details
26.	Log Of Test Borings 1 of 4
27.	Log Of Test Borings 2 of 4
28.	Log Of Test Borings 3 of 4
29.	Log Of Test Borings 4 of 4

STANDARD PLANS dated January 1988

A62-B	Excavation & Backfill - Bridge Surcharge and Wall
A62-C	Excavation & Backfill - Bridge
B0-1	Bridge Details
B0-3	Bridge Details
B0-5	Bridge Details
B0-13	Bridge Details
B2-5	Pile Details-Class 45 & Class 70
B3-1	Retaining Wall Type 1 H = 4' - 30'
B3-8	Retaining Wall Details No 1
B6-21	Joint Seals
B7-1	Box Girder Details
B8-5	Cast-In-Place Prestressed Girder Details
B11-30	Temporary Railing (Type K)
B11-52	Chain Link Railing Type 7
B11-53	Concrete Barrier Type 25
B11-54	Concrete Barrier Type 26
ES-6A	Signal and Lighting Standards Type 1 Standards and Pushbutton Posts
ES-7B	Signal and Lighting Details Electrical Details Structure Installations

Standard Plan Sheet No.
Detail No.

DESIGN	BY Clark Peri 10-90	CHECKED R.E.Bateman 10-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 2	BRIDGE NO. 42-183
DETAILS	BY K-C-B 10-90	CHECKED R.E.Bateman 10-90			POST MILE 24.4
QUANTITIES	BY Clark Peri 9-90	CHECKED R.E.Bateman 9-90		CU 06 EA 342931	

CLINTON AVE O.C. (WIDEN)
INDEX TO PLANS

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 10-11-90 | 10-12-90 | 11-30-90 | 11-29-90 | 12-03-90

SHEET 2 OF 29

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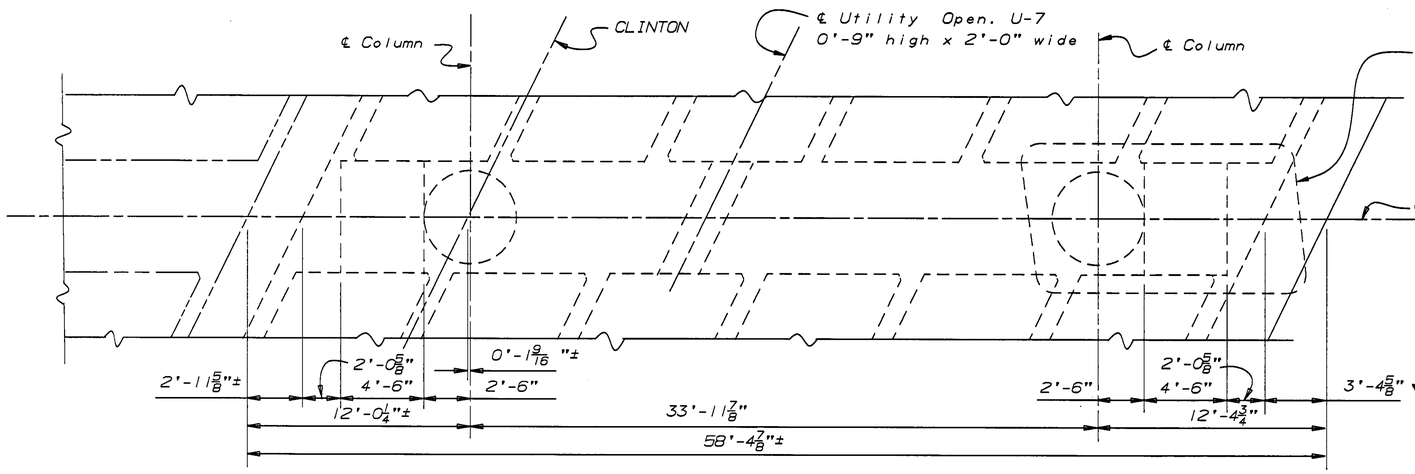
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	24.4, 26.6	129	199

John Fujimoto
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J Fujimoto
No. 43943
Exp. 06-30-93
CIVIL
STATE OF CALIFORNIA

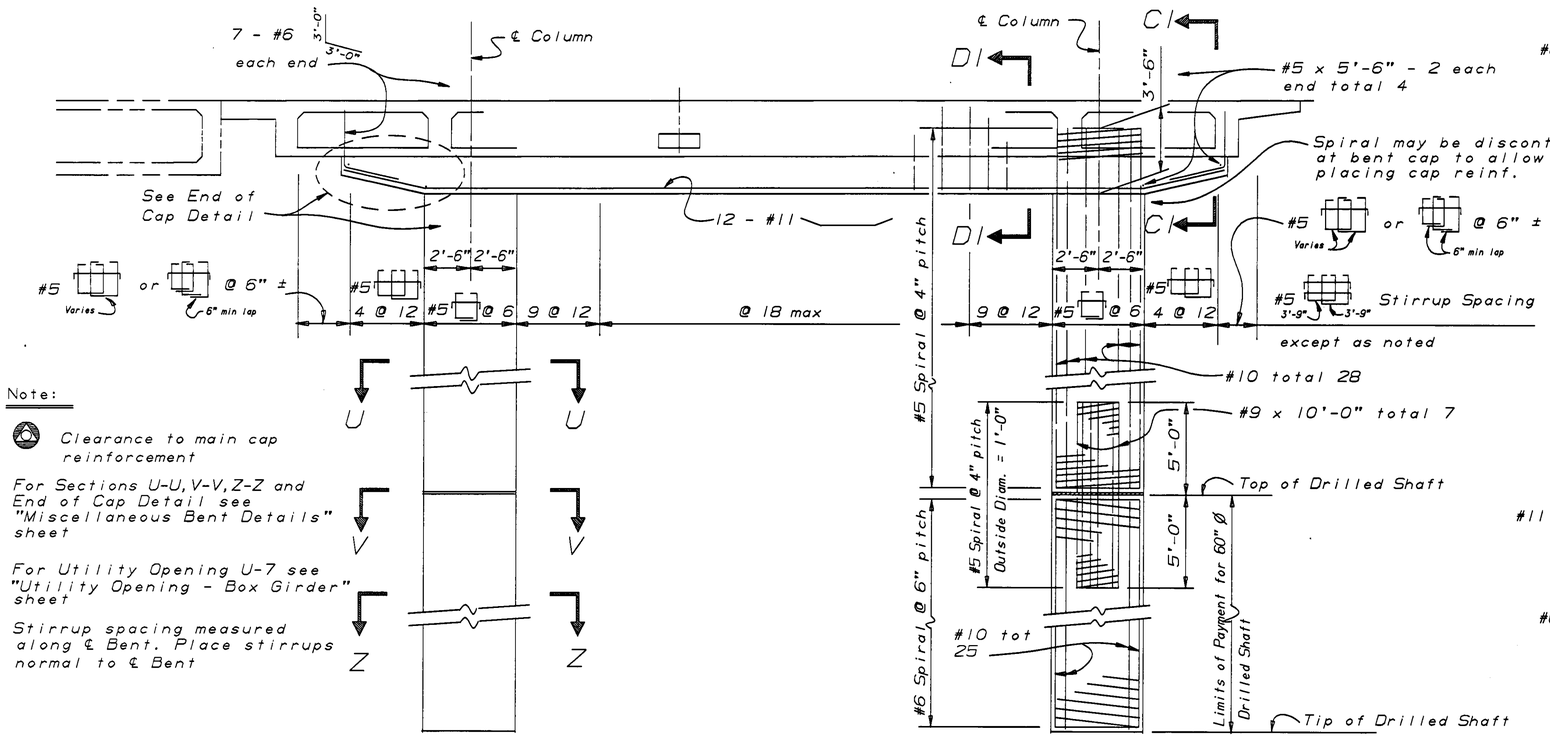
3-11-91
PLANS APPROVAL DATE

AS BUILT
CORRECTIONS BY DAVID VALLEJOS
CONTRACT NO. 06-342934
DATE 4-16-93 6/6/94
UHM



PLAN - BENT 4 & 5

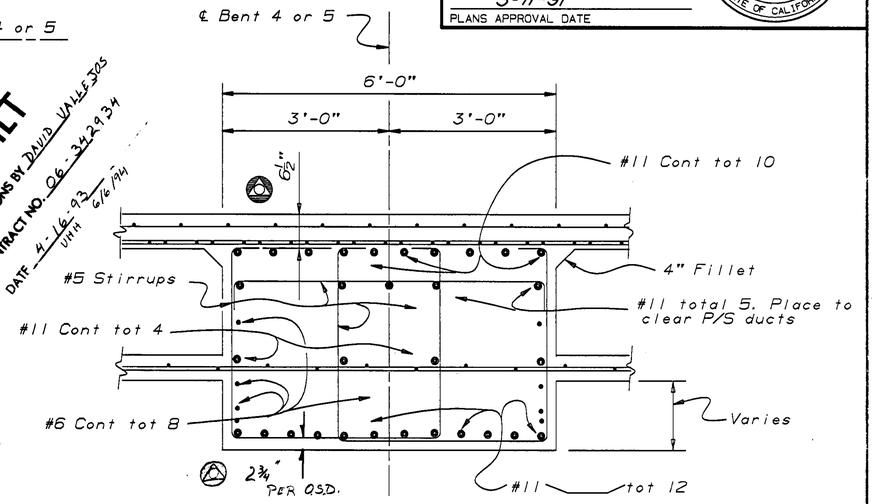
1/4" = 1'-0"



ELEVATION - BENT 4 & 5

1/4" = 1'-0"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



SECTION C1-C1

3/4" = 1'-0"

SECTION D1-D1

3/4" = 1'-0"

DESIGN	BY Clark Peri	8-90	CHECKED R.E.Bateman	9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY K-C-B	9-90	CHECKED R.E.Bateman	9-90	DIVISION OF STRUCTURES STRUCTURE DESIGN 2
QUANTITIES	BY Clark Peri	9-90	CHECKED R.E.Bateman	9-90	

BRIDGE NO. 42-183
POST MILE 24.4

CLINTON AVE O.C. (WIDEN)
BENTS NO 4 & 5 DETAILS

DS 050 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06
EA 342931

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 8-9-90 | 10-01-90 | 10-26-90 | 11-26-90

SHEET 15 OF 29

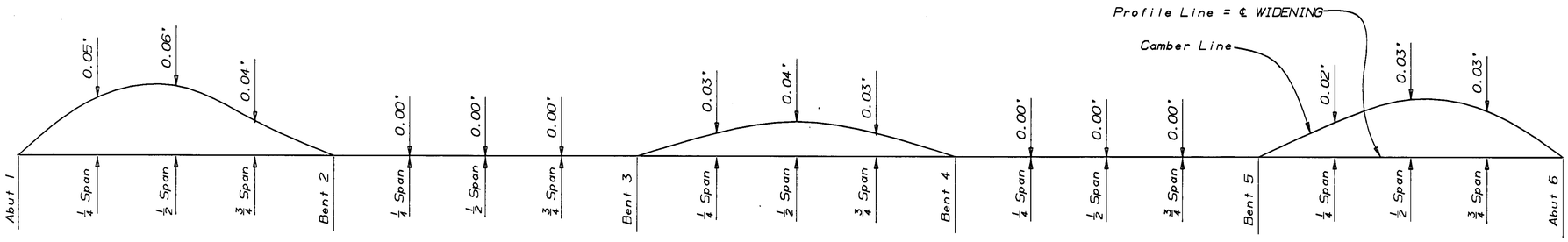
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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	24.4, 26.6	135	199

John Fujimoto
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER
J Fujimoto
No. 43943
Exp. 06-30-93
CIVIL
STATE OF CALIFORNIA

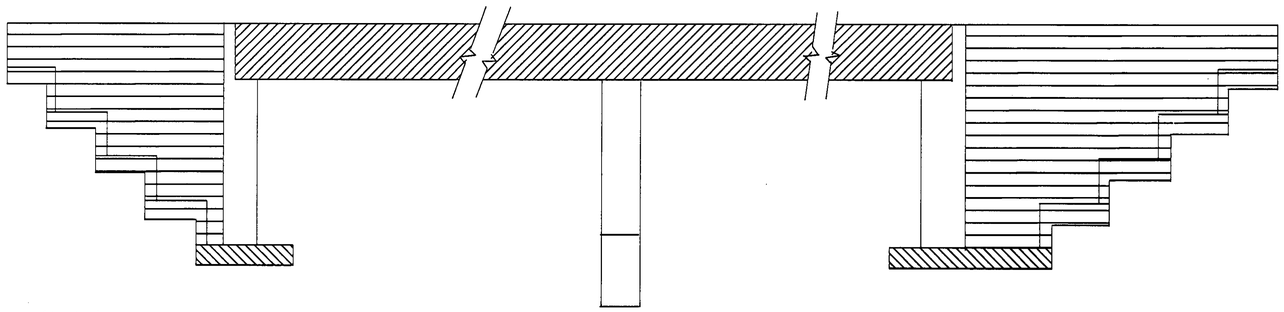
3-11-91
PLANS APPROVAL DATE



CAMBER DIAGRAM

No Scale

Does not include allowance for falsework settlement



Abut 1 — Bents 2,3,4 & 5 — Abut 6

CONCRETE STRENGTH AND TYPE LIMITS

- *Structural Concrete, Bridge*
- *Structural Concrete, Bridge Footing*
- *Structural Concrete, Bridge (4000 psi @ 28 days)*
- *Structural Concrete, Retaining Wall*

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

PRESTRESSING NOTES

270 KSI Low Relaxation Strand:

P_{jack} = 4500 kips

Anchor Set = 3/8 in

Total Number of Girders = 7

Distribution of prestress force (Pjack) between girders shall not exceed the ratio of 3:2. Maximum final force variation between girders shall not exceed 725 k.

Concrete: f'_c = 4000 psi @ 28 days

f'_{ci} = 3500 psi @ time of stressing

Contractor shall submit elongation calculations based on initial stress at
☒ = 0.808 times jacking stress.

☒ = Theoretical point of no movement for two end stressing. For location see Longitudinal Section on "Girder Layout" sheet

NO ASBUILT CHANGES

"NO AS-BUILT CORRECTIONS"

AS BUILT

CORRECTIONS BY DAVID VALLEJOS

CONTRACT NO. 06-342934

DATE 4-16-93 VH 11 6/6/94

FALSEWORK RELEASE

Alternative 1:

Falsework shall be released as soon as permitted by the specifications. Closure pour shall not be placed sooner than 60 days after the falsework has been released.

Alternative 2:

Falsework shall not be released less than 28 days after the last concrete has been placed. Closure pour shall not be placed sooner than 14 days after the falsework has been released.

When Falsework Release Alternative 2 is used, camber values are 0.75 times those shown.

DESIGN	BY Clark Peri 6-90	CHECKED R.E.Bateman 9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 2	BRIDGE NO. 42-183 / POST MILE 24.4
DETAILS	BY K-C-B 6-90	CHECKED R.E.Bateman 9-90			
QUANTITIES	BY Clark Peri 9-90	CHECKED R.E.Bateman 9-90			

CLINTON AVE O.C. (WIDEN)

GIRDER DETAILS I

DS OSD 2139 (CADD 4/89) — ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 — CU 06 EA 342931 — DISREGARD PRINTS BEARING EARLIER REVISION DATES → — REVISION DATES (PRELIMINARY STAGE ONLY) 6-22-90, 9-19-90, 10-05-90, 10-26-90, 11-27-90 — SHEET 21 OF 29

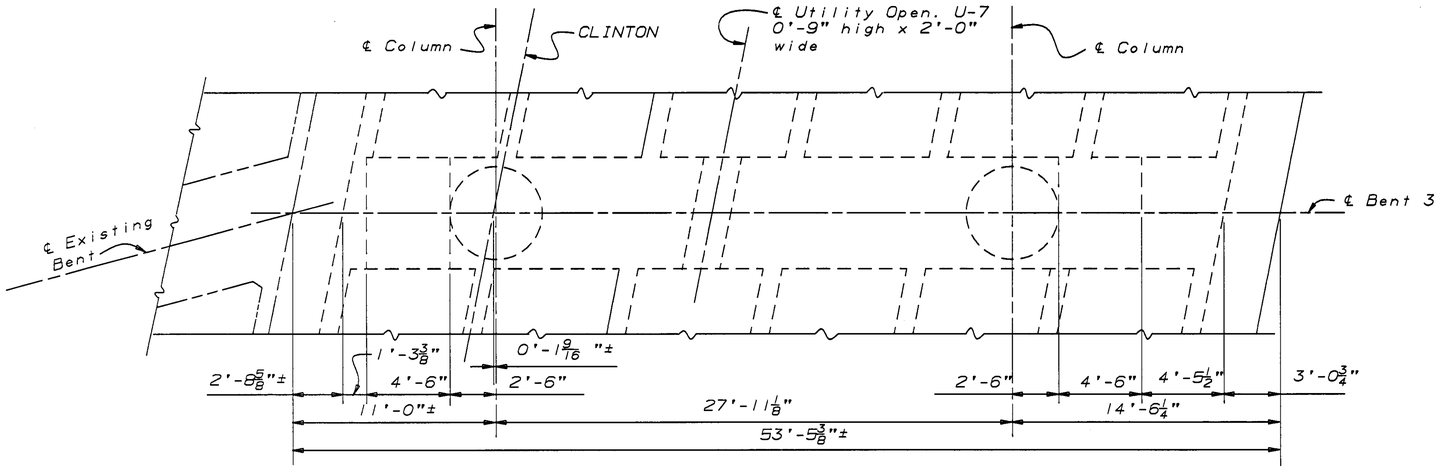
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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	24.4, 26.6	128	199

REGISTERED ENGINEER - CIVIL

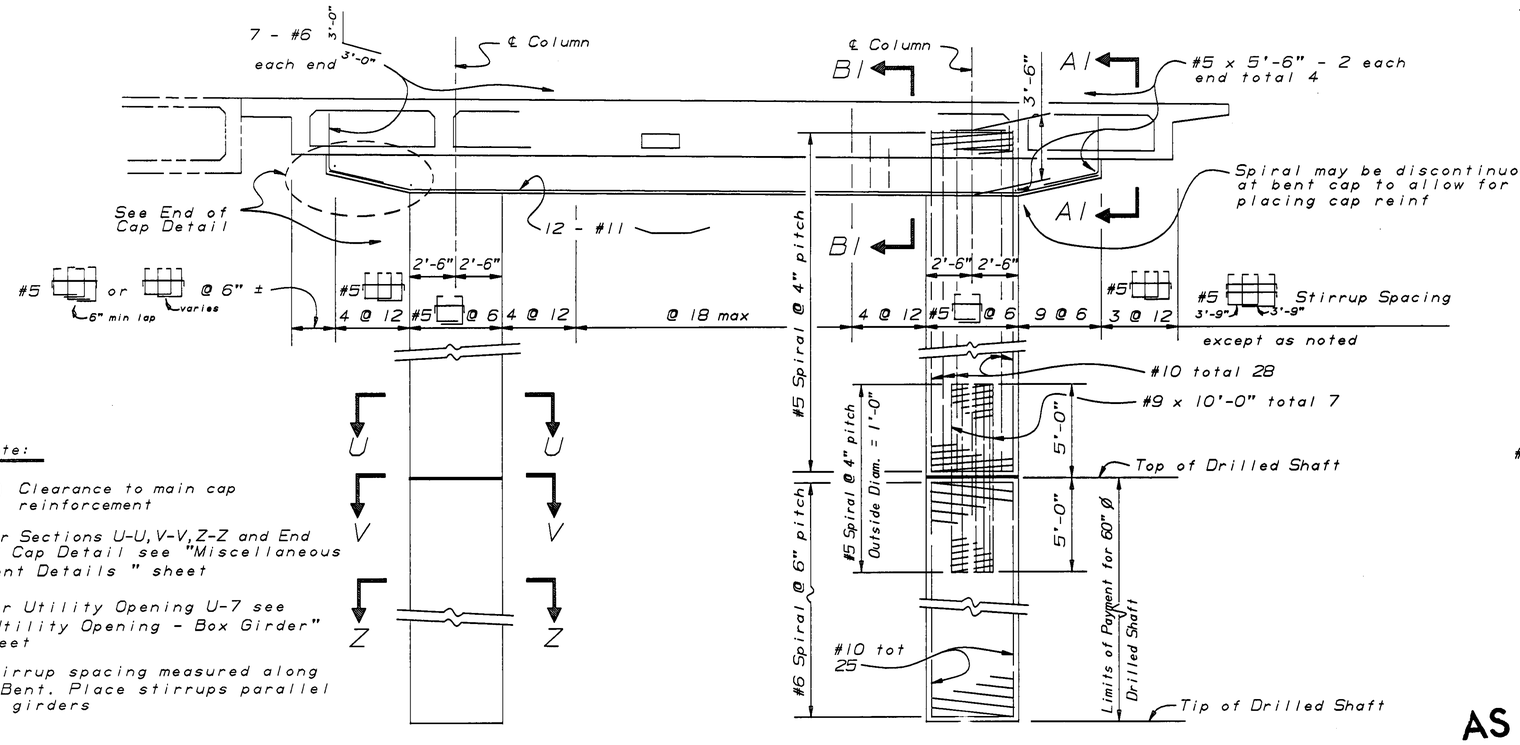
REGISTERED PROFESSIONAL ENGINEER — J Fujimoto — No. 43943 — Exp. 06-30-93 — CIVIL — STATE OF CALIFORNIA

3-11-91
PLANS APPROVAL DATE



PLAN - BENT 3

1/4" = 1'-0"



Note:

Clearance to main cap reinforcement

For Sections U-U, V-V, Z-Z and End of Cap Detail see "Miscellaneous Bent Details " sheet

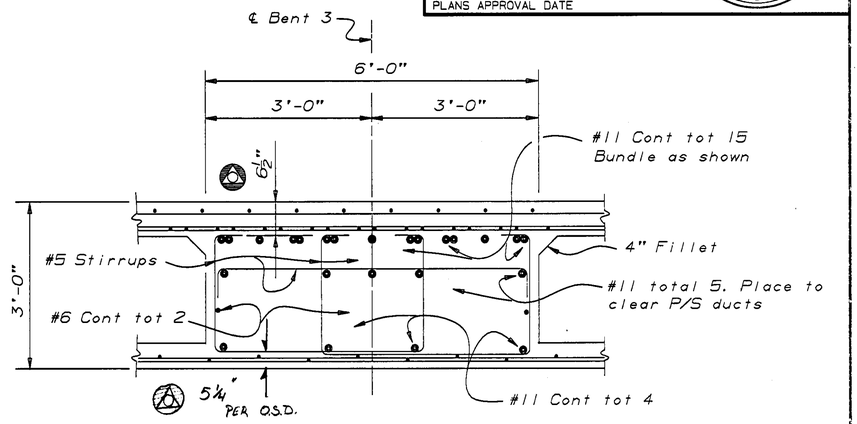
For Utility Opening U-7 see "Utility Opening - Box Girder" sheet

Stirrup spacing measured along ℄ Bent. Place stirrups parallel to girders

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

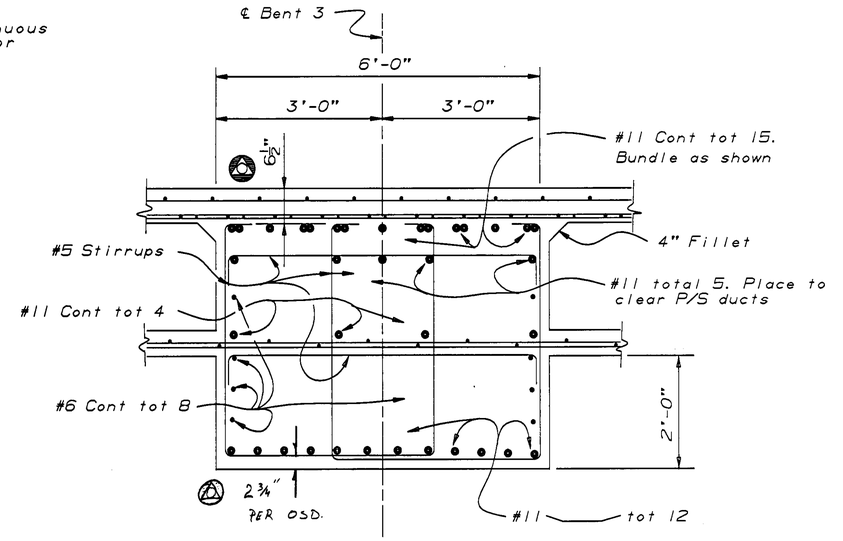
ELEVATION - BENT 3

1/4" = 1'-0"



SECTION A1-A1

3/4" = 1'-0"



SECTION B1-B1

3/4" = 1'-0"

AS BUILT

CORRECTIONS BY DAVID VALLEJOS

CONTRACT NO. 06-342934

DATE 4-16-93 VH11 6/6/94

DESIGN	BY Clark Peri	8-90	CHECKED R.E.Bateman	9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 2	BRIDGE NO. 42-183
DETAILS	BY K-C-B	9-90	CHECKED R.E.Bateman	9-90			POST MILE 24.4
QUANTITIES	BY Clark Peri	9-90	CHECKED R.E.Bateman	9-90		CU 06 EA 342931	DISREGARD PRINTS BEARING EARLIER REVISION DATES →

CLINTON AVE O.C. (WIDEN)

BENT NO 3 DETAILS

REVISION DATES (PRELIMINARY STAGE ONLY): 9-24-90 | 10-25-90 | 11-26-90

SHEET 14 OF 29

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

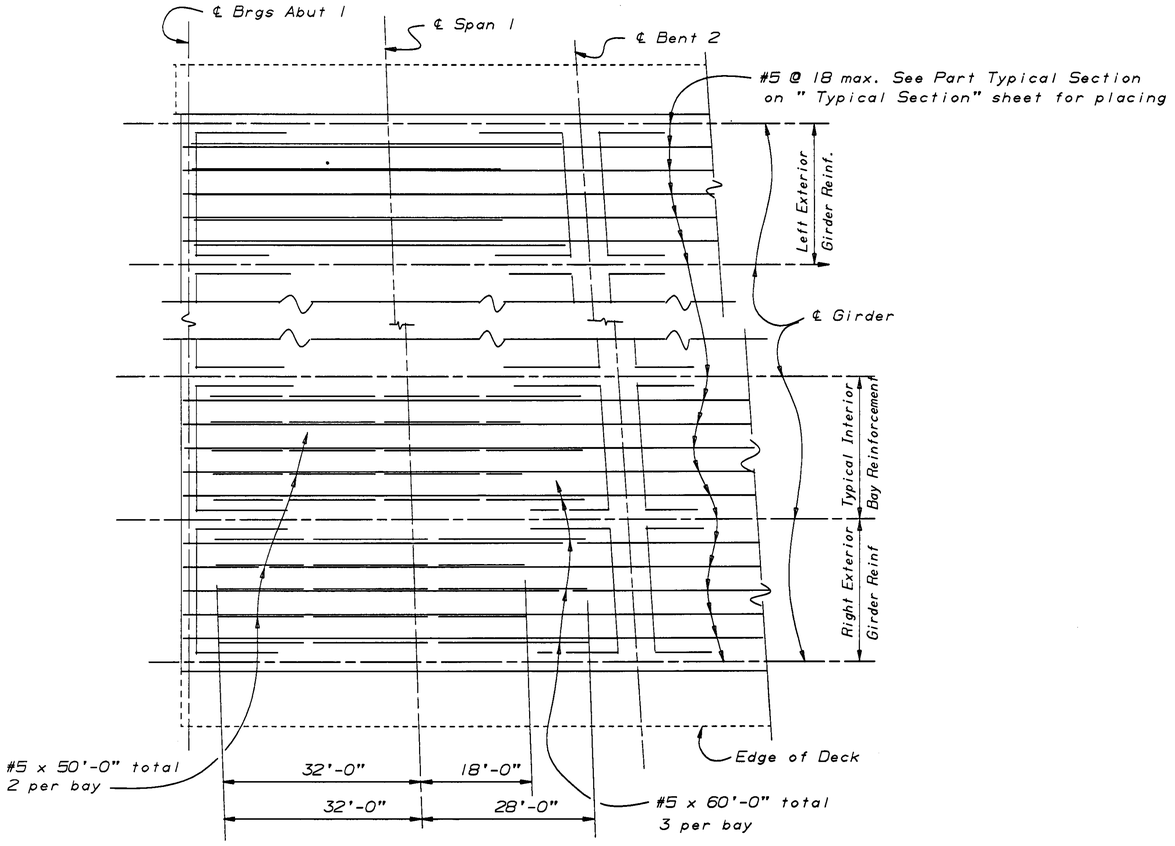
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	24.4, 26.6	134	199

John Fujimoto
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER
J Fujimoto
No. 43943
Exp. 06-30-93
CIVIL
STATE OF CALIFORNIA

3-11-91
PLANS APPROVAL DATE



BOTTOM LONGITUDINAL REINFORCEMENT

No Scale

"NO AS-BUILT CORRECTIONS"

NO ASBUILT CHANGES

AS BUILT
CORRECTIONS BY DAVID VALLEJOS
CONTRACT NO. 06-342934
DATE 4-16-93
VHH 6/6/94

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	BY Clark Peri 9-90	CHECKED R.E.Bateman 9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 2	BRIDGE NO. 42-183
DETAILS	BY K-C-B 9-90	CHECKED R.E.Bateman 9-90			POST MILE 24.4
QUANTITIES	BY Clark Peri 9-90	CHECKED R.E.Bateman 9-90			

CLINTON AVE O.C. (WIDEN)
GIRDER REINFORCEMENT 2

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06
EA 342931

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)									SHEET	O
9-28-90	10-25-90	11-27-90							20	2

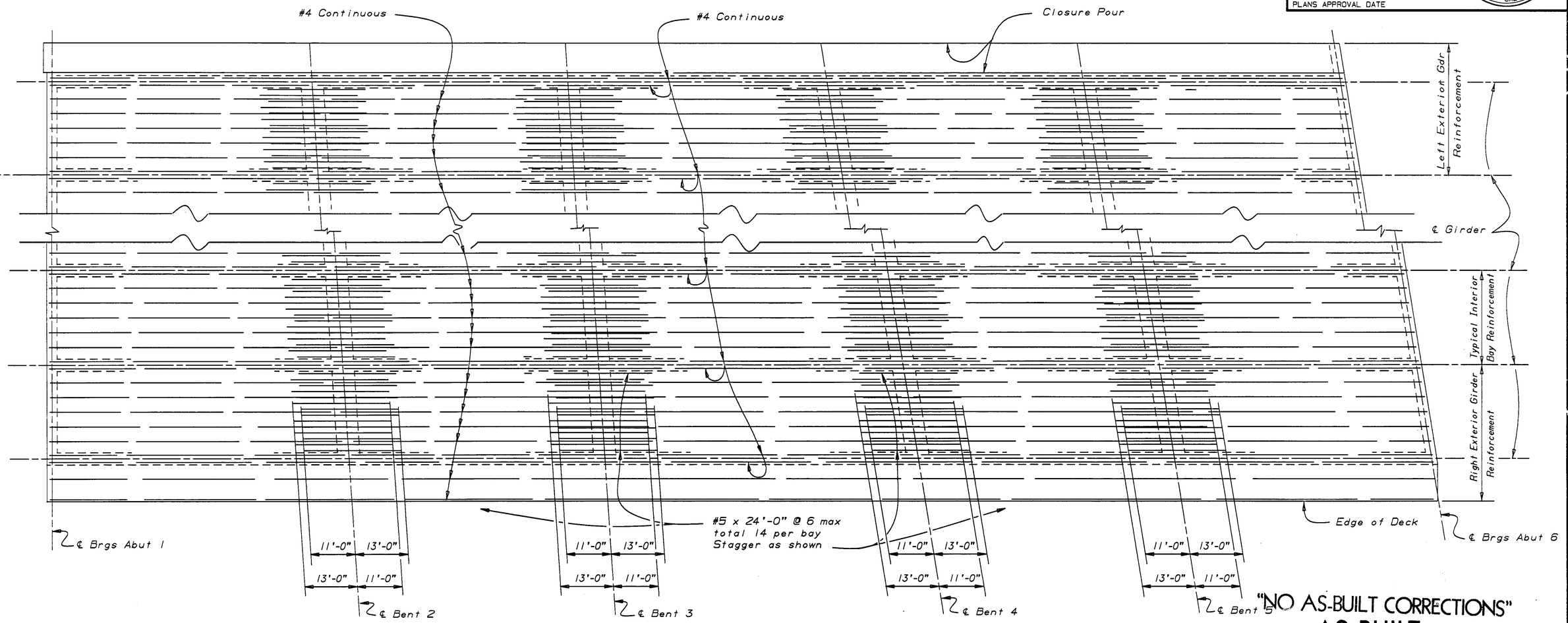
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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER
J Fujimoto
No. 43943
Exp. 06-30-93
CIVIL
STATE OF CALIFORNIA

3-11-91
PLANS APPROVAL DATE



TOP LONGITUDINAL REINFORCEMENT

No Scale

"NO AS-BUILT CORRECTIONS"

NO ASBUILT CHANGES

AS BUILT

CORRECTIONS BY DAVID VALLEJOS

CONTRACT NO. 06-342934

DATE 4-16-93
VHH 6/6/94

NOTE:
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DESIGN	BY Clark Peri	6-90	CHECKED R.E.Bateman	9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY K-C-B	6-90	CHECKED R.E.Bateman	9-90	
QUANTITIES	BY Clark Peri	9-90	CHECKED R.E.Bateman	9-90	

DIVISION OF STRUCTURES
STRUCTURE DESIGN 2

BRIDGE NO. 42-183
POST MILE 24.4

CLINTON AVE O.C. (WIDEN)
GIRDER REINFORCEMENT 1

DS 050 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06
EA 342931

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 07-26-90, 08-28-90, 10-25-90, 11-27-90

SHEET 19 OF 29

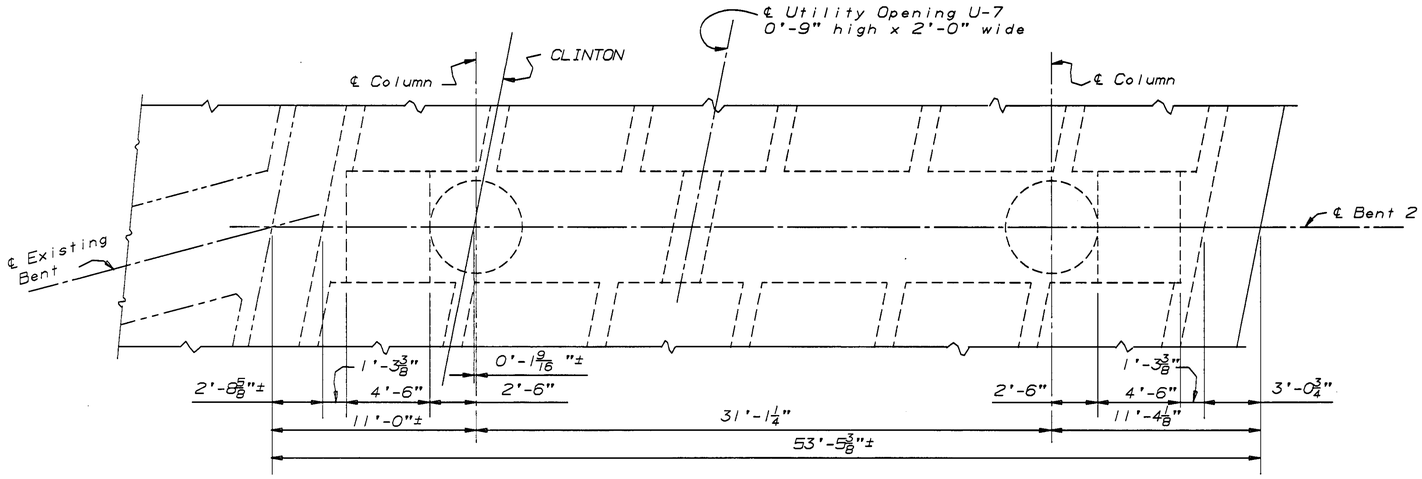
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John Fujimoto
REGISTERED ENGINEER - CIVIL

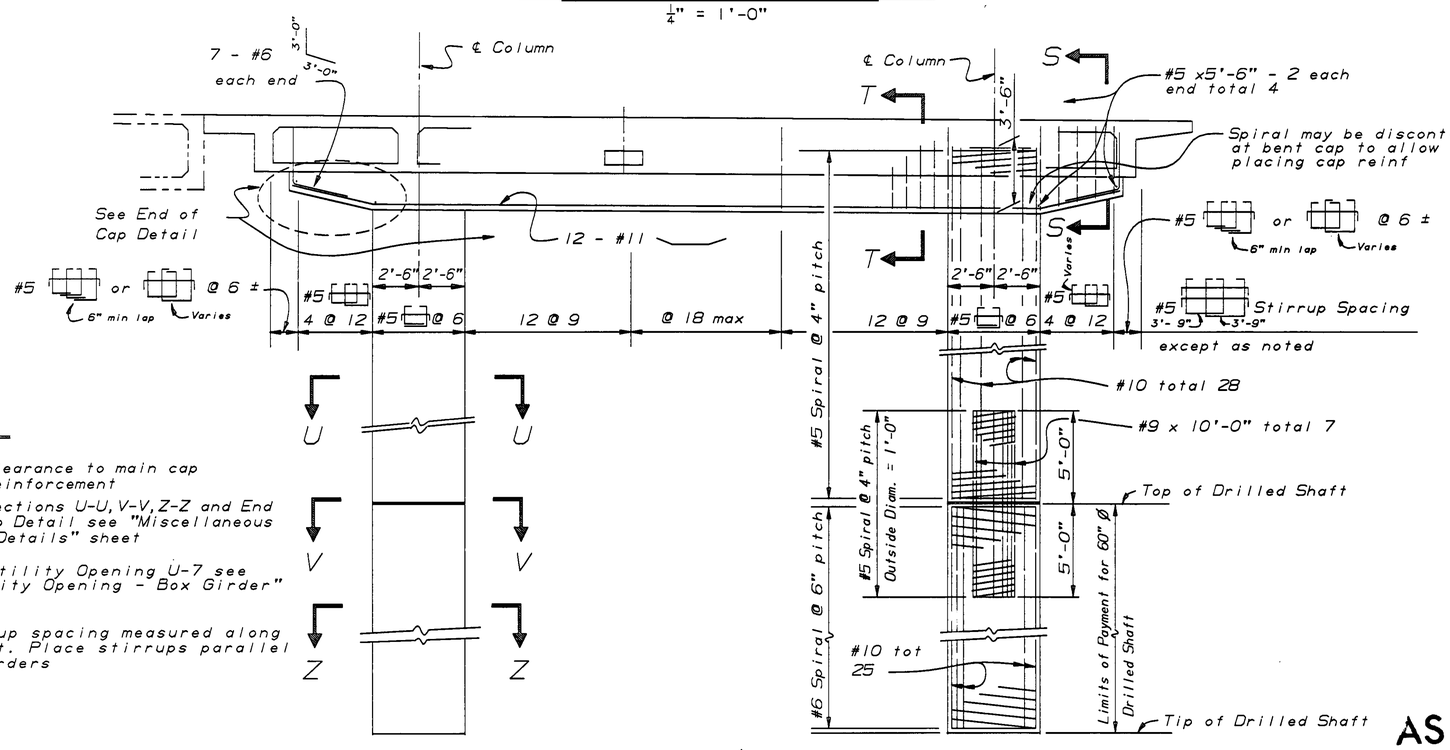
REGISTERED PROFESSIONAL ENGINEER
J Fujimoto
No. 43943
Exp. 06-30-93
CIVIL
STATE OF CALIFORNIA

3-11-91
PLANS APPROVAL DATE



PLAN - BENT 2

1/4" = 1'-0"



Note:

Clearance to main cap reinforcement

For Sections U-U, V-V, Z-Z and End of Cap Detail see "Miscellaneous Bent Details" sheet

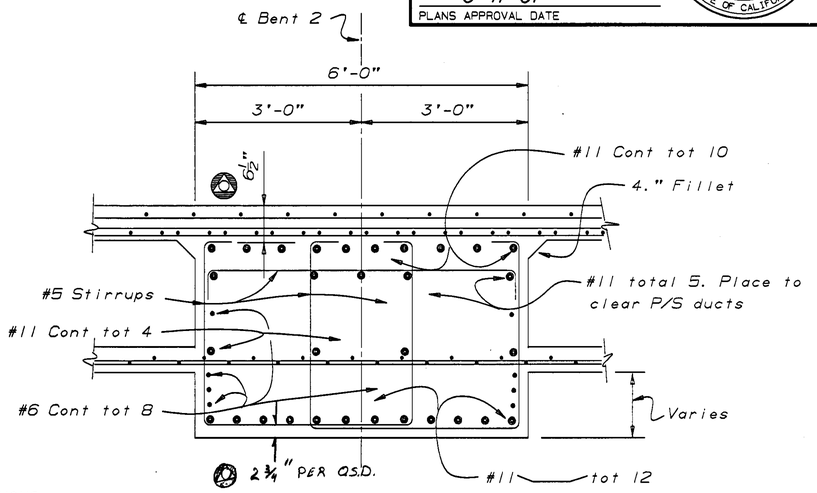
For Utility Opening U-7 see "Utility Opening - Box Girder" sheet

Stirrup spacing measured along ℄ Bent. Place stirrups parallel to girders

ELEVATION - BENT 2

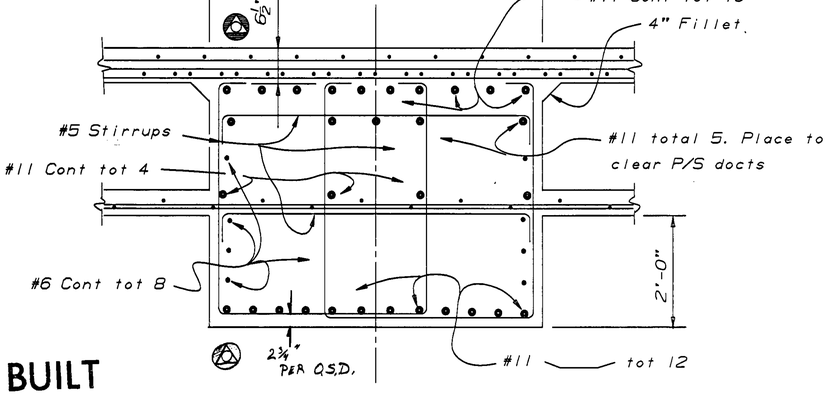
1/4" = 1'-0"

NOTE:
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SECTION S-S

3/4" = 1'-0"



SECTION T- T

3/4" = 1'-0"

AS BUILT

CORRECTIONS BY DAVID VALLEJOS

CONTRACT NO. 06-342934

DATE 4-16-93 VHH 6/6/94

DESIGN	BY Clark Peri	8-90	CHECKED R.E.Bateman	9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 2
DETAILS	BY K-C-B	8-90	CHECKED R.E.Bateman	9-90		
QUANTITIES	BY Clark Peri	9-90	CHECKED R.E.Bateman	9-90		

BRIDGE NO. 42-183
POST MILE 24.4

CLINTON AVE O.C. (WIDEN)
BENT NO 2 DETAILS

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06
EA 342931

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 8-24-90, 10-04-90, 11-26-90

SHEET 13 OF 29

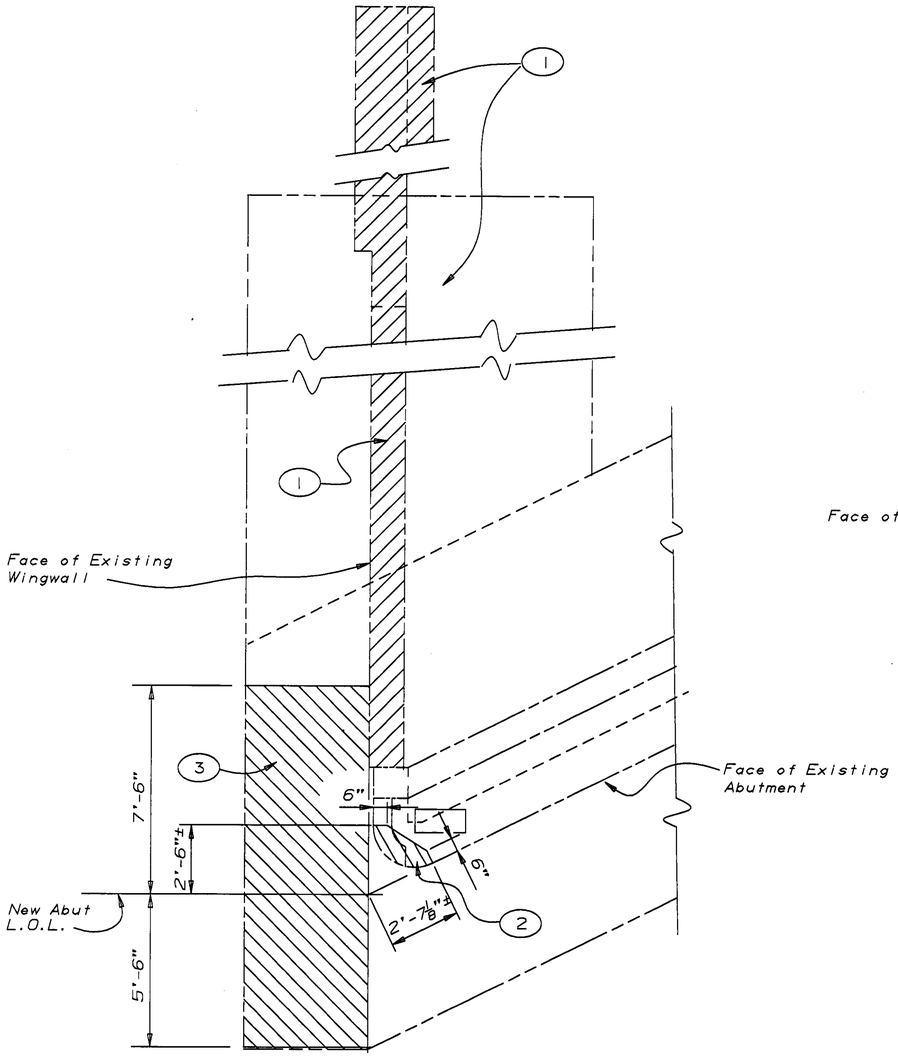
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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	24.4, 26.6	126	199

John Fujimoto
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER
J Fujimoto
No. 43943
Exp. 06-30-93
CIVIL
STATE OF CALIFORNIA

3-11-91
PLANS APPROVAL DATE

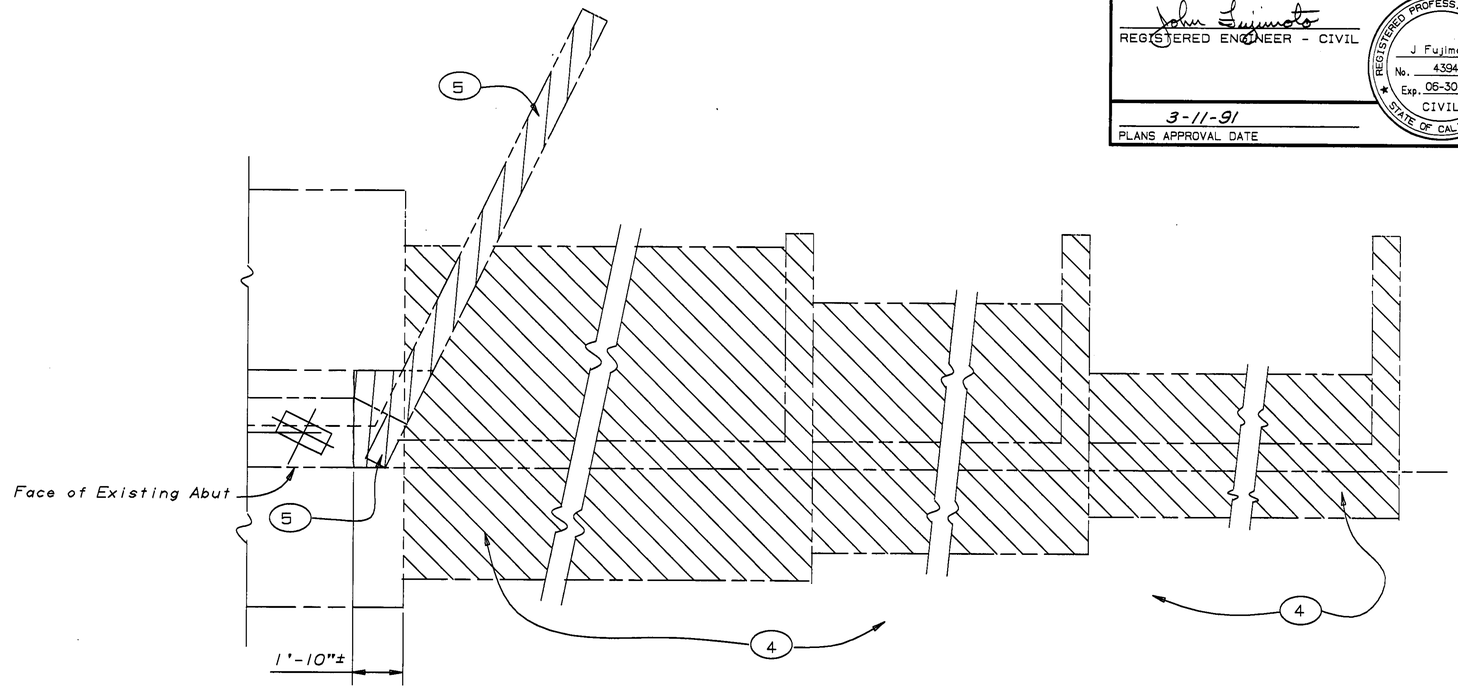


PART PLAN - REMOVAL LIMITS
ABUTMENT 1
3/8" = 1'-0"

(1) *Existing Curb, Railing and top of Wingwall to be removed to 4'-0"± below finish grade for full length of existing Wingwall*

(2) *Rounded corner of existing abutment to be removed from existing soffit to top of existing footing*

(3) *Portion of existing footing to be removed*



PART PLAN - REMOVAL LIMITS
ABUTMENT 6
3/8" = 1'-0"

(4) *Existing Retaining Walls, Return Walls & Retaining Wall Footings to be removed*

(5) *Existing Curb, Cantilevered Wingwall & Abutment end to be removed to top of existing footing*

NO ASBUILT CHANGES

NO ASBUILT CHANGES

"NO AS-BUILT CORRECTIONS"

AS BUILT

CORRECTIONS BY DAVID VALLEJOS

CONTRACT NO. 06-342934

DATE 4-16-93
VHH 6/6/94

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

	BY		CHECKED	
DESIGN	Clark Peri	8-90	R.E.Bateman	9-90
DETAILS	K-C-B	9-90	R.E.Bateman	9-90
QUANTITIES	Clark Peri	9-90	R.E.Bateman	9-90

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 2

BRIDGE NO. 42-183
POST MILE 24.4

CLINTON AVE O.C. (WIDEN)
ABUTMENT DETAILS NO 7

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06
EA 342931

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 9-14-90 | 10-08-90 | 11-26-90

SHEET 12 OF 29

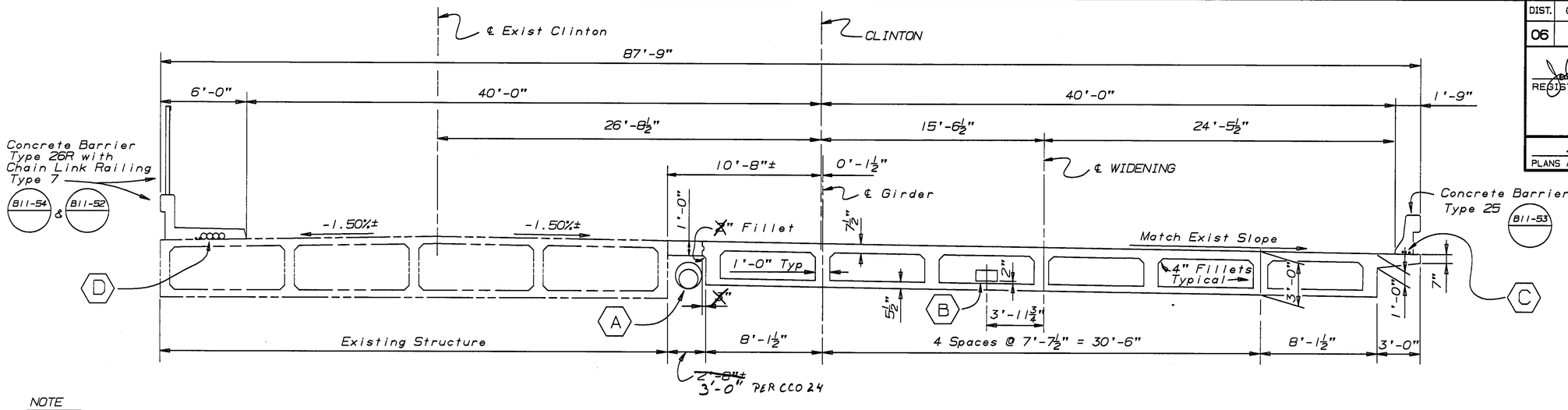
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06	Fre	99	24.4, 26.6	131	199

John Fujimoto
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — J Fujimoto — No. 43943 — Exp. 06-30-93 — CIVIL — STATE OF CALIFORNIA

3-11-91
PLANS APPROVAL DATE



NOTE

(A) 16" Water Line in ~~22~~ 24" PER CCO 24 Casing. Fresno City Water Division. For details see "Water Line Details" sheet

(B) Future Utility Open H = 0'-9" W = 2'-0"

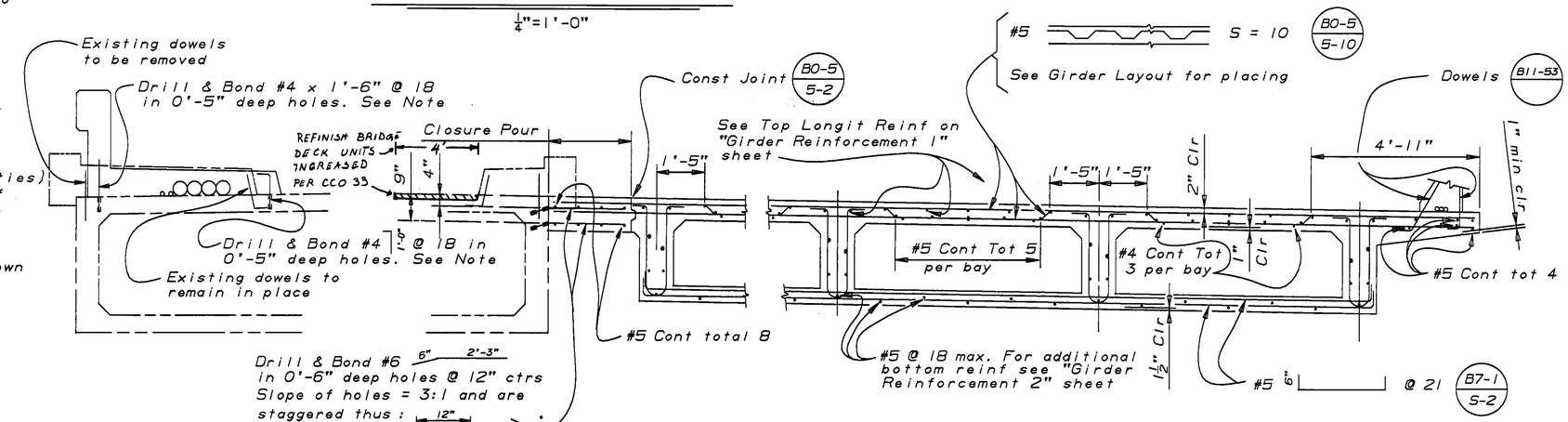
(C) 3 - 1½"Ø Rigid Conduit. 1 - City of Fresno. 2 - State of Calif.

(D) 4 - 5"Ø Ducts (For Future Utilities) 1 - 1½"Ø Rigid Conduit - City of Fresno. 1 - 1½"Ø Rigid Conduit - State of Calif

Drill & Bond dowels replace #4s as shown on Standard Plan (B11-54)

TYPICAL SECTION

¼"=1'-0"



PART TYPICAL SECTION

(B7-1 B-1) (B0-5 5-15) (B8-5)

½" = 1'-0"

AS BUILT
CORRECTIONS BY DAVID VALLESOS
CONTRACT NO. 06-342934
DATE 4-16-93
VH# 6/6/94

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

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DETAILS	BY K-C-B	6-90	CHECKED R.E.Bateman	9-90	
QUANTITIES	BY Clark Peri	9-90	CHECKED R.E.Bateman	9-90	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 2

CU 06
EA 342931

BRIDGE NO. 42-183
POST MILE 24.4

CLINTON AVE O.C. (WIDEN)
TYPICAL SECTION

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 8-15-90 · 08-20-90 · 10-04-90 · 11-07-90 · 11-29-90 · 12-03-90

SHEET 17 OF 29

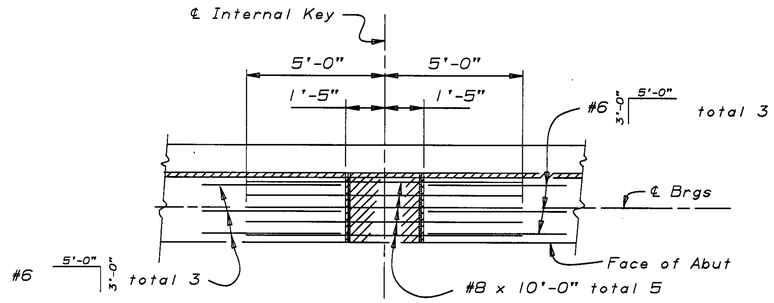
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	24.4, 26.6	125	199

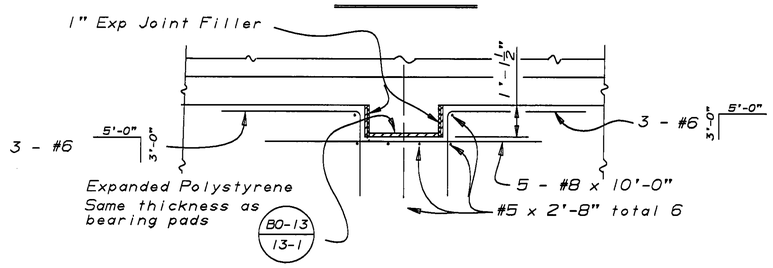
John Fujimoto
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — J Fujimoto — No. 43943 — Exp. 06-30-93 — CIVIL — STATE OF CALIFORNIA

3-11-91
PLANS APPROVAL DATE



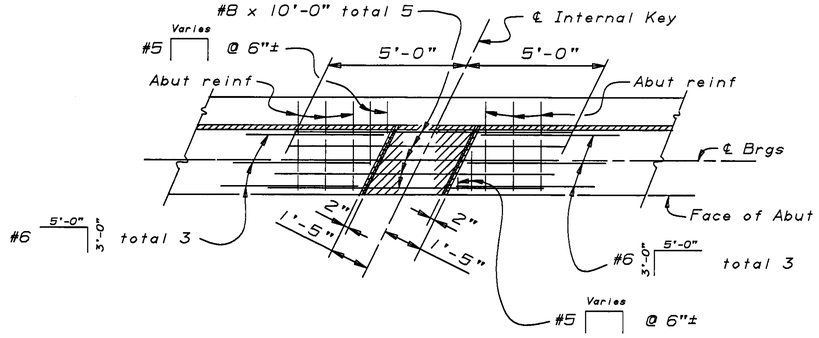
PLAN



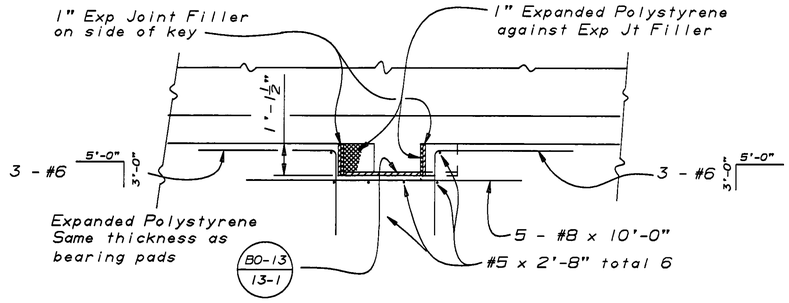
ELEVATION

INTERNAL KEY DETAIL - ABUT 1

3/8" = 1'-0"



PLAN



ELEVATION

INTERNAL KEY DETAIL - ABUT 6

3/8" = 1'-0"

NO [illegible]
"NO AS-BUILT CORRECTIONS"
AS BUILT

CORRECTIONS BY DAVID VALLEJOS
CONTRACT NO. 06-342934
DATE 4-16-93
VHH 6/6/94

Note:
For location of Internal Keys see "Abutment 1 Layout" and "Abutment 6 Layout" sheets

NOTE:
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DESIGN	BY Clark Peri 8-90	CHECKED R.E.Bateman 9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 2	BRIDGE NO. 42-183
DETAILS	BY K-C-B 8-90	CHECKED R.E.Bateman 9-90			POST MILE 24.4
QUANTITIES	BY Clark Peri 9-90	CHECKED R.E.Bateman 9-90			

CLINTON AVE O.C. (WIDEN)
ABUTMENT DETAILS NO 6

DS OSD 2139 (CADD 4/89) — ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 — CU 06 EA 342931 — DISREGARD PRINTS BEARING EARLIER REVISION DATES → — REVISION DATES (PRELIMINARY STAGE ONLY): 8-24-90, 10-02-90, 11-26-90 — SHEET 11 OF 29

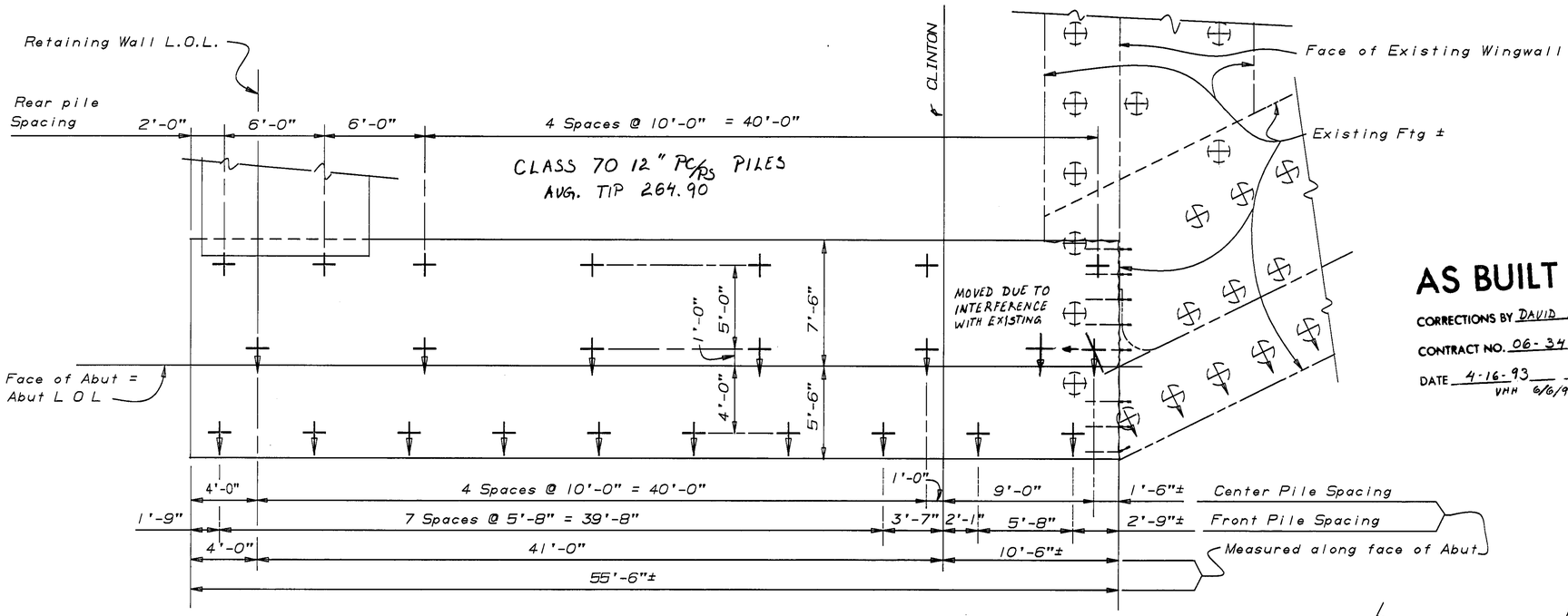
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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	24.4, 26.6	120	199

John Fujimoto
REGISTERED ENGINEER - CIVIL

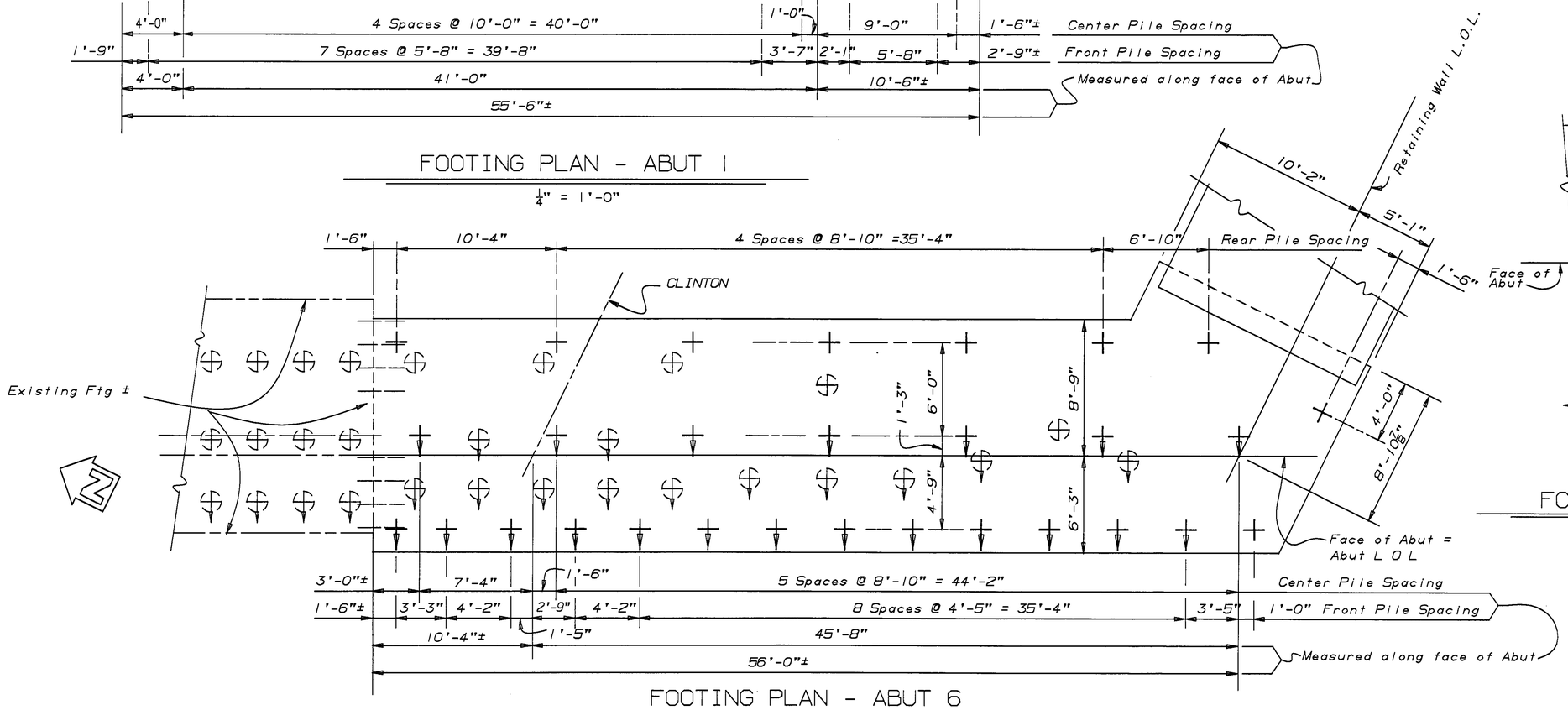
REGISTERED PROFESSIONAL ENGINEER
J Fujimoto
No. 43943
Exp. 06-30-93
CIVIL
STATE OF CALIFORNIA

3-11-91
PLANS APPROVAL DATE



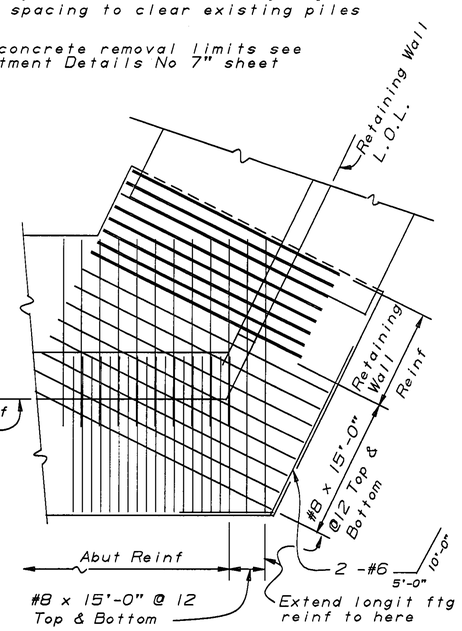
FOOTING PLAN - ABUT 1

$\frac{1}{4}$" = 1'-0"



FOOTING PLAN - ABUT 6

$\frac{1}{4}$" = 1'-0"



FOOTING REINF - S E END

ABUT 6

$\frac{1}{4}$" = 1'-0"

AS BUILT

CORRECTIONS BY DAVID VALLEJOS

CONTRACT NO. 06-342934

DATE 4-16-93 VHN 6/6/94

Note:

- Indicates new vertical pile
- Indicates new battered pile, battered 1:3
- & Indicates assumed location and batter direction of existing pile

The Engineer in the field may adjust pile spacing to clear existing piles

For concrete removal limits see "Abutment Details No 7" sheet

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	BY Clark Peri	7-90	CHECKED R.E.Bateman	9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY K-C-B	7-90	CHECKED R.E.Bateman	9-90	
QUANTITIES	BY Clark Peri	9-90	CHECKED R.E.Bateman	9-90	

DIV ION OF STRUCTURES
ST UCTURE DESIGN 2

CL 06
EA 42931

BRIDGE NO.	CLINTON AVE O.C. (WIDEN)
42-183	
POST MILE	ABUTMENT DETAILS NO 1
24.4	

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 7-24-90 08-01-90 09-04-90 10-05-90 10-29-90 11-21-90 11-30-90

SHEET 6 OF 29

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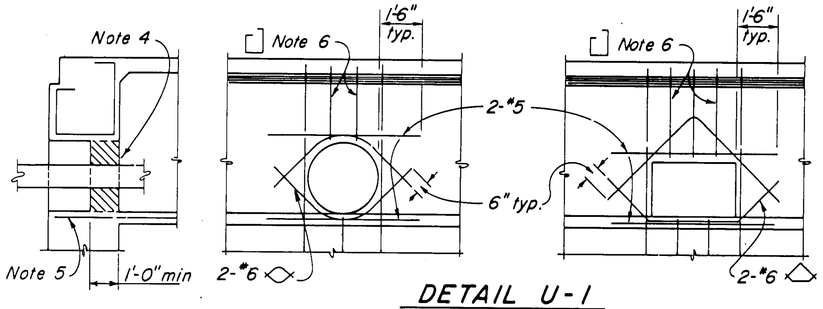
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	24.4, 26.6	138	199

John Fujimoto
REGISTERED ENGINEER - CIVIL

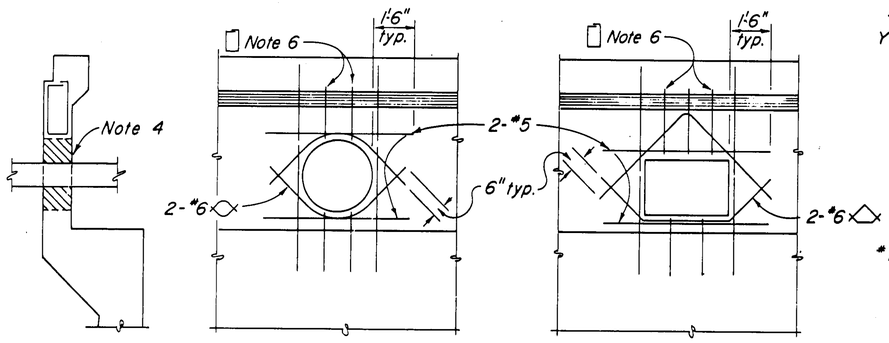
3-11-91
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — J Fujimoto — No. 43943 — Exp. 06-30-93 — CIVIL — STATE OF CALIFORNIA

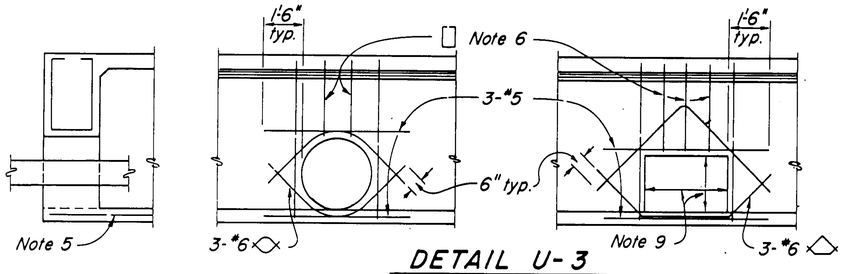
ABUTMENT DIAPHRAGMS



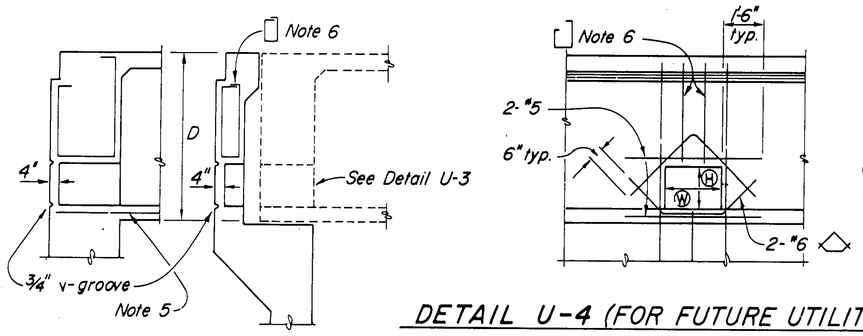
DETAIL U-1



DETAIL U-2

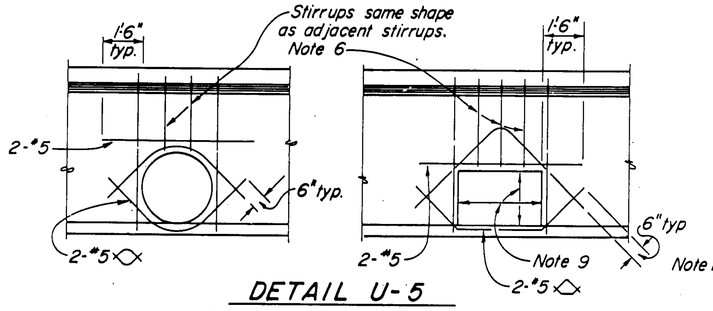


DETAIL U-3

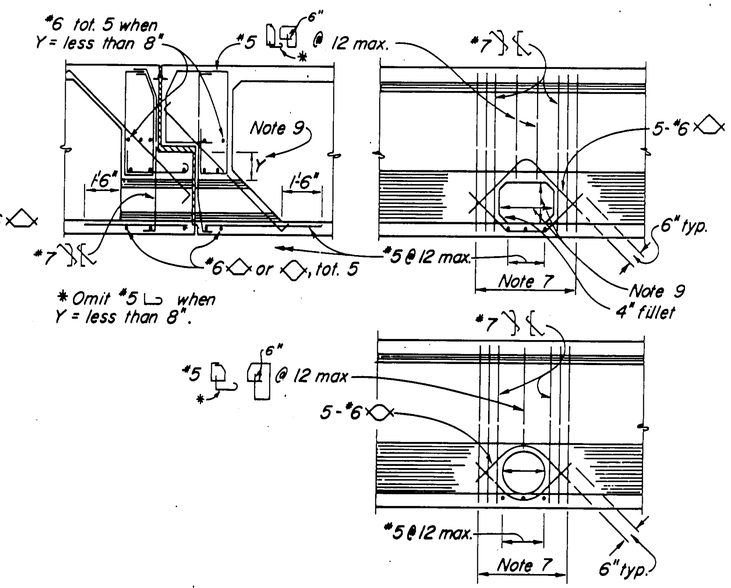


DETAIL U-4 (FOR FUTURE UTILITY OPENING)

INTERMEDIATE DIAPHRAGMS AND HINGES



DETAIL U-5
AT INTERMEDIATE DIAPHRAGM



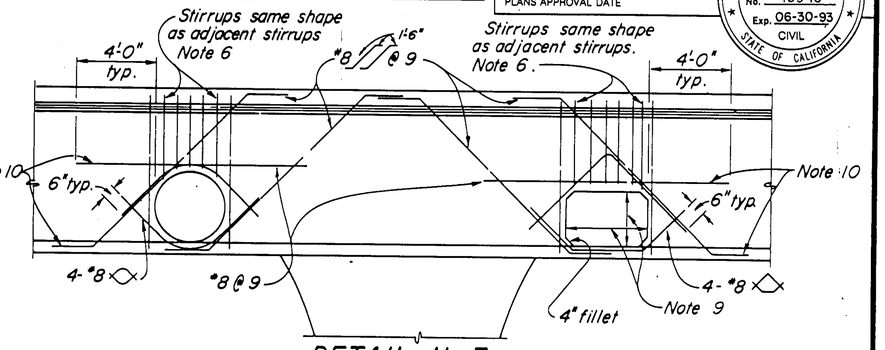
DETAIL U-6
AT HINGE

For future utility opening dimensions not shown on Project Plans use :

(H) = 1/3 D or 1'-6" min., whichever is greater.

(W) = 1/3 D or 2'-0" min., whichever is greater.

BENT CAPS



DETAIL U-7
NEAR OR BETWEEN COLUMNS

NOTE: This sheet supersedes Sheet No B7-10, page 123 of the Standard Plans dated January, 1988 for this bridge only.

"NO AS-BUILT CORRECTIONS"

AS BUILT

CORRECTIONS BY DAVID VALLEJOS

CONTRACT NO. 06-342934

DATE 4-16-93
JAH 6/6/94

NO ASBUILT CHANGES

NOTES:

1. The exact location, elevation, size and direction of openings shall be in accordance with the Project Plans and as directed by the Engineer.
2. Girders not shown. See Project Plans.
3. All reinf. detailed to be placed in addition to reinf. shown on Project Plans.
4. Seal utilities at abutments with concrete or mortar, after tightly wrapping utility with 2 layers of 15# building paper. If structure is prestressed, seal to be placed after stressing is completed.

REV 9/90

5. Main reinf. to clear opening.
6. Reinf. to be same bar size and spaced at 3" above all utility openings.

(2)

7. Replace each set of 4-#7 bars cut off by opening. Place 1/2 on each side of opening.
8. When "Y" is less than 8", extend top of opening to bottom of bearing seat elevation.
9. For future utility opening dimensions, see Project Plans and Detail U-4.
10. When there is insufficient space to place reinf. as shown, hook reinf. into exterior girder.

SPECIAL DETAILS

STANDARD DRAWING				
FILE No. XS-16-49	DESIGN	By	Checked caa CWP	Approval Recommended By
DRAWING DATE	DETAILS	By K-C-B	Checked	
	SUBMITTED BY	Ra Rogerson		REGISTERED CIVIL ENGINEER NUMBER 8198

(1) "Detail U-8" deleted

(2) Note deleted. Notes 8 thru 11 renumbered

REVISED NOTE 6

State of CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 2

BRIDGE NO. 42-183

POST MILE 24.4

CLINTON AVE O.C. (WIDEN)

UTILITY OPENING - BOX GIRDER

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU. 06
EA 342931

Disregard prints bearing earlier revision dates →

REVISION DATES (PRELIMINARY STAGE ONLY): 3/8/90, 11/29/90

SHEET 24 OF 29

DH-CS (1147 Rev.)

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NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

NOTES:

Indicates width of girder stem in inches

Or #5 ——— (B0-5 / 5-11) S = 10

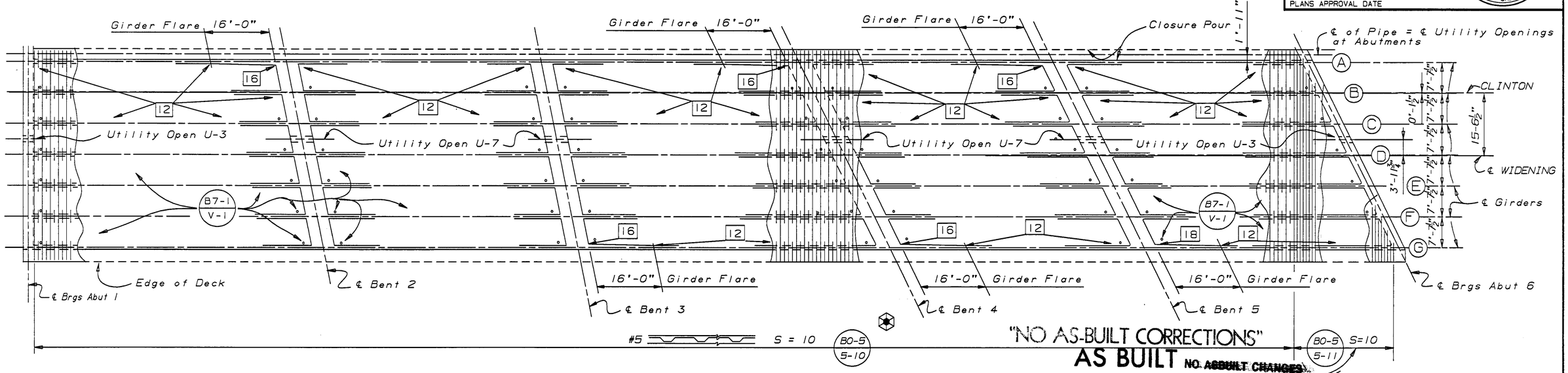
L1, L2, L3, L4 & L5 = Girder lengths measured along ℄ Girders

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	24.4, 26.6	132	199

REGISTERED ENGINEER - CIVIL

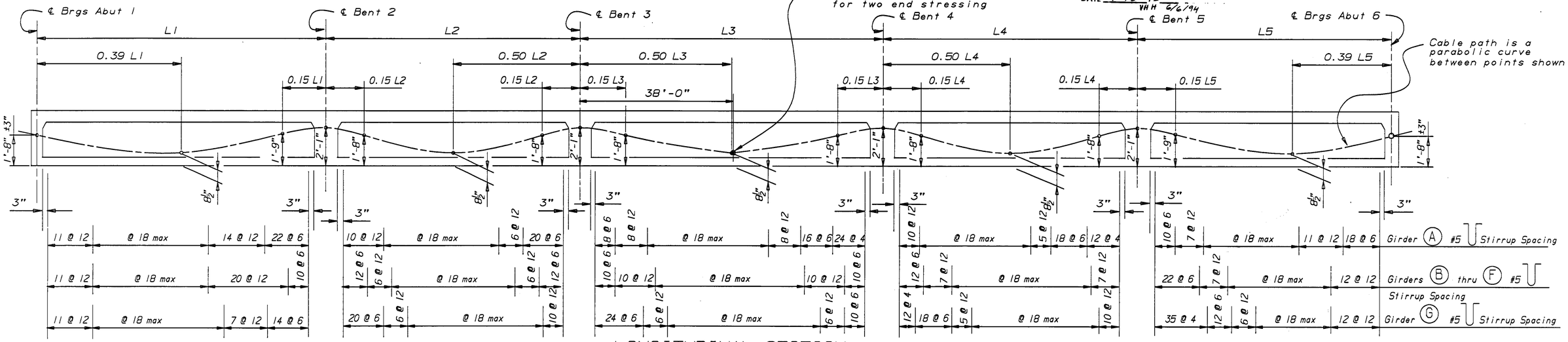
REGISTERED PROFESSIONAL ENGINEER — J Fujimoto — No. 43943 — Exp. 06-30-93 — CIVIL — STATE OF CALIFORNIA

3-11-91
PLANS APPROVAL DATE



GIRDER LAYOUT

No Scale



LONGITUDINAL SECTION

No scale

DESIGN	BY Clark Peri 10-90	CHECKED R.E.Bateman 9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 2	BRIDGE NO. 42-183
DETAILS	BY K-C-B 6-90	CHECKED R.E.Bateman 9-90			POST MILE 24.4
QUANTITIES	BY Clark Peri 9-90	CHECKED R.E.Bateman 9-90			

CLINTON AVE O.C. (WIDEN)
GIRDER LAYOUT

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06
EA 342931

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 6-25-90, 10-04-90, 10-26-90, 11-27-90

SHEET 18 OF 29

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Revised 7-52 R.A.
Detail E-3

FED. ROAD IDENTIFICATION	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
.2-	CAL.			16T	16T

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VII	Fre	—	—	21T	21

APPROVED ... April 26, 1954

STANDARD DRAWING

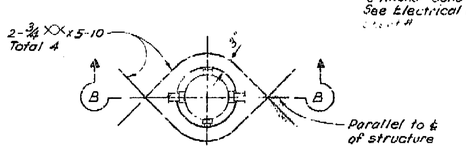
	Initial	Date
Detail Chk.	RJ	1-50
Quant. Check		
Supervised		

BRIDGE DEPARTMENT

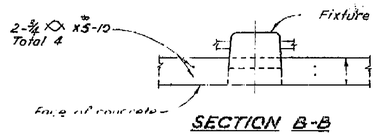
DESIGN 7 SECTION

DESIGN DETAILS QUANTITIES ESTIMATE CHECKED

ADDED REINFORCEMENT

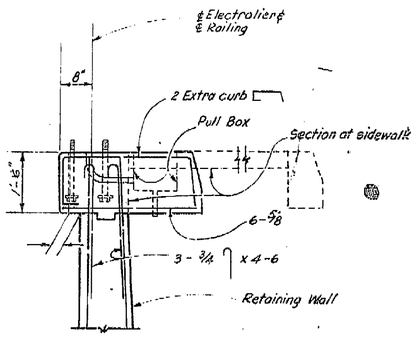


SECTION B-B

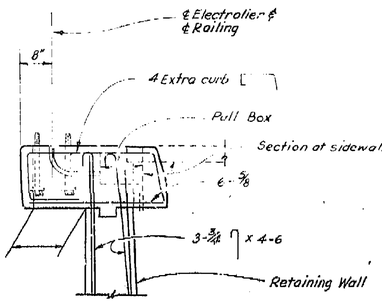


RECESSED SOFFIT LIGHT

DETAIL F-1

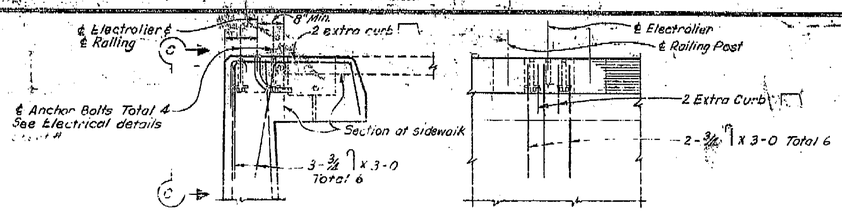


SECTION A-A
DETAIL R-2



SECTION A-A
DETAIL R-3

REINFORCEMENT AT RETAINING WALLS

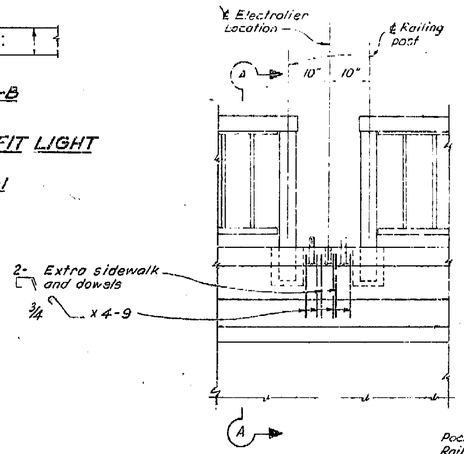


SECTION A-A

ELEVATION C-C

REINFORCEMENT AT RETAINING WALL

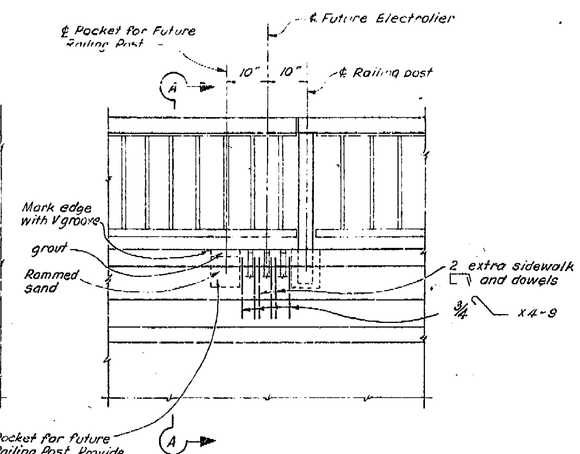
DETAIL R-1



OPENING IN RAIL

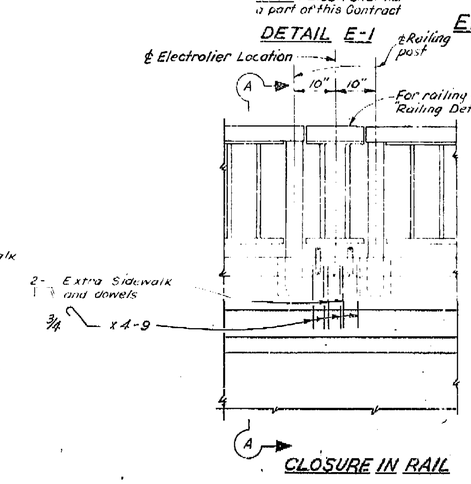
NOTE: Electrolier not a part of this Contract

DETAIL E-1



CONTINUOUS RAIL

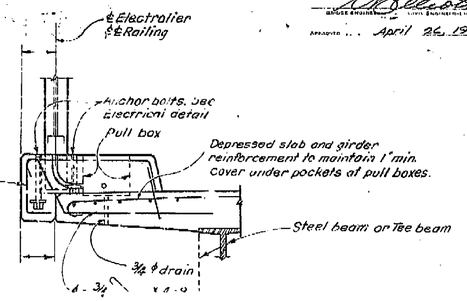
DETAIL E-2



CLOSURE IN RAIL

DETAIL E-3

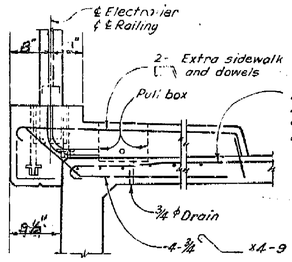
ELEVATION



PART SECTION A'-A'

DETAIL E-5

NOTE: Sections A'-A' taken at identical location with Sections A-A as shown.



PART SECTION A-A

DETAIL E-4

CLINTON AVENUE OVERCROSSING

FUTURE ELECTROLIER DETAILS

FOR STEEL RAILS

NOTE:
For electrolier locations see

Where ½" expansion joint material is called for in curbs, sidewalks at midspans and at curb dowels, make joints 2" min. from ℄ Electroliers.

For Electrical details see

For further detail of Railing see

NO AS BUILT CORRECTION
CORRECTIONS BY DE CARLSON
CONTRACT NO. 55-6TC4
DATE 12/2/55 Rev. 3/11/58

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CLINTON AVENUE OVERCROSSING

LIGHTING REINFORCEMENT

SCALE: None | BRIDGE 42-183 | File | DRAWING 6-3612-3

FREE DRAWING NO. 2-6-4 | 13

AS BUILT PLANS
Contract No. 55-6TC4
Date Completed
Document No. 60000992

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 1-30-80 SIGNATURE Joseph M Cota TITLE SUPERVISOR OF MICROFILM SERVICES

DAS-55-70

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U-0194(1)

FED. AID DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL			166	167

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TO. NO.
VI	Fre	26	C	600	21

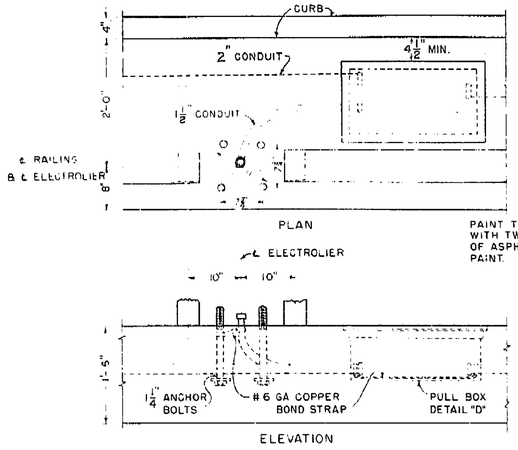
To accompany plans dated April 26, 1955

Traffic Engineer
Civil Engineer License No. 5429

BRIDGE DEPARTMENT

DESIGN SECTION

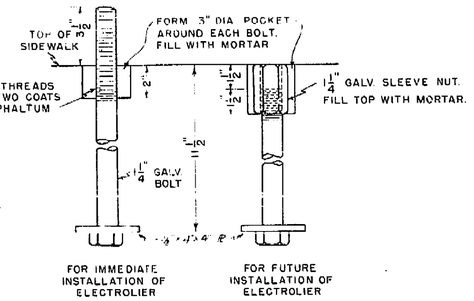
Submitted by DESIGN DETAILS QUANTITIES SPECIFICATIONS



TYPICAL ELECTROLIER BASE — DETAIL "A"

SCALE: 1" = 1'-0"

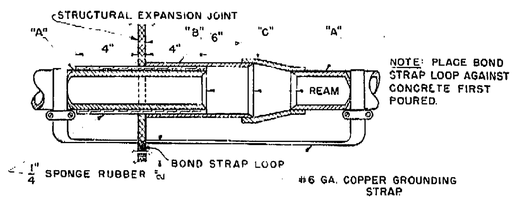
EXCEPT AS NOTED IN LIGHTING PLAN, ANCHOR BOLTS SHALL BE ARRANGED FOR IMMEDIATE ELECTROLIER INSTALLATION.



ANCHOR BOLTS

SCALE: 3" = 1'-0"

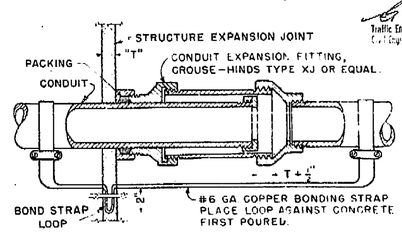
A	B	C
1 1/2"	2 1/2"	2 1/2" — 1 1/2"
2"	3"	3" — 2"



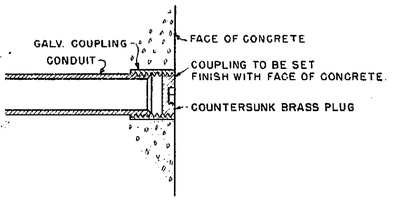
EXPANSION JOINT FITTING — DETAIL "Y"

SCALE: 3" = 1'

2" CONDUIT SHOWN. CONSTRUCTION SIMILAR FOR OTHER SIZE CONDUIT. GALVANIZE FITTING AFTER FABRICATION

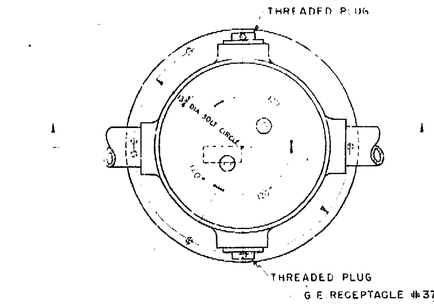


CONDUIT EXPANSION FITTING — DETAIL "X"



CONDUIT STUB — DETAIL "C"

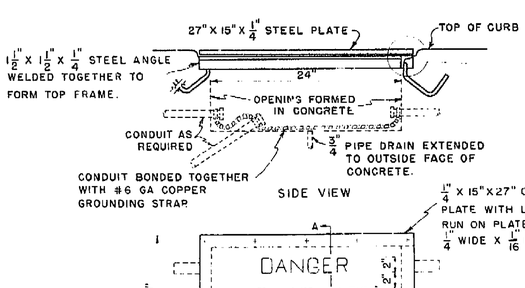
NOT TO SCALE

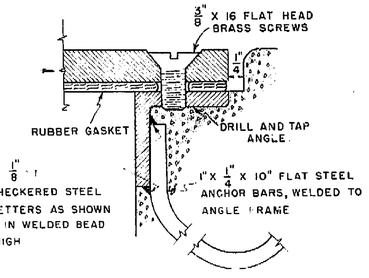


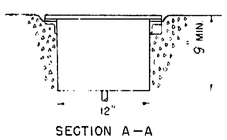
RECESS SOFFIT LIGHT — DETAIL "E"

SCALE 1/4" = 1"

HOLOPHANE #15545 UNLESS OTHERWISE SPECIFIED. FIXTURE TO BE INSTALLED WITH AXIS VERTICAL AND LIGHT DIRECTED TOWARDS CENTER OF ROADWAY



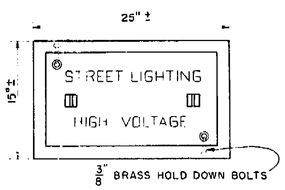


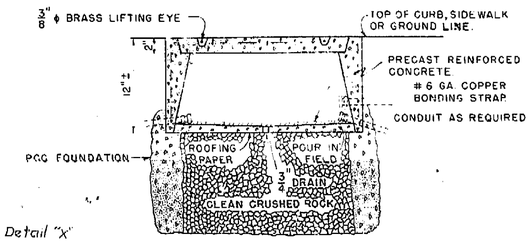


NOTE: FRAME AND COVER TO BE GALVANIZED AFTER FABRICATION.

TYPICAL BRIDGE PULL BOX — DETAIL "D"

SCALE: 1 1/2" = 1'-0"





PULL BOX — DETAIL "B"

PRECAST CONCRETE BOX AND COVER SHALL BE FRAZER CEMENT PRODUCTS CO. CONCRETE PULL BOX OR EQUAL.

LEGEND

- Conduit, size indicated
- Conduit Expansion Joint, Detail "X"
- Pull Box (Detail B or D as indicated)
- Conduit Stub, Detail "C"
- Future Electrolier Base, Detail "A"
- Soffit Light Shells Only, Detail "E"

NO AS BUILT CORRECTION

CORRECTIONS BY DE CARLSON

CONTRACT NO. 55-6TC4

DATE 12/6/55 Qc 9/11/79

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CLINTON AVENUE OVERCROSSING

STANDARD ELECTRICAL DETAILS - BRIDGE

SCALE AS NOTED	BRIDGE 42-163	FILE	DRAWING B-3413

PREL. DRAWING NO. P-3413

AS BUILT PLANS
Contract No. 55-6TC4
Date Completed
Document No. 60000992

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 1-30-80 SIGNATURE Joseph M Carter TITLE SUPERVISOR OF MICROFILM SERVICES

DAS-95-70

ClibPDF - www.fastio.com

U-6004 (1)

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO	TOTAL SHEETS
7	CAL.			165	167

DIST.	COUNTY	ROUTE	SECTION	SHEET NO	TOTAL SHEETS
VI	Fre	[illegible]	C	19	21

99

E. T. Scott
District Engineer

DATE APPROVED: April 26, 1955

S. M. Webb
Traffic Engineer
Civil Engineer License No. 5429

BRIDGE DEPARTMENT

Submitted by	Date Submitted
DESIGN by RHC	12-55
DETAILS by A.M.	4/56
QUANTITIES by	
SPECIFICATIONS by	
Approved/Recommended by — RCC	2/24/56

PROFILE GRADE
Scale: 1" = 10'

ELEVATION
Scale: 1" = 20'

PLAN
Scale: 1" = 20'

TYPICAL SECTION
Scale: 3/16" = 1'-0"

NOTE: THIS PLAN ACCURATE FOR LIGHTING ONLY

AS BUILT
CORRECTIONS BY D.E. CARLSON
CONTRACT NO. 55-6TC4
DATE 12/2/55 Qm 9/4/59

For Legend see "Standard Electrical Details-Bridge"

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CLINTON AVENUE OVERCROSSING
LOCATED 1-3/4 MILES NORTH OF THE BELMONT AVENUE TRAFFIC CIRCLE (ROEDING PARK) OF FRESNO ON ROAD

LIGHTING PLAN

SCALE As noted	BRIDGE 42-153	FILE	DRAWING D-3413-23 19

PREL. DRAWING NO. P-3413

AS BUILT PLANS
Contract No. 55-6TC4
Date Completed
Document No. 60000992

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.
DATE 1-30-80 SIGNATURE Joseph M Cota TITLE SUPERVISOR OF MICROFILM SERVICES

ClibPDF - www.fastio.com

UI-0194 (1)

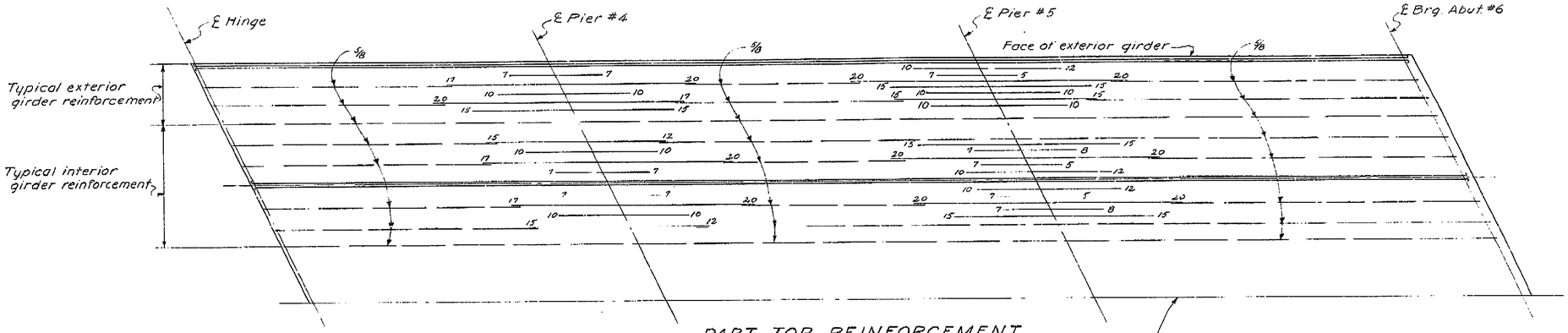
FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.			157	167

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre			11	21

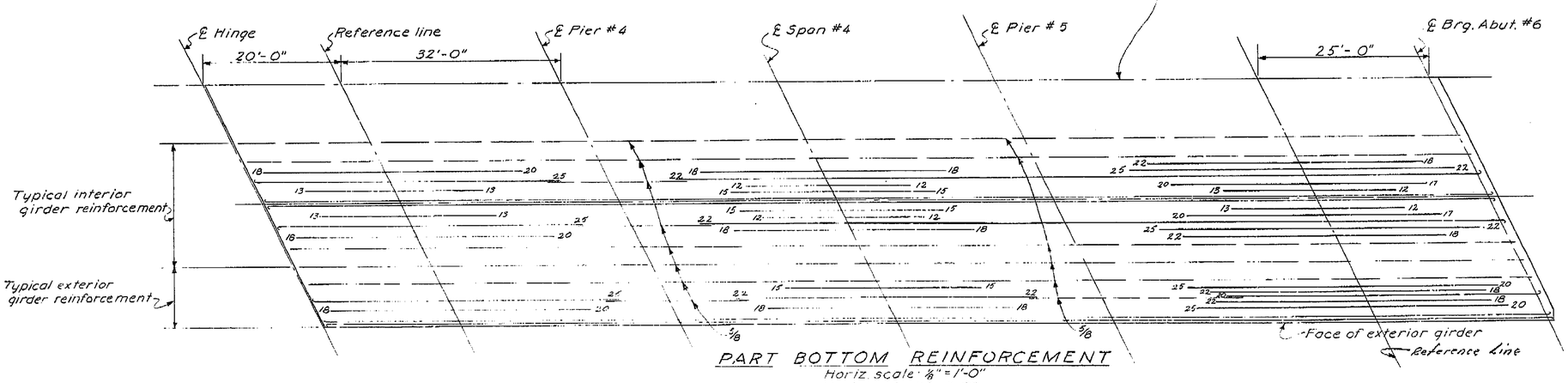
BRIDGE ENGINEER CIVIL ENGINEER LICENSE 5383

DATE APPROVED April 26, 1954

BRIDGE DEPARTMENT



PART TOP REINFORCEMENT
Horiz. scale: 1/8"=1'-0"
Vert. scale: 1/4"=1'-0"



PART BOTTOM REINFORCEMENT
Horiz. scale: 1/8" = 1'-0"
Vert. scale: 1/4" = 1'-0"

NOTE: See previous sheet for notes.

AS BUILT
CORRECTIONS BY D.R. CARLSON
CONTRACT NO. 55-61C4
DATE 12/24/55 Qp. 9/11/59

Submitted by			
DESIGN	Detail W.B.M. 2-54		
DETAILS	Check A.M. 2-54		
QUANTITIES	Detail C.G.G. 1-54		
SPECIFICATIONS	Checked		
Approved for Submission	Engr. of Bridges	Asst. Chief Engr.	Chief Engr.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CLINTON AVENUE OVERCROSSING

GIRDER REINFORCEMENT #2

SCALE	BRIDGE	FILE	DRAWING
As noted	42-183		C-3413-11

PREL. DRAWING NO. P-3413 [X] [ ]

AS BUILT PLANS
Contract No. 55-61C4
Date Completed 12-24-55

I CERTIFY THAT THIS IS A TRUE AND CORRECT COPY OF THE AS BUILT RECORD PLANS AS APPROVED BY THE DIRECTOR OF TRANSPORTATION.
DATE 7-15-60 SIGNED [illegible] TITLE SUPERVISOR OF BRIDGE RECORDS & SERVICES

ClibPDF - www.fastio.com

UI-0194(1)

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.			156	167

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre			10	21

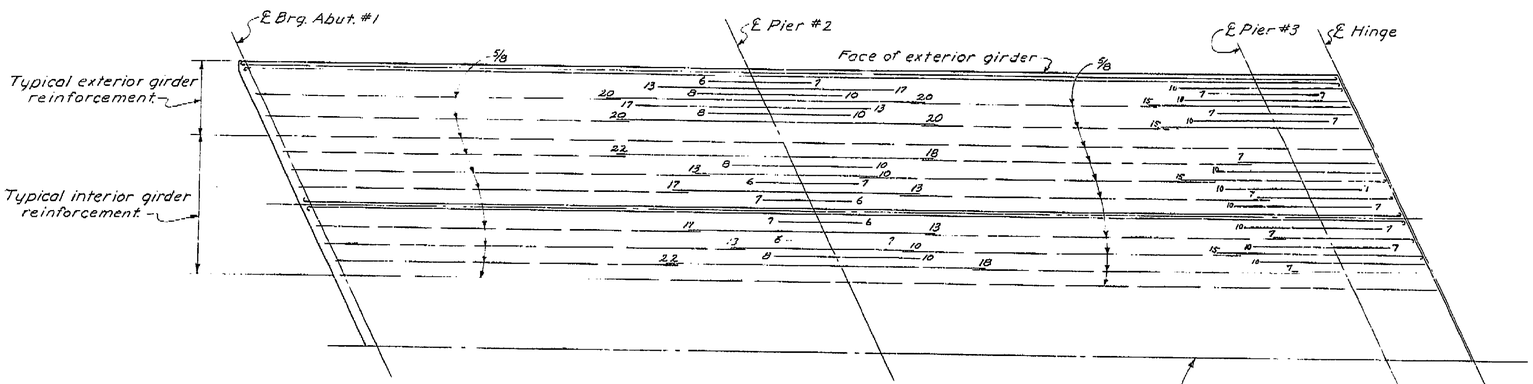
Wilbur Brandt CIVIL ENGINEER LICENSE 5283

DATE APPROVED April 26, 1954

BRIDGE DEPARTMENT

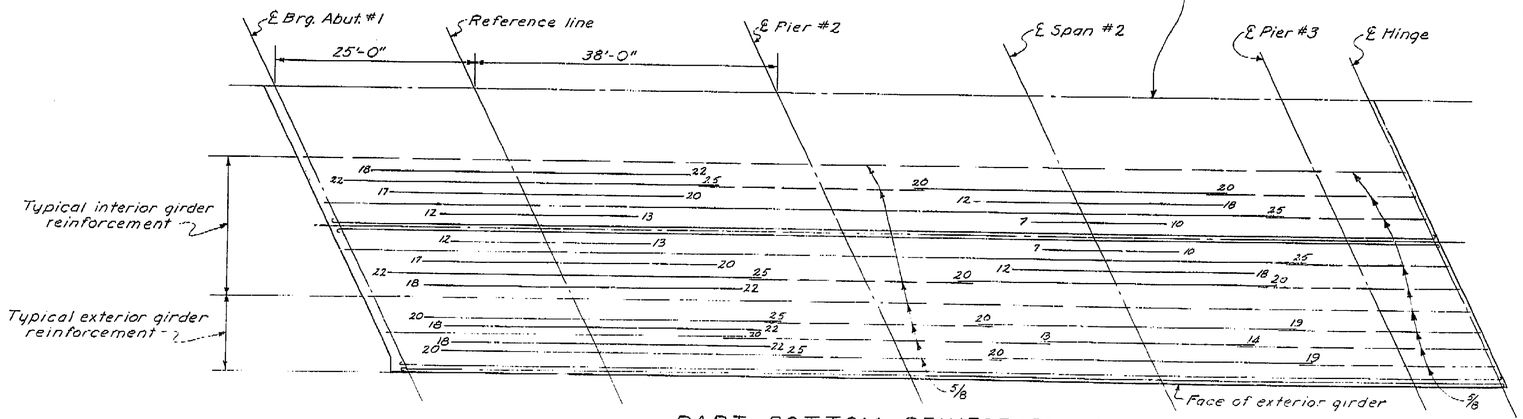
DESIGN BASIS 7 SECTION

Submitted by:			
DESIGN	By RLM 2-54	Date WBM 2-54	
DETAILS	By AM 2-54	Date WAH 2-54	
QUANTITIES	By DEC 2-54	Date 2-54	
SPECIFICATIONS	By	Date	
Approved Recommended for Approval:		Date	Plan No. 3576 to 3588



PART TOP REINFORCEMENT

Horiz. scale: ⅛"=1'-0"
Vert. scale: ½"=1'-0"



PART BOTTOM REINFORCEMENT

Horiz. scale: ⅛"=1'-0"
Vert. scale: ¼"=1'-0"

NOTE: All bars 1¼ unless otherwise noted. Numbers at ends of bars indicate distance from ℄ pier or ℄ reference line. Use 35 dia. lap when splicing 1¼ continuous bars in top of girder stems.

AS BUILT
CORRECTIONS BY D.E. CARLSON
CONTRACT NO. 55-6TC4
DATE 12/2/55 Dp 9/14/56

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CLINTON AVENUE OVERCROSSING

GIRDER REINFORCEMENT #1

SCALE	BRIDGE	FILE	DRAWING
As noted	42-183		B-3413-10

PREL. DRAWING NO. P-3413 B 53

AS BUILT PLANS
Contract No. 55-6TC4
Date Completed 1956

AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION
SUPERVISOR OF BRIDGE DRAWINGS

ClibPDF - www.fastio.com

VI-0194(1)

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2	CAL.			162	167

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	6		16	21

Approved April 26, 1954

STANDARD DRAWING

Submitted by ... Date ... 2-54 8-5-54

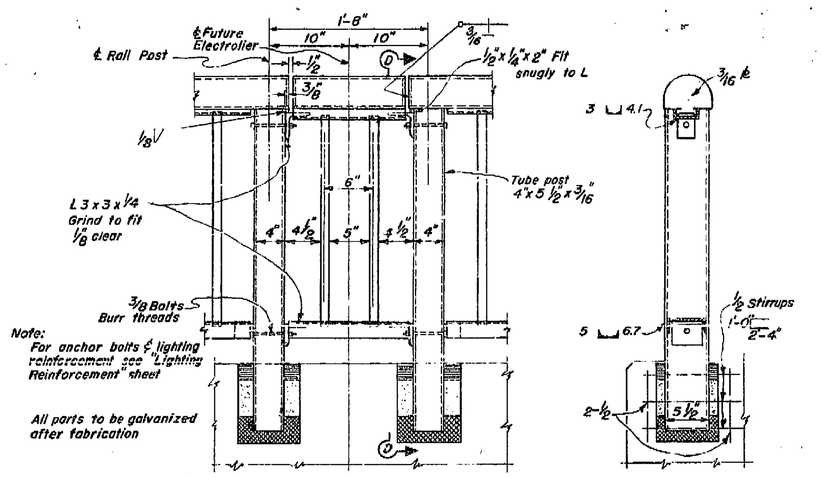
DESIGN — Standard Rail Details — Checked W.R.M. 7-54
DETAILS — Checked W.R.M. 7-54
QUANTITIES — Checked A.M. 2-54
SPECIFICATIONS — Checked
APPROVAL RECOMMENDED — DIVISION OF DESIGN

DESIGN 7

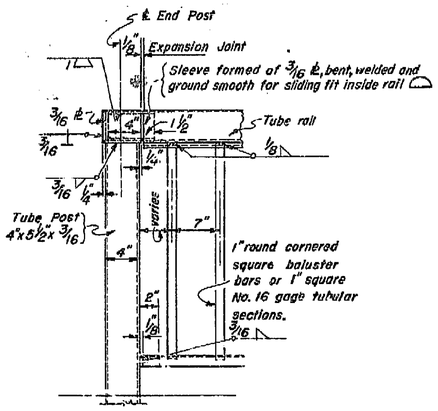
BRIDGE DEPARTMENT

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

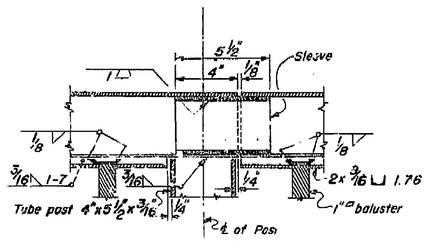
SUBMITTED BY ... DATE 2-54
DESIGN
DETAILS
QUANTITIES
SPECIFICATIONS
APPROVAL RECOMMENDED ... DIVISION OF DESIGN



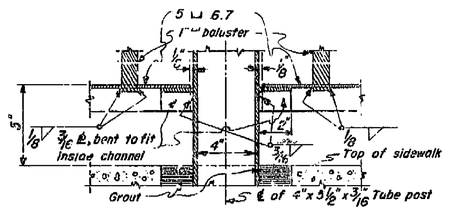
RAILING CLOSURE-DETAIL E-3 Scale: 1 1/2"=1'-0" SECTION D-D



SINGLE END POST
Scale: 1 1/2" = 1'-0"



SECTION (H)-(H)
Scale: 3" = 1'-0"



SECTION (G)-(G)
Scale: 3" = 1'-0"

NOTES:

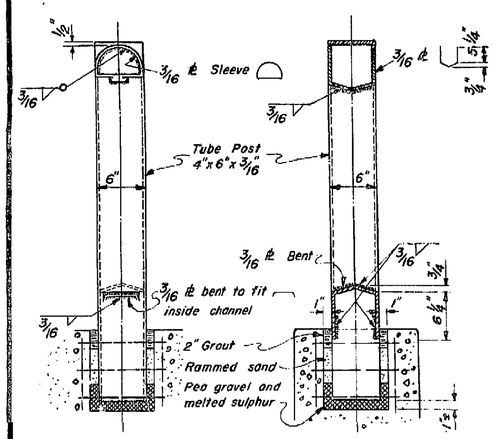
Space posts to clear expansion joints by 9" min. to ℄ of post.

Exact post hole locations are to be determined from approved railing shop plans.

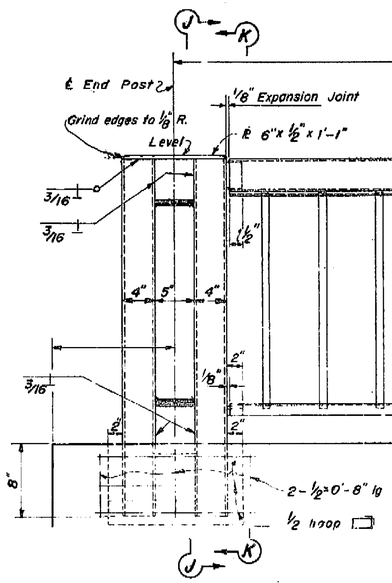
Railing shall conform to horizontal and vertical alignment. Posts and balusters shall be vertical with a maximum deviation not to exceed that represented by a rise of 1/4" in one panel.

Railing to be galvanized after fabrication. For further requirements see special provisions.

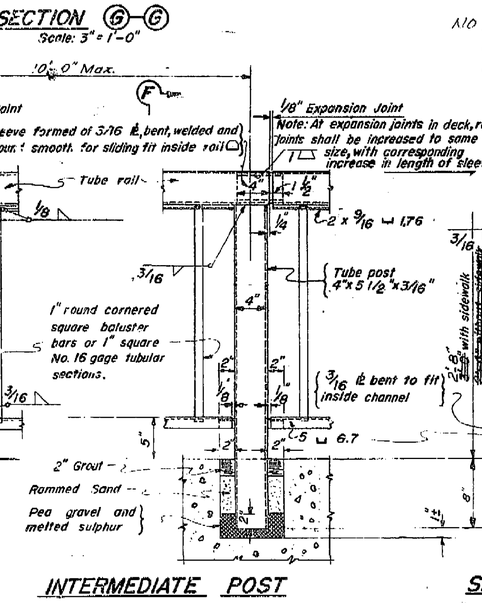
NO AS BUILT CORRECTION
CORRECTIONS BY D.E. Carlson
CONTRACT NO. 55-6TC4
DATE 12/2/79 to 9/11/79



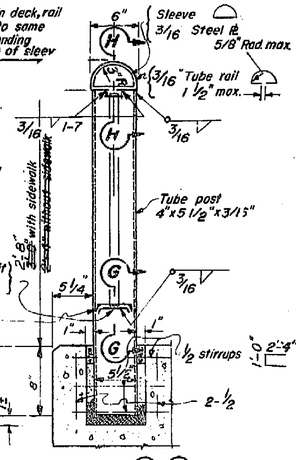
SECTION (K)-(K) SECTION (J)-(J)



DOUBLE END POST



INTERMEDIATE POST



SECTION (F)-(F)

STEEL RAILING DETAILS
Scale: 1 1/2" = 1'-0"

AS BUILT PLANS
Contract No. 55-6TC4
Date Completed
Document No. 60000992

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANPORTATION.
DATE 1-30-80 SIGNATURE Joseph M Cota TITLE SUPERVISOR OF MICROFILM SERVICES

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CLINTON AVENUE OVERCROSSING

STEEL RAILING

SCALE As Shown	BRIDGE 42-189	FILE XS-9-49	DRAWING 5-3413

PREL. DRAWING NO. 5-3413 25 45

ClibPDF - www.fastio.com

UI-0194(1)

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.			163	167

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	~~41~~ 180	C	17	21

April 26, 1959

Revised by W.C.K.'s-52
STANDARD DWG.

	Initial	Date
Design	W.C.K.	6-52
Detail	R.A.	6-52
Check	A.H.N.	6-52
Quant. Check		

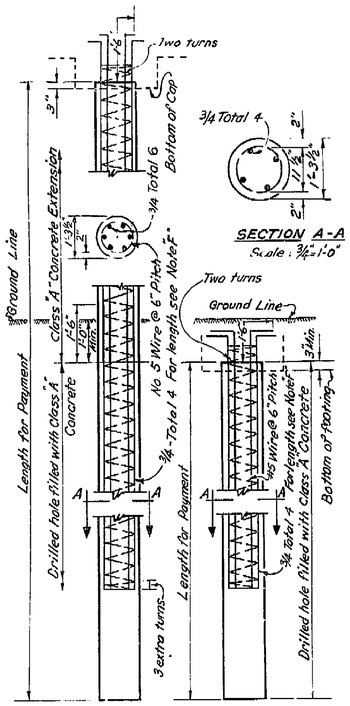
Supervised: W. C. Kindsvater

BRIDGE DEPARTMENT

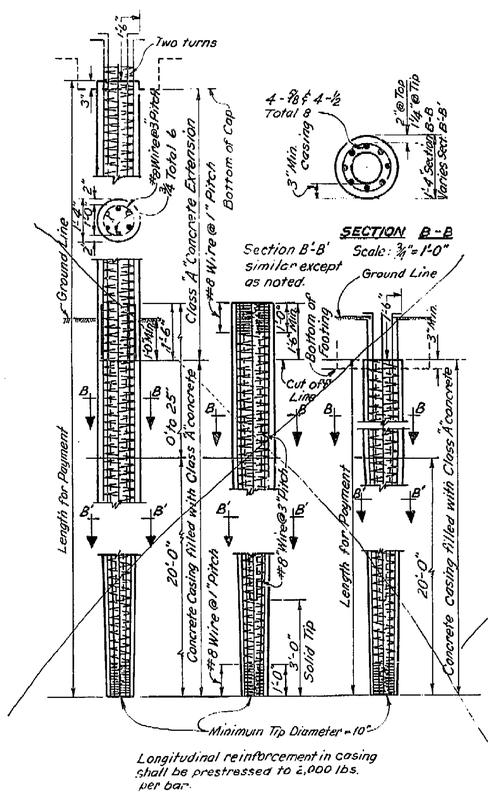
Roy L. Pyatt
CHECKED BY AB 1033
QUANTITIES BY

DESIGN U	R. H. B.	1-53
DETAILS	W.C.K.	1-53
QUANTITIES	R.A.	1-53
SPECIFICATIONS	A.H.N.	2-53

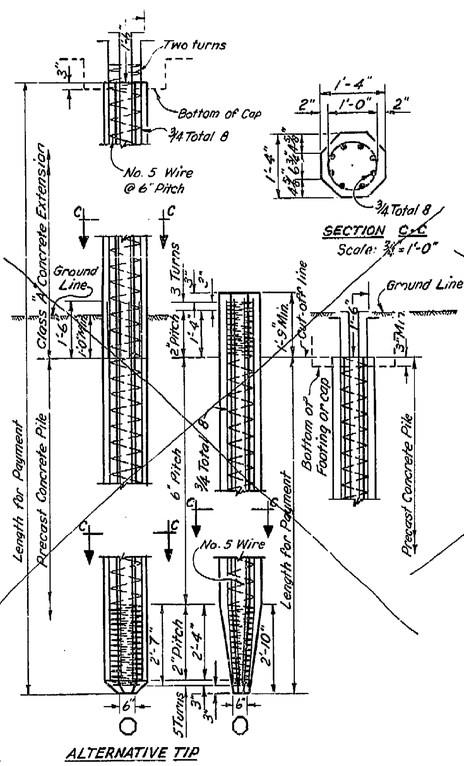
Submitted by: Roy L. Pyatt
Approved Recommended for Construction: [illegible]



CAST-IN-DRILLED-HOLE CONCRETE PILE
ALTERNATIVE "V"

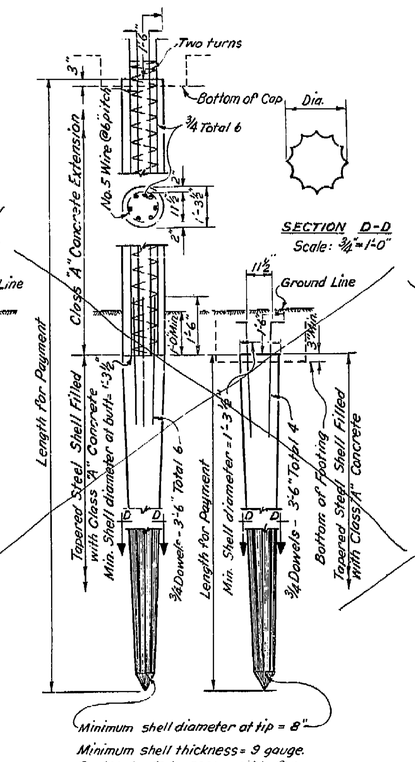


CAST-IN-PLACE CONCRETE PILE
ALTERNATIVE "W"

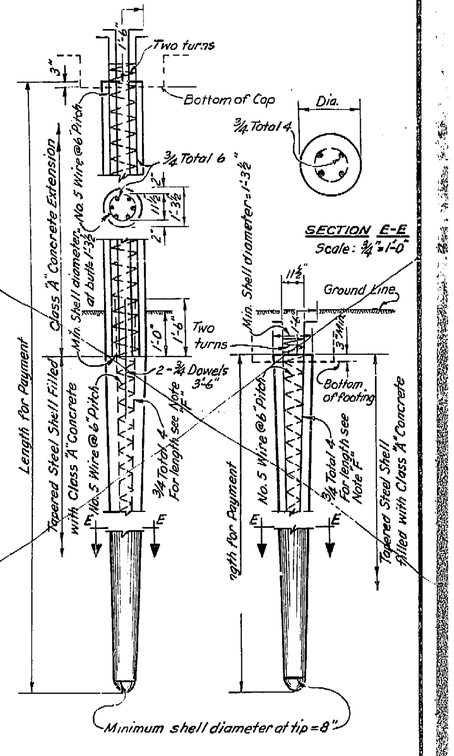


ALTERNATIVE TIP

PRECAST CONCRETE PILE
ALTERNATIVE "X"



CAST-IN-PLACE CONCRETE PILE
ALTERNATIVE "Y"



CAST-IN-PLACE CONCRETE PILE
ALTERNATIVE "Z"

Note F Length of 3/4 round bars, measured below ground line or bottom of footing, to be either 1/3 of estimated penetration or 12' whichever is the greater. For total length of bars, add extension or splice.

AS BUILT
CORRECTIONS BY D.E. Carlson
CONTRACT NO. 55-6TC4
DATE 12/2/55 to 9/11/79

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CLINTON AVENUE OVERCROSSING

PILE DETAILS

Except as Noted SCALE: 1/2"=1'-0" | 42-183 BRIDGE | 15 FILE XS-10-76 | 17 DRAWING 3413-~~33~~

PREL. DRAWING NO. P-3413 ~~33~~ 42

AS BUILT PLANS
Contract No. 55-6TC4
Date Completed
Document No. 60000992

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.
DATE 1-30-80 SIGNATURE Joseph M Cota TITLE SUPERVISOR OF MICROFILM SERVICES
DAS-19-79

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UI-0194(1) 159 OF 167

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	[illegible]			

CIVIL ENGINEER [signature] APPROVED April 26, 1954

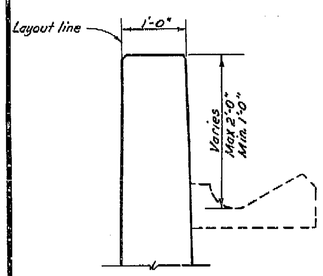
REVISIONS
Corrugated Surface Detail 2-52 R.A.

STANDARD DRAWING

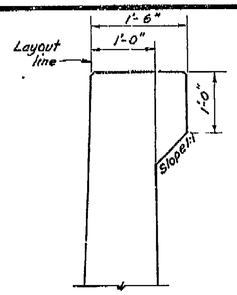
	Initial	Date
Design	WTE	10-51
Detail	R.A	10-51
Check	RWR	10-51
Quant.		
Check		

Supervised [signature]

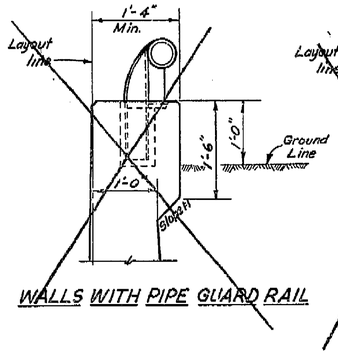
STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS
BRIDGE DEPARTMENT



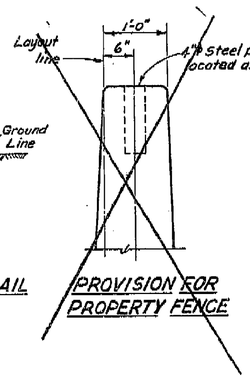
WALLS WITH GUTTERS



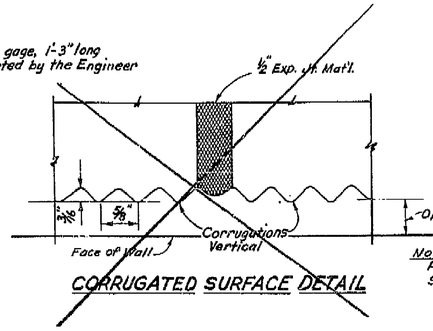
WALLS WITHOUT GUTTER



WALLS WITH PIPE GUARD RAIL

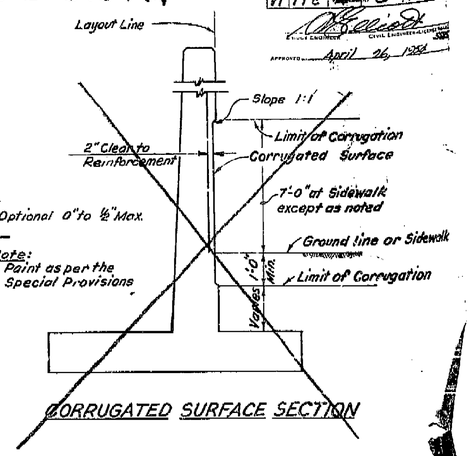


PROVISION FOR PROPERTY FENCE



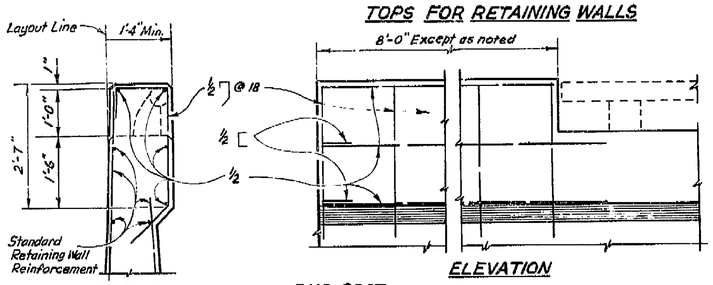
Note: Paint as per the Special Provisions.

CORRUGATED SURFACE DETAIL



CORRUGATED SURFACE SECTION

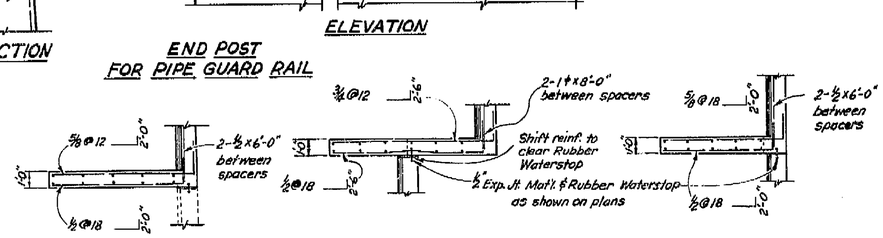
TOPS FOR RETAINING WALLS



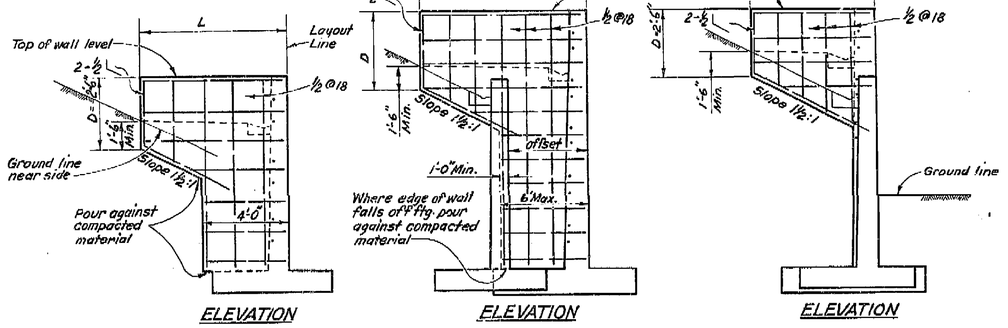
SECTION

ELEVATION

END POST FOR PIPE GUARD RAIL



PLAN PLAN PLAN



ELEVATION ELEVATION ELEVATION

RETURN WALL TYPE "A"
Use where H = 8 or less

RETURN WALL TYPE "B"
Use where H=10' or more on offset walls

RETURN WALL TYPE "C"
Use where H = 10' or more on straight walls

	WTH	WPM
1	2-14	2-14
2	2-14	2-14
3	2-14	2-14
4	2-14	2-14
5	2-14	2-14

UI-0194(1)

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2	CAL.			158	167

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre			12	21

5585

September 1, 1953

State Highway Engineer
Civil Engineer License No 20184

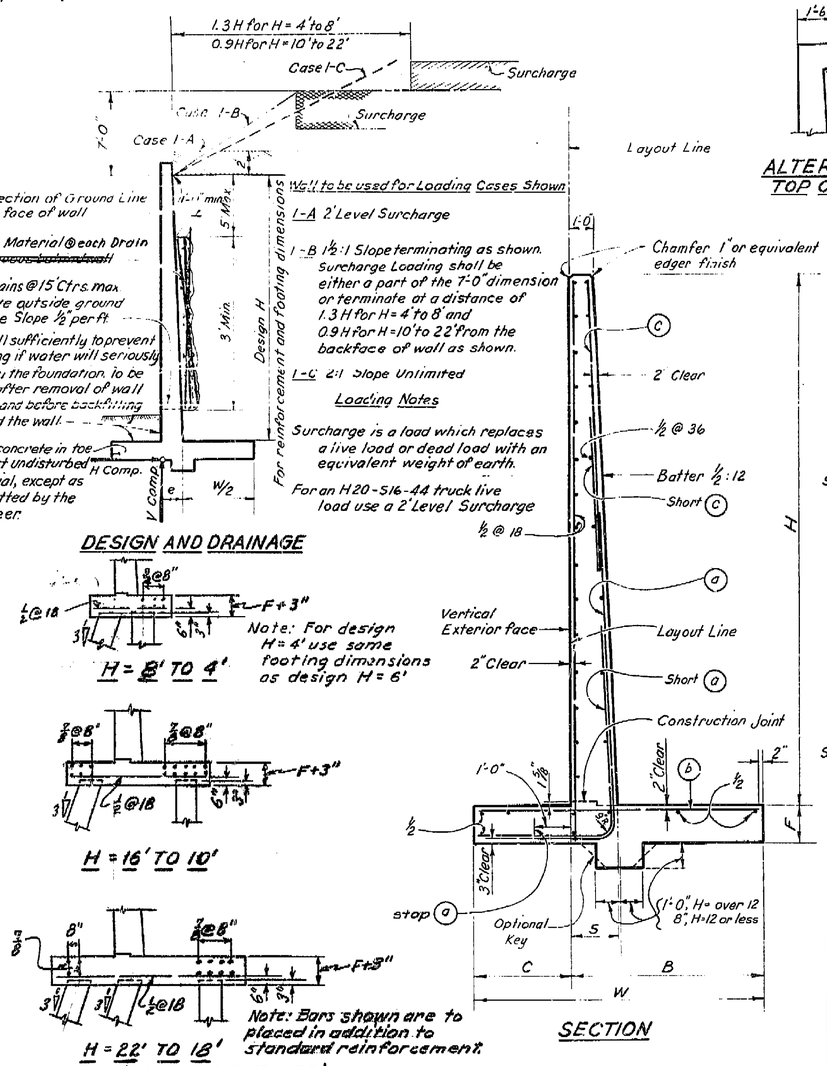
Bridge Plans Approved Dated April 26, 1954

STANDARD DRAWING

DESIGN			
DETAILS			

BRIDGE DEPARTMENT

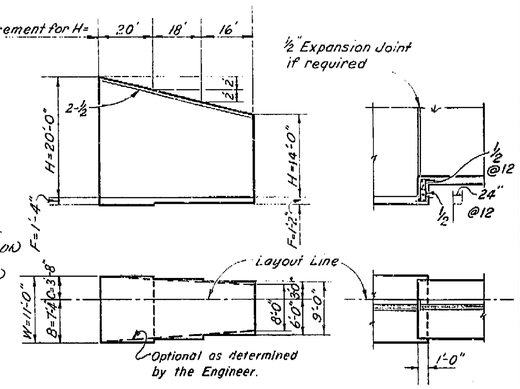
DESIGN



Note: Bar cut-offs may be varied in increments of 6"

NO AS BUILT CORRECTION
CORRECTIONS BY DE Carlson
CONTRACT NO. 55-6TC4
DATE 12/4/55 Dp 9/11/79

Use Reinforcement for H= 30' 18' 16'



FOOTING STEP

TYPICAL LAYOUT EXAMPLE

NOTES

Design Conditions:
Wall to be used for Loading Cases shown in Design and Drainage detail.
Design may be exceeded by 6" before going to n e.
Foo , key is required except when found unnecessary by the Engineer.
Special footing design is required where foundation material is incapable of supporting toe pressure loads listed in table.

Design Data: f'c = 1250 psi, fs = 20,000 psi, n=10
earth = 120 pcf and equivalent fluid pressure = 36 psf per ft. of height

Reinforcement:
Intermediate Grade, Hard Grade or Rail Steel
Deformations shall conform to A.S.T.M. A 305.
Bars shall lap 20 diameters, where spliced, unless otherwise shown on the plans
Bends shall conform to the Manual of Standard Practice, A.C.I.
Backing for hooks is four diameters
All bar embedments are clear distances to outside of bar.
Spacing for parallel bars is ctr. to ctr. of bars.
Bar areas are based on rounds for less than 1" and squares for over 1".

TABLE OF REINFORCING STEEL DIMENSIONS AND DATA

H	22'	20'	18'	16'	14'	12'	10'	8'	6'	4'
W	12'-0"	11'-0"	10'-0"	9'-0"	8'-0"	7'-2"	6'-2"	5'-2"	4'-2"	3'-2"
C	4'-0"	3'-8"	3'-4"	3'-0"	2'-8"	2'-4"	2'-0"	1'-8"	1'-4"	1'-0"
B	8'-0"	7'-4"	6'-8"	6'-0"	5'-4"	4'-10"	4'-2"	3'-6"	2'-10"	2'-2"
F	1'-6"	1'-4"	1'-2"	1'-2"	1'-2"	1'-2"	1'-2"	1'-2"	1'-2"	1'-2"
S	1'-11"	1'-10"	1'-9"	1'-8"	1'-7"	1'-6"	1'-5"	1'-4"	1'-3"	1'-2"
© Bars	⅞@14	⅞@17	¾@24	⅝@11	⅝@15	⅝@30				
@ Bars	1¼@7	1¼@8½	1¼@8	1⅛@11	1⅛@15	¾@7½	⅝@8	⅝@12	⅝@24	⅝@36
ⓓ Bars	1⅛@7	1⅛@8½	1"@8	1"@11	1"@15	⅝@7½	½@8	½@12	⅜@24	⅜@36
Conc. c.f./ft.	52.1	45.0	38.5	33.8	29.5	24.3	20.2	16.3	12.6	8.9
Steel lbs./ft.	309	233	177	123	90	56	47	28	20	14
Toe Press.	4480	4000	3590	3290	2980	2640	2270	1930	1570	1240
H. Comp. lbs.	11630	9730	8000	6540	5240	4070	3050	2170	1440	850
V. Comp. lbs.	27070	22690	18670	15260	12180	9760	7340	5230	3460	2020
e ft.	1.90	1.72	1.54	1.41	1.28	1.07	.94	.79	.60	.50

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CLINTON AVENUE OVERCROSSING

TYPE 1 CANTILEVER RETAINING WALL

SCALE	BRIDGE	42-183	FILE	55-3-36	DRAWING	C-3413-23

PREL. DRAWING NO. P-3413 | 18 | 38 | A63

AS BUILT PLANS
Contract No. 55-6TC4
Date Completed

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 1-30-80 SIGNATURE Joseph M Costa TITLE SUPERVISOR OF MICROFILM SERVICES

DAS-55-70

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VI-0194(1)

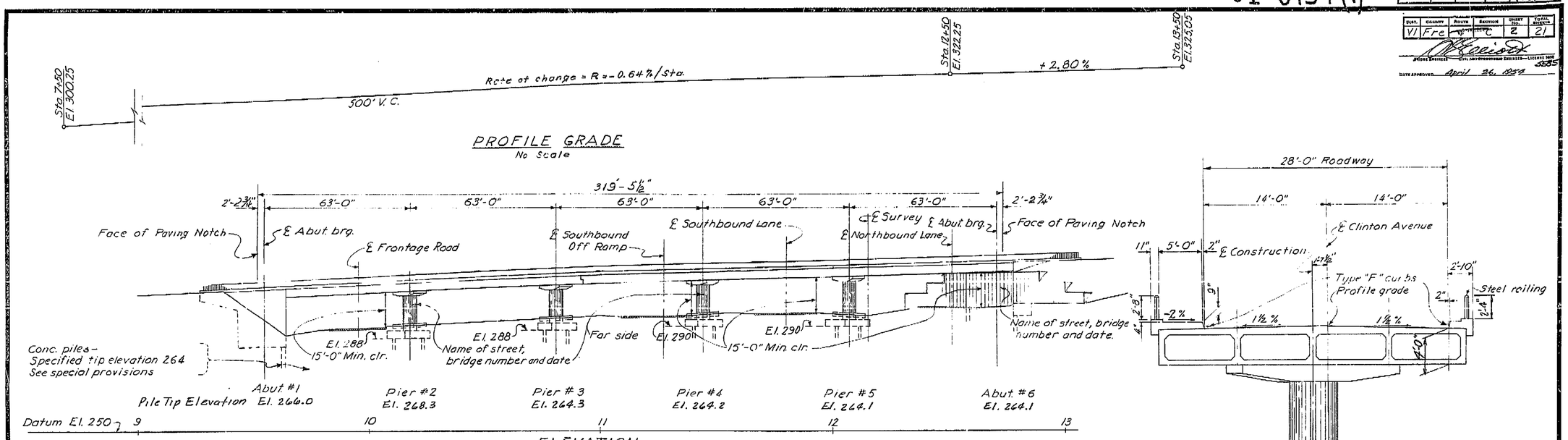
FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.			148	167

DIST.	COUNTY	ROUTE	SECTION	CHART NO.	TOTAL SHEETS
VI	Fre	99	C	2	21

BRIDGE ENGINEER — CIVIL ENGINEER UNDER LICENSE NO. 5335

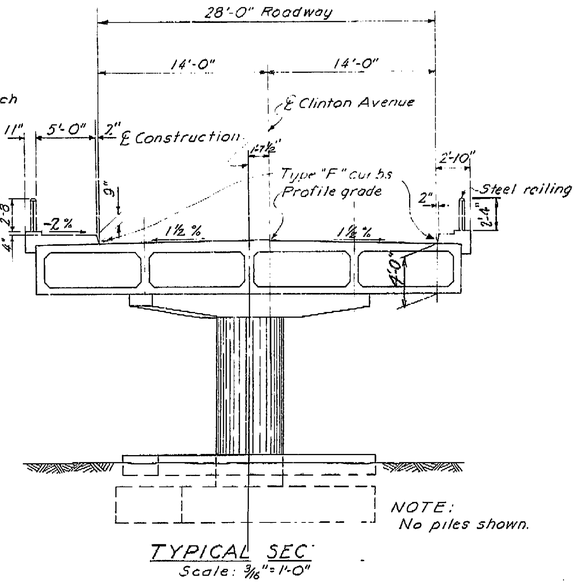
DATE APPROVED April 26, 1954

BRIDGE DEPARTMENT



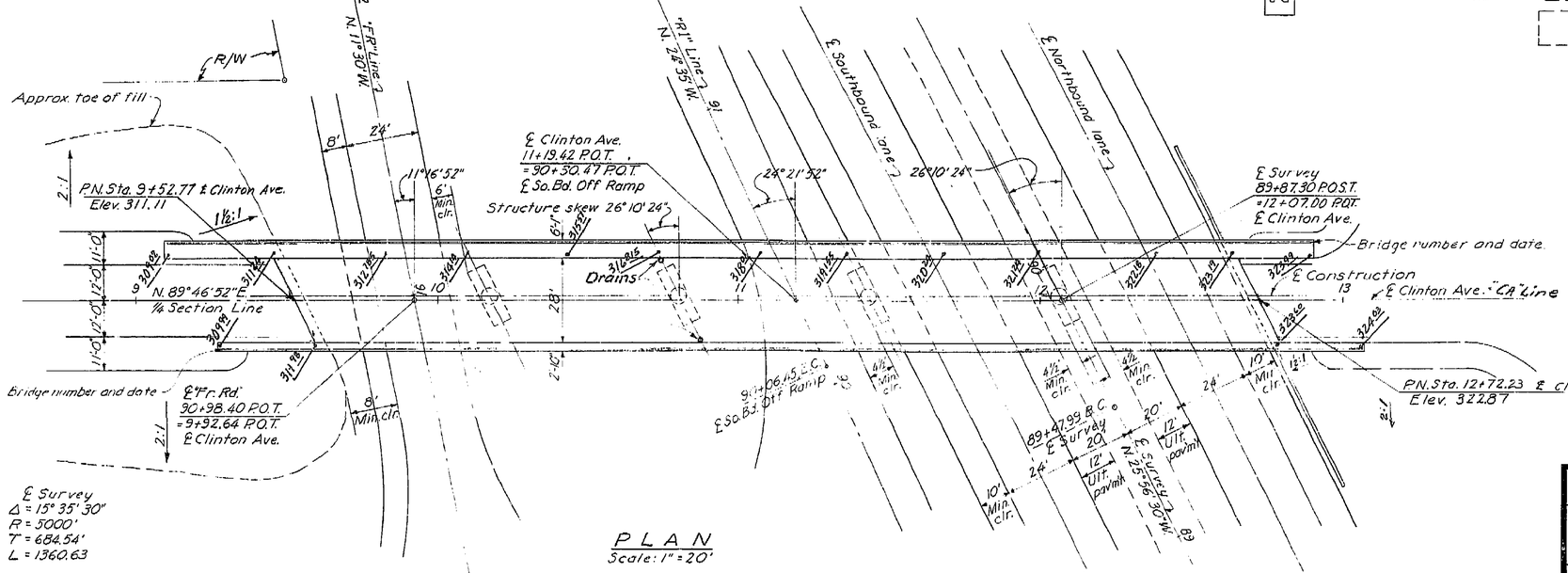
PROFILE GRADE
No Scale

ELEVATION
Scale: 1" = 20'



NOTE:
No piles shown.

TYPICAL SEC.
Scale: 3/16" = 1'-0"


N
R/W
Approx. toe of fill
2:1
1½:1
P.N. Sta. 9+52.77 ℄ Clinton Ave.
Elev. 311.11
9 30.02
N. 89°46'52" E. 5311.86
¼ Section Line
30.19
31.78
Bridge number and date
℄ Fr. Rd.
90+98.40 P.O.T.
=9+92.64 P.O.T.
℄ Clinton Ave.
2:1
9' Min. clr.
℄ Survey
Δ = 15° 35' 30"
R = 5000'
T = 684.54'
L = 1360.63
8'
24'
11°46'52"
6' Min. clr.
℄ Clinton Ave.
11+19.42 P.O.T.
=90+30.47 P.O.T.
℄ So. Bd. Off Ramp
Structure skew 26°10'24"
6'-1"
31.33
31.46
Drains
31.48
31.61
31.74
31.88
32.02
32.15
32.28
32.42
28'
2'-10"
9+06.15 ℄ C.
℄ So. Bd. Off Ramp
4½' Min. clr.
℄ Southbound Lane
℄ Northbound Lane
24°21'52"
26°10'24"
℄ Survey
89+87.30 P.O.S.T.
=12+07.00 P.O.T.
℄ Clinton Ave.
Bridge number and date.
℄ Construction
℄ Clinton Ave. "CA" Line
13
32.56
32.69
32.83
32.96
33.09
33.23
33.36
32.49
32.62
32.76
32.89
33.02
33.16
33.29
33.42
33.56
33.69
33.82
33.96
34.09
34.22
34.36
34.49
34.62
34.76
34.89
35.02
35.16
35.29
35.42
35.56
35.69
35.82
35.96
36.09
36.22
36.36
36.49
36.62
36.76
36.89
37.02
37.16
37.29
37.42
37.56

U-0194(1)

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2	CAL.			164	167

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	41	C	18	21

BRIDGE ENGINEER — CIVIL ENGINEER-LICENSE 8755

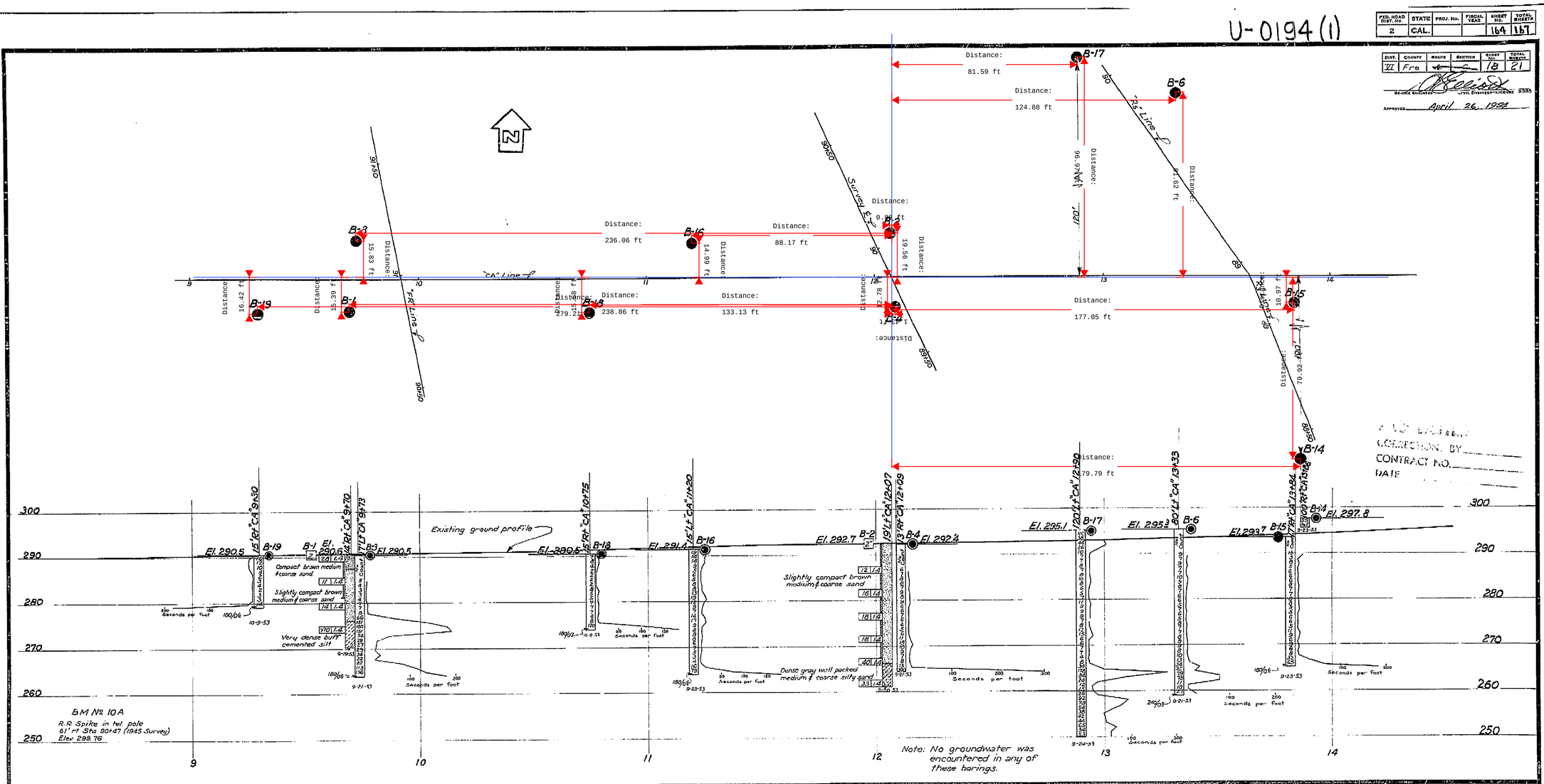
APPROVED April 26, 1954

BRIDGE DEPARTMENT

FIELD STUDY	H.C. Marsh	3/9/53
DRAWN	N.J. Darr	10/53
CHECKED	W.C. Mack	11-9-53

Approval Recommended by: [signature] Engineering Geologist

[signature] Assistant District Engineer



BM No 10A
R.R. Spike in tel. pole
61' rt Sta 90+47 (1945 Survey)
Elev. 299.76

Note: No groundwater was encountered in any of these borings.

CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS

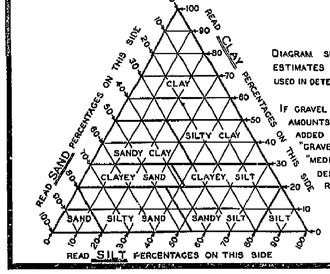


DIAGRAM SHOWING THE BASIS FOR ESTIMATES OF GRADE SIZE DISTRIBUTION USED IN DETERMINATION OF CLASS NAMES

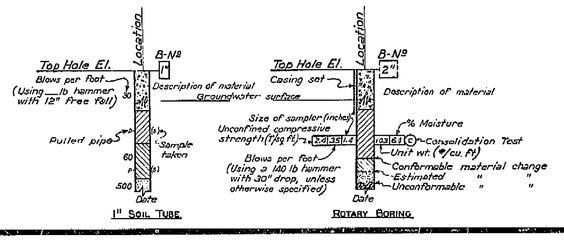
IF GRAVEL IS PRESENT IN APPRECIABLE AMOUNTS THE TERM "GRAVELLY" MAY BE ADDED TO THE CLASS NAME, VIS. "GRAVELLY SAND". THE TERMS "COARSE", "MEDIUM" AND "FINE" WHEN USED TO DESCRIBE GRAVEL, SAND AND SILT REFER TO STANDARD GRADE SIZE LIMITS.

LEGEND OF EARTH MATERIALS

- GRAVEL
- SAND
- SILT
- CLAY
- SANDY CLAY OR CLAYEY SAND
- SANDY SILT OR SILTY SAND
- SILTY CLAY OR CLAYEY SILT
- PEAT AND/OR ORGANIC CLAY
- FILLED MATERIAL
- IGNEOUS ROCK
- SEDIMENTARY ROCK
- METAMORPHIC ROCK

LEGEND OF BORING OPERATIONS

- PLAN OF ANY BORING
- PENETROMETER
- 2½" CONE PENETROMETER
- SAMPLER BORING (DRY)
- ROTARY BORING (WET)
- AUGER BORING (DRY)
- JET BORING
- CORE BORING
- TEST PIT



NOTES

THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 2, ARTICLE (c) OF THE STANDARD SPECIFICATIONS AND TO THE SPECIAL PROVISIONS ACCOMPANYING THIS SET OF PLANS. CLASSIFICATION OF EARTH MATERIAL AS SHOWN ON THIS SHEET IS BASED UPON FIELD INSPECTION AND IS NOT TO BE CONSTRUED TO IMPLY MECHANICAL ANALYSIS.

PENETROMETER BORINGS HAVING A RATE OF PENETRATION MEASURED IN SECONDS PER FOOT ARE DRIVEN WITH A No 2 McKIERNAN-TERRY AIR HAMMER AT 115 PSI.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CLINTON AVENUE OVERCROSSING & ~~FRESNO YARD OVERCROSSING~~

LOG OF TEST BORINGS (1 of 2)

SCALE	HORIZ. 1" = 20' VERT. 1" = 10'	BRIDGE	42-183 42-191	FILE	E-47	DRAWING	B-3413-F

PREL. DRAWING NO. P-3413 19

CORRECTION BY
CONTRACT NO.
DATE

AS BUILT PLANS
Contract No. 55-6TC4
Date Completed
Document No. 60000992

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 1-30-80 SIGNATURE Joseph M Porta TITLE SUPERVISOR OF MICROFILM SERVICES

DES-66-78

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VI-0194(1)

FED. ROAD FUNC. SYS. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.			161	167

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	4	B	15	21

Chief, Bridge Design Branch

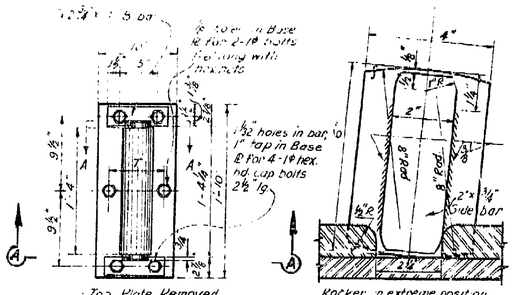
April 26, 1956

BRIDGE DEPARTMENT

DESIGN 7 SECTION

	Sheet No.	Quantity
DESIGN		
DETAILS		
QUANTITIES		
SPECIFICATIONS		

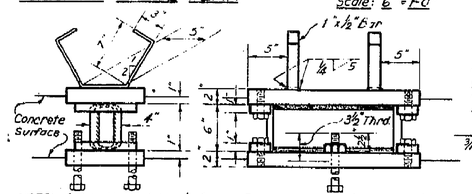
Submitted by



BOTTOM PLATE PLAN

SECTION A-A

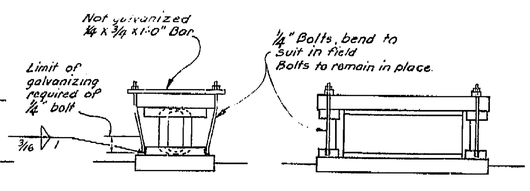
Scale: 6" = 1'-0"



NOTE: Set bottom plates in Forms. Place concrete directly against bottom plate. All bearing assemblies to be galvanized after fabrication.

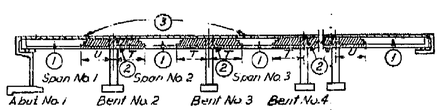
10×22 EXPANSION BEARING ASSEMBLY

10 Required Scale: 1½" = 1'-0"



DETAIL OF ERECTION BOLTS

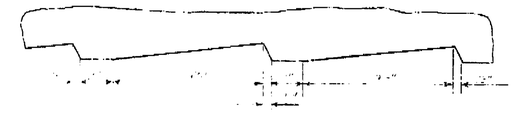
Scale: 1½" = 1'-0"



SUPERSTRUCTURE PLACING DIAGRAM

No Scale

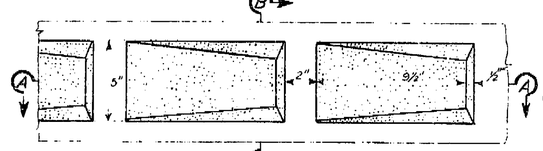
Note: Numbers ① and ② indicate sequence of placing bottom slab and girder stems.
No. ② concrete may be placed with adjacent No. ① concrete when approved.
Top slab ③ may be placed separately or with ① and ② except no construction joints in the area "T" or "U".
T = ⅛ Span length
U = ¼ Span length
Longitudinal construction joints may be used when approved.
Except as noted, Contractor may submit alternative scheme for Engineer's approval.



SECTION A-A

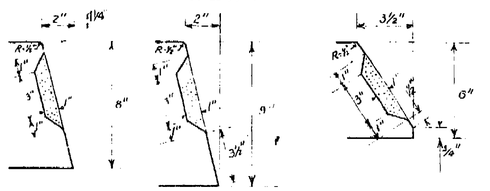
SCALE ½" = 1"

SURFACES SHOWN THUS ..... SHALL BE PAINTED



PANEL

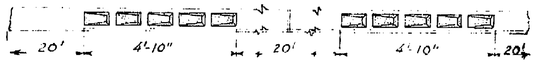
SCALE ½" = 1"



SECTION B-B TYPE A SCALE ½" = 1"

SECTION B-B TYPE F SCALE ½" = 1"

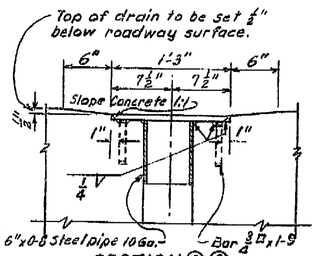
SECTION B-B TYPE B SCALE ½" = 1"



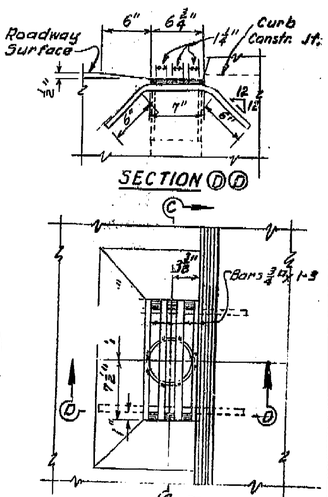
SCALE 1" = 2'

DIRECTION OF TRAFFIC FLOW

DIVIDING STRIP AND BRIDGE CURB



SECTION ©©



SECTION ⓓⓓ

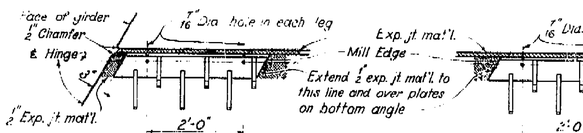
Note: Drain to be galvanized after all welding is completed.

PLAN

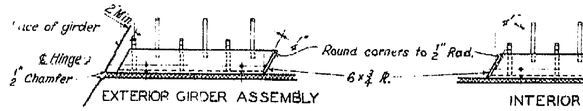
DRAIN DETAILS

2 Required

Scale: 1½" = 1'-0"



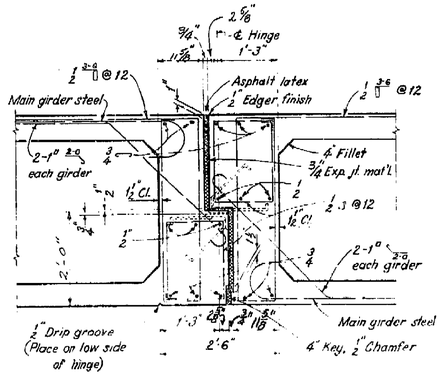
PLAN OF TOP BEARING ANGLES



PLAN OF BOTTOM BEARING ANGLES

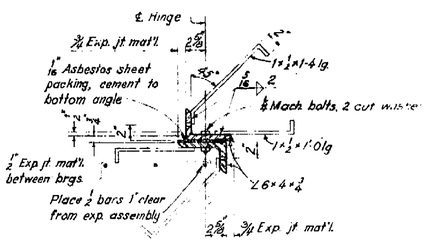
HINGE SKEWED TO GIRDER

SCALE ¾" = 1'-0"



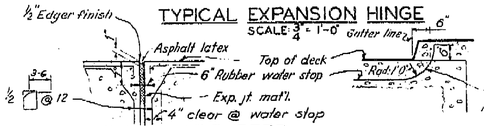
TYPICAL EXPANSION HINGE

SCALE ¾" = 1'-0"

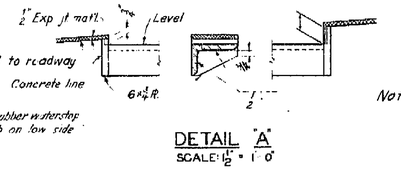


SECTION THRU EXPANSION ASSEMBLY

SCALE 1½" = 1'-0"



DETAIL OF RUBBER WATER STOP



DETAIL "A"

SCALE: 1½" = 1'-0"

Note: For Elevation @ hinge see Typical Sections, Clinton Ave O.C.

HINGE DETAIL FOR CONCRETE GIRDER

NO AS BUILT CORRECTION

CORRECTIONS BY D.E. Carlson

CONTRACT NO. 55-6TC4

DATE 12/4/1959 9/11/79

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CLINTON AVENUE OVERCROSSING

MISCELLANEOUS DETAILS

SCALE	BRIDGE	FILE	DRAWING
As noted	42-18		C-3413-3#15

PREL. DRAWING NO. P-3413 25 36 40

AS BUILT PLANS
Contract No. 55-6TC4
Date Completed

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 1-30-80 SIGNATURE [signature] TITLE SUPERVISOR OF WORKFILM SERVICES

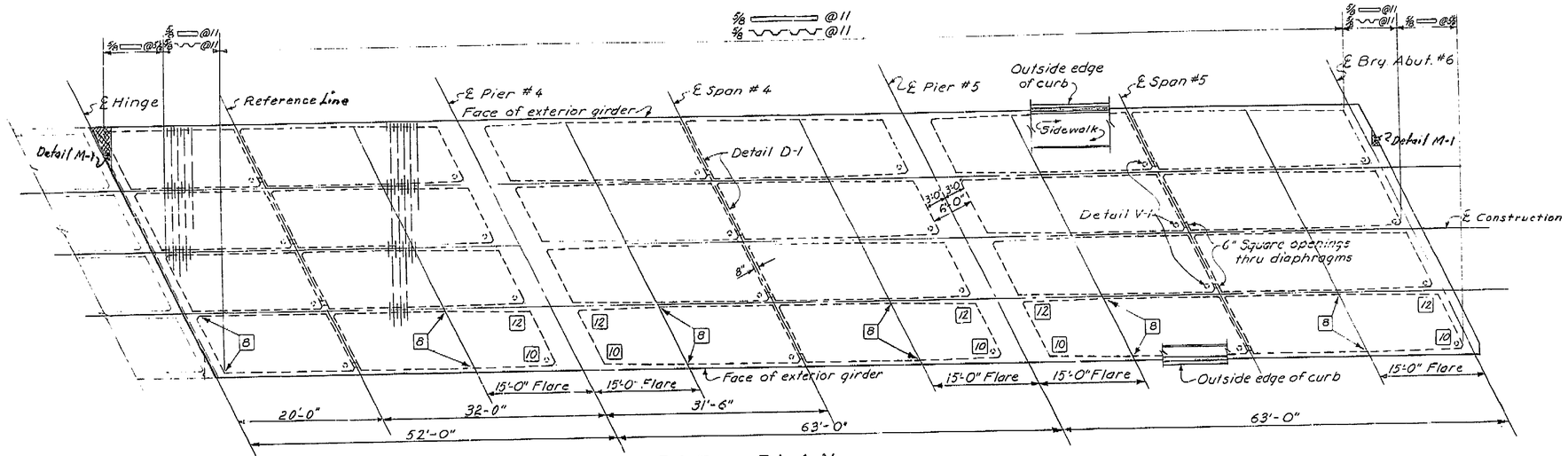
ClibPDF - www.fastio.com

UI-0194 (1)

FED. ROAD DIV. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.			155	167

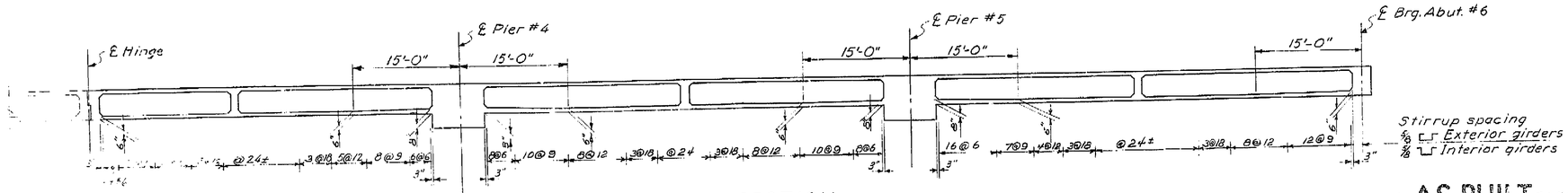
DIST.	COUNTY	ROUTE	SECTION	BRIDGE NO.	TOTAL BRIDGES
VI	Fre			9	21

BRIDGE ENGINEER CIVIL ENGINEER LICENSE 5585
DATE APPROVED April 26, 1955



PART PLAN

NOTE: See previou... for girder flare detai...



PART LONGITUDINAL SECTION

NO AS BUILT CORRECTION
CORRECTION BY D E CARLSON
CORRECTION NO 55-6 TC 9
DATE 12/6/55 Sp 9/11/79

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CLINTON AVENUE OVERCROSSING

GIRDER LAYOUT #2

SCALE	BRIDGE	FILE	DRAWING
⅛" = 1'-0"	42-183		C-3413-9

PREL. DRAWING NO. P-3413 2X 62

BRIDGE DEPARTMENT

DESIGN 7 SECTION

Submitted			
DESIGN	By JHH 2-54	Chkd. WRM 2-56	
DETAILS	By AM 2-54	Chkd. WRM 2-56	
QUANTITIES	By DEC 2-54	Chkd. [illegible] 2-56	
SPECIFICATIONS	By [illegible]	Checked [illegible]	

Approved [illegible] Bridge Engineer

AS BUILT PLANS
Contract No. 55-6TC-12
Date Completed [illegible]

ClibPDF - www.fastio.com

UI-0194 (1)

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.			154	167

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre			8	21

DISTRICT BRIDGE ENGINEER — CIVIL ENGINEER — LICENSE 5585

DATE APPROVED April 26, 1954

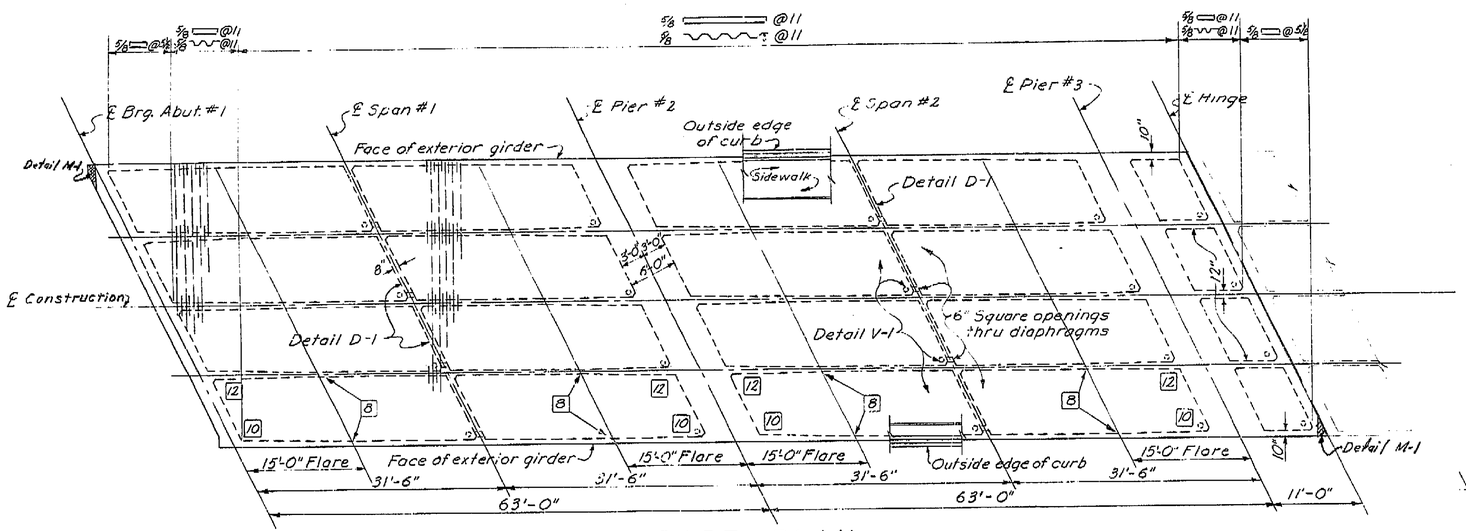
BRIDGE DEPARTMENT

DESIGN 7 SECTION

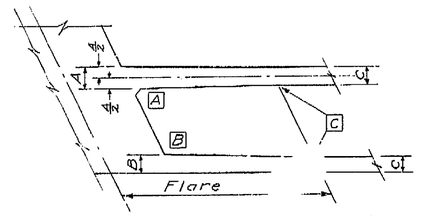
Submitted for	STRUCTURE	by WRM	2-54
	DETAILS	by AM	2-54
	QUANTITIES	by DCS	2-54
	SPECIFICATIONS	by	

Approved Recommended by [illegible] Date [illegible]

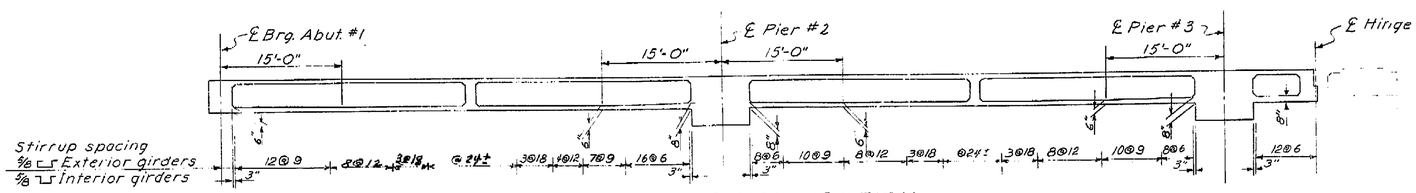
Bridge No. 42-183 Engineer's Est. [illegible] Contract No. 1856 #368



PART PLAN



GIRDER FLARE DETAIL
No scale



PART LONGITUDINAL SECTION

NO AS BUILT CORRECTION
CORRECTED BY D.E. CARLSON
55-6TC9
12/2/55 dp 8/11/72

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CLINTON AVENUE OVERCROSSING

GIRDER LAYOUT #1

SCALE 1/8" = 1'-0" | BRIDGE 42-183 | FILE | DRAWING C-2413-8

PREL. DRAWING NO. P-3413 X

AS BUILT PLANS
Contract No. 55-6TC 11
Date Completed [illegible]
Contract No. 1856 #368

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT WHICH WAS PREPARED UNDER MY DIRECTION AND DRAFTED BY ME ON THE DATE SHOWN AND IS CONSTRUCTED IN ACCORDANCE WITH AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 7-30-80 SIGNED [illegible] TITLE SUPERVISING DRAFTSMAN

AS BUILT REVISIONS

ClibPDF - www.fastio.com

UI-0194(1)

FED. ROAD DIV. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.			153	161

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	[illegible]	[illegible]	7	21

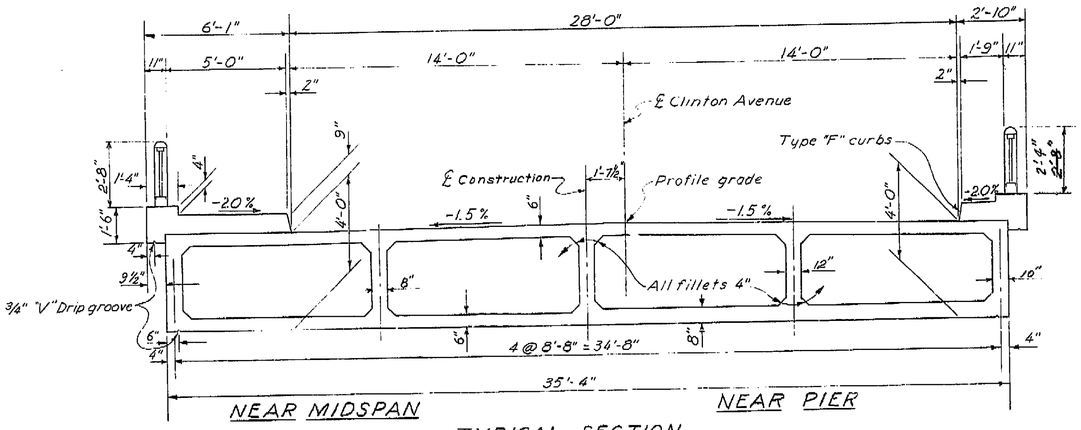
[illegible] BRIDGE ENGINEER — [illegible] LICENSE 8989 2/28

DATE APPROVED April 26, 1954

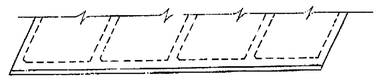
BRIDGE DEPARTMENT

DESIGN 7 SECTION

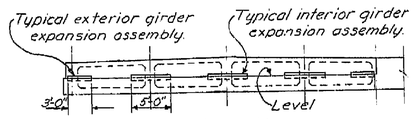
Submitted by	By	Date	Checked	By	Date
DESIGN	W.B.M.	2-54	Checked	W.B.M.	2-54
DETAILS	W.A.M.	2-54	Traced	[illegible]	
QUANTITIES	D.E.S.	2-54	Traced	[illegible]	
SPECIFICATIONS	By		Checking	[illegible]	
Approved [illegible]			Bridge No.	42-183	



TYPICAL SECTION
Scale: 3/8" = 1'-0"



PLAN



ELEVATION

HINGE AT STA. 10+91.20
Scale: 1/8" = 1'-0"
Note: For details see Hinge Details.

GENERAL NOTES

SPECIFICATIONS:
DESIGN: A.A.S.H.O. DATED 1953 WITH SUBSEQUENT REVISIONS, AND BRIDGE DEPARTMENT SUPPLEMENT DATED 1953.

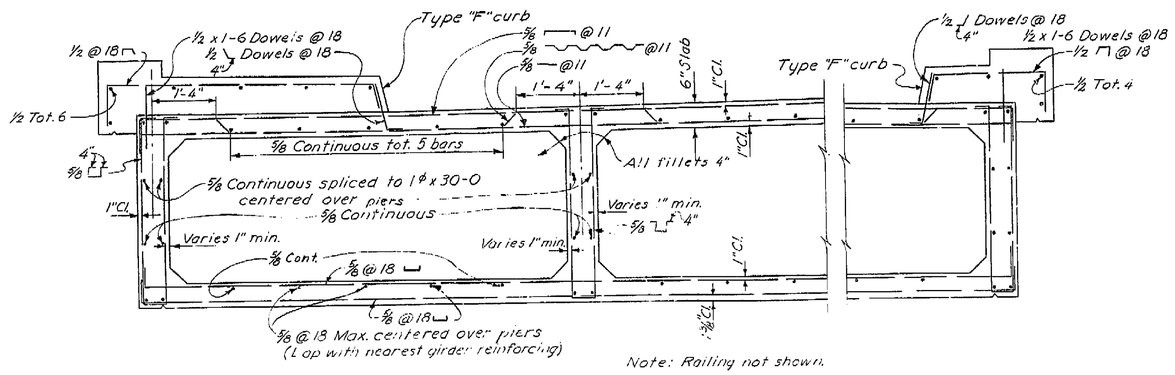
CONSTRUCTION: STANDARD SPECIFICATIONS, DIVISION OF HIGHWAYS, DATED JANUARY 1949 AND THE SPECIAL PROVISIONS.

LIVE LOADING: H20-S16-44

UNIT STRESSES:
REINFORCED CONCRETE: F_s = 20,000 P.S.I., F_c = 1250 P.S.I., N = 10

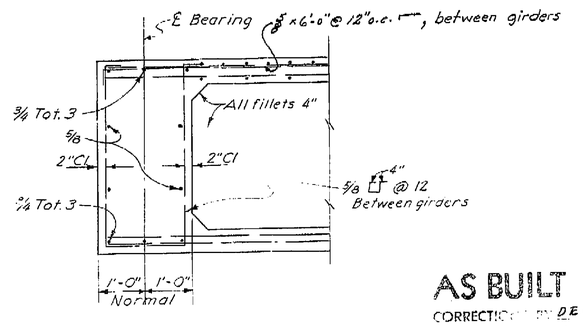
PILE LOADING: 32 TONS. TYPE: P.C.C.

REINFORCEMENT: EMBEDMENT IS CLEAR TO OUTSIDE OF BAR AND IS 2" TO MAIN REINFORCEMENT, EXCEPT AS NOTED. BACKING FOR HOOKS IS FOUR DIAMETERS, EXCEPT AS NOTED.
BAR AREAS ARE BASED ON ROUNDS FOR LESS THAN 1" AND SQUARES FOR OVER 1".
WHERE REINFORCING BARS ARE SPLICED THEY SHALL HAVE A 20 DIAMETER LAP UNLESS OTHERWISE CALLED FOR ON THE PLANS.



Note: Railing not shown.

PART SECTION
Scale: 3/4" = 1'-0"



END DIAPHRAGM
Scale: 3/4" = 1'-0"

AS BUILT
CORRECTIONS BY DE Carlson
CONTRACT 55-67C4
DATE 12/4/55 & 9/11/58

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CLINTON AVENUE OVERCROSSING

TYPICAL SECTIONS

SCALE As noted	BRIDGE 42-183	FILE	DRAWING C-3413-7

PREL. DRAWING NO. P-3413 DR 50

AS BUILT PLANS
Contract No. 55-67C4
Date Completed 9-11-58

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.
DATE 1-30-59 SIGNATURE [illegible] TITLE SUPERVISOR OF MICROFILM SERVICES

ClibPDF - www.fastio.com

UI-0194(1)

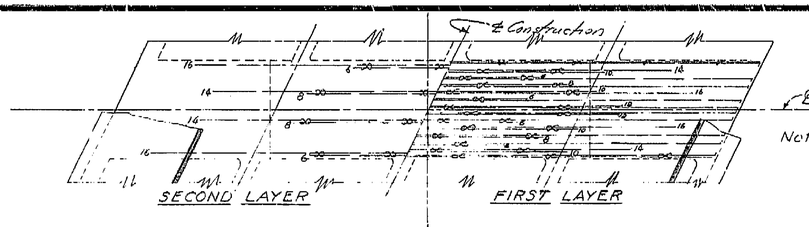
FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.			152	167

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	[illegible]	[illegible]	6	21

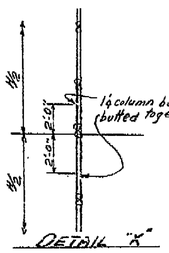
BRIDGE ENGINEER — CIVIL ENGINEER — LICENSE EXPIRES 1956

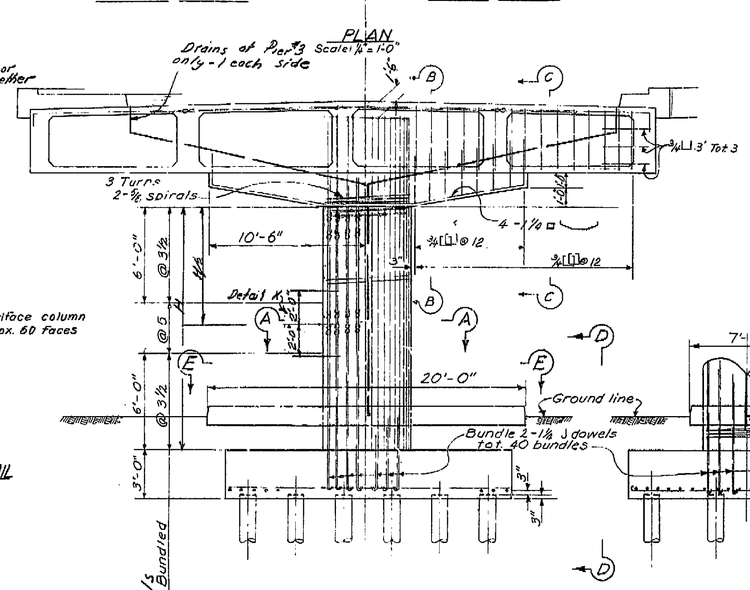
DATE APPROVED April 26, 1955

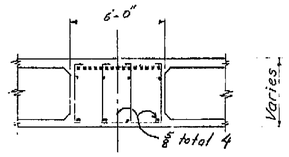
BRIDGE DEPARTMENT

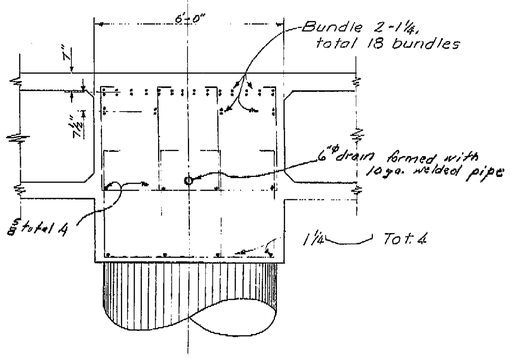


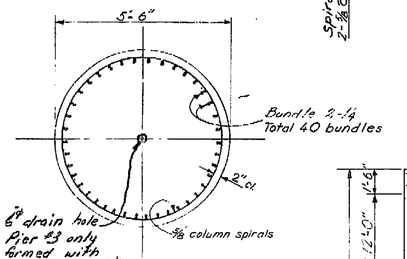
Note: Stirrups spaced along ℄ cap and placed parallel with girders.

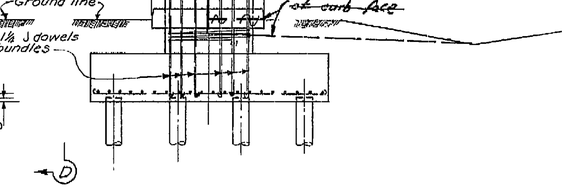


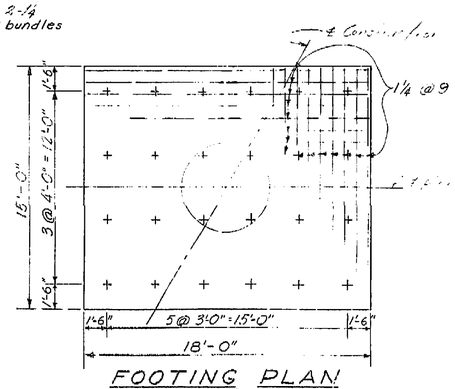


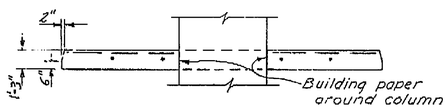


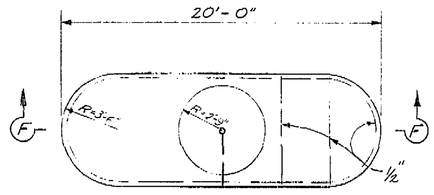












Submitted by					
DESIGN	In	MJM	1-54	Check	WRM 2-54
DETAILS	In	EGB	1-54	Check	WRM 2-54
QUANTITIES	In	DGS	2-54	Check	CEC 2-54
SPECIFICATIONS	In			Checked	
Approved for Submission:				Bridge Engineer	
				Bridge Engineer	

AS BUILT
CORRECTIONS AS PER R.E. CHANGES
CONTRACT NO. 55-617C4
DATE 12/2/55 Dp. 9/11/79

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CLINTON AVENUE OVERCROSSING

PIER DETAILS

SCALE	BRIDGE	FILE	DRAWING
As shown	42-183		C-3413-6

PREL. DRAWING NO. P- 3413 [illegible]

AS BUILT PLANS
Contract No. 55-617C4
Date Completed

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO [illegible] AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.
DATE 12-30-80 SIGNATURE [illegible] TITLE SUPERVISOR OF MICROFILM SERVICES

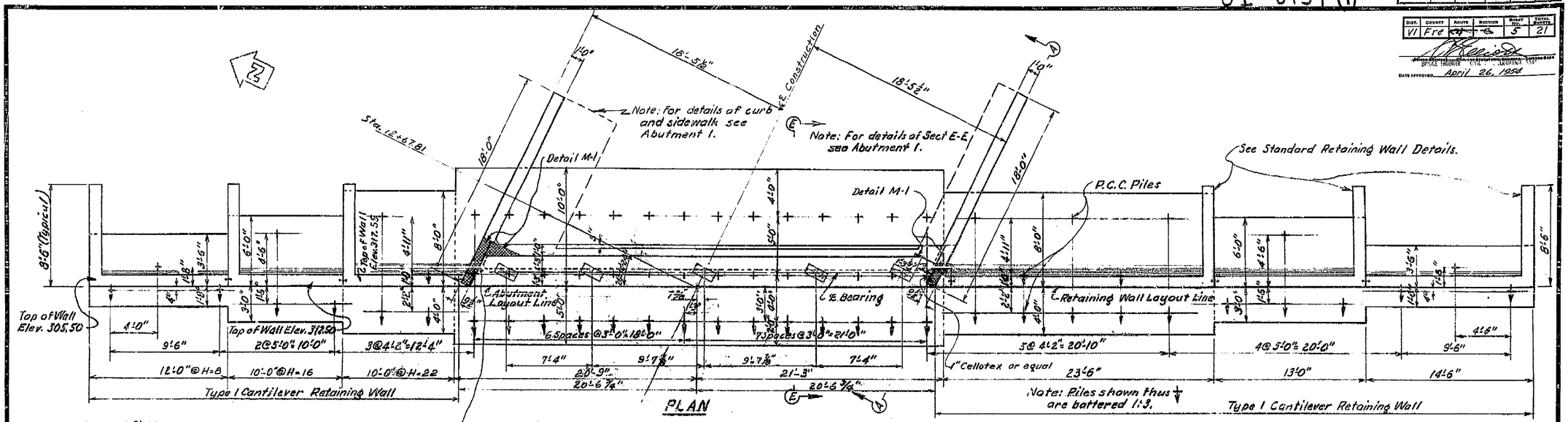
ClibPDF - www.fastio.com

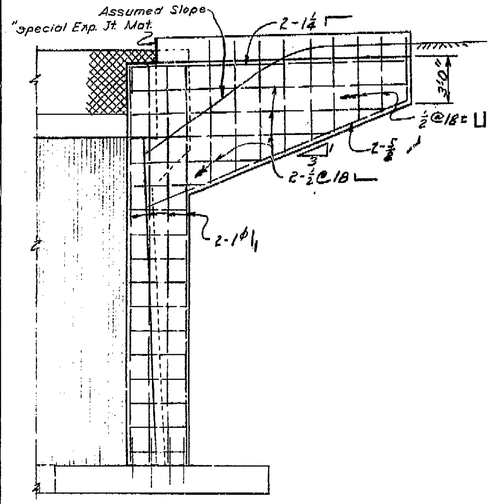
UT-0194 (1)

FED. ROAD DIV. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.			151	167

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	[illegible]	[illegible]	5	21

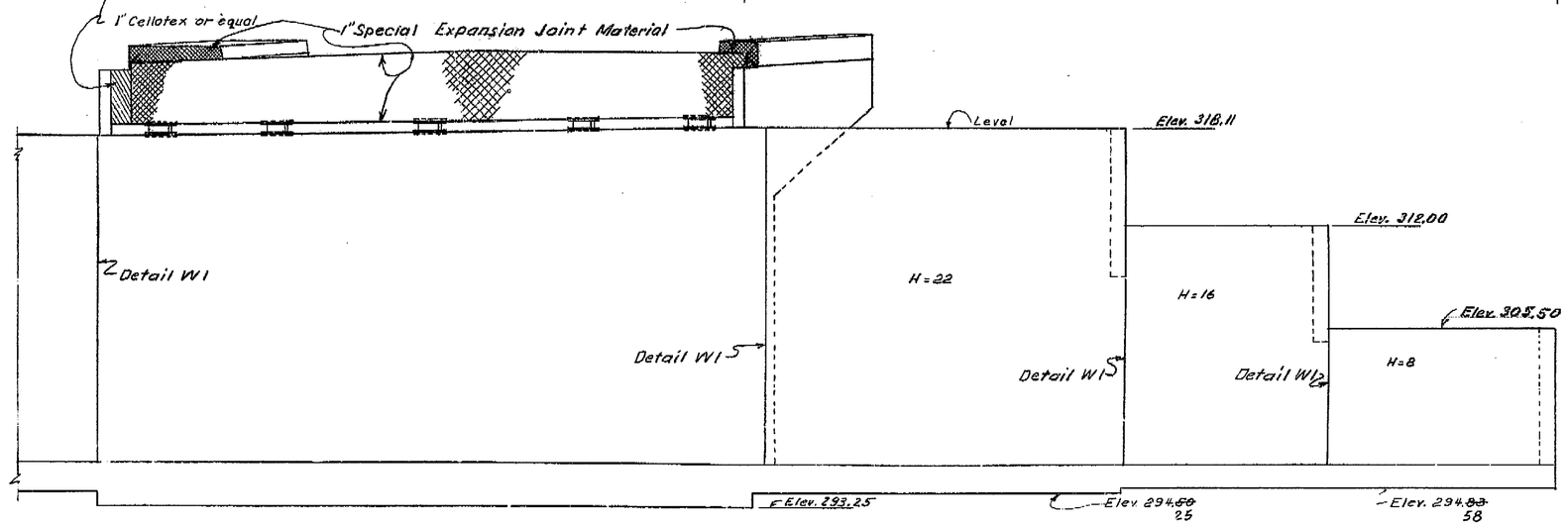
DATE APPROVED: April 26, 1954





Note: Piles not shown.

SECTION Ⓐ-Ⓐ



Note: Piles not shown.

PART ELEVATION

AS BUILT
CORRECTIONS BY DE Carlson
CONTRACT NO. 55-67C4
DATE 12/2/55 & 8/11/59

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CLINTON AVENUE OVERCROSSING

ABUTMENT 6

SCALE	BRIDGE	FILE	DRAWING
1/4" = 1'-0"	42-183		C-3413-5

PREL. DRAWING NO. P-3413 (45 46)

BRIDGE DEPARTMENT

	Designed	Detailed	Quantities	Checked	Submitted
DESIGN	By DLD 12-54	Check WJH 2-54			
DETAILS	By DLD 12-54	Check WJH 2-54			
QUANTITIES	By DCS 2-54	Check LLC 3-54			
SPECIFICATIONS		Date and Book			
Approved Recommended for approval		By Bridge Engineer	No. of Sheets 45 & 368		

Submitted by [signature] Bridge Engr.

Approved [signature] Director

AS BUILT PLANS
Contract No. 55-67C4

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THE DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.
SIGNATURE [signature] TITLE SUPERVISOR OF

ClibPDF - www.fastio.com

UI-0194(1)

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	PROJ. NO.	SHEET NO.
7	CAL.			150	14

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre			4	21

DATE APPROVED April 26, 1954

NO AS BUILT CORRECTION

CORRECTIONS BY D.E. Carlson

55-6TC4

12/2/55 9/14/79

BRIDGE DEPARTMENT

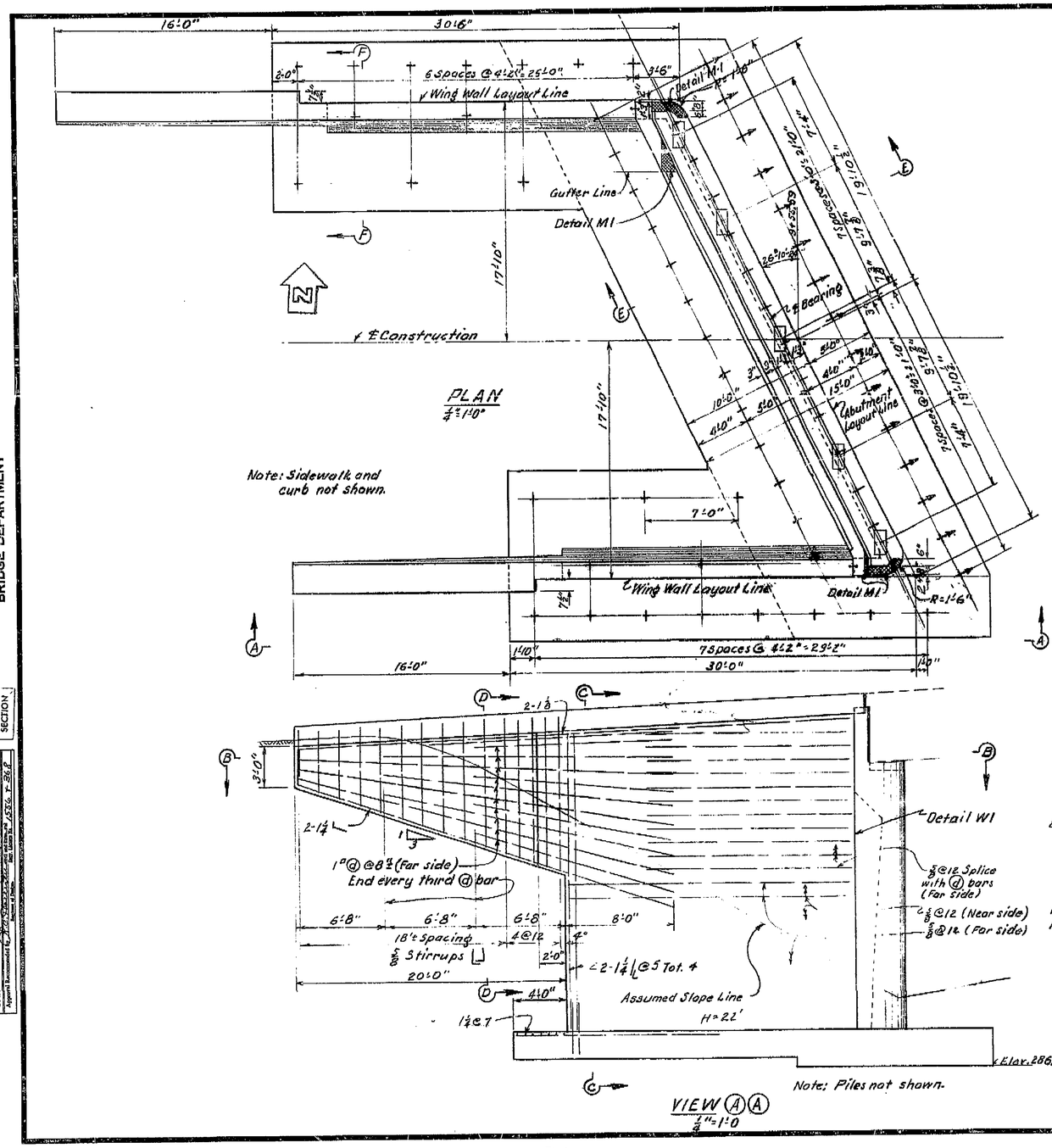
DESIGN 7 SECTION

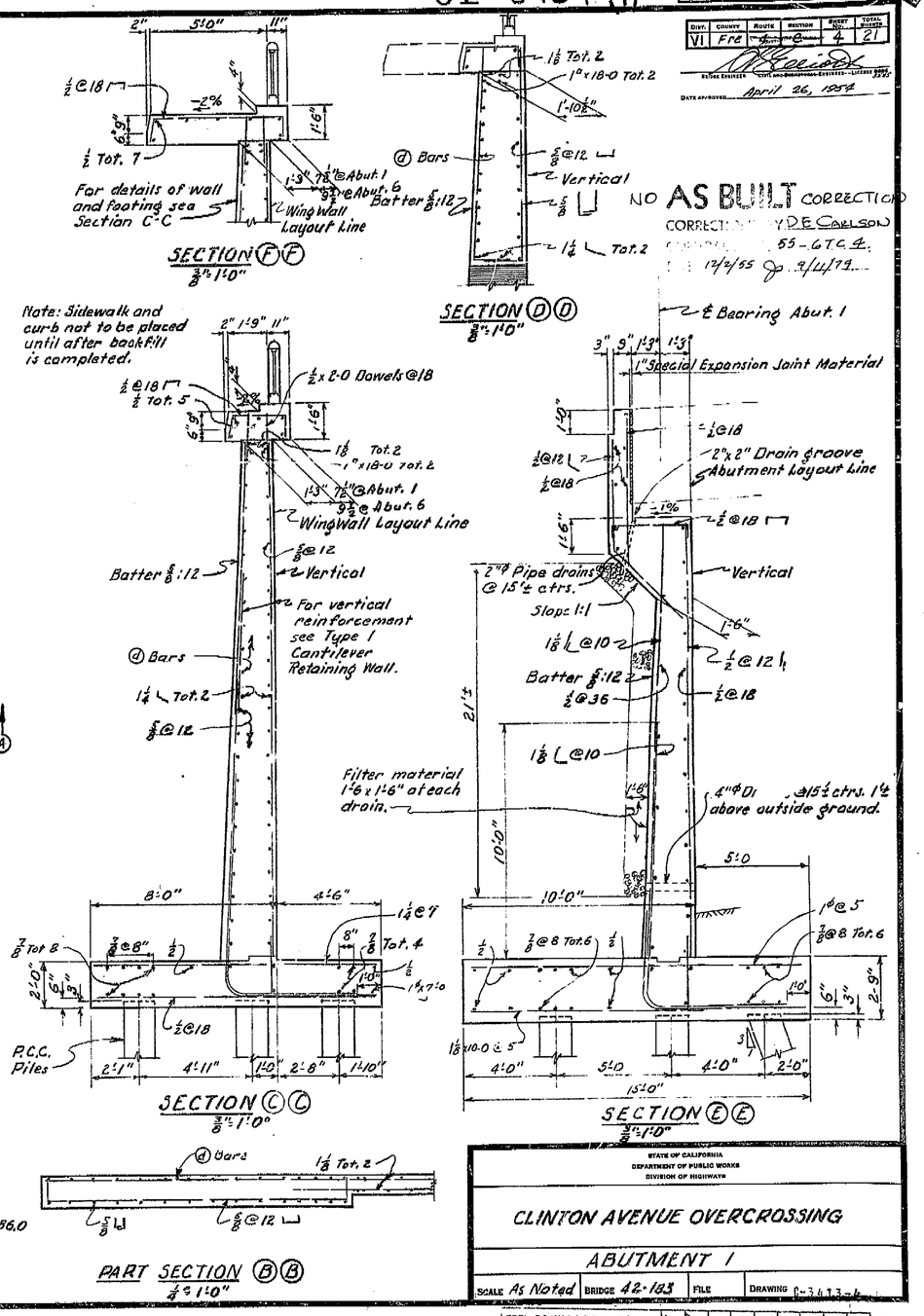
	BY	DATE	CHECKED	
DESIGN	H.D.D.	12-54	H.E.M.	2-56
DETAILS	H.D.D.	2-55	H.E.M.	2-56
QUANTITIES	H.D.D.	2-55	Chkd.	M.C.
SPECIFICATIONS	H.		Chkd.	

Submitted by [signature] Engineer

Approved Recommended for approval [signature] Bridge Engineer

Approved [signature] State Highway Engineer





STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CLINTON AVENUE OVERCROSSING

ABUTMENT 1

SCALE As Noted | BRIDGE 42-183 | FILE | DRAWING P-3413-L

PREL. DRAWING NO. P-3413 14 28 47

AS BUILT PLANS
Contract No. 55-6TC4
Date Completed
Document No. 60000992

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 1-30-80 SIGNATURE Joseph M Cota TITLE SUPERVISOR OF MICROFILM SERVICES

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VI-0194(1)

FED. ROAD SYS. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.			148	167

Dist.	County	Route	Section	Sheet No.	Total Sheets
VI	Fres.	[illegible]	C	3	21

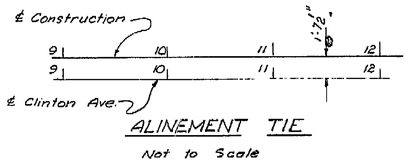
BRIDGE ENGINEER CIVIL ENGINEER LIC. NO. 5585
DATE APPROVED April 26, 1956

BRIDGE DEPARTMENT

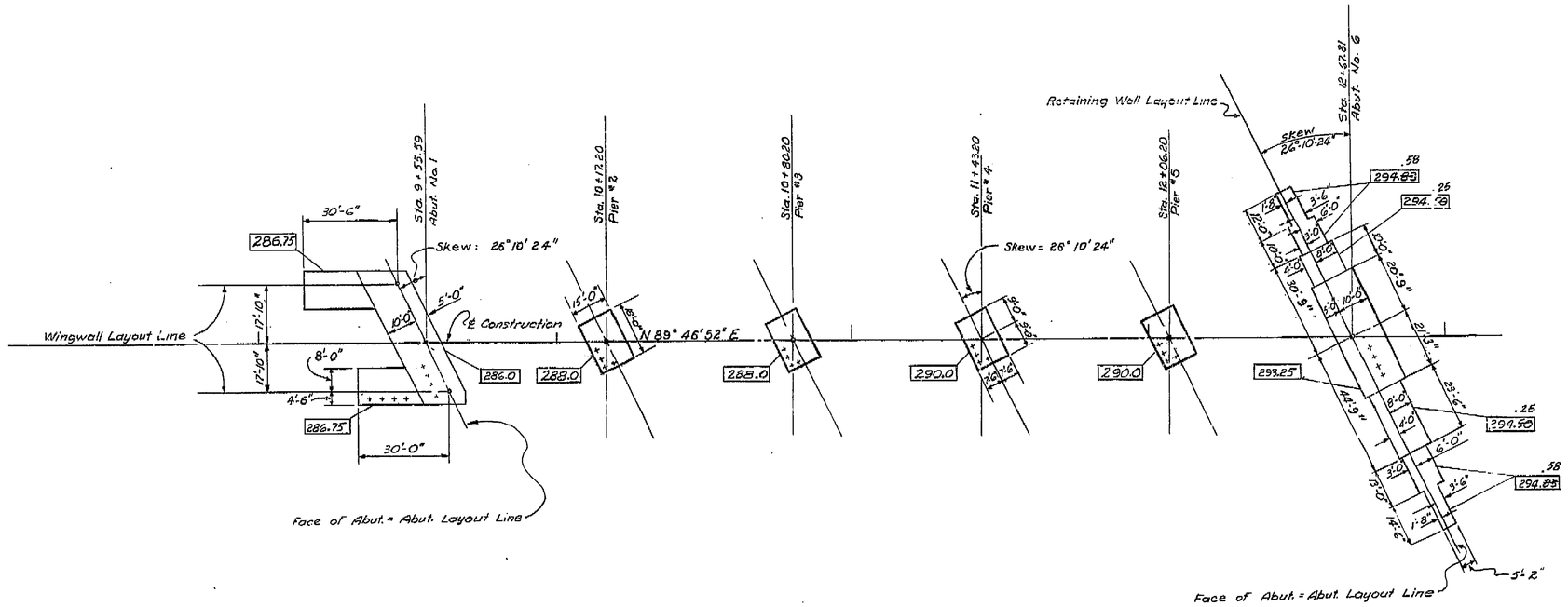
DESIGN 7 SECTION

	By	Date	Checked	
Submitted by				
DESIGN DETAILS	W.R.M.	1-54	Check	2-54
	W.R.M.	2-54	Check	2-54
QUANTITIES	P.E.J.	1-54	Check	C.E.C.
SPECIFICATIONS	D.G.S.	2-54	Check	C.E.C.
Approved Recommended by			Engineer of Design	
Approved by			State Bridge Engr.	

Scale 1" = 10'-0"



ALINEMENT TIE
Not to Scale



B.M. "10A
R.R. Spike in W.U.T. Pole
81'R "SP" 13+25
Elev. 299.76

USC & GS BM #C 366
Std Brass Disc 1953
Top F.L.O. PCC Box
65' Lt Sta 9+80 & 50' Rt CA 15+80
ELEV 299.34

Note:
Footing elev. shown thus, 00.0
For Details not shown see "Abutment 1, Abutment 6, and Pier Details."
All piles not shown.
Approximate ground elev. 295.

AS BUILT
CORRECTIONS BY D E Carlson
CONTRACT NO. 55-6TC4
DATE 12/2/55 Jo 7/10/58

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CLINTON AVENUE OVERCROSSING.

FOUNDATION PLAN.

SCALE	BRIDGE	FILE	DRAWING
1" = 20'-0"	42-188		D-3413-3

PREL. DRAWING NO. P-3413 ~~24~~ ~~34~~ ~~36~~ ~~56~~

AS BUILT PLANS
Contract No. 55-6TC4
Date Completed

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY MADE UNDER MY DIRECTION AND CONTROL ON THIS DATE, IN ACCORDANCE WITH AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.
DATE 1-30-58 SIGNATURE [illegible]

CURRENT TAXES PURSUANT TO
SUPERVISOR OF MICROFILM SERVICES

ClibPDF - www.fastio.com

UI-0194 (1)

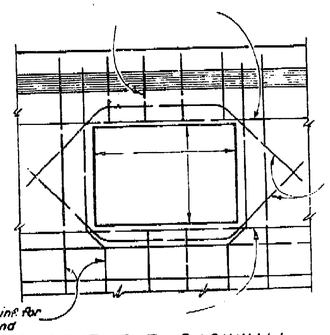
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	6		21	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2	CAL.			160	167

April 26, 1954

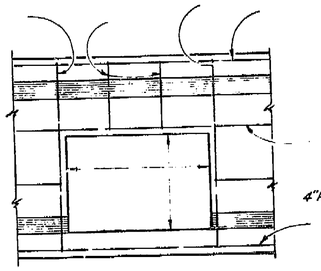
STANDARD DWG

	Initial	Date
D A		10-53
Revised		

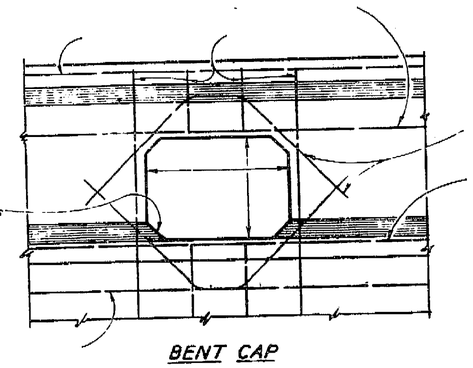


Wall Reinf. for size and spacing see Abutment details

ABUTMENT BACKWALL
DETAIL U1

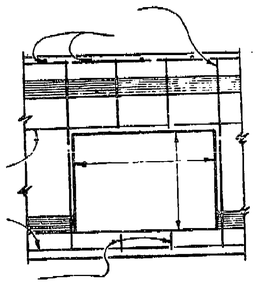


END DIAPHRAGM
DETAIL U2

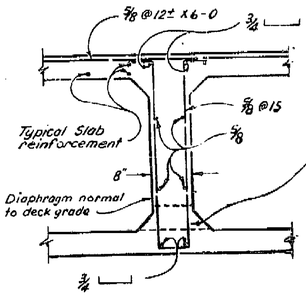


4" Fillets

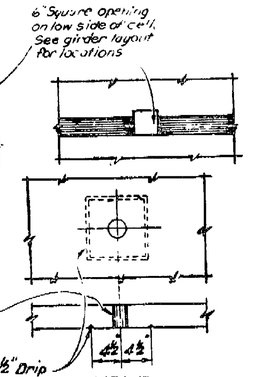
BENT CAP
DETAIL U3



INTERMEDIATE DIAPHRAGM
DETAIL U4



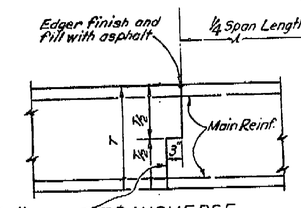
INTERMEDIATE DIAPHRAGM SECTION
DETAIL D1



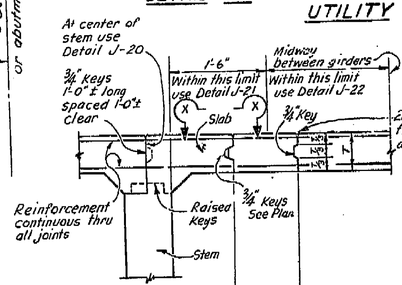
5"ϕ Vent in lower slab, Minimum of two in each cell except as shown. Place 1'-6" from face of bents, abutments and diaphragms.

VENT
DETAIL V1

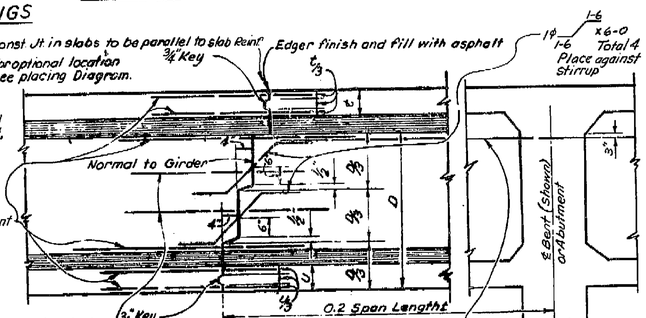
UTILITY OPENINGS



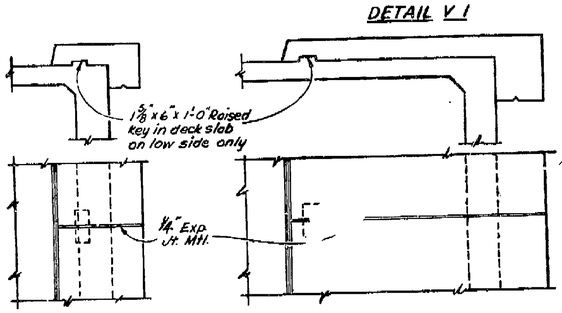
TRANSVERSE SLAB BRIDGE
DETAIL J1



DETAIL J-20 DETAIL J-21 DETAIL J-22



TRANSVERSE GIRDER
DETAIL J-3

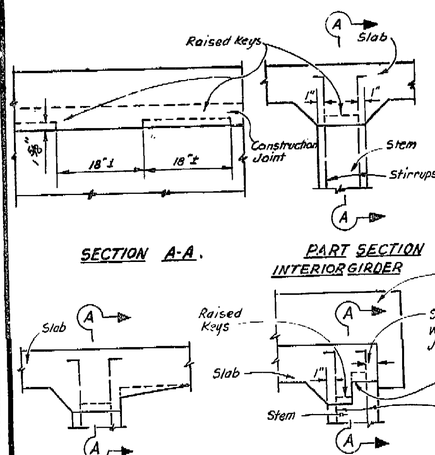


CURB
DETAIL C1

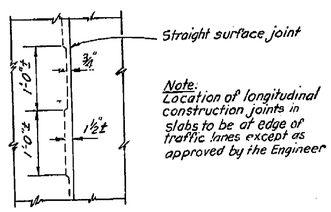
SIDEWALK
DETAIL S1

CURB AND SIDEWALK EXPANSION JOINTS

NOTE: In simple spans place joint at midspan. In continuous spans place joint over ℄ Interior piers or bents and at midspans.



SECTION A-A

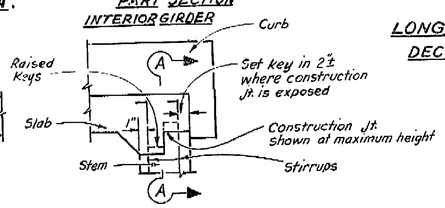


PART PLAN X-X

Note: Location of longitudinal construction joints in slabs to be at edge of traffic lanes except as approved by the Engineer

LONGITUDINAL DECK SLAB

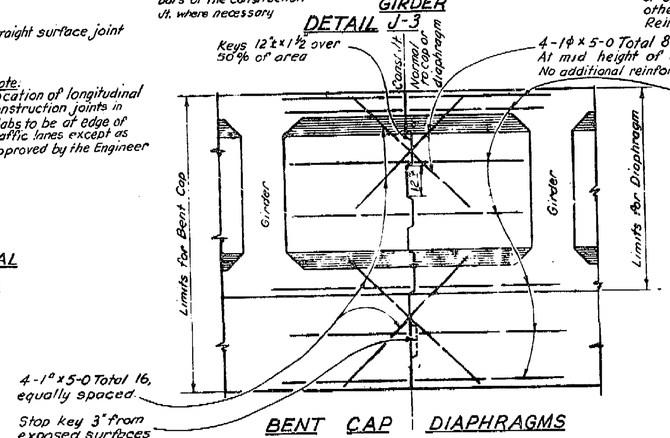
PART SECTION EXTERIOR GIRDER WITH SLAB CANTILEVER



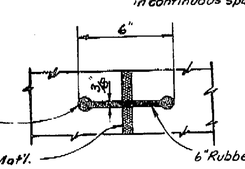
PART SECTION INTERIOR GIRDER

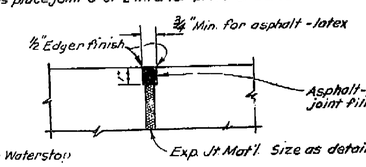
PART SECTION EXTERIOR GIRDER WITH CURB

KEY - GIRDER STEM TO SLAB
DETAIL J-5

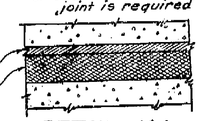


BENT CAP DIAPHRAGMS
LONGITUDINAL
DETAIL J-4





RUBBER WATERSTOP LATEX AT EXPANSION JOINT
DETAIL L1



DETAIL M-1

For use where watertight joint is required

CONSTRUCTION JOINTS

NO AS BUILT CORRECTION
CORRECTIONS BY O.E. Carlson
CONTRACT NO. 55-6TC-4
DATE 12/2/55 Op. 9/11/56

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CLINTON AVENUE OVERCROSSING

STANDARD DETAILS

SCALE None	BRIDGE 42-183	XS-16-22	DRAWING 6-3413-54

BRIDGE DEPARTMENT

	By	Checked	Quantities	Submitted by
DESIGN	RHT 7-54	WTK 7-54		
DETAILS	RL 7-54	A.M. 7-54		
QUANTITIES				
SPECIFICATIONS				

Approved: [illegible] 8-54

Recommended by: [illegible] 8-54

Submitted by: [illegible] 8-54

DRAWING NO. 3413

AS BUILT PLANS
Contract No. 55-6TC4
Date Completed

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 1-30-80 SIGNATURE Joseph M Cota TITLE SUPERVISOR OF MICROFILM SERVICES

ClibPDF - www.fastio.com

UT-0194(1)

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	99		7	21

FED. ROAD DIV. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.			147	167

Rte 99
PM 24.4

BRIDGE DEPARTMENT

DESIGN 7 SECTION

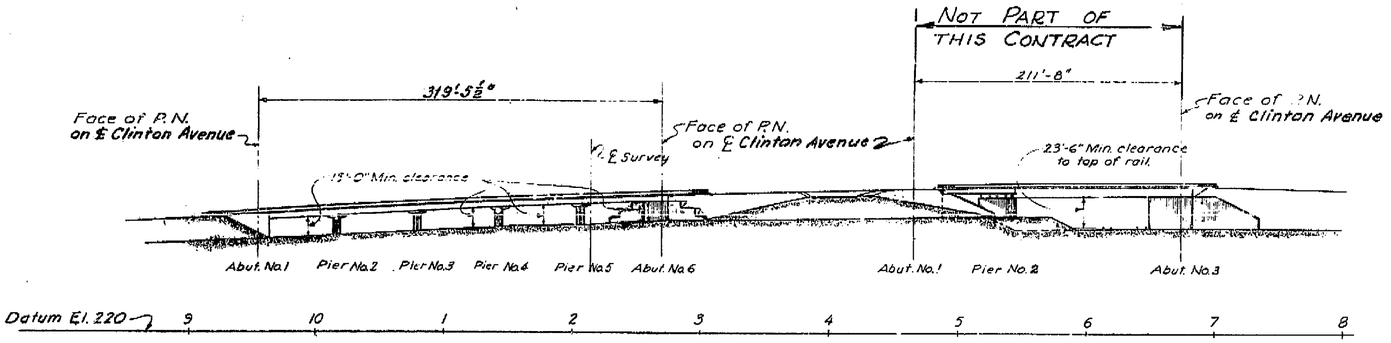
REVISION	By	Date
Approved		
Yard O.C. Fence Contract		

Design	W.R.M.	2-54	
Detailed	W.R.M.	2-54	
Quantities	A.E.H.	2-54	
Specifications	A.E.H.	2-54	
Approved Drawings			

Quantities by: C.S.H. & M.M.

Sta. 7+50 El. 360.25 — Rate of Change = R = -0.64 % (500' V.C.) — +6.00% — Sta. 12+50 El. 322.25 — +2.80% — Sta. 13+50 El. 325.05 — Rate of Change = R = -1.533% (600' V.C.) — -6.40% — Sta. 19+50 El. 314.25

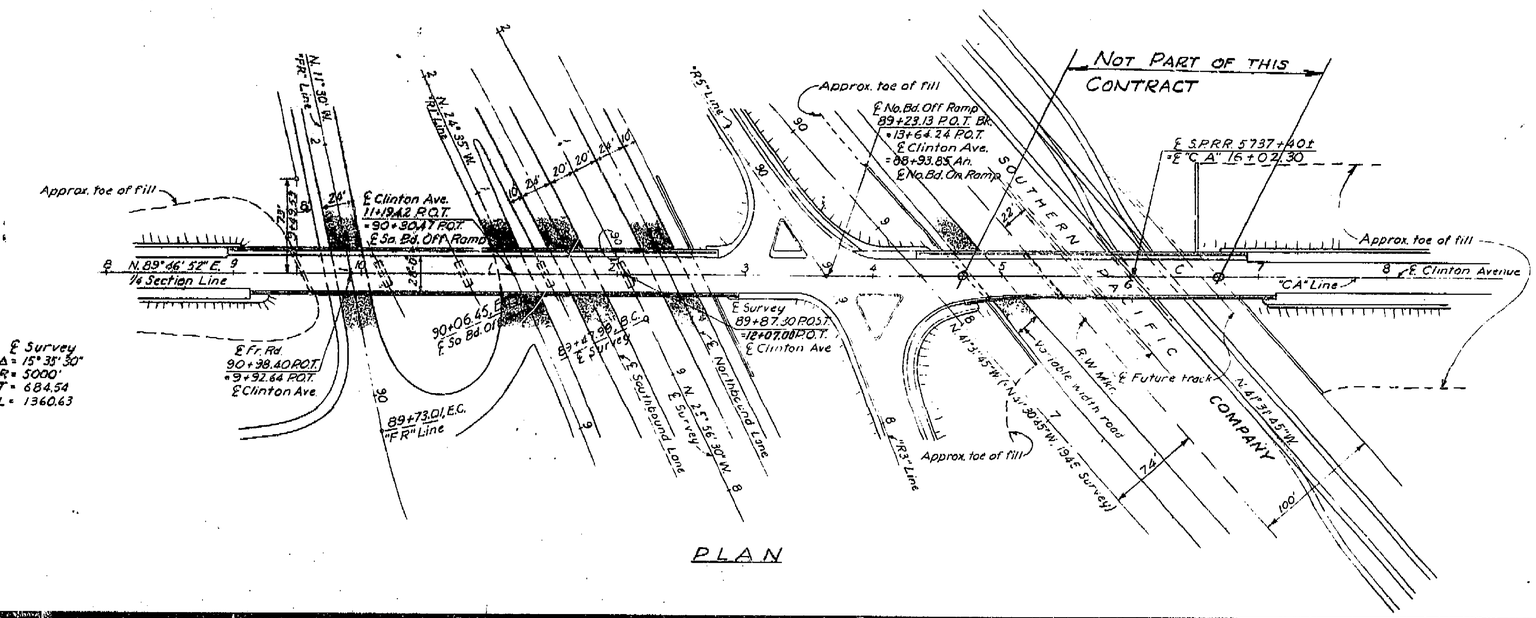
PROFILE GRADE
No Scale



ELEVATION

INDEX TO PLANS

SHEET	TITLE
1	GENERAL PLAN
2	STRUCTURE PLAN
3	FOUNDATION PLAN
4	ABUTMENT 1
5	ABUTMENT 6
6	PIER DETAILS
7	TYPICAL SECTIONS
8	GIRDER LAYOUT #1
9	GIRDER LAYOUT #2
10	GIRDER REINFORCEMENT #1
11	GIRDER REINFORCEMENT #2
12	TYPE 1 CANTILEVER RETAINING WALL
13	STANDARD RETAINING WALL DETAILS
14	STANDARD DETAILS
15	MISCELLANEOUS DETAILS
16	STEEL RAILING
17	PILE DETAILS
18	LOG OF TEST BORINGS
19	LIGHTING PLAN
20	STANDARD ELECTRICAL DETAILS - BRIDGE
21	LIGHTING REINFORCEMENT



PLAN

APPROXIMATE QUANTITIES

STRUCTURE EXCAVATION	1, .
STRUCTURE BACKFILL	1 c.y.
CLASS "A" P.C.C.	.84 L.F.
RUBBER WATERSTOPS	6,058 L.F.
FURNISHING CONCRETE PILES	231 EA.
DRIVING PILES	LUMP SUM
BAR REINFORCING STEEL (384,000 LBS.)	5,760 LBS.
MISCELLANEOUS IRON & STEEL	752 L.F.
STEEL BRIDGE RAILING	

NO AS BUILT CHANGES

AS BUILT

CORRECTIONS BY D. E. Carlson

CONTRACT NO. 55-6TC4

DATE 12/1/55 Op 7/6/59

556TC4

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CLINTON AVENUE OVERCROSSING

LOCATED 1-¾ MILES NORTH OF THE BELMONT AVENUE TRAFFIC CIRCLE (ROEDING PARK) OF FRESNO ON ROAD

GENERAL PLAN

SCALE	BRIDGE	FILE	DRAWING
1" = 50'	42-165		B-3413-1

PREL. DRAWING NO. P-3413

Approved for Construction: April 16, 1954

State Highway Engineer

Civil Engineer 12-Name No. 2084

AS BUILT PLANS
Contract No. 55-6TC4
Date Completed
Document No. 600000992

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THE DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 1-30-80 DIRECTOR [signature] TITLE SUPERVISOR OF MICROFILM SERVICES

ClibPDF - www.fastio.com

California Department of Transportation
Division of Maintenance

Structure Maintenance and Investigations

BRIDGE

INSPECTION

RECORDS

INFORMATION

SYSTEM

The requested documents have been generated by BIRIS.

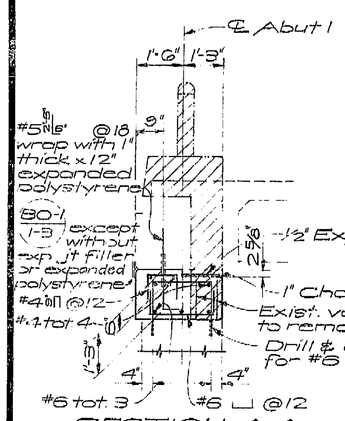
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Records for “Confidential” bridges may only be released outside the Department of Transportation upon execution of a confidentiality agreement.

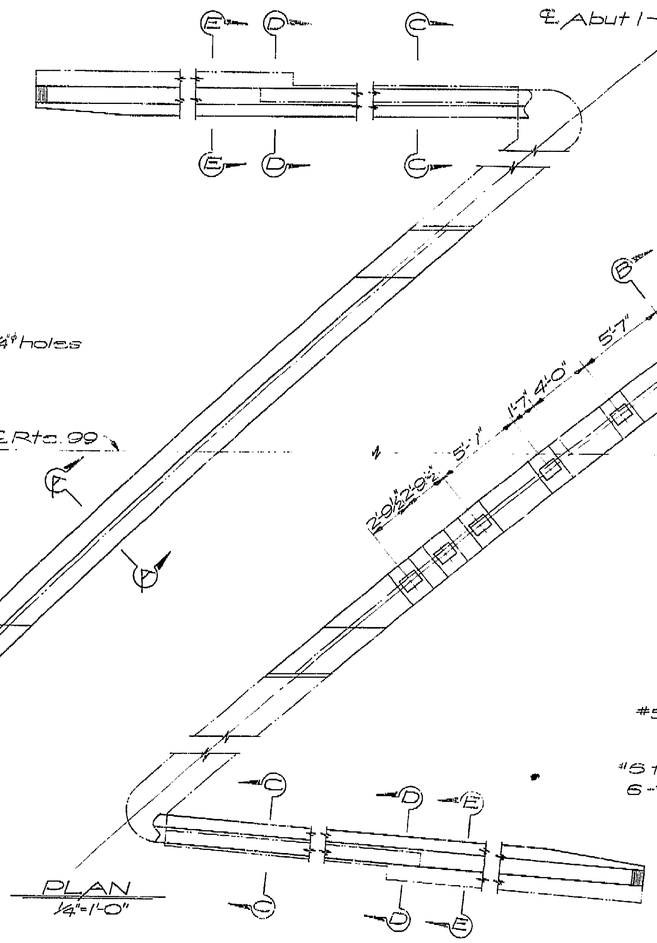
DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	21.3/27.3	116	140

K.A. Yaeger — 25712
DIVISION ENGINEER — REGISTERED CIVIL ENGINEER NUMBER

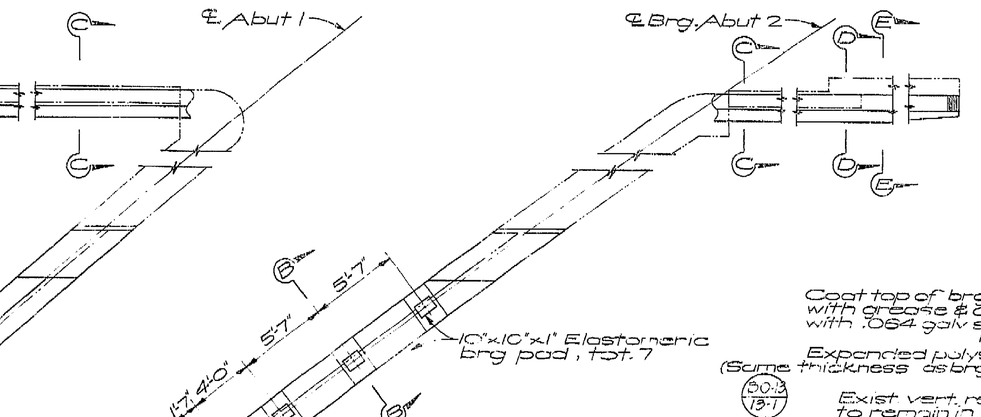
DATE APPROVED February 2, 1987

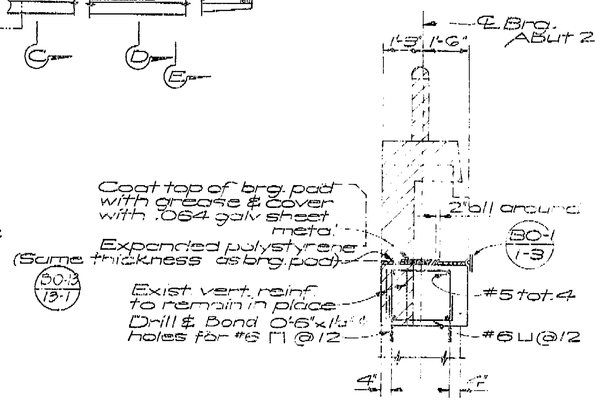


SECTION A-A
½"=1'-0"

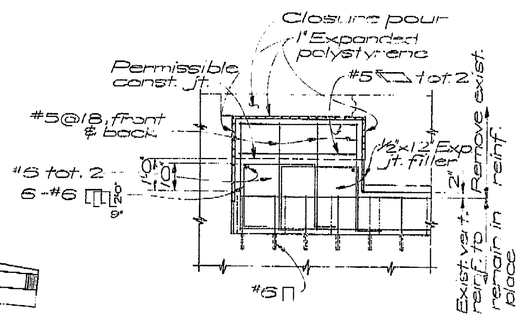


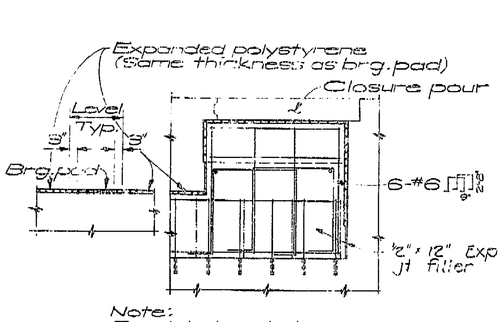
PLAN
½"=1'-0"





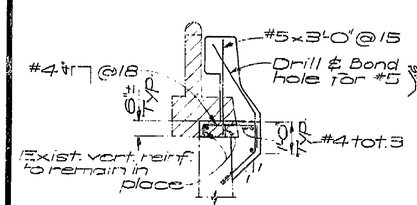
SECTION B-B
½"=1'-0"



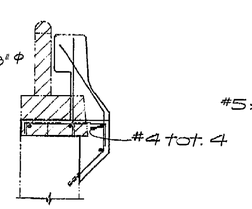


Note:
For details not shown see Abut 1.

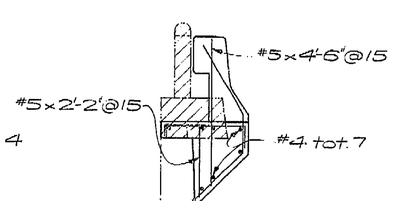
ABUT 1 — ABUT 2
PART ELEVATIONS (30-1 3)
½"=1'-0"



SECTION C-C
½"=1'-0"



SECTION D-D
½"=1'-0"



SECTION E-E
½"=1'-0"

NO AS BUILT CHANGES
AS BUILT ☑ 1-30-89
CORRECTIONS BY RA YAEGER
CONTRACT NO. 06-085909
DATE 12-6-88

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

Notes:
⊓ Remove exist. parapet wall & curb. Salvage steel railing.
For concrete barrier details not shown, see (B11-53 Type 25A)

116

AS BUILT PLANS
Contract No. 06-085404
Date Completed 12-6-88
Document No.

	By	Checked
DESIGN	D. Heathcote	K. Storren 4/86
DETAILS	R.K. Wong 3-86	K. Storren 4/86
QUANTITIES	Amer Bata 5-86	J. TORRES 4/86

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

State of CALIFORNIA
DEPARTMENT OF TRANSPORTATION

STRUCTURES - DESIGN 12
Wen Wong 34942
PROJECT ENGINEER — REGISTERED CIVIL ENGINEER NO.

CU 06200
WO 085401

BRIDGE NO. 42-182R
POST MILE 24.2

NORTH FRESNO UNDERCROSSING (WIDEN)
ABUTMENT DETAILS

Disregard prints bearing earlier revision dates →
REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 9 OF 6

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.
DATE 2-14-89 SIGNATURE Donald Blackford TITLE SUPERVISOR OF MICROFILM SERVICES

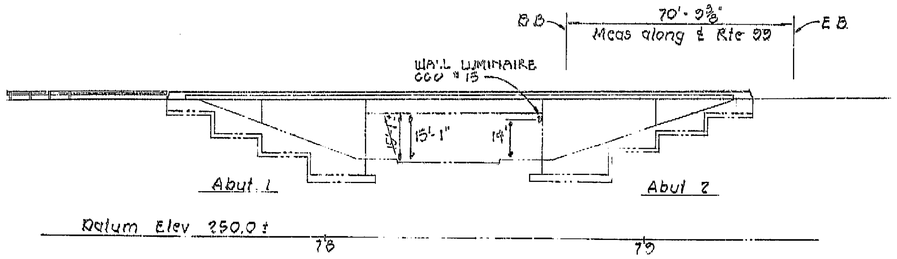
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DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	21.3/27.3	114	140

CHIEF, OFFICE OF STRUCTURES DESIGN — REGISTERED CIVIL ENGINEER NUMBER 11428

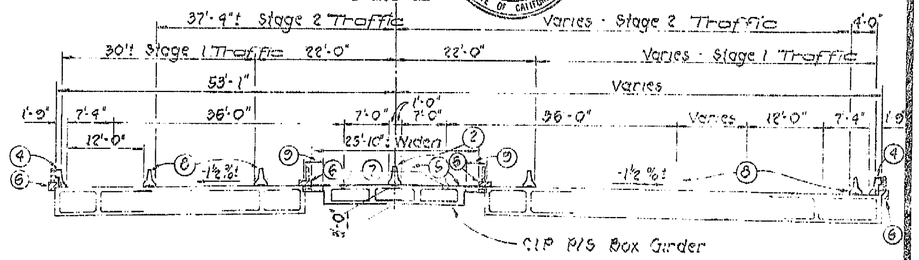
DATE APPROVED February 2, 1987

REGISTERED PROFESSIONAL ENGINEER — J E ROBERTS — No. 11428 — Exp 12-31-88 — CIVIL — STATE OF CALIFORNIA



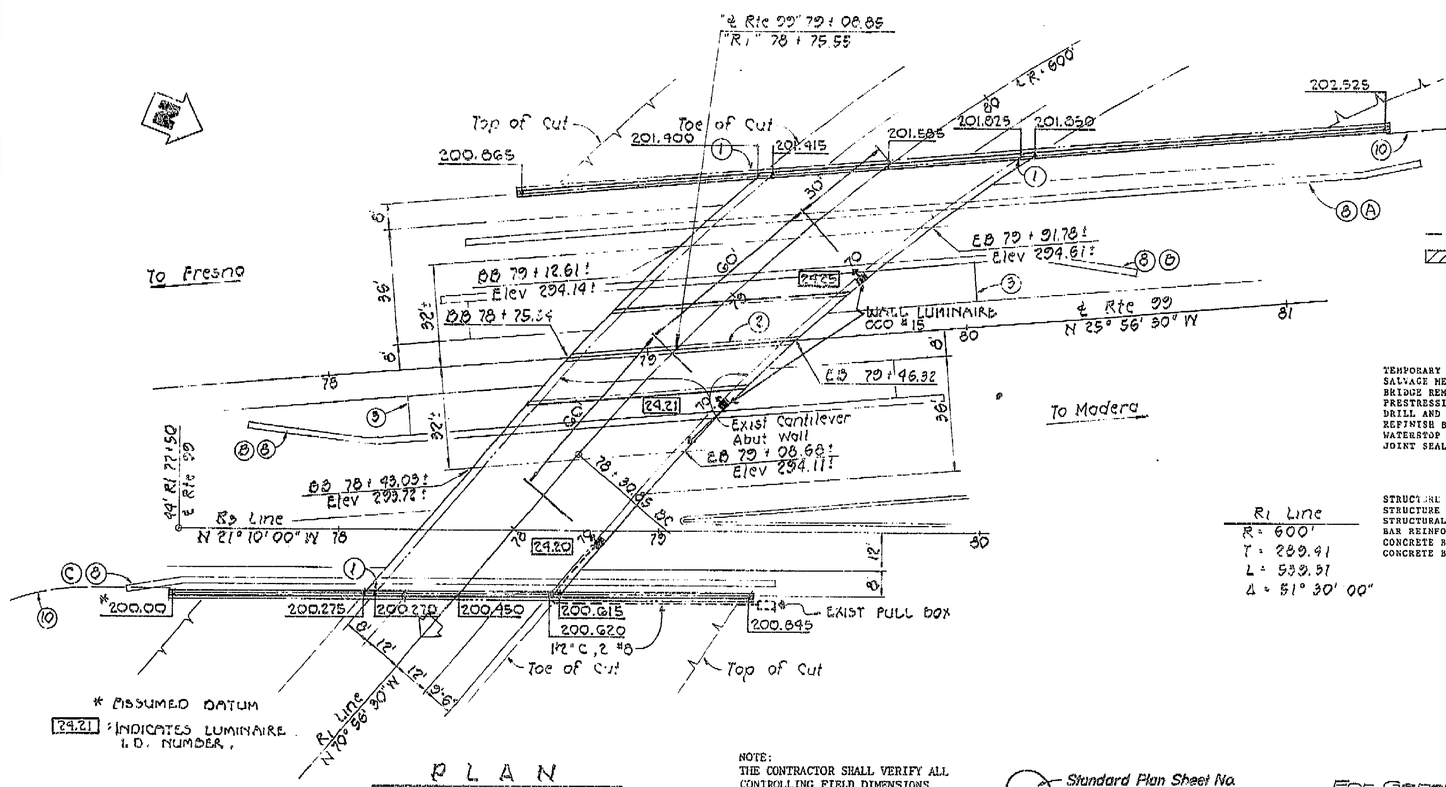
ELEVATION

1" = 20'



TYPICAL SECTION

1" = 10'



* ASSUMED DATUM

24.21 : INDICATES LUMINAIRE I.D. NUMBER.

PLAN

1" = 20'

1. Paint "N Fresno UC" ℄ "Br No 42-182 R/L".
2. Concrete Barrier Type 50A.
3. Approach Slab Type 2, See "Road Plans".
4. Concrete Barrier Type 25 Modified
5. Match exist Grade & X-Slope.
6. Remove exist curb & salvage steel railing.
7. Exist Profile Grade.
8. Temporary Railing (Type K) ⟨ (A) L = 300'-0" (B) L = 220'-0" (C) L = 200'-0"
9. 2'-11" ± Closure Pour.

—— Indicates exist structure.

▨ Indicates concrete removal.

⊕ Indicates point of min vert clr.

10. MBGR, see "Road Plans"

APPROXIMATE QUANTITIES

TEMPORARY RAILING (TYPE K)	1,180	LF
SALVAGE METAL BRIDGE RAILING	670	LF
BRIDGE REMOVAL (PORTION), LOCATION B	LUMP SUM	
PRESTRESSING CAST-IN-PLACE CONCRETE	LUMP SUM	
DRILL AND BOND DOWEL	150	LF
REFINISH BRIDGE DECK	216	SQFT
WATERSTOP	92	LF
JOINT SEAL (TYPE B-MR 1")	22	LF

FINAL PAY QUANTITIES

STRUCTURE EXCAVATION (BRIDGE)	50	CY
STRUCTURE BACKFILL (BRIDGE)	10	CY
STRUCTURAL CONCRETE, BRIDGE	130	CY
BAR REINFORCING STEEL (BRIDGE)	24,100	LB
CONCRETE BARRIER (TYPE 25 MODIFIED)	450	LF
CONCRETE BARRIER (TYPE 50A)	71	LF

R1 Line
R = 600'
T = 289.91
L = 553.37
Δ = 51° 30' 00"

INDEX TO PLANS

SHEET NO.	TITLE
1	GENERAL PLAN
2	FOUNDATION PLAN
3	ABUTMENT DETAILS
4	TYPICAL SECTION
5	GIRDER LAYOUT
6	LOG OF TEST BORINGS

STANDARD PLANS DATED JULY 1984

A62-C	EXCAVATION AND BACKFILL - BRIDGE
B0-1	BRIDGE DETAILS
B0-5	BRIDGE DETAILS
B0-13	BRIDGE DETAILS
B6-21	JOINT SEALS
B7-1	BOX GIRDER DETAILS
B8-5	CAST-IN-PLACE PRESTRESSED GIRDER DETAILS
B11-30	TEMPORARY RAILING (TYPE K)
B11-53	CONCRETE BARRIER TYPE 25
A76-A	CONCRETE BARRIER TYPE 50

AS BUILT 21 1-26-89
CORRECTIONS BY RA YAEGER
CONTRACT NO. 06-085404
DATE 12-6-88

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

Standard Plan Sheet No.
Detail No.

For General Notes, see "Foundation Plan" sheet.

Submitted by: RA Rogerson 1/87 — 25712 — Design Engineer — Registered Civil Engineer Number	DESIGN	By D Blackstock	J Stowers 4/86	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
Approved/Recommended for: RE Nolan 1/87 — 13523 — District Engineer — Registered Civil Engineer Number	DETAILS	By J Uyno 1-86	Checked: Ken Yeroyan 9/86	LAYOUT	Checked: Ken Yeroyan 4/86
	QUANTITIES	By Amer Bala 5-86	Checked: T TORRES 4/86	SPECIFICATIONS	Plans and Report Compared: Brent JC Massey 4/87

State of CALIFORNIA — DEPARTMENT OF TRANSPORTATION

STRUCTURES - DESIGN 12 — Ken Yeroyan 349492 — Project Engineer — Registered Civil Engineer No.

BRIDGE NO. 42-182 R/L

POST MILE 22.2

NORTH FRESNO UNDERCROSSING (WIDEN)

GENERAL PLAN

CU 06200
WO 085401

Disregard prints bearing earlier revision dates

REVISION DATES (PSE&LIMA IY, STAGE ONLY)

SHEET 1 OF 6

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DS 0128 94032-500 370 007

114

AS BUILT PLANS
Contract No. 06-085404
Date Completed 12/06/88
Document No.

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA, PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 2-14-89 — SIGNATURE Donald Blackford — TITLE SUPERVISOR OF MICROFILM SERVICES

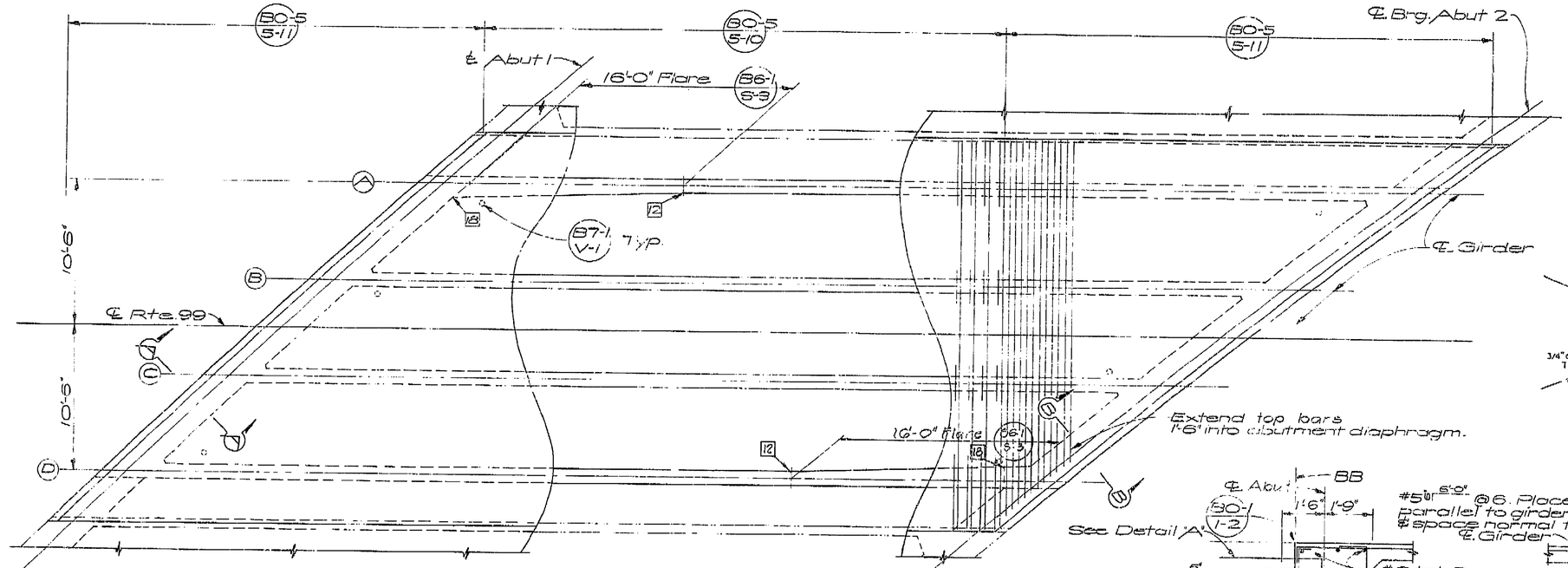
ClibPDF - www.fastio.com

116

DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	COUNTY No.	TOTAL SHEETS
06	Fre	99	21.3/27.3	118	140

DESIGN ENGINEER R.A. Yeamans — REGISTERED CIVIL ENGINEER NUMBER 25712

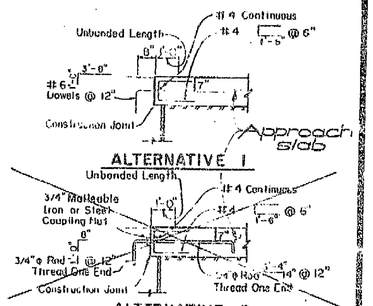
DATE APPROVED February 2, 1987



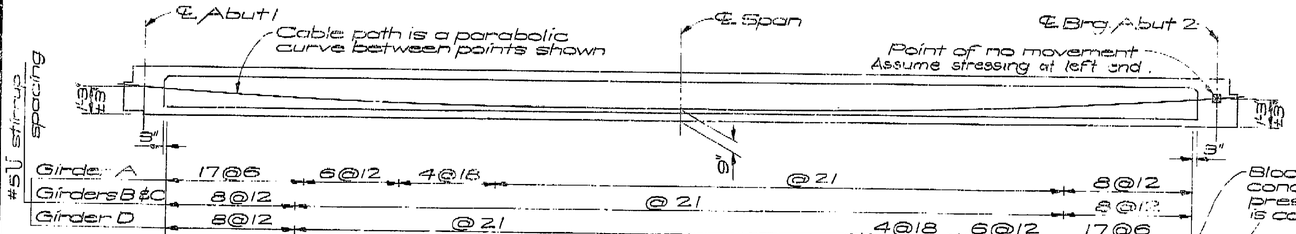
GIRDER LAYOUT
1/4"=1'-0"

SECTION A-A
1/2"=1'-0"

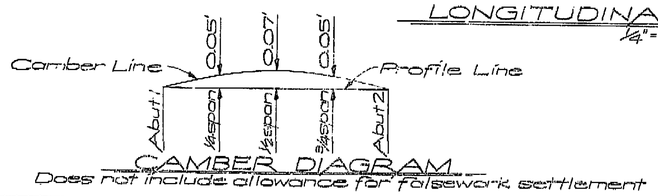
SECTION B-B
1/2"=1'-0"



DETAIL "A"
No Scale
Joint seal
B6-2 MR-1

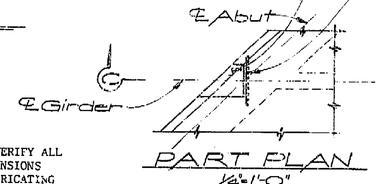


LONGITUDINAL SECTION
1/4"=1'-0"

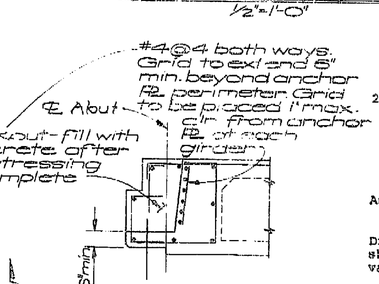


CAMBER DIAGRAM
Does not include allowance for falsework settlement

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



PART PLAN
1/2"=1'-0"



SECTION C-C
1/2"=1'-0"

ANCHORAGE BLOCKOUT DETAIL

PRESTRESSING NOTES

270 KSI Low Relaxation Strand: NO AS BUILT CHANGES

P_{jack} = 3760 kips — AS BUILT 11-30-89

A_s = 18.57 in² — CORRECTIONS BY RA YEAGER

Anchor Set = 3/8 in — CONTRACT NO. 06-085404

DATE 12-6-88

Distribution of prestress force (P_{jack}) between girders shall not exceed the ratio of 3:2. Maximum final force variation between girders shall not exceed 725K.

Concrete: f'_c = 4000 psi @ 28 days

f'_{ci} = 3500 psi @ time of stressing

Contractor shall submit elongation calculations based on initial stress at [X] = .972 times jacking stress.

One end stressing shall be performed from either end.

DESIGN	By D Hostetter	Checked [illegible] 4/86	
DETAILS	By R.K. Wong 3-86	Checked [illegible] 4/86	
QUANTITIES	By Amar Bata 5-86	Checked J TORRES 4/86	

State of CALIFORNIA DEPARTMENT OF TRANSPORTATION

STRUCTURES - DESIGN 12

PROJECT ENGINEER Vern Wong — REGISTERED CIVIL ENGINEER NO. 34942

BRIDGE NO. 42-182R

POST MILE 24.2

NORTH FRESNO UNDERCROSSING (WIDEN)

GIRDER LAYOUT

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200 WO 085401

Disregard prints bearing earlier revision dates

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 5 OF 6

118

AS BUILT PLANS
Contract No. 06-085404
Date Completed 12/01/88
Document No.

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 2-14-89 SIGNATURE [illegible] TITLE SUPERVISING

ClibPDF - www.fastio.com

UI-0194(1)

DIST.	COUNTY	ROUTE	POST MILES — TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	21.3/27.3	119	140

DATE APPROVED February 2, 1987

GEOTECHNICAL BRANCH - TRANSPORTATION LABORATORY

Robert L. Reynolds #165

DATE APPROVED

NORTH FRESNO UNDERCROSSING

LOG OF TEST BORINGS

Approved Recommended By			BRIDGE No.
P. Fong 78	R. Greenwood 271	CU: 06 WO: 085400	42-182R/L

PROJECT GEOLOGIST CLASS NO. | ENGINEERING GEOLOGIST CLASS NO.

PLAN
Scale : 1"=20'

Sta. 73 + 08.85 POT ℄ Survey
Sta. 78 + 78.35 POC "R1"
℄ Survey N 25°55'30"W
"R1" Line

B-1 B-6 B-2 B-4 B-3 B-5

NO AS BUILT CHANGES

AS BUILT
CORRECTIONS BY D E Creegan
CONTRACT NO. 55-6TC4
DATE 12/1/88 7/4/89

PROFILE
Scale : 1" = 10'

B-1: El 293± Slightly compact gray silty sand; Very dense brown cemented sand; Compact brown medium sand some silt binder; Slightly compact gray medium & coarse sand; Dense gray medium & fine sand

B-6: El 294.9

B-2: El 294.2

B-4: El 293.5 Loose brown sandy silt; Very dense brown cemented sand; Loose & slightly compact brown silty sand; Slightly compact gray medium & coarse sand.

B-3: El 293.5

Existing ground line

B-5: El 293± Slightly compact brown sandy silt; Very dense brown cemented sand; Very loose gray medium & coarse sand; Compact gray medium & coarse sand; Compact brown fine sandy silt; Dense gray fine sand; Dense brown silty sand; Dense gray medium & fine sand

Note : No ground water was encountered in any of these borings.

NO AS BUILT CHANGES
El 1-30-89
RA YAEGER
06-085404
12-6-88

CLASSIFICATION OF MATERIAL, BASED ON STANDARD GRADE SIZE LIMITS

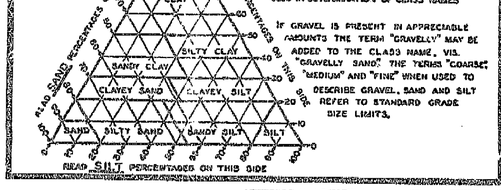


DIAGRAM SHOWING THE BASIS FOR ESTIMATES OF GRADE SIZE DISTRIBUTION USED IN DETERMINATION OF CLASS NAMES

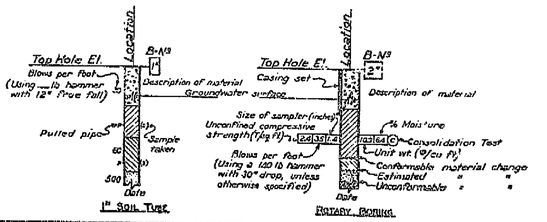
IF GRAVEL IS PRESENT IN APPRECIABLE AMOUNTS THE TERM "GRAVELLY" MAY BE ADDED TO THE CLASS NAME, VIS. "GRAVELLY SAND." THE TERMS "COARSE," "MEDIUM" AND "FINE" WHEN USED TO DESCRIBE GRAVEL, SAND AND SILT REFER TO STANDARD GRADE SIZE LIMITS.

LEGEND OF EARTH MATERIALS

- GRAVEL
- SAND
- SILT
- CLAY
- SANDY CLAY OR CLAYEY SAND
- SANDY SILT OR SILTY SAND
- SILTY CLAY OR CLAYEY SILT
- PEAT AND/OR ORGANIC CLAY
- FILLED MATERIAL
- IGNEOUS ROCK
- SEDIMENTARY ROCK
- METAMORPHIC ROCK

LEGEND OF BORING OPERATIONS

- PLAN OF ANY BORING
- PENETROMETER
- 2½" CONE PENETROMETER
- SAMPLER BORING (DRY)
- ROTARY BORING (WET)
- AUGER BORING (DRY)
- JET BORING
- CORE BORING
- TEST PIT



NOTES

THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 2, ARTICLE (c) OF THE STANDARD SPECIFICATIONS AND TO THE SPECIAL PROVISIONS ACCOMPANYING THIS SET OF PLANS. CLASSIFICATION OF EARTH MATERIAL AS SHOWN ON THIS SHEET IS BASED UPON FIELD INSPECTION AND IS NOT TO BE CONSTRUED TO IMPLY MECHANICAL ANALYSIS.
PENETROMETER BORINGS HAVING A RATE OF PENETRATION MEASURED IN SECONDS PER FOOT ARE DRIVEN WITH A NO 2 MCKIERNAN-TERRY AIR HAMMER AT 115 PSI.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

NORTH FRESNO UNDERCROSSING

LOG OF TEST BORINGS

SCALE: HORIZ. 1"=20' VERT. 1"=10' | BRIDGE 42-182 | FILE | DRAWING 3412-18

PREL. DRAWING NO. P-3412

DESIGN BY / SECTION

FIELD STUDY BY: W.C. Mayer, R.A. Yaeger, C.C. Mayer
DESIGNED BY:
CHECKED BY:
Approved Recommended for Approval: [illegible]

SHEET 6 OF 6

119

AS BUILT PLANS
Contract No. 06-085404
Date Completed 12/06/88
Document No.

AS BUILT PLANS
Contract No. 55-6TC4
Date Completed

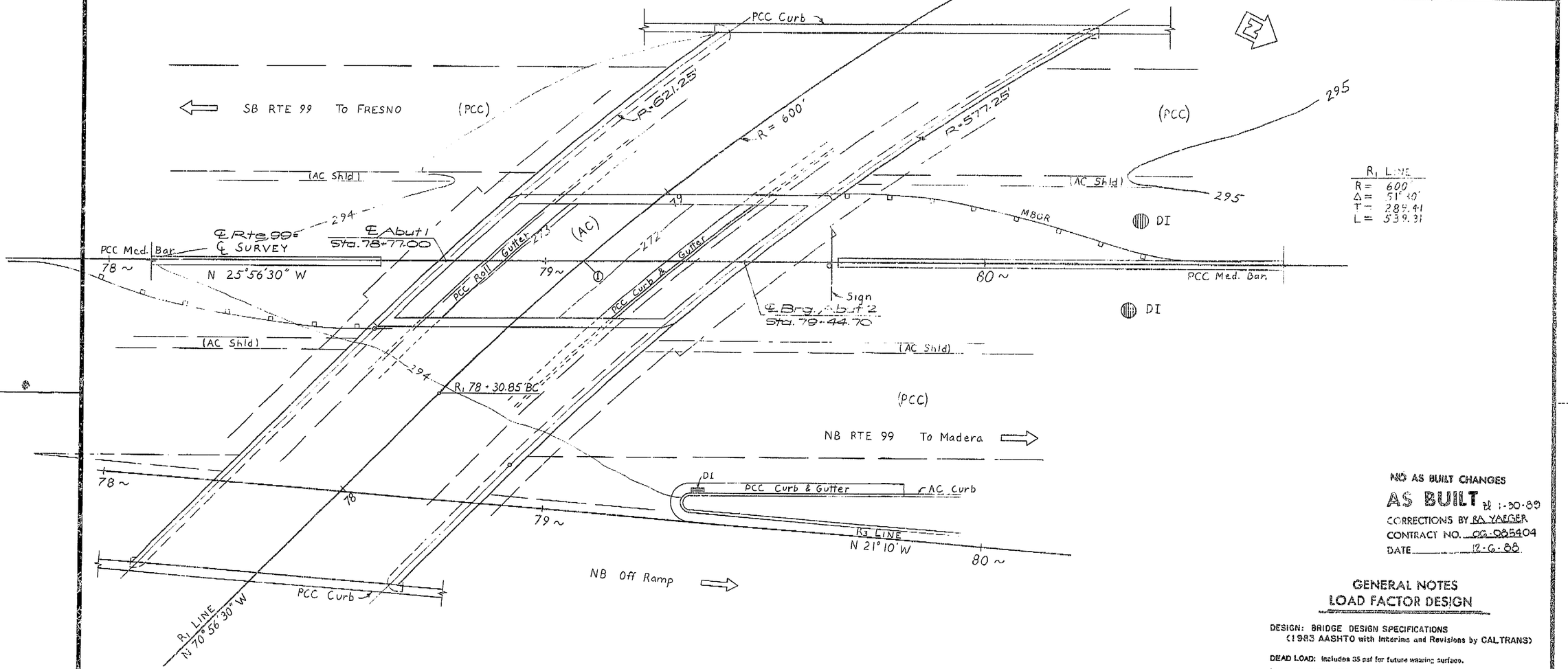
I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.
DATE 2-14-89 SIGNATURE Donald Blackford TITLE SUPERVISOR OF MICROFILM SERVICES

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.
DATE SIGNATURE TITLE SUPERVISOR OF MICROFILM SERVICES

ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	21.3/27.3	115	140

Ken Thurman — 34942
DESIGN ENGINEER — REGISTERED CIVIL ENGINEER NUMBER
DATE APPROVED February 2, 1987



R1 LINE
R = 600'
Δ = 51°30'
T = 289.41
L = 539.31

① ℄ SURVEY 79+08.85 POT = R1 78+75.55 POC
Radial S 23° 19' 36" W

BENCH MARK
Fd. chis sq. top of median barrier at Sta 78+50.00 ℄ Survey.
Elev. 296.87

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

NO AS BUILT CHANGES
AS BUILT R1 1-30-89
CORRECTIONS BY RA YAEGER
CONTRACT NO. 06-085404
DATE 12-6-88

GENERAL NOTES
LOAD FACTOR DESIGN

DESIGN: BRIDGE DESIGN SPECIFICATIONS
(1983 AASHTO with Interims and Revisions by CALTRANS)

DEAD LOAD: Includes 35 psf for future wearing surface.

LIVE LOADING: HS20-44 and alternative and permit design load.

REINFORCED CONCRETE: f_y = 60,000 psi
f'_c = 3,250 psi
n = 9

Transverse deck slabs (working Stress Design)
f_s = 20,000 psi
f_c = 1,200 psi
n = 10

PRESTRESSED CONCRETE: See 'Prestressing Notes'

PR-42182-1

115

PRELIMINARY INVESTIGATION SECTION

SCALE 1"=10'	DATUM NGVD	PHOTOGRAMMETRY AS OF:		DRAWN By MHM 11-85	DESIGN By R.K. Wong 3-86	Checked Torres 4/86
		SURVEYED By DISTRICT		TRACED By MHM 12-85	DETAILS By Amer Bata 5-86	Checked J TORRES 4/86
ALIGNMENT TIES AS Built 1955		FIELD CHKD By LJH 10-85		CHECKED By EGN 12-85	QUANTITIES By	Checked

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

State of CALIFORNIA
DEPARTMENT OF TRANSPORTATION

STRUCTURES - DESIGN 12
Ken Thurman 34942
PROJECT ENGINEER — REGISTERED CIVIL ENGINEER NO.

BRIDGE NO. 42-182 R/L
POST MILE 24.2

NORTH FRESNO UNDERCROSSING (WIDEN)
FOUNDATION PLAN

CU 05200
WO 085401

Disregard prints bearing earlier revision dates →

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 2 OF 6

AS BUILT PLANS
Contract No. 06-085404
Date Completed 12/01/88
Document No.

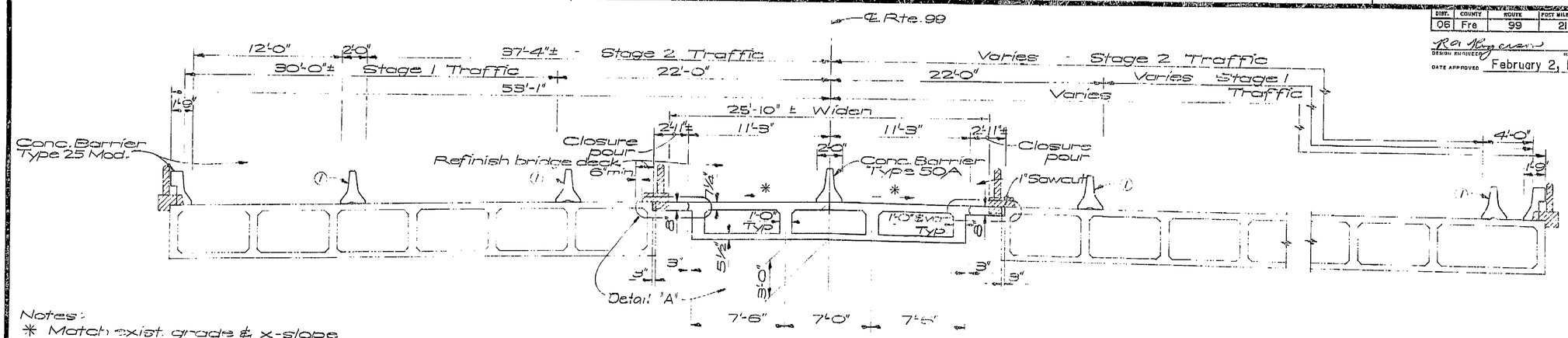
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DATE 2-14-89 SIGNATURE Donald Blackford TITLE SUPERVISOR OF MICROFILM SERVICES

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117

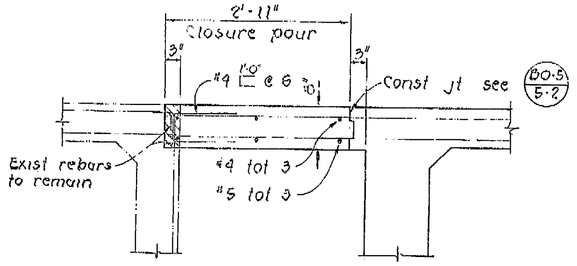
DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	21.3/27.3	117	140

R A Yaeger — 25712
DESIGN ENGINEER — REGISTERED CIVIL ENGINEER NUMBER
DATE APPROVED February 2, 1987

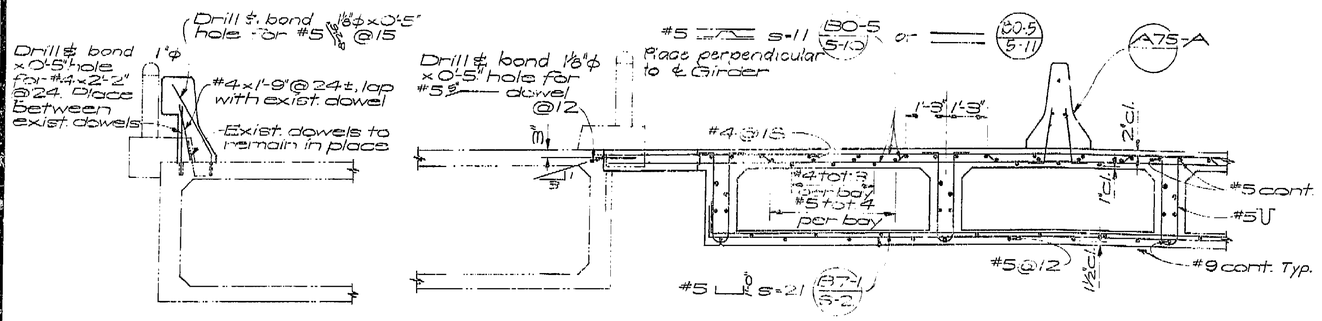


Notes:
* Match exist. grade & x-slope
① Temporary railing (Type K)
▨ Remove exist curb. Salvage steel railing.

TYPICAL SECTION
½"=1'-0"

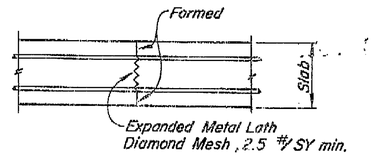


DETAIL "A"
1" = 1'-0"



For concrete barrier details not shown, see B11-58 Type 25

PART TYPICAL SECTION B0-5 B7-1 B8-5
½"=1'-0"



ALTERNATIVE DECK CONSTRUCTION JOINT TOP OR BOTTOM SLAB

AS BUILT PLANS
Contract No. 06-065404
Date Completed 12-6-88
Document No.

FALSEW'K RELEASE

Falsework shall be released as soon as permitted by the specifications. Closure pour shall not be placed sooner than 60 days after the falsework has been released.

NO AS BUILT CHANGES
AS BUILT 1-30-89
CORRECTIONS BY RA YAEGER
CONTRACT NO. 06-065404
DATE 12-6-88

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	D Hestmoste	Checked M Stevens 4/86	
DETAILS	R.K. Worry 3-86	Checked Stevens 4/86	
QUANTITIES	Amar Bata 5-86	Checked J TORRES 4/86	

State of CALIFORNIA DEPARTMENT OF TRANSPORTATION

STRUCTURES - DESIGN 12
Ken Thorne 34942
PROJECT ENGINEER — REGISTERED CIVIL ENGINEER NO.

BRIDGE NO. 42-182R/L
POST MILE 24.2

NORTH FRESNO UNDERCROSSING (WIDEN)
TYPICAL SECTION

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 065200
WO 085401

Dimensions prints bearing earlier revision dates →

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 4 OF 6

117

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 2-14-89 SIGNATURE Donald O Blackwell TITLE SUPERVISOR OF MICROFILM SERVICES

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VI-0194 (1)

FED. ROAD DIV. No.	STATE	PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
7	CAL.			126	167

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	Fre			9	18

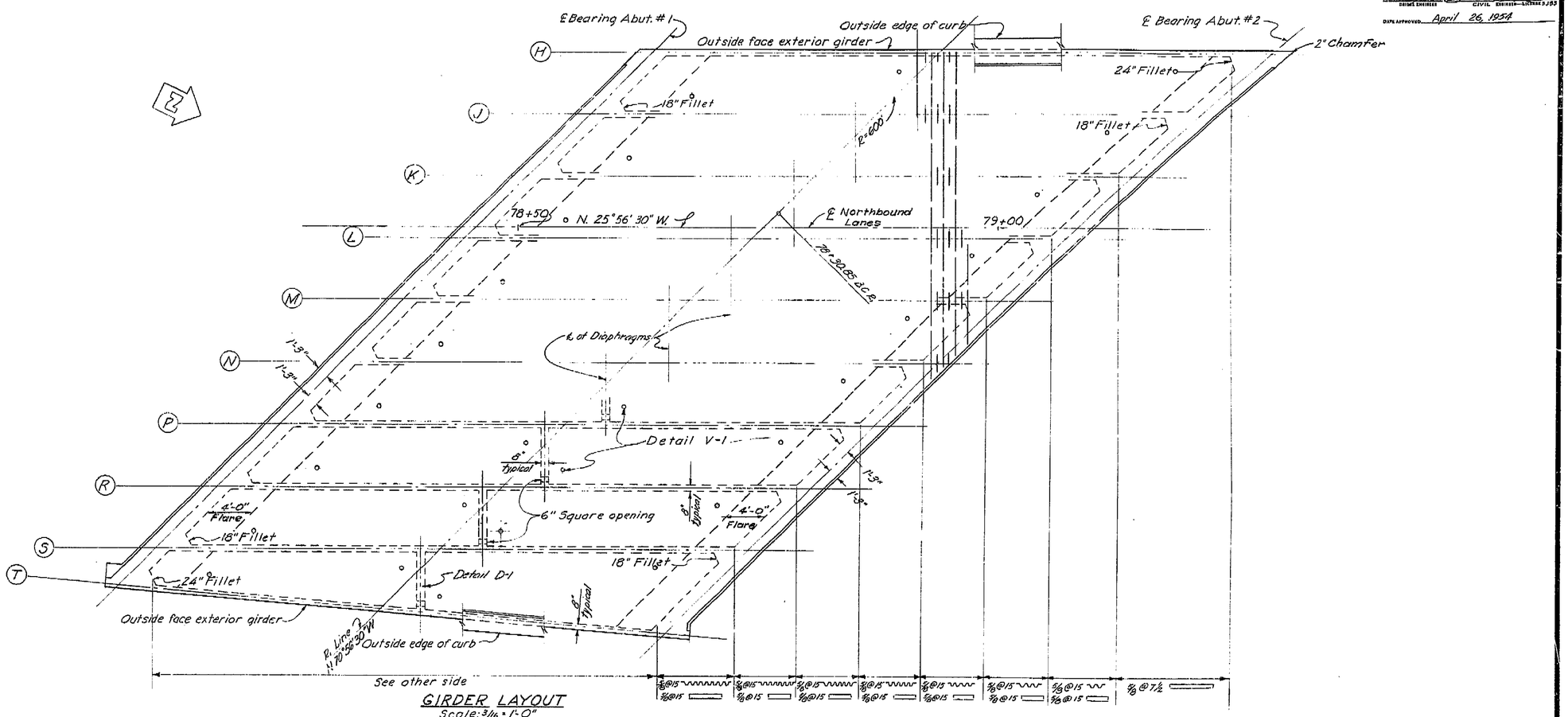
BRIDGE ENGINEER — CIVIL ENGINEER—LICENSE 5,193

DATE APPROVED April 26, 1954

BRIDGE DEPARTMENT

DESIGN 7 SECTION

Detailed by				
DESIGN	By RPF	Date 11-53	Check HJK 12/54	
DETAILS	By A.M.	Date 1-54	Check HJK 2/54	
QUANTITIES	By DAC	Date 2-54	Check HJK 2-54	
SPECIFICATIONS	By DAC	Date 2-54	Checked	
Approved Recommended for Approval			Submitted	45CA 4-36.2


℄ Bearing Abut. #1
Outside face exterior girder
Outside edge of curb
℄ Bearing Abut. #2
2" Chamfer
24" Fillet
18" Fillet
R=600'
78+50
N. 25°56' 30" W.
℄ Northbound Lanes
79+00
78+30.85 ℄ Ahead
℄ of Diaphragms
11'-9"
11'-9"
Detail V-1
6" Typ.
6" Typ.
4'-0" Flare
6" Square opening
4'-0" Flare
18" Fillet
18" Fillet
24" Fillet
Detail D-1
Outside face exterior girder
R. Line
N 70°56'30" W
Outside edge of curb
See other side
⅜@15
⅜@15
⅜@15

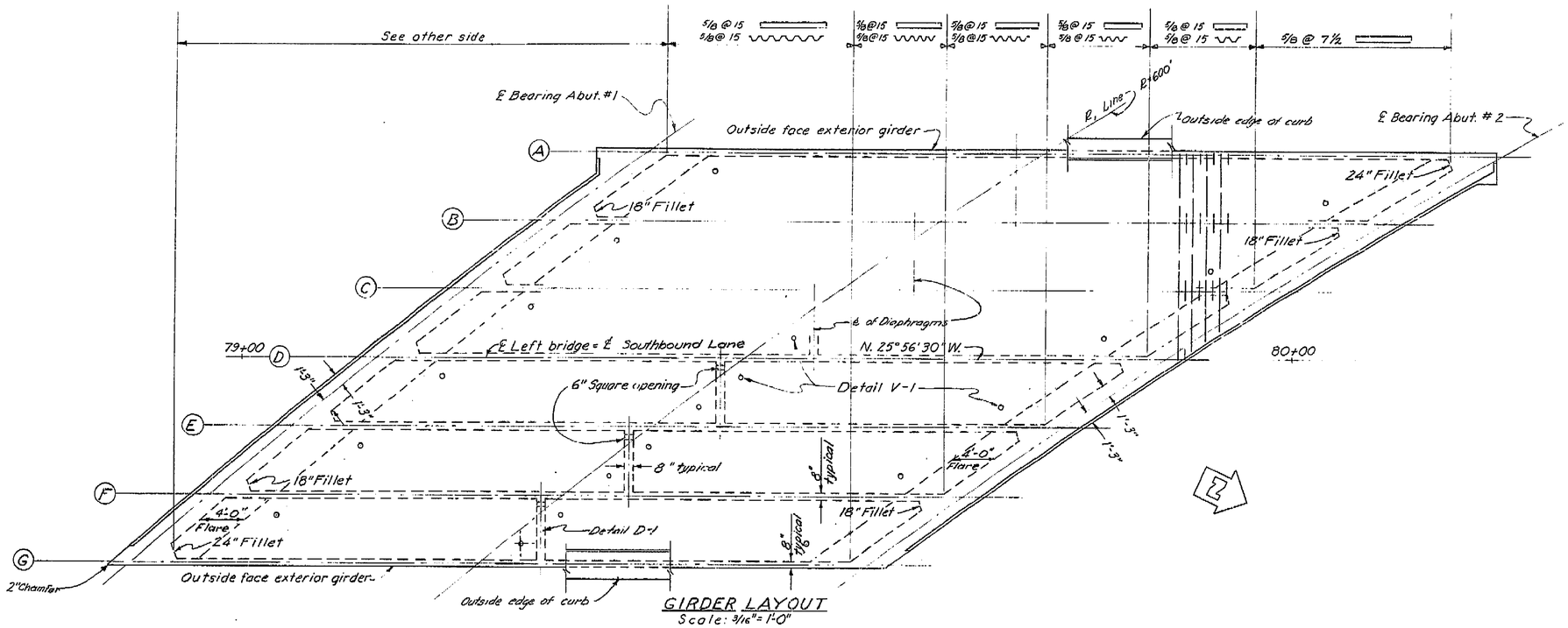
UI-0194 (1)

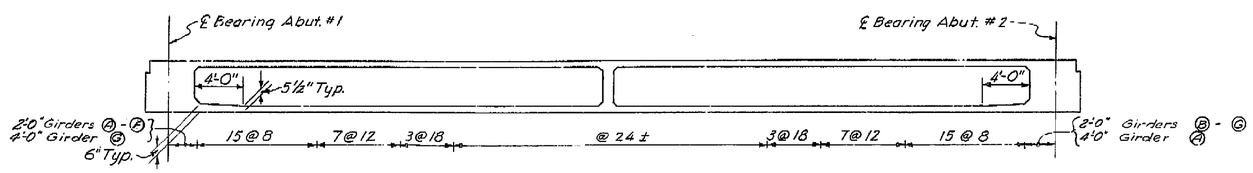
FED. ROAD DIV. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
7	CAL.			125	167

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	Fre			8	18

STATE BRIDGE ENGINEER — CIVIL ENGINEER—LIC. No. 5305

DATE APPROVED April 26, 1954





NO AS BUILT CHANGES

AS BUILT

CORRECTIONS BY DE Carlson

CONTRACT NO. 55-6TC9

DATE 12/1/55 Rev. 7/6/79

Note:
Place diaphragms at ℄ of span.

BRIDGE DEPARTMENT

DESIGN 7 SECTION:

Submitted by							
ORIGINAL	b	DSE	11-53	Chkd	WK	2-54
DETAILS	b	WK	11-53	Chkd	WK	2-54
QUANTITIES	b	CKL	2-54	Chkd	WK	2-54
SPECIFICATIONS	b			Chkd		

Approved for recommendation to the State Bridge Engineer: [illegible] Bridge Engineer

Approved: [illegible] State Bridge Engineer

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

NORTH FRESNO UNDERCROSSING

GIRDER LAYOUT ~ LEFT BRIDGE

SCALE	BRIDGE	FILE	DRAWING
3/16" = 1'-0"	42-182 R&L		B-3412-8

Prev. Drawing No. B-3412

AS BUILT PLANS
Contract No. 55-6TC4

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE AS-BUILT DOCUMENTATION UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA, PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

TITLE Supervisor AE

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UI-0194 (1)

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.			124	167

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre			12-2	18

BRIDGE ENGINEER CIVIL-STRUCTURAL ENGINEER—LICENSE 5981

DATE APPROVED April 26, 1954

BRIDGE DEPARTMENT

DESIGN 7 SECTION

Submitted by		Date Submitted	
DESIGN	By BFF 11-53	Checked	11/23/54
DETAILS	By AAK 11-53	Checked	11/23/54
QUANTITIES	By DGC 2-54	Checked	11/23/54
SPECIFICATIONS	By	Checked	
Approved Recommended by		Date Approved	1536 Y-3612

GENERAL NOTES

SPECIFICATIONS:

DESIGN: A.A.S.H.O. DATED 1953 WITH SUBSEQUENT REVISIONS, AND BRIDGE DEPARTMENT SUPPLEMENT DATED 1953.

CONSTRUCTION: STANDARD SPECIFICATIONS, DIVISION OF HIGHWAYS, DATED JANUARY 1969 AND THE SPECIAL PROVISIONS.

LIVE LOADING: H20-S16-44

UNIT STRESSES:

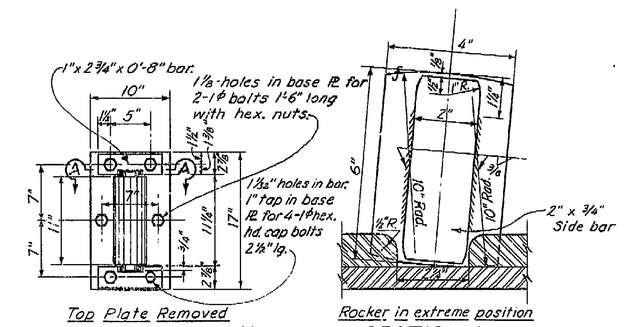
REINFORCED CONCRETE: F_s = 20,000 P.S.I , F_c = 1250 P.SI., N = 10

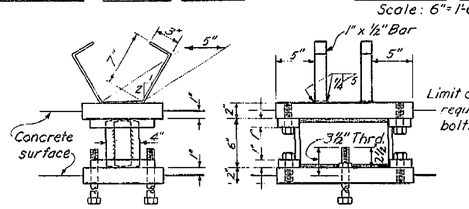
FOOTING PRESSURE: 4.0 TONS P.S.F. AT ABUTMENTS

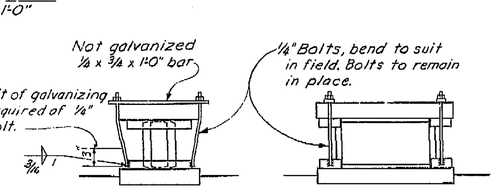
REINFORCEMENT: EMBEDMENT IS CLEAR TO OUTSIDE OF BAR AND IS 2" TO MAIN REINFORCEMENT, EXCEPT AS NOTED. BACKING FOR HOOKS IS FOUR DIAMETERS, EXCEPT AS NOTED.

BAR AREAS ARE BASED ON ROUNDS FOR LESS THAN 1" AND SQUARES FOR OVER 1".

WHERE REINFORCING BARS ARE SPLICED THEY SHALL HAVE A 20 DIAMETER LAP UNLESS OTHERWISE CALLED FOR ON THE PLANS.







NO AS BUILT CHANGE

AS BUILT

CORRECTIONS BY DE CARLSON

CONTRACT NO. 55-6TC4

DATE 12/1/55 Ja 7/6/79

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

NORTH FRESNO UNDERCROSSING

MISCELLANEOUS DETAILS

SCALE	BRIDGE	FILE	DRAWING
As noted	42-182R&L		3412-12

PREL. DRAWING NO. P- 3412 34

AS BUILT PLANS
Contract No. 55-6TC4
Date Completed 1954

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT, TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.
DATE 11-30-81 SIGNATURE [illegible] TITLE SUPERVISOR OF MICROFILM SERVICES

ClibPDF - www.fastio.com

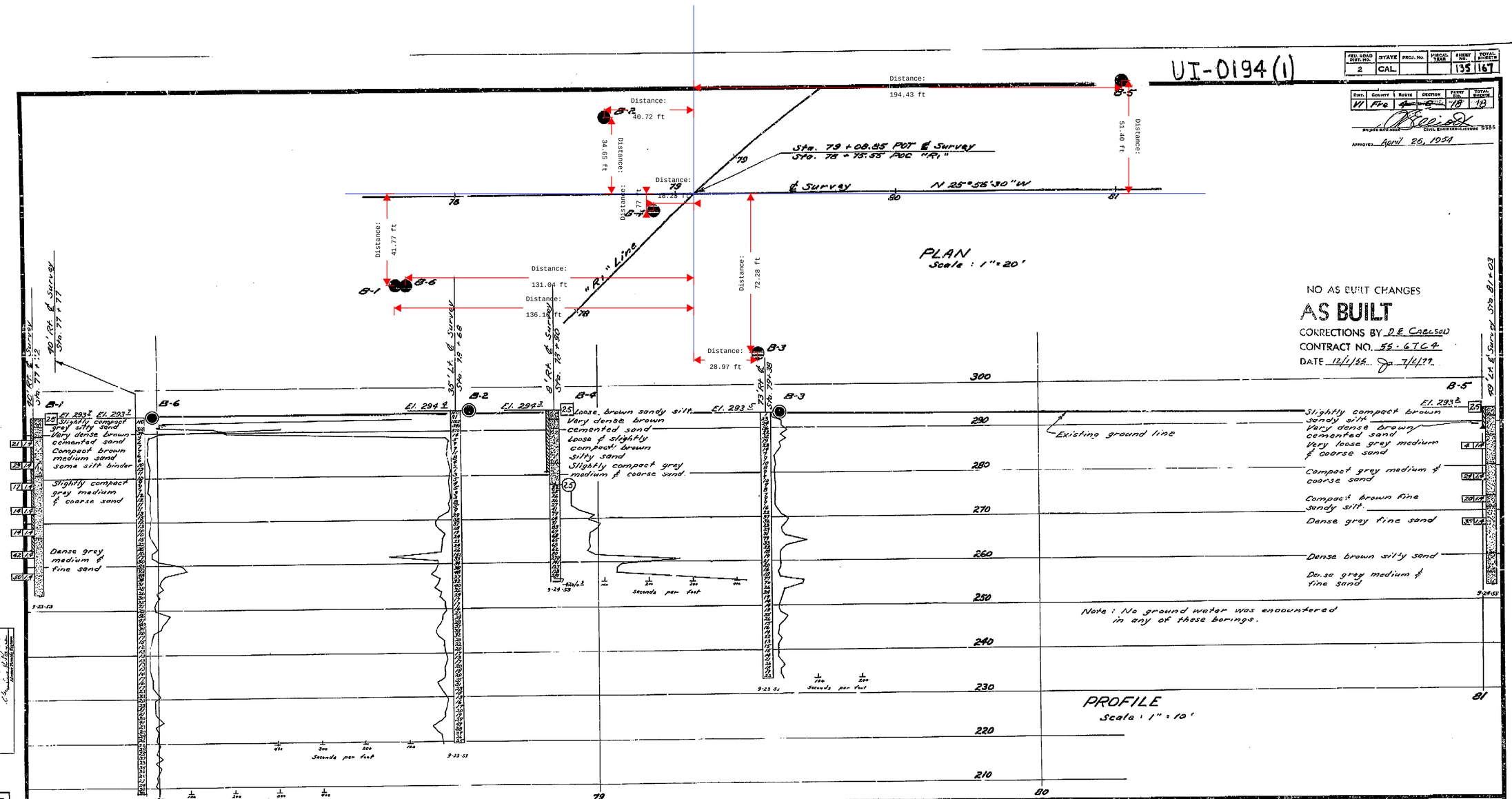
UT-0194 (1)

FED. ROAD DIST. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2	CAL.			135	167

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
11	Fre	[illegible]		18	18

BRIDGES ENGINEER — CIVIL ENGINEER-LICENSE 8355

APPROVED April 26, 1954



BRIDGE DEPARTMENT

FIELD STUDY by H.C. Hunt 10-53
DRAWN by M.E. Mayer 12-53
CHECKED by C. Mast 6-54
Approval Recommended by [illegible] Bridge Engineer
Approved by [illegible] Bridge Engineer

DESIGN 7 SECTION

CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS

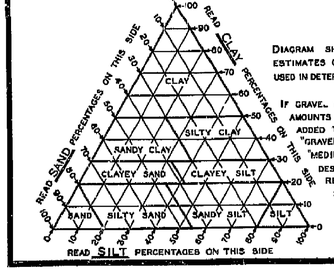


DIAGRAM SHOWING THE BASIS FOR ESTIMATES OF GRADE SIZE DISTRIBUTION USED IN DETERMINATION OF CLASS NAMES

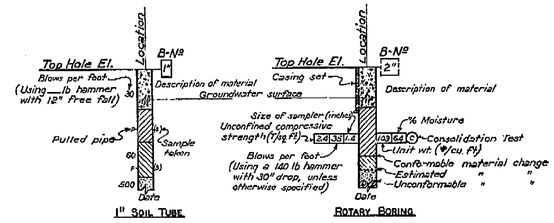
IF GRAVEL IS PRESENT IN APPRECIABLE AMOUNTS THE TERM "GRAVELLY" MAY BE ADDED TO THE CLASS NAME, VIS. "GRAVELLY SAND," THE TERMS "COARSE," "MEDIUM" AND "FINE" WHEN USED TO DESCRIBE GRAVEL, SAND AND SILT REFER TO STANDARD GRADE SIZE LIMITS.

LEGEND OF EARTH MATERIALS

- GRAVEL
- SAND
- SILT
- CLAY
- SANDY CLAY OR CLAYEY SAND
- SANDY SILT OR SILTY SAND
- SILTY CLAY OR CLAYEY SILT
- PEAT AND/OR ORGANIC CLAY
- FILLED MATERIAL
- IGNEOUS ROCK
- SEDIMENTARY ROCK
- METAMORPHIC ROCK

LEGEND OF BORING OPERATIONS

- PLAN OF ANY BORING
- PENETROMETER
- 2½" CONE PENETROMETER
- SAMPLER BORING (DRY)
- ROTARY BORING (WET)
- AUGER BORING (DRY)
- JET BORING
- CORE BORING
- TEST PIT



NOTES

THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 2, ARTICLE (c) OF THE STANDARD SPECIFICATIONS AND TO THE SPECIAL PROVISIONS ACCOMPANYING THIS SET OF PLANS. CLASSIFICATION OF EARTH MATERIAL AS SHOWN ON THIS SHEET IS BASED UPON FIELD INSPECTION AND IS NOT TO BE CONSTRUED TO IMPLY MECHANICAL ANALYSIS. PENETROMETER BORINGS HAVING A RATE OF PENETRATION MEASURED IN SECONDS PER FOOT ARE DRIVEN WITH A Nº 2 McKIERNAN-TERRY AIR HAMMER AT 116 PSI.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

NORTH FRESNO UNDERCROSSING

LOG OF TEST BORINGS

SCALE: HORIZ. As Noted VERT. | BRIDGE 42-182 | FILE | DRAWING No. 3412-18

PREL. DRAWING NO. P-3412

AS BUILT PLANS
Contract No. 55-6TC4

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THE DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

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UI-0194(1)

FED. ROAD DIV. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.	-		113	147

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	~~99~~ 180	~~C~~ A		18

Rte 99
PM 24.2

BRIDGE ENGINEER — CIVIL AND STRUCTURAL ENGINEER — LICENSE DATE

DATE APPROVED: April 26, 1955

STATE HIGHWAY ENGINEER
CIVIL ENGINEER — LICENSE DATE

Sta 72+50
Elev. 290.52

+ 0.60%

Sta 81+00
Elev. 295.62

PROFILE GRADE

P.N. to P.N. Right Structure 65'-7 3/8"
Along ℄ Northbound Lane

P.N. to P.N. Left Structure 79'-2"
Along ℄ Southbound Lane

Paint Br. No. & Date (far side)

El. 267.0

El. 267.75

Approx. original ground line

13'-1" Min.

Datum Elev. 250.00

Abut. 1

Abut. 2

78

79

80

ELEVATION

℄ Survey

37'-0" Roadway

15'-0"

15'-0"

Varies

20'-0"

1'-0"

2"

Type "F" Curb

1'-0"

2"

8'-0"

8'-0"

2'-1"

2"

2'-1"

2"

-1½%

-1½%

Steel Railing

R3

2'-4"

5'-0"

4'-6"

4'-6"

Profile Grade

TYPICAL SECTION

Scale: 1" = 10'

APPROXIMATE QUANTITIES

STRUCTURE EXCAVATION	2,000 C.Y.
STRUCTURE BACKFILL	3,090 C.Y.
CLASS "A" P.C.C.	2,050 C.Y.
RUBBER WATERSTOPS	194 L.F.
MEMBRANE WATERPROOFING	140 S.Y.
BAR REINFORCING STEEL (272,000 LBS.)	LUMP SUM
MISCELLANEOUS IRON & STEEL	6,500 LBS.
STEEL BRIDGE RAILING	670 L.F.

P.N. Sta. 79+12.61
Elev. 294.14

Top of Cut

2:1 Slope

Toe of Cut

South Bound Off Ramp

R=600'

℄ Southbound Lane

To Fresno

℄ Survey

77+50

℄ Survey

P.N. Sta. 79+91.28
Elev. 294.61

P.N. Sta. 78+43.03
Elev. 293.72

N 25° 56' 30" W

℄ Northbound Lane

To Madera

P.N. Sta. 79+08.68
Elev. 294.11

R3 Line

Δ 45°

N 21° 10' W

North Bound Off Ramp

Paint Bridge No. & Date

Top of Cut

8'-0" Clear

12'-0"

12'-0"

16'-6" Clear

N 70° 56' 30" W

PLAN

R, Line
Δ = 51° 30'
R = 600'
T = 289.41
L = 539.31

For "Standard Electrical Details-Bridge" and "Lighting Reinforcement" sheets see Clinton Ave. Overcrossing ~~and Fresno Yard Overcrossing~~.

Live Loading = H20 - S16 - 44

INDEX TO PLANS

Sheet	Title
1.	General Plan
2.	Foundation Plan
3.	Abutment # 1 Layout
4.	Abutment # 2 Layout
5.	Abutment # 1 Details
6.	Abutment # 2 Details
7.	Typical Section
8.	Girder Layout - Left Bridge
9.	Girder Layout - Right Bridge
10.	Girder Reinforcement - Left Bridge
11.	Girder Reinforcement - Right Bridge
12.	Miscellaneous Details
13.	Standard Details
14.	Steel Railing
15.	Type 1 Cantilever Retaining Wall
16.	Type 2 Cantilever Retaining Wall
17.	Lighting Plan
18.	Log of Test Borings

AS BUILT
CORRECTIONS BY DE CAELSON
CONTRACT NO. 55-61C4
DATE 12/1/55 to 7/4/79

#1 55-61C4

For General Notes See Miscellaneous Details

DESIGN 7 SECTION

Submitted by		Checked		Date	
Approved		Checked		Date	
DETAILS		Checked		Date	
QUANTITIES		Checked		Date	
SPECIFICATIONS		Checked		Date	
Approved Recommended by		Chief Bridge Engineer		Date	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

NORTH FRESNO UNDERCROSSING
LOCATED ABOUT 2.5 MILES NORTH OF THE NORTH CITY LIMIT OF FRESNO

GENERAL PLAN

SCALE	BRIDGE	FILE	DRAWING
1" = 20' or As Noted	42-182 R/L		8-3412-1

PREL. DRAWING NO. P-3412

BRIDGE DEPARTMENT

AS BUILT PLANS

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN

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UI-0194(1)

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO	TOTAL SHEETS
2	CAL.			133	167

DIST.	COUNTY	ROUTE	SECTION	SHEET NO	TOTAL SHEETS
VI	Fre	~~99~~	~~C~~	16	18

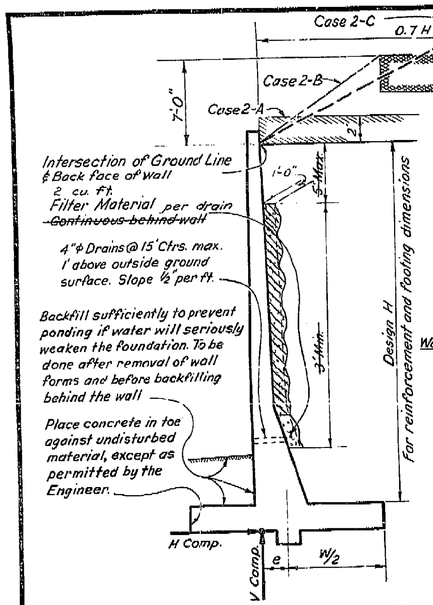
R. E. Carlson 5585
Approved September 1, 1953
J. Z. Vanner
State Highway Engineer
Civil Engineer License No. 2084
To Accompany Plans Dated April 26, 1954

NO AS BUILT CHANGES

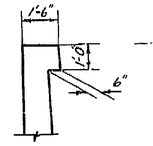
AS BUILT

CORRECTIONS BY D.E. Carlson
CONTRACT NO. 55-61C4
DATE 12/1/55 7/4/79

Note: Bar cut-off's may be varied in increments of 6".



DESIGN AND DRAINAGE



ALTERNATIVE TOP OF WALL

Wall to be used for Loading Cases Shown

2-A 2' Level Surcharge

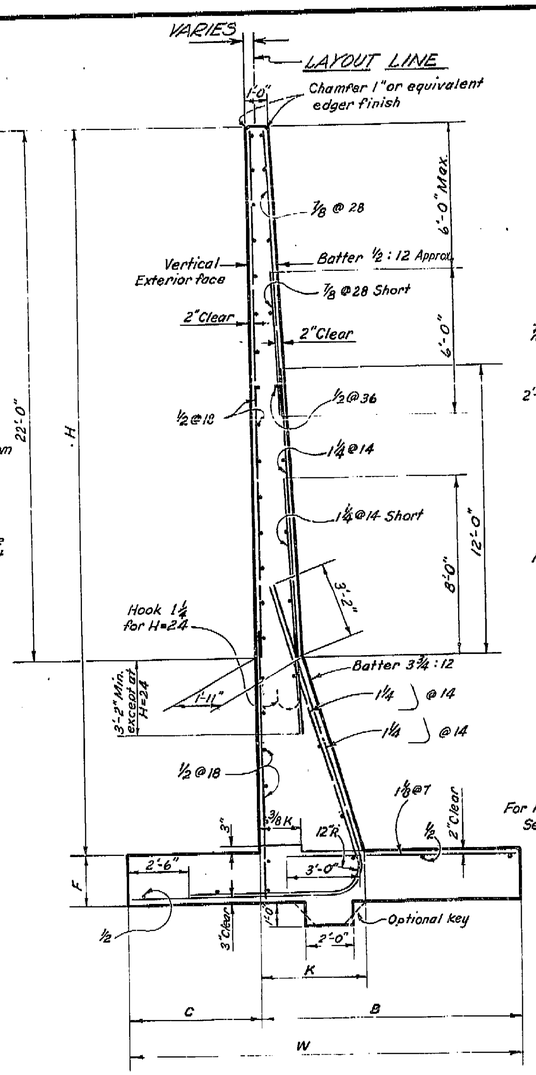
2-B 1½:1 Slope terminating as shown. Surcharge Loading shall be either a part of the 7'-0" dimension or terminate at a distance of 0.7H from the backface of wall as shown.

2-C 2:1 Slope Unlimited

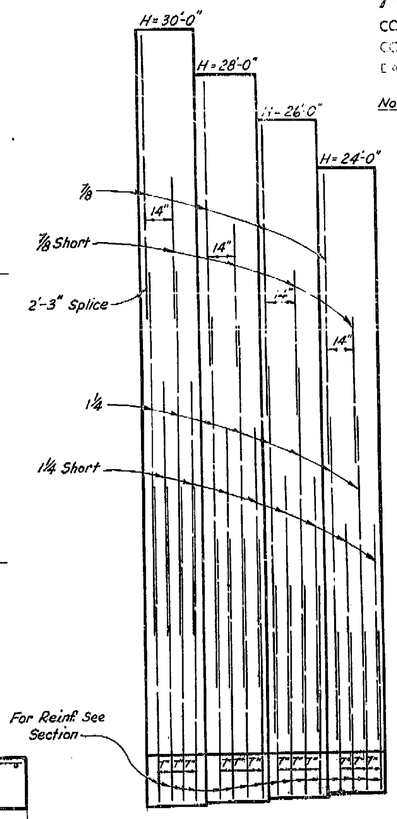
Loading Notes

Surcharge is a load which replaces a live load or dead load with an equivalent weight of earth.

For an H 20-S16-44 truck live load use a 2'-Level Surcharge.

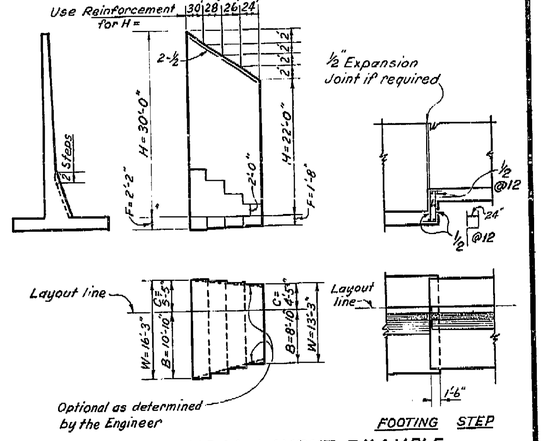


SECTION



ELEVATION

TABLE OF DATA AND REINFORCEMENT				
H	30'	28'	26'	24'
W	16'-3"	15'-3"	14'-3"	13'-3"
C	5'-5"	5'-1"	4'-9"	4'-5"
B	10'-10"	10'-2"	9'-6"	8'-10"
F	2'-2"	2'-0"	1'-10"	1'-8"
K	4'-5"	3'-9½"	3'-2"	2'-6½"
Conc. CF/Ft	94.7	817	70.4	607
Reinf. Lbs/Ft	444	408	379	348
Toe Pres. Lb/Sq Ft	5790	5440	5040	4650
H. Comp. lbs.	20700	18360	15950	13730
V. Comp. lbs.	48330	42440	36870	31750
e ft.	2.56	2.43	2.25	2.08



TYPICAL LAYOUT EXAMPLE

NOTES

Design Conditions:
Wall to be used for Loading Cases shown in Design and Drainage detail.
Design H may be exceeded by 6" before going to next size.
Footing key is required except when found unnecessary by the Engineer.
Special footing design is required where foundation material is incapable of supporting toe pressure loads listed in table.

Design Data: f'c = 1250 psi, fs = 20,000 psi, n = 10
earth = 120 pcf and equivalent fluid pressure = 36 psf per ft of height.

Reinforcement:
Intermediate Grade, Hard Grade or Rail Steel.
Deformations shall conform to A.S.T.M. A 305.
Bars shall lap 20 diameters, where spliced, unless otherwise shown on the plans.
Bends shall conform to the Manual of Standard Practice, A.C.I.
Backing for hooks is four diameters.
All bar embedments are clear distances to outside of bar.
Spacing for parallel bars is ctr. to ctr. of bars.
Bar areas are based on rounds for less than 1" and squares for over 1".

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

NORTH FRESNO UNDERCROSSING

TYPE 2 CANTILEVER RETAINING WALL

SCALE: None | BRIDGE 42-182 R&L | ~~X3-3-55~~ FILE | DRAWING B-3412-16

PREL. DRAWING NO. P-3412 ~~A64~~

STANDARD DRAWING
Approved ... 1-1-53
Supersedes ... 1-1-53
Approved ... 1-1-53
Supersedes ... 1-1-53
Approved ... 1-1-53
Supersedes ... 1-1-53

UI-0194(1)

DIST	COUNTY	ROUTE	POST MILE
6	Fre	99	15.18

DIST	STATE	ROUTE	POST MILE
2	CAL		132.167

September 1, 1953

State Highway Engineer
Civil Engineer License No 2084

To Accompany Plans Dated April 26, 1954

STANDARD DRAWING
Standard Specifications
DESIGN
DETAILS
Approved [illegible]
Approved [illegible]
Approved [illegible]

VI-0194(1)

FED. ROAD DIV. NO.	STATE	ROUTE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
12	CAL.			130	167

DIST.	County	ROUTE	SECTION	POST MILES	TOTAL PROJECT
VI	Fre.			19.0	19.0

April 26, 1954

STANDARD DWG

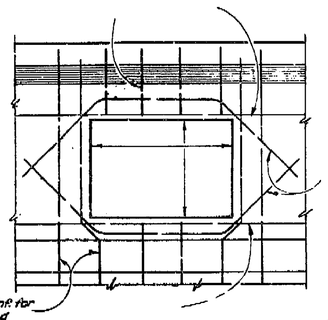
	Initial	Date
Design		
Detail	R.A.	10-53
Check		
Quant. Check		
Supervised		

BRIDGE DEPARTMENT

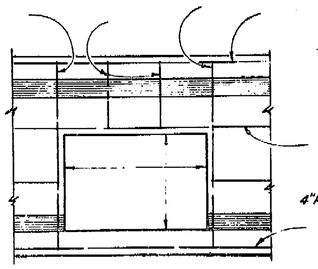
DESIGN 7 SECTION

Submitted by		Date		Checked	
Design		Date		Checked	
Details		Date		Checked	
Quantities		Date		Checked	
Structures		Date		Checked	
Approved Recommended for Approval					

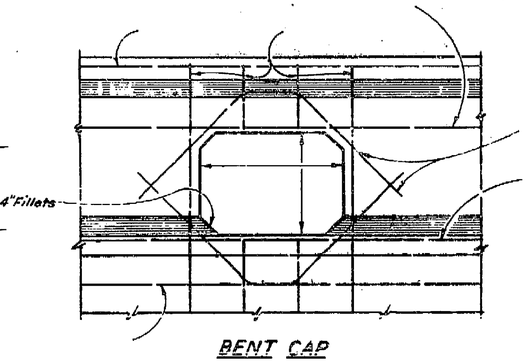
ABUTMENT BACKWALL DETAIL U1



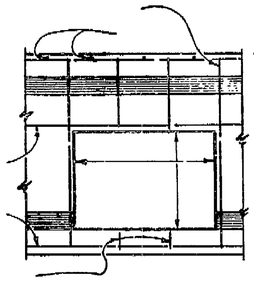
END DIAPHRAGM DETAIL U2



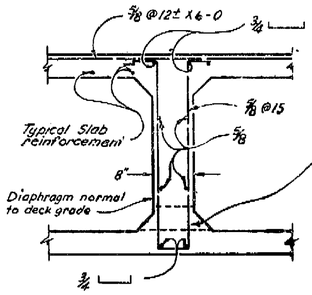
BENT CAP DETAIL U3



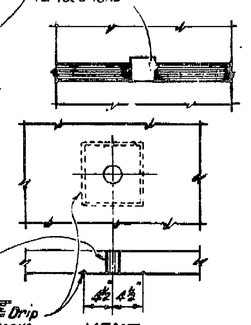
INTERMEDIATE DIAPHRAGM DETAIL U4



INTERMEDIATE DIAPHRAGM SECTION DETAIL D1

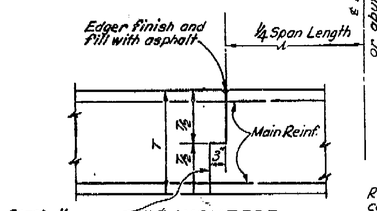


VENT DETAIL V1

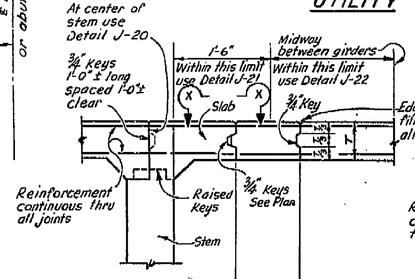


UTILITY OPENINGS

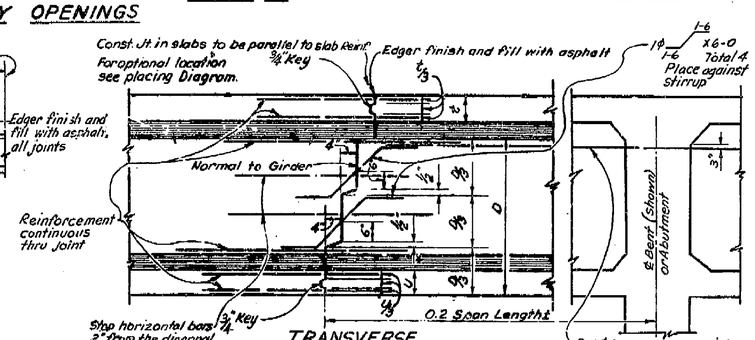
TRANSVERSE SLAB BRIDGE DETAIL J1



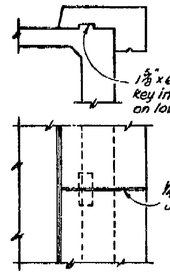
DETAIL J-20 DETAIL J-21 DETAIL J-22



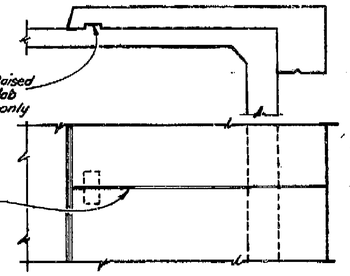
TRANSVERSE GIRDER DETAIL J-3



CURB DETAIL C1

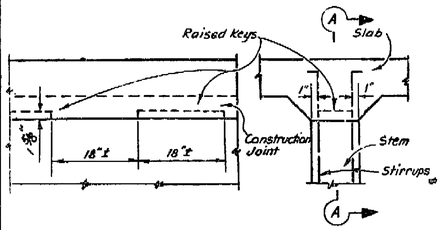


SIDEWALK DETAIL S1



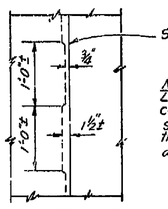
CURB AND SIDEWALK EXPANSION JOINTS

NOTE: In simple spans place joint at midspan. In continuous spans place joint over ℄ interior piers or bents and at midspans.



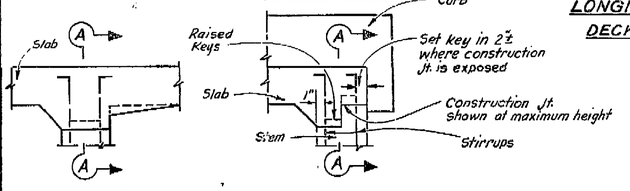
SECTION A-A.

PART PLAN X-X



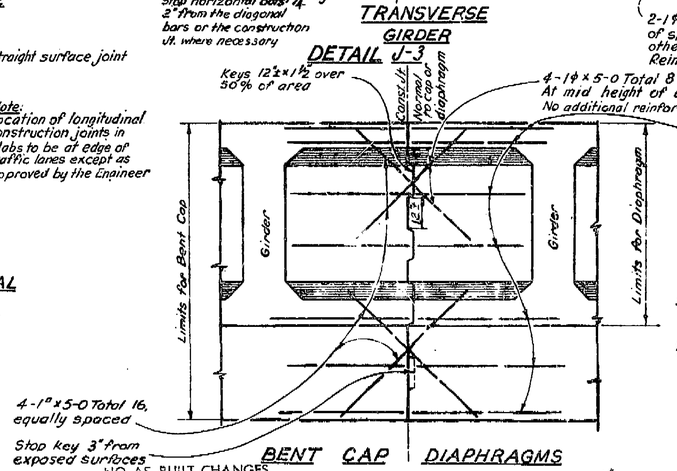
Note: Location of longitudinal construction joints in slabs to be at edge of traffic lanes except as approved by the Engineer

LONGITUDINAL DECK SLAB



KEY - GIRDER STEM TO SLAB DETAIL J-5

CONSTRUCTION JOINTS



BENT CAP DIAPHRAGMS LONGITUDINAL DETAIL J-4

NO AS BUILT CHANGES

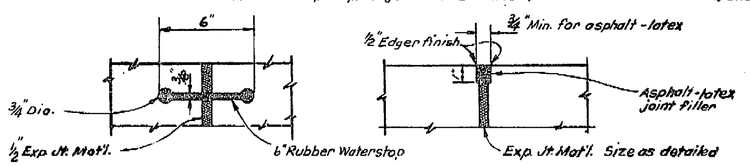
AS BUILT

CORRECTIONS BY P.E. Carlson

CONTRACT NO. 55-67C4

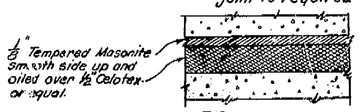
DATE 12/1/55 & 7/6/79

RUBBER WATERSTOP LATEX AT EXPANSION JOINT DETAIL L1



RUBBER WATERSTOP DETAIL W1

For use where watertight joint is required



DETAIL M-1

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

NORTH FRESNO UNDERCROSSING

STANDARD DETAILS

SCALE None	BRIDGE 42-182 R&L	XS-16-22	DRAWING 3412-1-3

PLANS APPROVED 3412

AS BUILT PLANS
Contract No. 55-67C4

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO

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UI-0194(1)

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2	CAL.			131	167

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	[illegible]	[illegible]	14	18

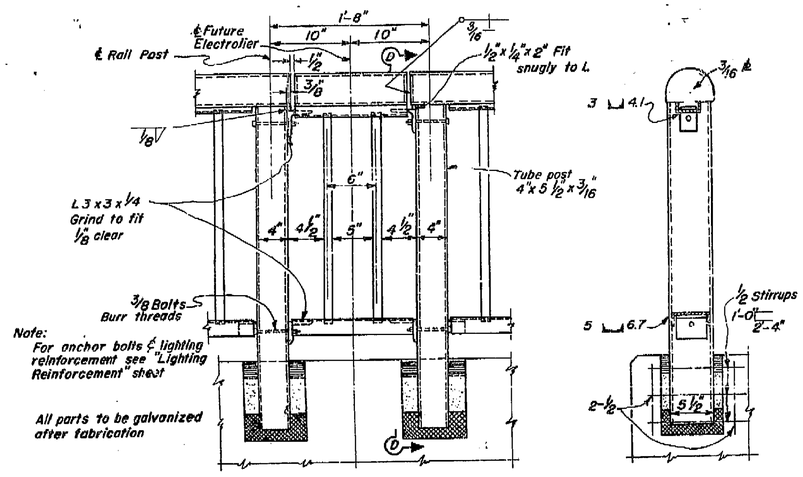
April 26, 19[illegible]

STANDARD DRAWING

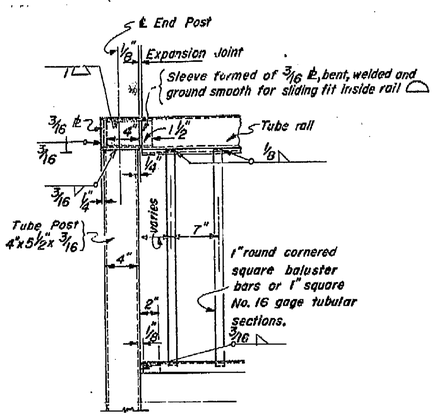
	DESIGN	DETAILS	QUANTITIES	SPECIFICATIONS
SUBMITTED BY	DATE 6-53	DATE 6-53	DATE 6-53	DATE 6-53
RECOMMENDED BY	CHECKED	CHECKED	CHECKED	CHECKED
APPROVAL RECOMMENDED	REVISIONS OF SECTION			

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS
BRIDGE DEPARTMENT

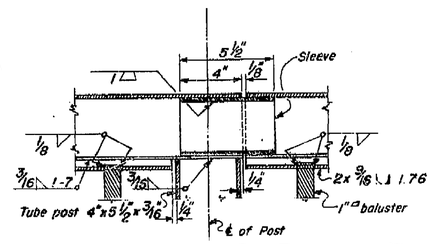
DESIGN 7 SECTION



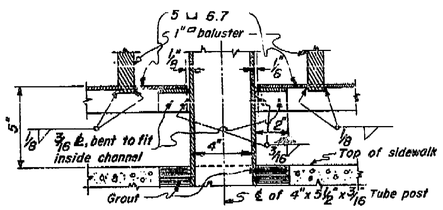
RAILING CLOSURE-DETAIL E-3 Scale: 1 1/2"=1'-0" SECTION D-D



SINGLE END POST
Scale: 1 1/2" = 1'-0"



SECTION (H)-(H)
Scale: 3" = 1'-0"



SECTION (G)-(G)
Scale: 3" = 1'-0"

NOTES:

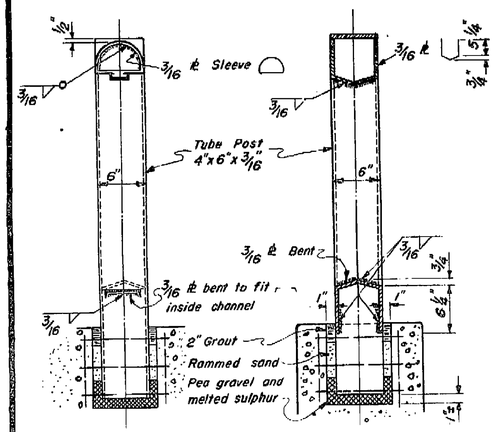
Space posts to clear expansion joints by 9" min. to ℄ of post

Exact post hole locations are to be determined from approved railing shop plans.

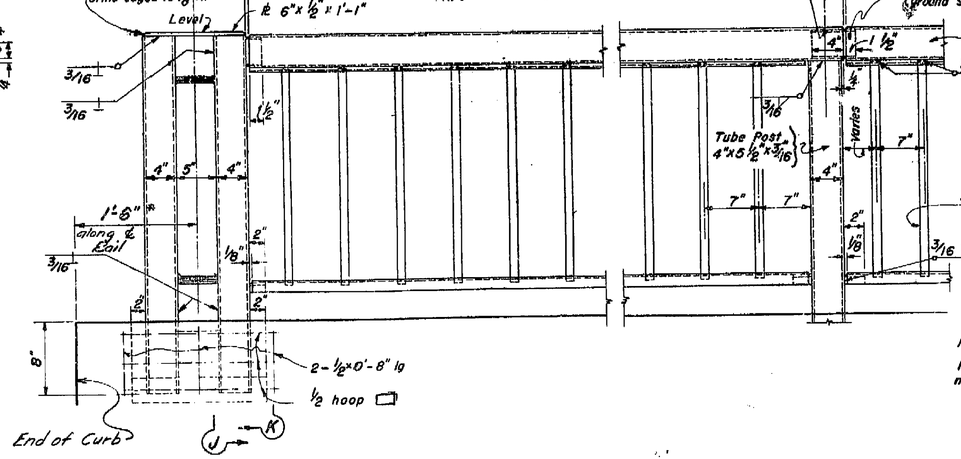
Railing shall conform to horizontal and vertical alignment. Posts and balusters shall be vertical with a maximum deviation not to exceed that represented by a rise of 1/4" in one panel.

Railing to be galvanized after fabrication. For further requirements see special provisions.

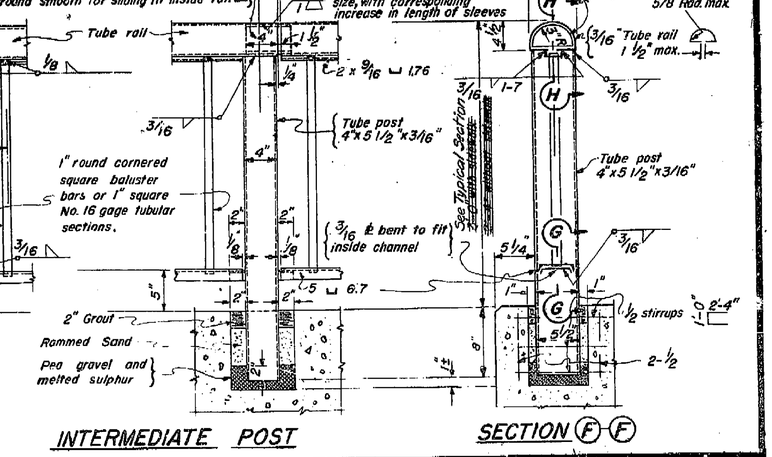
NO AS BUILT CHANGES
AS BUILT
CORRECTIONS BY D.E. CARLSON
CONTRACT NO. 55-6TC4
DATE 12/1/55 & 7/1/79



SECTION (K)-(K) SECTION (J)-(J)



DOUBLE END POST
* Except as noted elsewhere



INTERMEDIATE POST

SECTION (F)-(F)

STEEL RAILING DETAILS
Scale: 1 1/2" = 1'-0"

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

NORTH FRESNO UNDERCROSSING

STEEL RAILING

SCALE As Shown | BRIDGE 42-182R&L | FILE XS-9-49 | DRAWING B 3 4 12-14

PREL. DRAWING NO. P. 3 4 12 25

AS BUILT PLANS
Contract No. 55-6TC4
Date Completed
Document No. 60000992

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 1-30-80 SIGNATURE Joseph M Costa TITLE SUPERVISOR OF MICROFILM-SERVICES

DAS-69-176

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VI-0194(1)

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.			128	167

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre			11	18

BRIDGE ENGINEER — CIVIL ENGINEER—LICENSE 5368

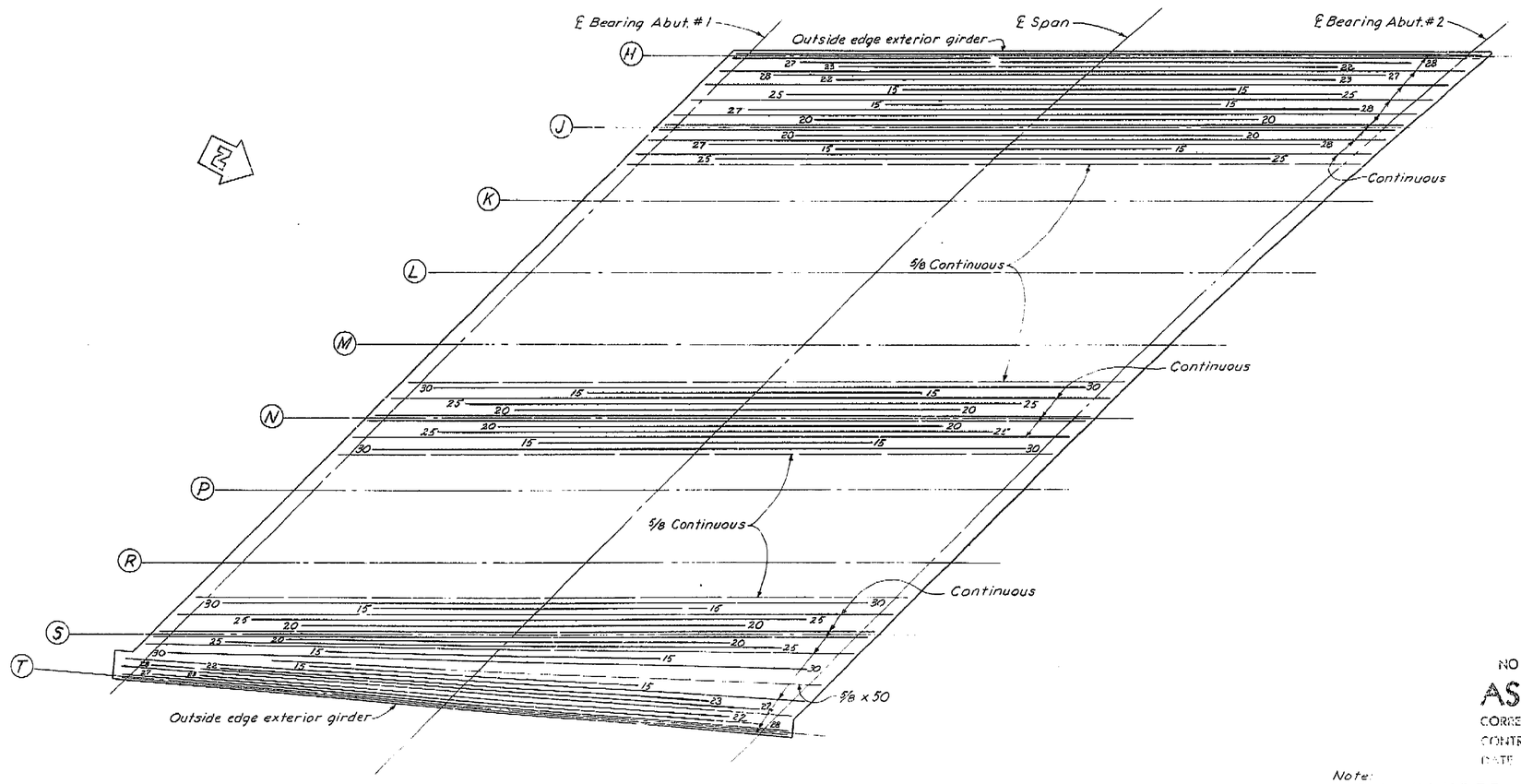
DATE APPROVED April 26, 1954

BRIDGE DEPARTMENT

DESIGN 7 SECTION

Submitted by	Date	Checked by	Date
DESIGN	by BFF 11-53	Date 11-53	
DETAILS	by AM 11-53	Date 11-53	
QUANTITIES	by DLS 2-54	Date 2-54	
SPECIFICATIONS	by DLS 2-54	Date 2-54	

Approved for submission to Director by [signature] Engineer — Date Mar. 26, 1954 — Lic. No. 5368



BOTTOM REINFORCEMENT

NO AS BUILT CHANGES

AS BUILT

CORRECTIONS BY D.E. Carlson

CONTRACT NO. 55-67C4

DATE 12/1/55 To 7/6/59

Note:
Girders K, L, M, P, & R reinforcement same as girder N reinforcement.
For other notes see "Girder Reinforcement ~ Left Bridge."

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

NORTH FRESNO UNDERCROSSING

GIRDER REINFORCEMENT ~ RIGHT BRIDGE

SCALE 3/16" = 1'-0" | BRIDGE 42-182 R&L | FILE | DRAWING C-3412-11

PREL. DRAWING NO. P-3412

AS BUILT PLANS
Contract No. 55-67C4

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THE DATE IN SACRAMENTO, CALIFORNIA, PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

TITLE SUPERVISOR OF

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VI-0194 (1)

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.			127	167

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	41	C	10	18

Engineer in Charge — CIVIL ENGINEER—License 9785

DATE APPROVED April 26, 1954

BRIDGE DEPARTMENT

DESIGN SECTION

	By	Date	Checked	By	Date
DESIGN	RFF	1-54	Chief	HJK	2/54
DETAILS	ALM	1-54	Chief	HJK	2/54
QUANTITIES	ALM	1-54	Chief	HJK	2/54
SPECIFICATIONS	RJ	1-54	Chief	RFF	2-54

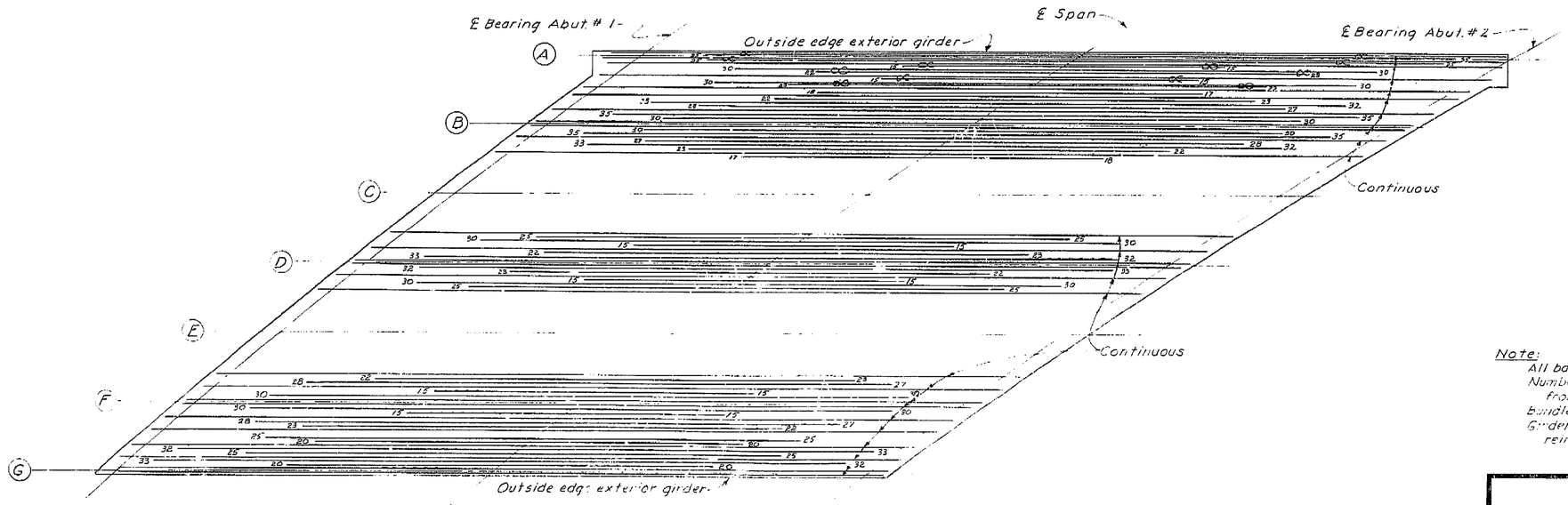
Approved for submittal to Director: [signature] Chief Bridge Engineer — Date 2-26-54

Submitted by: [signature] Engineer in Charge — Date 2-26-54

Recommended for approval: [signature] Bridge Engineer — Date 2-26-54

Approved: [signature] Director of Public Works — Date 3-5-54

Contract No. 55-176704 — Contract Item No. 368



BOTTOM REINFORCEMENT

NO AS BUILT CHANGES

AS BUILT

CORRECTIONS BY D.E. CARLSON

CONTRACT NO. 55-176704

DATE 12/1/55 & 7/6/75

Note:
All bars 1¼.
Numbers at end of bars indicate distance in feet from ℄ span.
Bundled bars (2 per bundle) are shown thus
Girders C & E reinforcement same as girder D reinforcement.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

NORTH FRESNO UNDERCROSSING

GIRDER REINFORCEMENT-LEFT BRIDGE

SCALE 3/16" = 1'-0" | BRIDGE 42-182 R&L | FILE | DRAWING B-3412-10

PREL. DRAWING NO. P-3412 | K 2/61

AS BUILT PLANS
Contract No. 55-176704
Date Completed
Document No. 60000992

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 1-30-80 SIGNATURE [signature] TITLE SUPERVISOR OF MICROFILM SERVICES

DAS-0570

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VI-0194(1)

FED. ROAD DIV. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.			124	167

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	[illegible]	[illegible]	7	18

BRIDGE ENGINEER — CIVIL ENGINEER — LICENSE NO.60

DATE APPROVED April 26, 1954

BRIDGE DEPARTMENT

DESIGN 7 SECTION

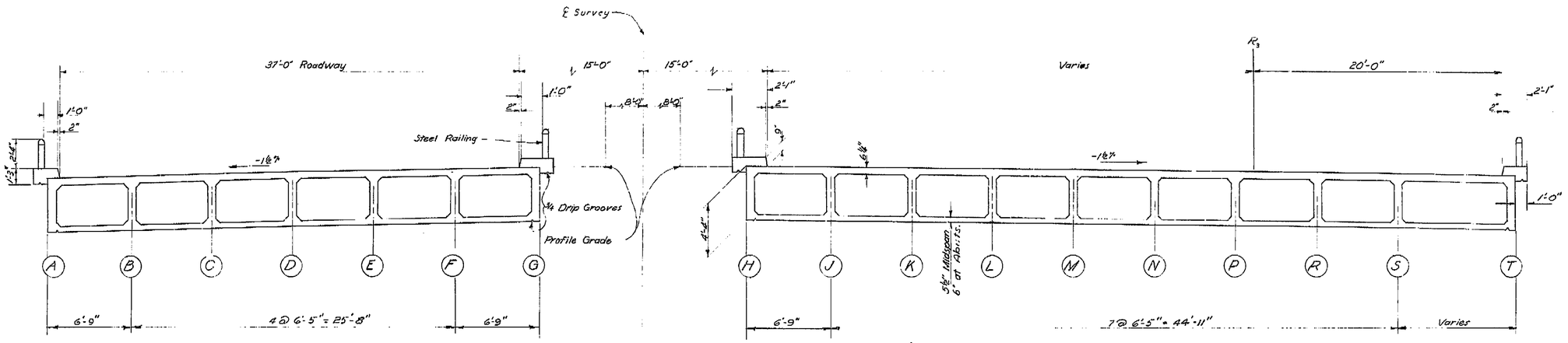
Submitted By		Checked	
DESIGN	by RFF 11/53	Checked	11/53
DETAILS	by DGS 11/53	Checked	11/53
QUANTITIES	by DGS 2-3-54	Checked	2-3-54
SPECIFICATIONS	by DGS	Checked	

Approved Recommended for approval [illegible] Bridge Engineer

Approved [illegible] Bridge Engineer

Bridge Length 1,004 ft. Skew 36.8

Bridge Width 2 @ 44'-0" = 88'-0"



TYPICAL SECTION
Scale ½"=1'-0"

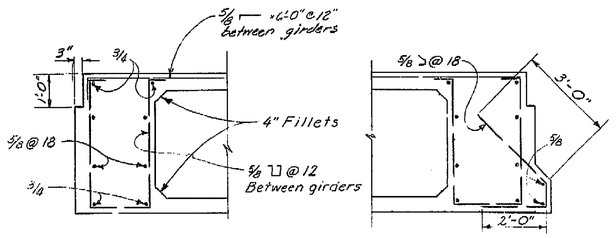
NO AS BUILT CHANGES

AS BUILT

CORRECTIONS BY D E Carlson

CONTRACT NO. 55-6TC4

DATE 12/1/55 SP 7/6/78

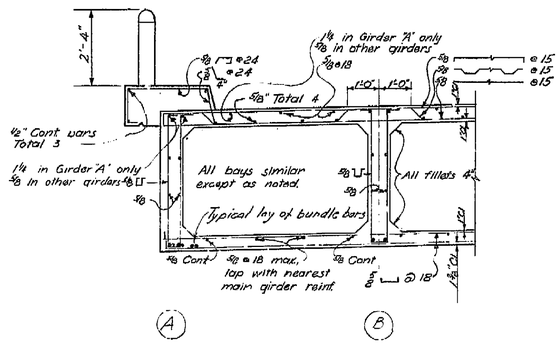


ABUTMENT #1

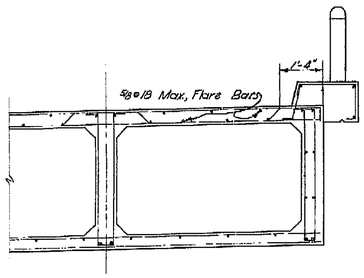
ABUTMENT #2

Note: Similar to Abut. No. 1 except as noted.

END DIAPHRAMS
Scale: ½"=1'-0"



PART SECTION
Scale: ½"=1'-0"



Note: All Reinforcement not shown. See Girder Reinforcement Sheets.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

NORTH FRESNO UNDERCROSSING

TYPICAL SECTION

Except as noted SCALE ½"=1'-0" | BRIDGE 42-182 R/L | FILE | DRAWING C-3412-7.1

PREL. DRAWING NO. P-3412 DR 59 173

AS BUILT PLANS
Contract No. 55-6TC4
Date Completed

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 1-30-80 SIGNATURE [illegible] TITLE SUPERVISOR OF [illegible]

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UI-0194 (1)

FED. ROAD DIV. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
7	CAL.			171	167

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	Fre	[illegible]	[illegible]	4	18

BRIDGE ENGINEER — CIVIL and STRUCTURAL ENGINEER — LICENSE 5565

DATE APPROVED April 26, 1954

BRIDGE DEPARTMENT

DESIGN 7 SECTION

	By	Date	Checked	By	Date
DESIGN	[illegible]	11-5-53	Checked	W.C.	3-1-54
DETAILS	[illegible]	11-5-53	Checked	W.C.	3-1-54
QUANTITIES	[illegible]	1-4-54	Checked	D.J.	2-2-54
SPECIFICATIONS	[illegible]	[illegible]	Checked	[illegible]	[illegible]

Submitted by [signature] Design Engineer

Approved Recommended by [signature] Bridge Engineer

Approved [signature] State Highway Engineer

Bridge No. 42-182 R&L

Bridge No. 42-182 R&L

4" ϕ Drains @ 15' Ctrs. max. 1' above outside ground surface, Slope ½" per ft.

Ground line at outside face of wing wall

Railing not shown

El. 288.5

El. 283

El. 277.5

El. 267.75

1'-2"

1'-2"

1'-2"

2'-3"

RIGHT WING WALL ELEVATION

Wing wall layout line.

R1 Line

℄ Exterior Girder Bearing

℄ Girders

79+60

79+09

R = 600

96'-10⅜" Measured along abutment layout line

79+00

78+50

℄ Girder Brg.

Sta. 79+42.62

℄ Survey

79+00

Front face and layout line of abutment

Front face of abutment footing

78+50

79+00

68'-8⅜"

Sta. 78+30.85 BC

R=578.5

N. 70°56' 30" W.

41'-1⅝"

21'-6"

℄ Girders

Back face of abutment

Back face of abutment footing

5'-6"

6'-6"

12'-0"

℄ Girders

Corner C

Detail W-1

Outside face of curb

PLAN

8'-10"

13'-3"

5'-4"

8'-0"

2'-0"

4'-2"

6'-2"

1'-0"

2'-2"

3'-2"

2"

4'-5"

4'-0"

5'-6"

H=24 15'-0"

H=14 15'-0"

10"

2'-0"

H=10 15'-0"

H=4 15'-0"

℄ Exterior Girder Brg.

Type 2 15'-0"

Type 1 45'-0" Cantilever Retaining Walls

Wingwall Layout Line

2'-6"

Outside face of curb

Cantilever retaining walls

Type 2 20'-0"

Type 1 90'-0"

H=24, 20'-0"

H=20, 15'-0"

H=16, 15'-0"

H=12, 15'-0"

H=10 15'-0"

H=6 15'-0"

H=4 15'-0"

2"

4'-5"

3'-6"

13'-3"

8'-10"

11'-0"

7'-4"

9'-0"

6'-0"

3'-0"

7'-4"

2'-4"

10"

4'-10"

6'-2"

4'-2"

2'-0"

1'-4"

2'-10"

3'-2"

1'-0"

2'-2"

Corner D

Detail W-1

Ground line at front face of abutment

Top of abutment

Slope varies

Steel railing

5'-9"

℄ Survey

Top of curb

Detail W-1

4" ϕ Drains @ 15' Ctrs. max. 1' above outside ground surface, Slope ½" per ft.

12'-3"

Ground line at inside of wall

El. 267.75

PART BACK ELEVATION

Railing not shown

4" ϕ Drains @ 15' Ctrs. max. 1' above outside ground surface, Slope ½" per ft.

Ground line at outside face of wing wall

1'-2"

El. 287

El. 290

1'-2"

El. 282

El. 284

1'-2"

El. 277

1'-4"

El. 273

2'-3"

El. 267.75

LEFT WING WALL INSIDE ELEVATION

AS BUILT

CORRECTIONS BY DE CARLSON

CONTRACT NO. 55-6TC4

DATE 12/1/55 to 7/4/72

Notes:

For cantilever wingwalls see "TYPE 1 CANTILEVER RETAINING WALL" and "TYPE II CANTILEVER RETAINING WALL"

For abutment details see "ABUTMENT #2 DETAILS."

Curb and rail should not be placed on Wingwalls until backfill is completed.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

NORTH FRESNO UNDERCROSSING

ABUTMENT #2 LAYOUT

SCALE 1/8"=1'-0" | BRIDGE 42-182 R&L | FILE | DRAWING C-3412-4

PRELIM. DRAWING NO. P- 3412 1/2 96

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UI-0194(1)

FED. ROAD DIV. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
7	CAL.			122	167

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	41	C	5	18

DATE APPROVED April 28, 1954

BRIDGE DEPARTMENT

DESIGN 7 SECTION

Submitted for Approval		Dated	11-3-54
DESIGN	h. RCF	Checked	11-3-54
DETAILS	h. AM	Checked	11-3-54
QUANTITIES	h. EEG	Checked	11-3-54
Approved as Constructed		Dated	

Engineer of Bridges

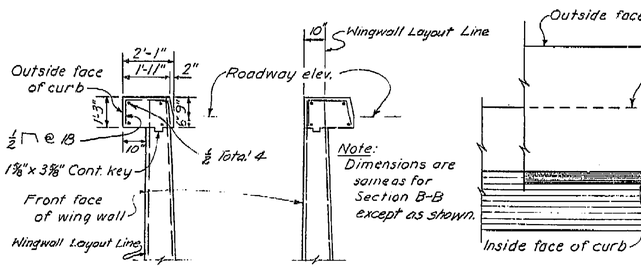
Engineer of Design

Bridge Engineer

Engineer of Bridges

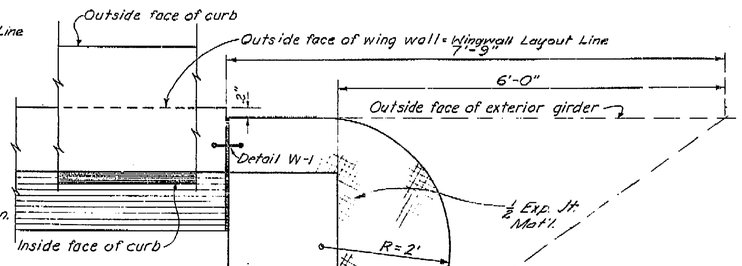
Engineer of Design

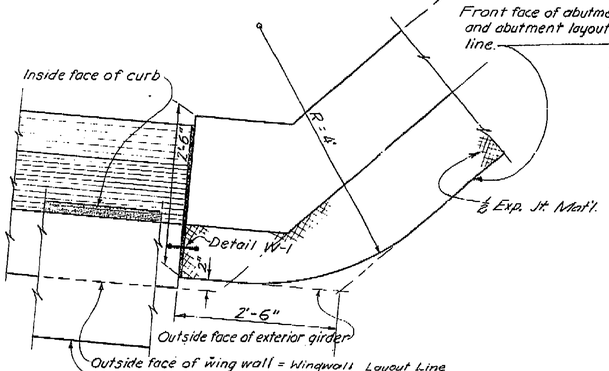
Bridge Engineer



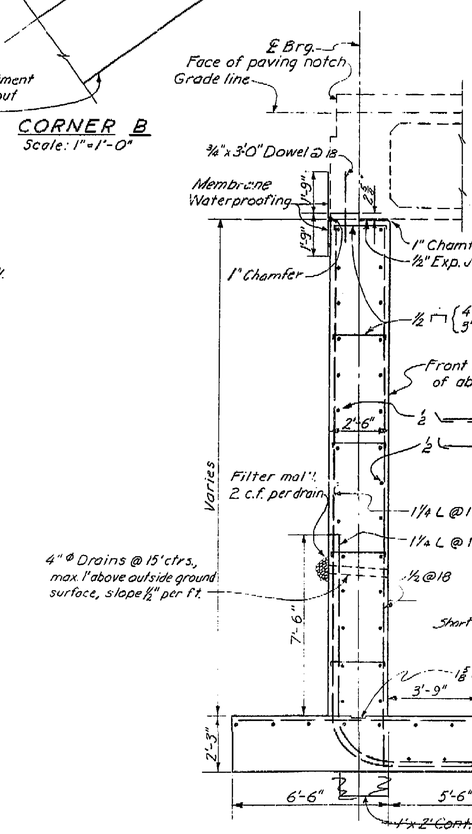
SECTION B-B

SECTION C-C



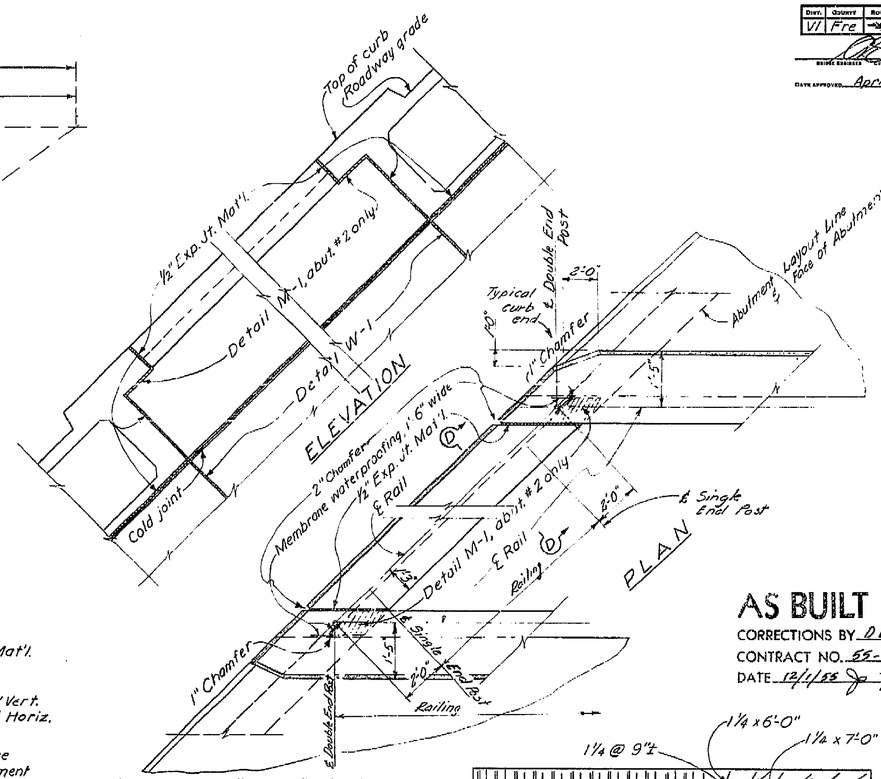


CORNER A
Scale: 1"=1'-0"

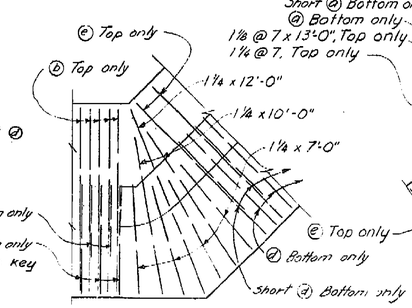


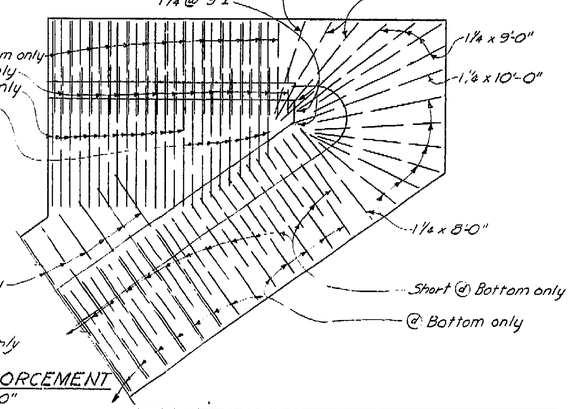
SECTION A-A

SECTION D-D



DETAIL OF PARAPET WALL





FOOTING REINFORCEMENT
Scale: ¼"=1'-0"

AS BUILT
CORRECTIONS BY D E CARLSON
CONTRACT NO. 55-67C9
DATE 12/1/55 to 7/6/56

Note:
All 1¼ reinforcement bars are top and bottom unless otherwise noted.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

NORTH FRESNO UNDERCROSSING

ABUTMENT #1 DETAILS

Except as noted SCALE ⅜"=1'-0"	BRIDGE 42-182R&L	FILE	DRAWING 0-312:-5

PREL. DRAWING NO. P-3412 [X] 57

AS BUILT PLANS

ClibPDF - www.fastio.com

UI-0194(1)

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.			123	167

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre.	[illegible]	[illegible]	6	18

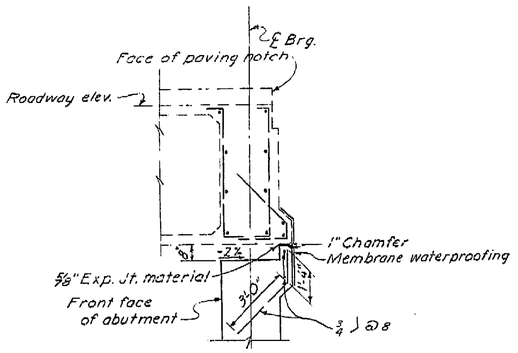
BRIDGE ENGINEER — CIVIL ENGINEERING CONSULTANTS — LICENSED STATE

DATE APPROVED April 26, 1954

BRIDGE DEPARTMENT

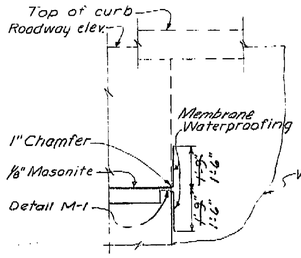
DESIGN 7 SECTION

Submitted by		Date			
DESIGN	By	BEF 11-53	Checked	HK 2-54	
DETAILS	By	AM 11-53	Checked	HK 2-54	
QUANTITIES	By	CEC 2-54	Checked	HK 2-54	
SPECIFICATIONS	By		Checked		
Approved Recommended by the State Architect			Dist. Engineering Geologist		Dist. Bridge Engineer

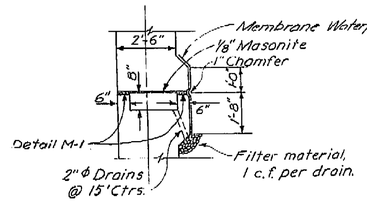


SECTION E-E

Note: For wall steel see Section A-A Abutment #1 Details



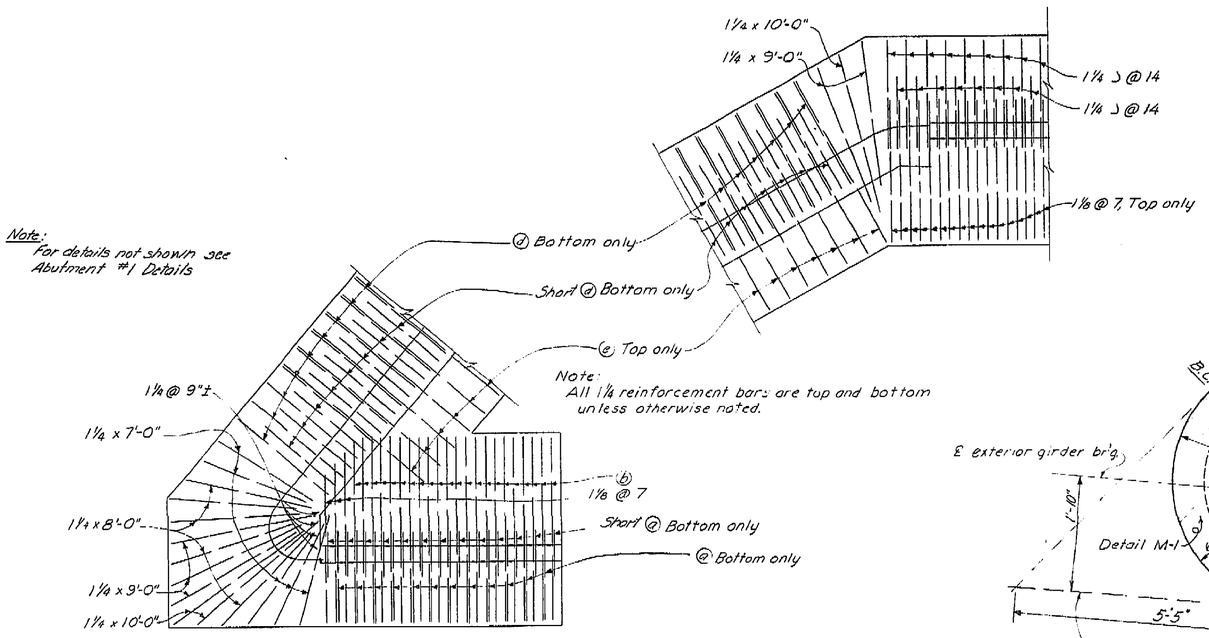
SECTION F-F



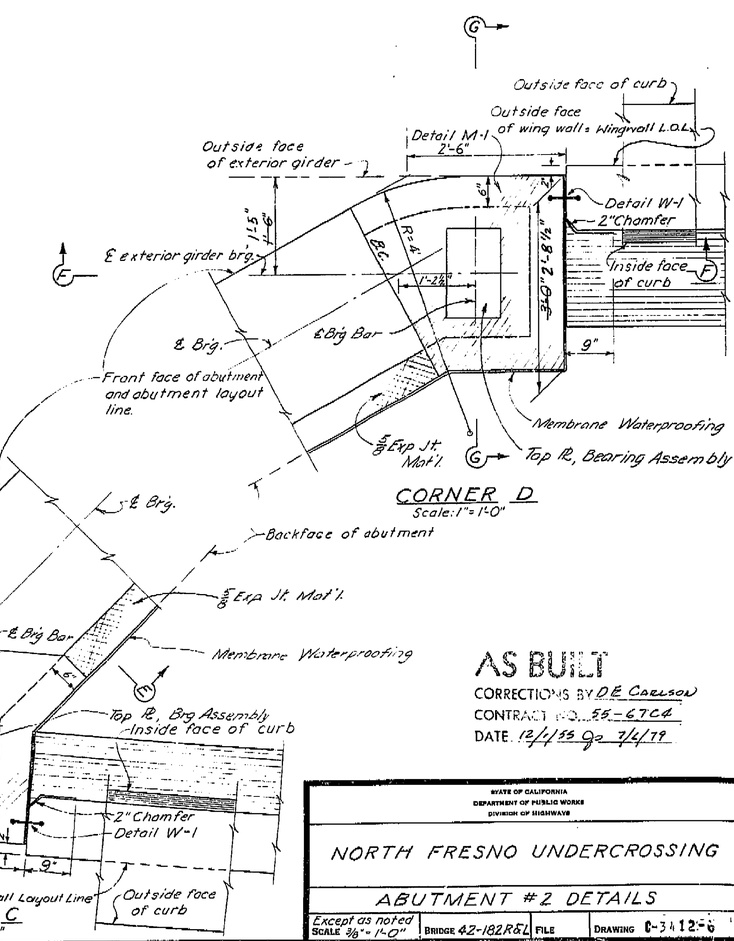
SECTION G-G

PART SECTIONS

Note: All fillets 1/2



FOOTING REINFORCEMENT
Scale: ¼"=1'-0"



AS BUILT
CORRECTIONS BY O.E. Carlson
CONTRACT NO. 55-67C4
DATE 12/1/55 to 7/4/19

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

NORTH FRESNO UNDERCROSSING

ABUTMENT #2 DETAILS

Except as noted SCALE 3/8"=1'-0"	BRIDGE 42-182R&L	FILE	DRAWING C-3412-6

PREL. DRAWING NO. P-3412 58

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AS BUILT PLANS

UT-0194(1)

FED. ROAD DIV. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
7	CAL.			120	167

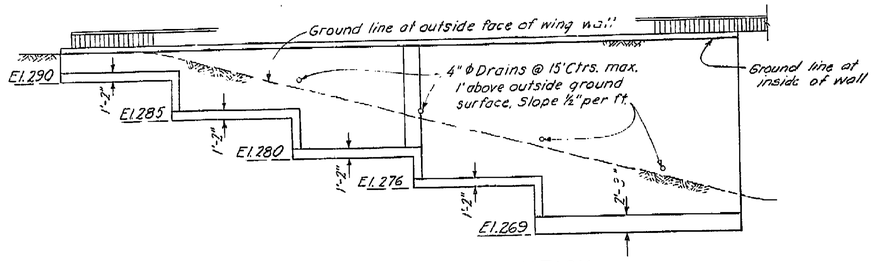
DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	Fre		E	3	18

DATE APPROVED April 26, 1954

BRIDGE DEPARTMENT

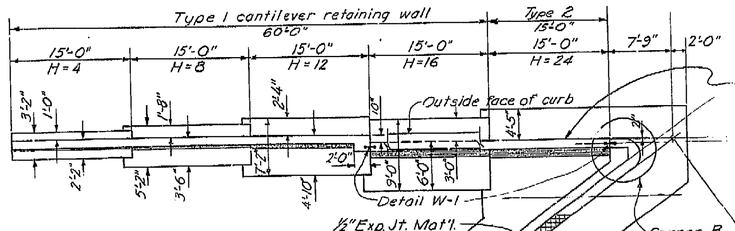
DESIGN 7 SECTION

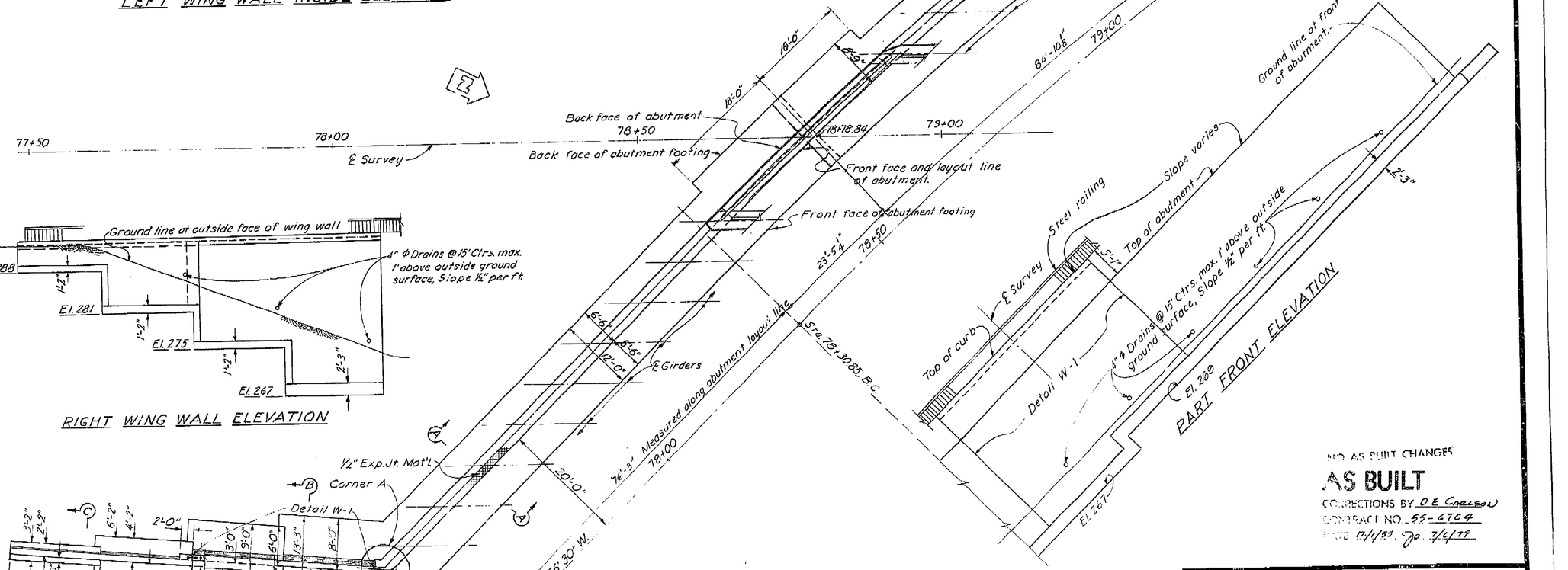
	By	Date	Checked	Quantities
DESIGN	W.F.F.	1-53	Clerk W.L.S.+	
DETAILS	W.A.M.	2-53	Checks W.L.S.+	
QUANTITIES	W.L.S.+	2-54	Checks W.L.S.+	
SPECIFICATIONS			Estimate No.	
Approved Recommended for approval			Bridge No.	55-268



LEFT WING WALL INSIDE ELEVATION

RIGHT WING WALL ELEVATION





PLAN

PART FRONT ELEVATION

Notes:
For contilever wingwalls see "TYPE I CANTILEVER RETAINING WALL" & "TYPE II CANTILEVER RETAINING WALL"
For abutment details see "ABUTMENT #1 DETAILS".
Curb and rail should not be placed on Wingwalls until backfill is completed.

NO AS BUILT CHANGES

AS BUILT
CORRECTIONS BY O.E. Carlson
CONTRACT NO. 55-6TC4
DATE 12/1/55 To 7/4/58

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

NORTH FRESNO UNDERCROSSING

ABUTMENT #1 LAYOUT

SCALE ⅛" = 1'-0" | BRIDGE 42-182 R8L | FILE | DRAWING 8-3412-3

PREL. DRAWING NO. P-3472 | X | 55

AS BUILT PLANS
Contract No. 55-6TC4
Date Completed
Document No. 60000992

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.
DATE 1-30-80 SIGNED Joseph M. Cota TITLE SUPERVISOR OF MICROFILM SERVICES

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UI-0194(1)

FED. ROAD DIV No.	STATE	PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
7	CAL.			134	167

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	Fre	41	C	17	18

E. T. Scott
District Engineer

DATE APPROVED April 26, 1979

E. M. Webb
Chief Engineer
Civil Engineer License No. 5429

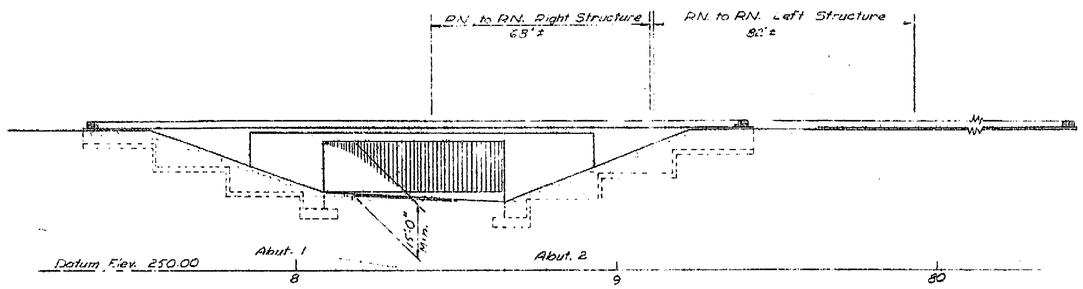
BRIDGE DEPARTMENT

Sta 72+50 Elev 290.52

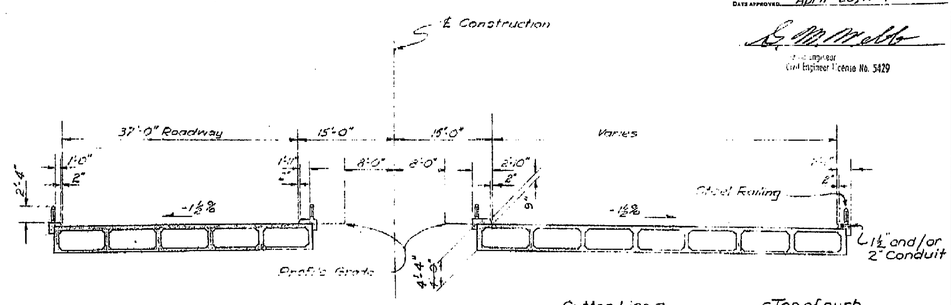
+ 0.60%

Sta 81+00 Elev 295.23

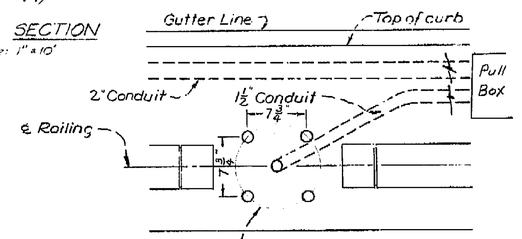
PROFILE GRADE



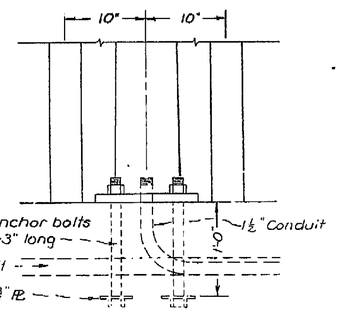
ELEVATION



TYPICAL SECTION
Scale: 1" = 10'

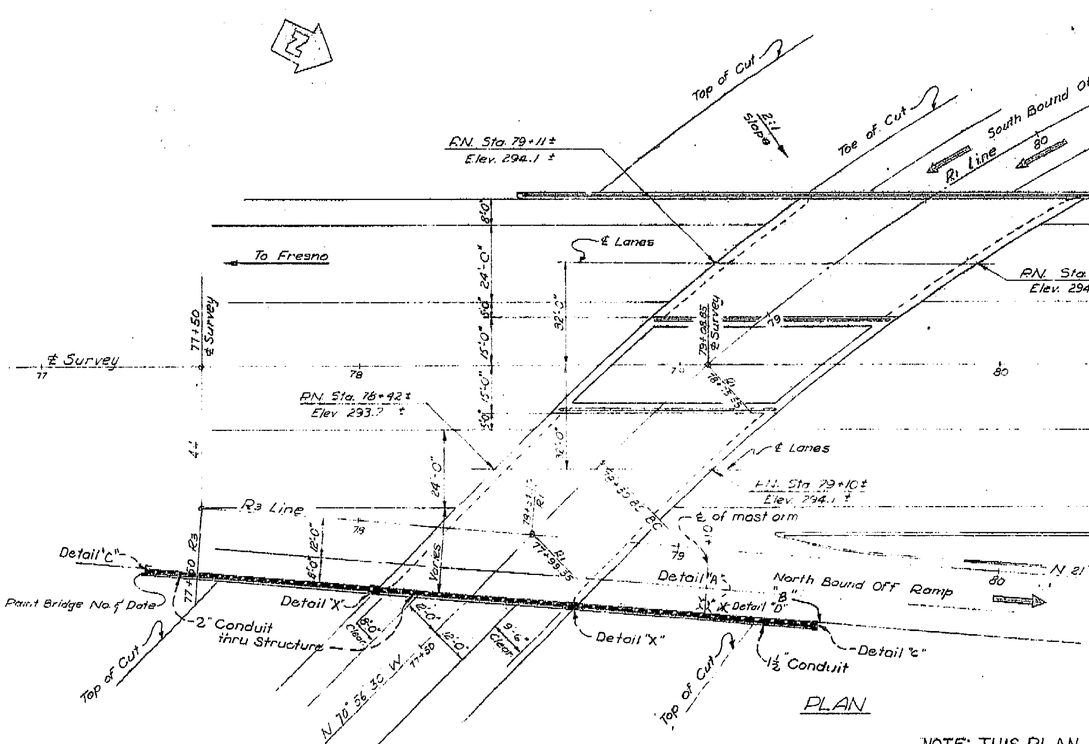


PLAN
Scale: 1½" = 1'



ELEVATION
Scale: 1½" = 1'

DETAIL "A"



PLAN

AS BUILT
CORRECTIONS BY D E CARLSON
CONTRACT NO. 55-67C4
DATE 12/1/55 to 7/1/79

For Legend see "Standard Electrical Details - Bridge"

R Line
Δ = 51° 30' 01"
R = 600'
T = 289.41
L = 539.31

NOTE: THIS PLAN ACCURATE FOR LIGHTING ONLY Live Loading = H-20-S-16-44

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

NORTH FRESNO UNDERCROSSING

LOCATED ABOUT 2.5 MILES NORTH OF THE NORTH CITY LIMIT OF FRESNO

LIGHTING PLAN

SCALE	BRIDGE	FILE	DRAWING
1" = 20' or As Noted	41-152 R/L		3412-17

PREL. DRAWING NO. P-3412 8

DESIGN

Submitted by	Date Submitted
DESIGN DETAILS	By D.V. 10-53 Checked By
QUANTITIES	By Checked By
SPECIFICATIONS	By Checked By
Approved Recommended for	

AS BUILT PLANS
Contract No. 55-67C4

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE ____ SIGNATURE ____ TITLE SUPERVISOR OF

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UI-0194(1)

FED. ROAD DIV. No.	STATE	PROJ. No.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.			119	167

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	~~180~~ 6		2	18

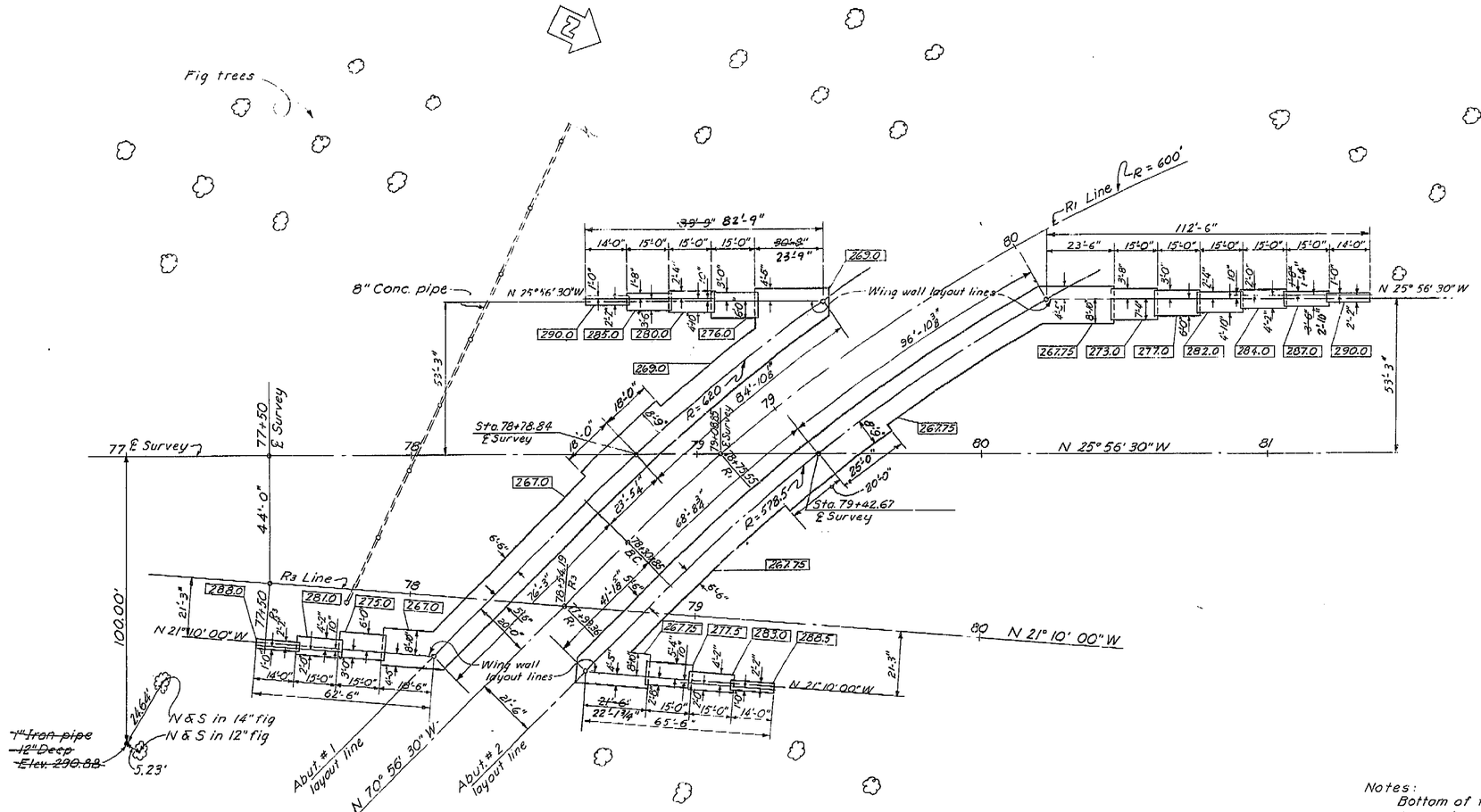
Rte 99

DATE APPROVED April 26, 1956

BRIDGE DEPARTMENT

DESIGN 7 SECTION

Sales ... by		Date	
DESIGN	by JEF	Date 4-56	Const. Hwy. 3/5 #
DETAILS	by A.M.	Date 11-55	Const. Hwy. 3/5 #
QUANTITIES	by GEC	Date 2-56	Const. Hwy. 3/5 #
SPECIFICATIONS	by	Date	Const. Hwy.
Approved Recommended by [illegible]			Date [illegible]



FOUNDATION PLAN

AS BUILT
CORRECTIONS BY DE CARLSON
CONTRACT NO. 55-6TC4
DATE 12/1/55 - 7/2/58

Notes:
Bottom of footing elevations shown thus 268.0
Approximate existing ground El. 294.
All fig trees not shown.
Length of abutments as shown are measured along abutment layout lines.

Bench Mark
140' Rt ℄ Survey Sta. 78+70±
Top of Outfall Box
Elev 294.14

R1 Line
Δ = 51° 30'
R = 600'
T = 289.41
L = 539.31

Bench Mark No. 72.7 R.R. spike in 20" eucy. tree about 180' Rt. Sta. 72+70 Elev. ~~289.46~~, 289.59

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

NORTH FRESNO UNDERCROSSING

FOUNDATION PLAN

SCALE 1" = 20' | BRIDGE 42-182 R&L | FILE | DRAWING B-3412-2

PREL. DRAWING NO. P-3412

AS BUILT PLANS
Contract No. 55-6TC4

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO [illegible]

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California Department of Transportation
Division of Maintenance

Structure Maintenance and Investigations

BRIDGE

INSPECTION

RECORDS

INFORMATION

SYSTEM

The requested documents have been generated by BIRIS.

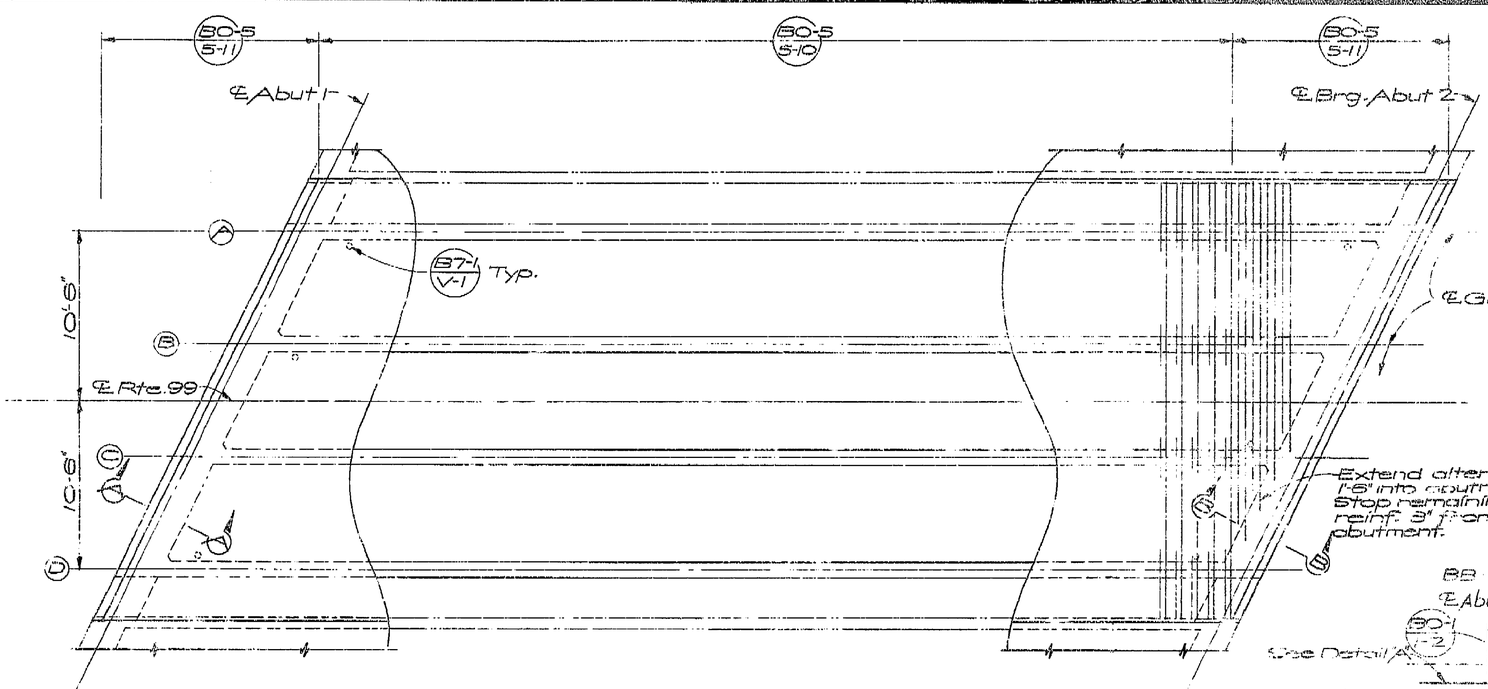
These documents are the property of the California Department of Transportation and should be handled in accordance with Deputy Directive 55 and the State Administrative Manual.

Records for “Confidential” bridges may only be released outside the Department of Transportation upon execution of a confidentiality agreement.

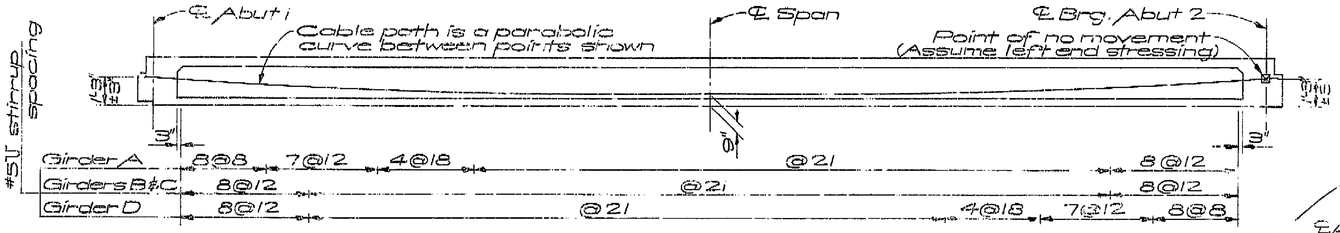
DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	21.3/27.3	111	140

DESIGN ENGINEER — REGISTERED CIVIL ENGINEER & NUMBER 25712

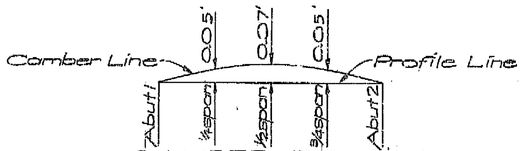
DATE APPROVED February 2, 1987



GIRDER LAYOUT
1/4"=1'-0"

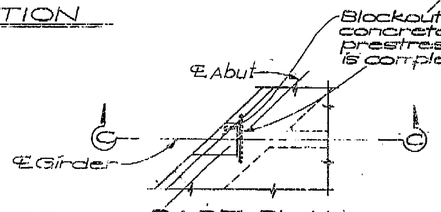


LONGITUDINAL SECTION
1/4"=1'-0"

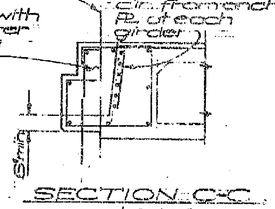


CAMBER DIAGRAM
Does not include allowance for falsework settlement.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

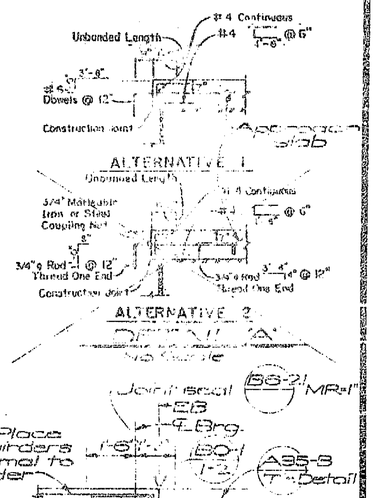


PART PLAN
1/4"=1'-0"



SECTION C-C
1/2"=1'-0"

ANCHORAGE BLOCKOUT DETAIL



SECTION A-A
1/2"=1'-0"

SECTION B-B
1/2"=1'-0"

PRESTRESSING NOTES

270 KSI Low Relaxation Strand: NO AS BUILT CHANGE

P_{jack} = 3700 kips

A_s = 18.87 in^2

Anchor Set = 3/8 in

AS BUILT 4/1-25-89
CORRECTIONS BY B.A. YORKE
CONTRACT NO. 06-085404
DATE 12-6-88

Distribution of prestress force (P_{jack}) between girders shall not exceed the ratio of 3:2. Maximum final force variation between girders shall not exceed 725k.

Concrete: f'_c = 4000 psi @ 28 days

f'_{ci} = 3500 psi @ time of stressing

Contractor shall submit elongation calculations based on initial stress at ⓜ = .972 times jacking stress.

One end stressing shall be performed from either end.

DESIGN	By Sterra 4/86	Checked Amer Bata 5-86	State of CALIFORNIA DEPARTMENT OF TRANSPORTATION	STRUCTURES - DESIGN 12	BRIDGE NO. 42-181 R/L
DETAILS	By R.K. Wong 4-86	Checked Amer Bata 5-86		Project Engineer 3-14-89	POST MILE 23.9
QUANTITIES	By Amer Bata 5-86	Checked J TOKES 4/86		CU 062200 WO 0854-01	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

MCKINLEY AVE UNDERCROSSING (WIDEN)

GIRDER LAYOUT

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 5 OF 7

AS BUILT PLANS
Contract No. 06-085404
Date Completed 12/06/88
Document No.

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

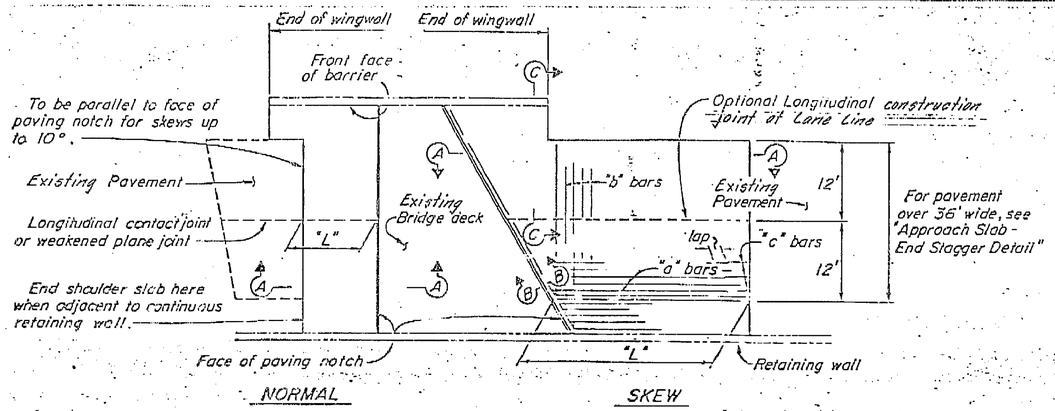
DATE 3-14-89 SIGNATURE Kendall Black TITLE SUPERVISOR OF MICROFILM SERVICES

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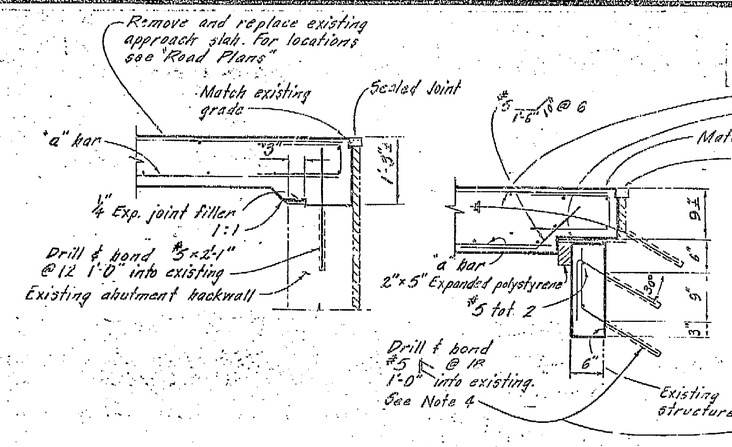
DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET	TOTAL SHEETS
06	Fre	99	21.3/27.3	112	140

R.C. Flugeman — DESIGN ENGINEER — 25712 — REGISTERED CIVIL ENGINEER NUMBER

DATE APPROVED February 2, 1987

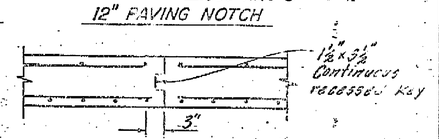


PLAN

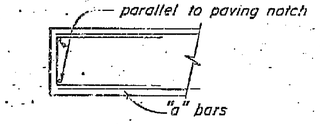


ABUTMENT WITH BACKWALL — 9" PAVING NOTCH — 12" PAVING NOTCH

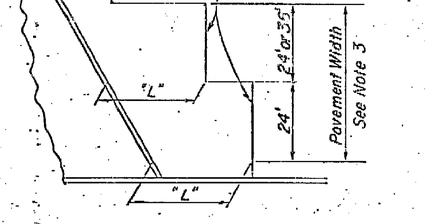
DETAIL A



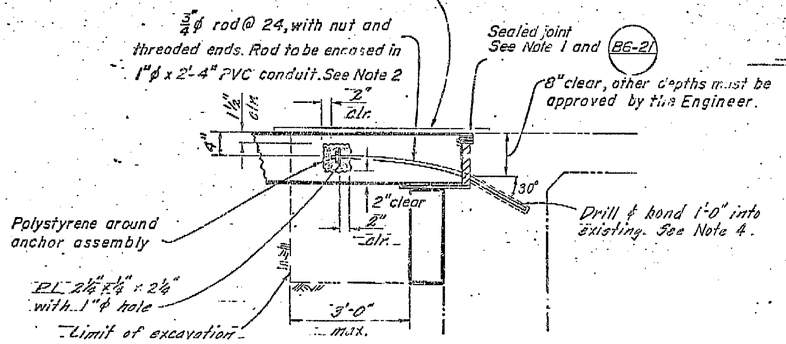
LONGITUDINAL CONSTRUCTION JOINT



SECTION B-B



APPROACH SLAB - END STAGGER DETAIL



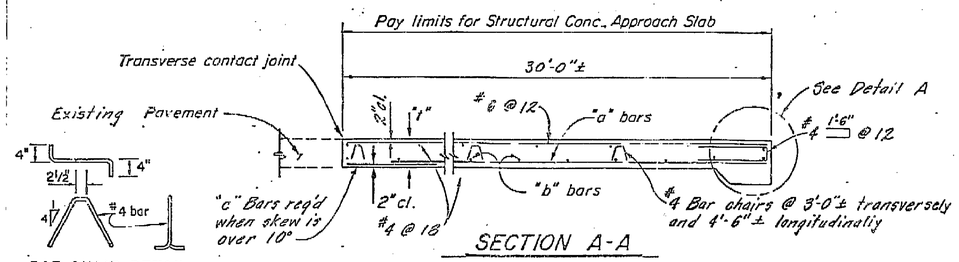
TIE DETAIL

Place Parallel to ℄ Roadway

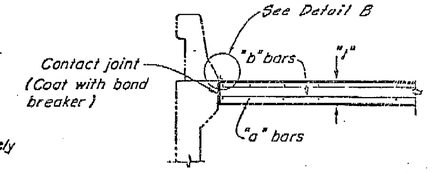
Notes:

1. Sealed joint M.R. (Movement Rating) = ½".
   Adjust bar reinforcement to clear a sawcut for sealed joint, when required.
2. All metal parts to be galvanized. #5 Grade 60 reinforcing bar may be substituted for ¾" rod.
   Place parallel to ℄ Roadway.
3. Approach slabs to skewed structures shall be staggered at lane lines. Staggered lines may be 24" or 36" apart for skews of 45° or less and at any lane line for skews greater than 45°.
4. Space to avoid existing prestress anchorages and main reinforcement.
5. Paving notch extension is required when the existing paving notch is less than 6" wide.

Approach Slab Type	"L"	"I"	Bar Reinforcement Table			
			"a" bars	"b" bars	"c" bars	Lap
Type 2	30'-0"	1.00'	#8 x 29'-8" @ 6	#5 @ 12	#5 @ 12	2'-4"



SECTION A-A



SECTION C-C

NO. AS BUILT CHANGES

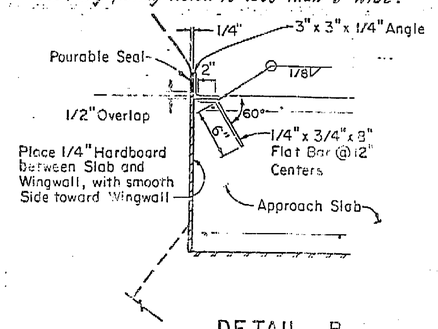
AS BUILT 12-15-89

CORRECTIONS BY EA JAEGER

CONTRACT NO. 06-085404

DATE 12-6-88

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



DETAIL B

(Low side of roadway only)

DESIGN	By Ken Nunnari 5/86	Checked Amer Bata 5-86	State of CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 12	BRIDGE NO. 42-181 R/L
DETAILS	By Kris Chitty	Checked Amer Bata 5-86		Ken Nunnari 34942 PROJECT ENGINEER REGISTERED CIVIL ENGINEER NO.	POST MILE 23.9
QUANTITIES	By Amer Bata 5-86	Checked J TORRES 4/86		CU 06706 WO 085601	MCKINLEY AVE UNDERCROSSING (WIDEN) TYPE 2 APPROACH SLAB REHABILITATION

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

Disregard prints bearing earlier revision dates → REVISION DATES (PRELIMINARY STAGE ONLY) 5/86 5/86

SHEET 6 OF 7

112

DS 0139 (Rev 6/85)

AS BUILT PLANS
Contract No. 06-085404
Date Completed 12/06/88
Document No.

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 2-14-89 SIGNATURE Donald Blackford TITLE CHIEF, DIVISION OF MICROFILM SERVICES

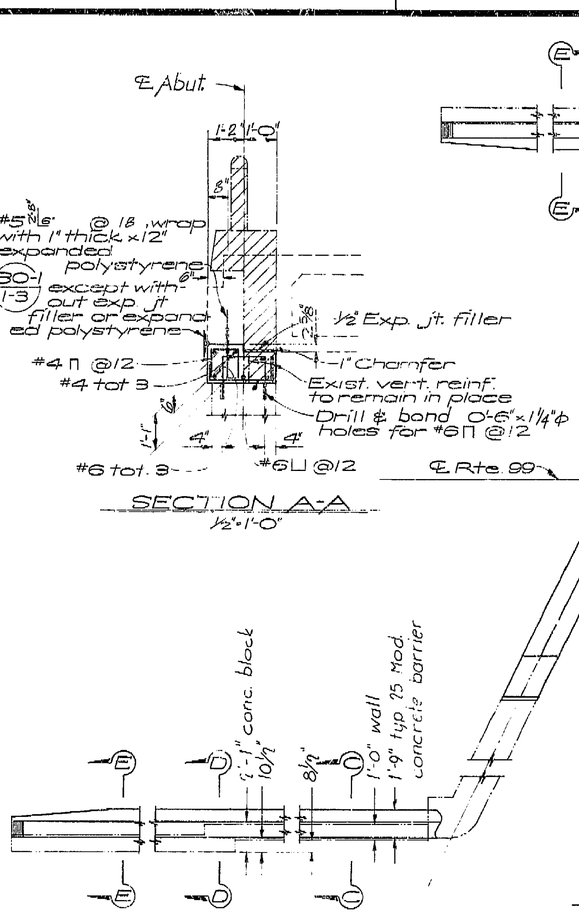
DS 0139-70

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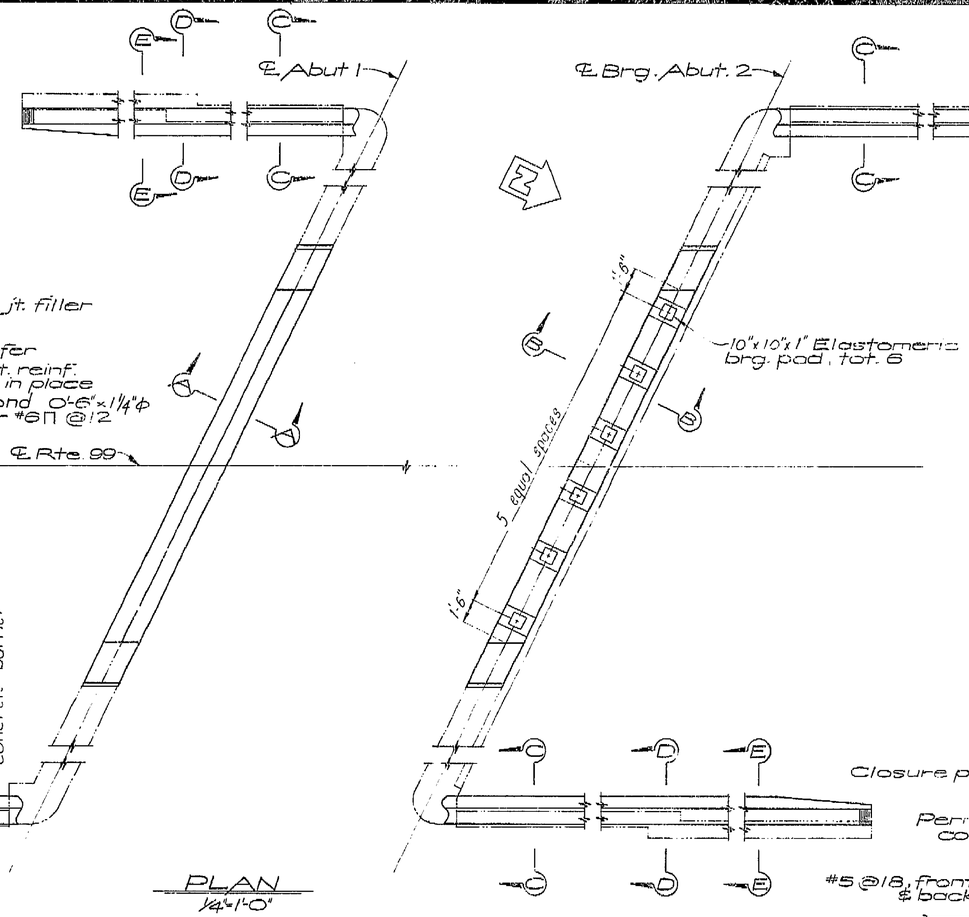
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DIST.	COUNTY	ROUTE	POST MILES-TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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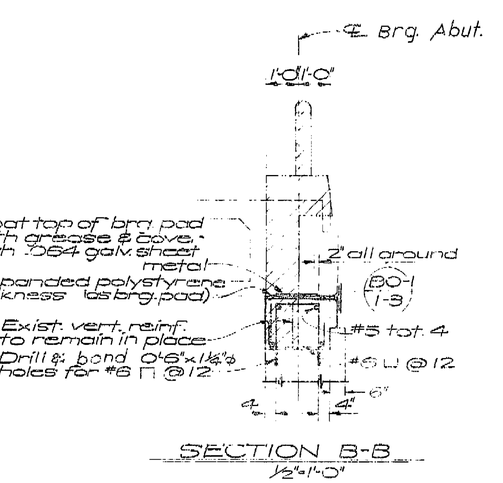
R A Yeager — 25712
DESIGN ENGINEER — REGISTERED CIVIL ENGINEER NUMBER
DATE APPROVED February 2, 1987



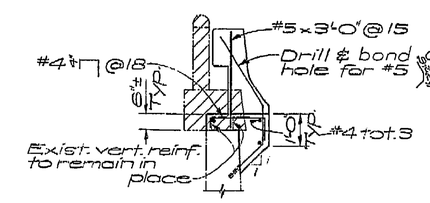
SECTION A-A
½"=1'-0"



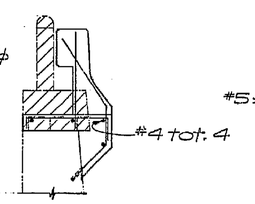
PLAN
¼"=1'-0"



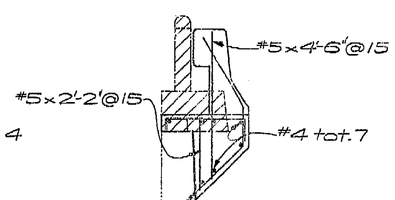
SECTION B-B
½"=1'-0"



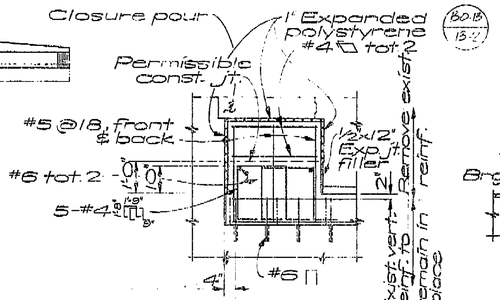
SECTION C-C
½"=1'-0"



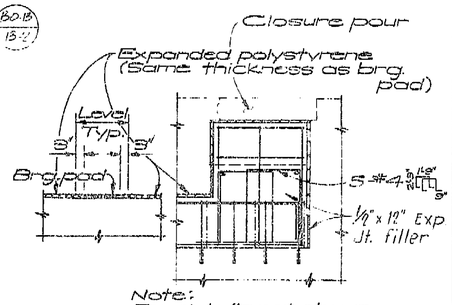
SECTION D-D
½"=1'-0"



SECTION E-E
½"=1'-0"



ABUT 1



ABUT 2

PART ELEVATIONS (B0-13)
½"=1'-0"

Notes:
Remove exist. parapet wall & curb. Salvage steel railing.
For concrete barrier details not shown, see (B11-53 Type 25A)

Note:
For details not shown see Abut 1

NO AS BUILT CHANGES
AS BUILT ℄ 1-25-89
CORRECTIONS BY RA YEAGER
CONTRACT NO. 06-085404
DATE 12-6-88

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	By Torres 4/86	Checked Amer Bata 5-86	State of CALIFORNIA DEPARTMENT OF TRANSPORTATION	STRUCTURES - DESIGN 12	BRIDGE NO. 42-181 R/L
DETAILS	By R.K. Wong 4-86	Checked Amer Bata 5-86		Project Engineer Ron Yeager 34942 Registered Civil Engineer No.	POST MILE 23.9
QUANTITIES	By Amer Bata 5-86	Checked J. TORRES 4/86			

McKINLEY AVE UNDERCROSSING (WIDEN)
ABUTMENT DETAILS

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 08200
WO 085401

Disregard prints bearing earlier revision dates →

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 3 OF 7

109

AS BUILT PLANS
Contract No. 06-085404
Date Completed 12/06/88
Document No.

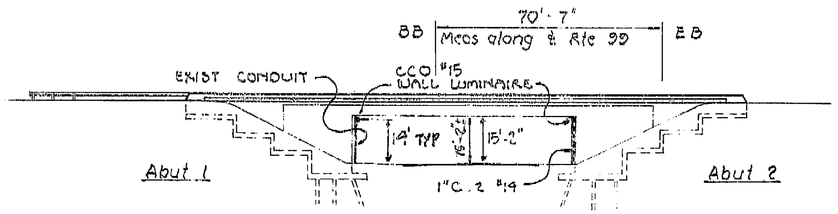
I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.
DATE 2-14-89 SIGNATURE Donald B. Blackford TITLE SUPERVISOR OF MICROFILM SERVICES

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REGISTERED PROFESSIONAL ENGINEER
J. E. ROBERTS
No. 11428
Exp. 12-31-88
CIVIL
STATE OF CALIFORNIA

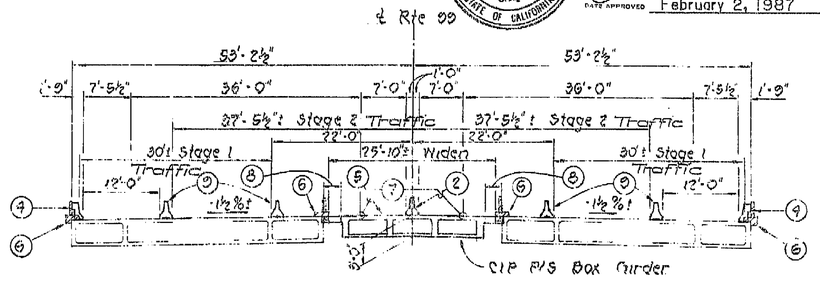
DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre.	99	21.3/27.3	107	140

CHIEF, OFFICE OF STRUCTURES DESIGN — REGISTERED CIVIL ENGINEER NUMBER 11428
DATE APPROVED February 2, 1987

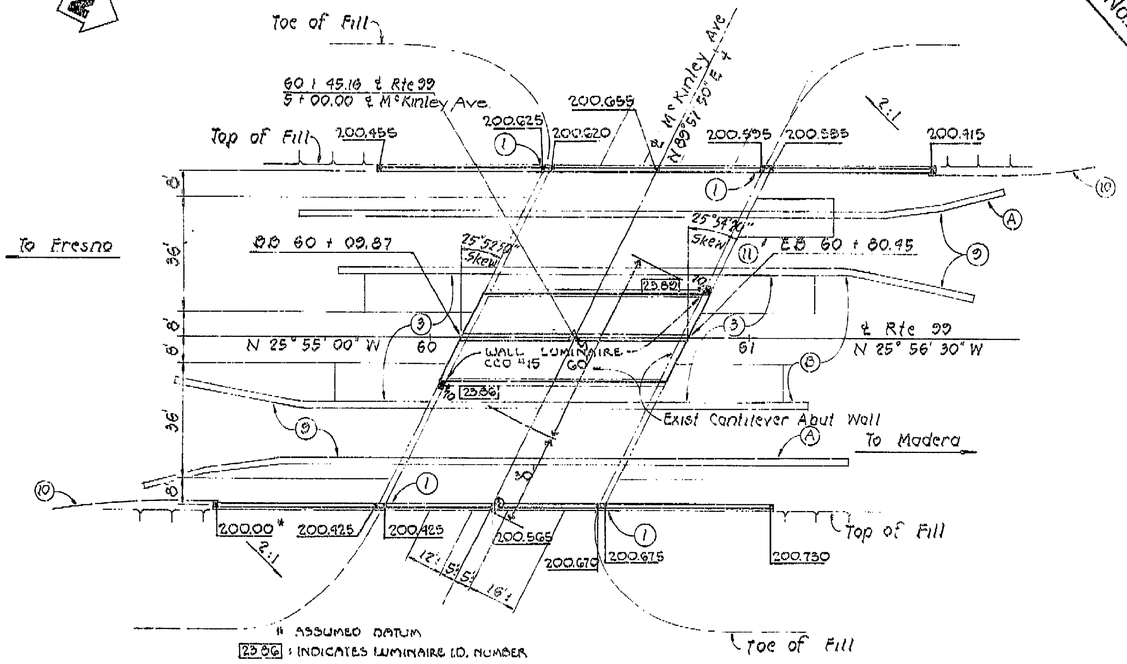


Datum Elev 250.0 ±

ELEVATION
1" = 20'



TYPICAL SECTION
1" = 10'



PLAN
1" = 20'

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

(1) Paint "McKinley Ave UC" & "Br No. 42-181 R/L"
(2) Concrete Barrier Type 50 A.
(3) Approach Slab Type 2, See "Road Plans".
(4) Concrete Barrier Type 25 Modified
(5) Mulch Exist Grade & X-Slope.
(6) Remove Exist Curb & Salvage Steel Railing.
(7) Exist Profile Grade.
(8) 2'-9½" ± Closure Pour.
(9) Temporary Railing (Type K) (A) L = 220'-0" Each Location (B) L = 200'-0" Each Location
——— Indicates Exist Structure.
▨ Indicates Concrete Removal.
⊕ Indicates Point of Min Vert Clr.
(10) MBGR, see "Road Plans"
(11) Approach Slab Type 2 Replacement, See "Road Plans"

AS BUILT ℄ 1-25-89
CORRECTIONS BY R.A. YAEGER
CONTRACT NO. 06-085404
DATE 12-6-88

AS BUILT PLANS
Contract No. 06-085404
Date Completed 12/06/88
Document No.

APPROXIMATE QUANTITIES

TEMPORARY RAILING (TYPE K)	1,040 LF
SALVAGE METAL BRIDGE RAILING	342 LF
BRIDGE REMOVAL (PORTION), LOCATION A	LUMP SUM
PRESTRESSING CAST-IN-PLACE CONCRETE	LUMP SUM
DRILL AND BOND DOWEL	127 LF
REFINISH BRIDGE DECK	243 SQFT
WATERSTOP	66 LF
JOINT SEAL (MR 1/2")	14 LF
JOINT SEAL (TYPE B-MR 1")	14 LF

FINAL PAY QUANTITIES

STRUCTURE EXCAVATION (BRIDGE)	15 CY
STRUCTURE BACKFILL (BRIDGE)	7 CY
STRUCTURAL CONCRETE, BRIDGE	114 CY
BAR REINFORCING STEEL (BRIDGE)	22,100 LB
CONCRETE BARRIER (TYPE 25 MODIFIED)	360 LF
CONCRETE BARRIER (TYPE 50A)	71 LF

INDEX TO PLANS

SHEET NO.	TITLE
1	GENERAL PLAN
2	FOUNDATION PLAN
3	ABUTMENT DETAILS
4	TYPICAL SECTION
5	GIRDER LAYOUT
6	TYPE 2 APPROACH SLAB REHABILITATION
7	LOG OF TEST BORINGS

STANDARD PLANS DATED JULY 1984

A62-C	EXCAVATION AND BACKFILL - BRIDGE
B0-1	BRIDGE DETAILS
B0-3	BRIDGE DETAILS
B0-13	BRIDGE DETAILS
B6-21	JOINT SEALS
B7-1	BOX GIRDER DETAILS
B8-3	CAST-IN-PLACE PRESTRESSED GIRDER DETAILS
B11-30	TEMPORARY RAILINGS (TYPE K)
B11-53	CONCRETE BARRIER TYPE 25
A75-A	CONCRETE BARRIER TYPE 50

Standard Plan Sheet No.
Detail No.

For General Notes, see "Foundation Plan" sheet.

Submitted by: R.A. Rogerson 25712 — DESIGN ENGINEER — REGISTERED CIVIL ENGINEER NUMBER	DESIGN	By J. Torres 4/86	Checked Amar Bata 5-86	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	Checked Amar Bata 5-86	State of CALIFORNIA DEPARTMENT OF TRANSPORTATION	STRUCTURES - DESIGN 12	BRIDGE NO. 42-181 R/L	McKINLEY AVE UNDERCROSSING (WIDEN)
Approved for Construction: R.C. Shaw 1/87 13523 — DESIGN ENGINEER — REGISTERED CIVIL ENGINEER NUMBER	DETAILS	By R. Urpino 1-86	Checked Amar Bata 5-86	LAYOUT	By J. Torres 4/86	Checked Amar Bata 5-86		Kam Kuroda 34942 PROJECT ENGINEER — REGISTERED CIVIL ENGINEER NO.	POST MILE 23.9	GENERAL PLAN
	QUANTITIES	By Amar Bata 5-86	Checked J. Torres 8/86	SPECIFICATIONS	By Brent A. Massey	Plans and Specs Compared Chris Perez 1/8/87		CU 06200 WO 085401	Disregard prints bearing earlier revision dates	DIVISION DATES (PRELIMINARY STAGE ONLY)	SHEET 1 OF 7

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

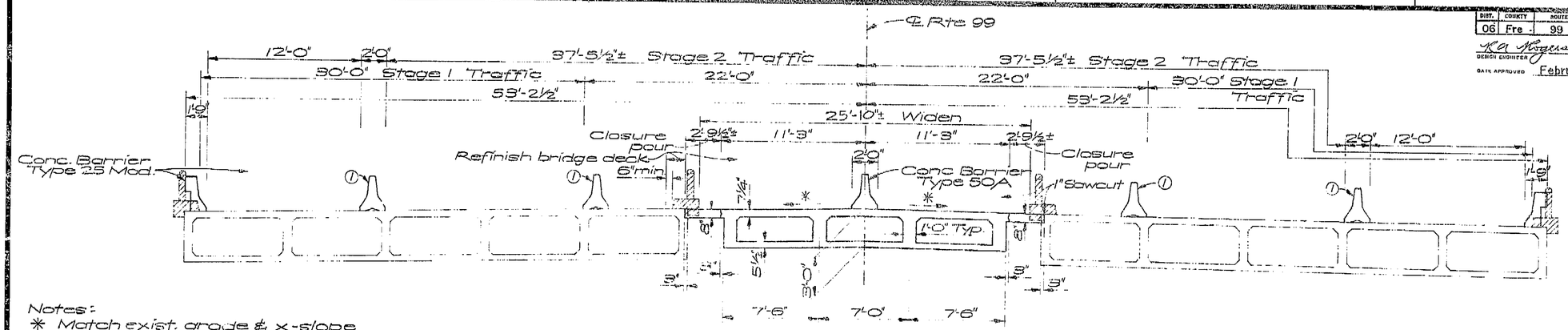
I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.
DATE 2-14-89 SIGNATURE Donald Blackford TITLE SUPERVISOR OF MICROFILM SERVICES

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DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	21.3/27.3	110	140

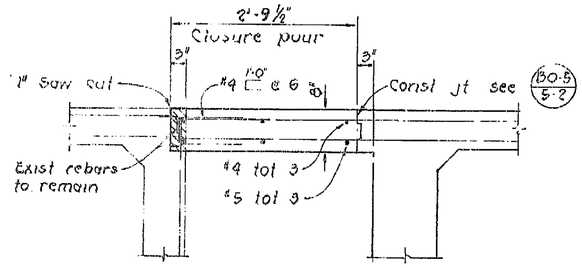
DESIGN ENGINEER: Ka Wong — REGISTERED CIVIL ENGINEER NUMBER: 25712

DATE APPROVED: February 2, 1987

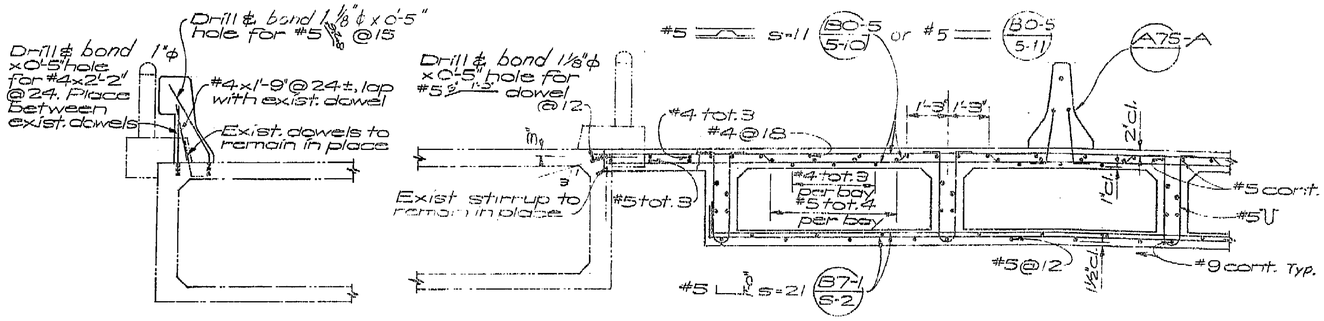


Notes:
* Match exist. grade & x-slope
① Temporary railing (Type K)
▨ Remove exist. curb. Salvage steel railing.

TYPICAL SECTION
¼"=1'-0"

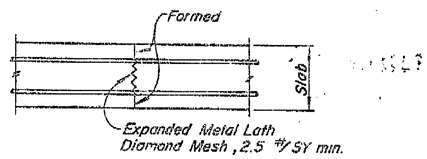


DETAIL "A"
1" = 1'-0"



For concrete barrier details not shown, see (B11-58 Type 25)

PART TYPICAL SECTION (B0-5) (B7-1) (B8-5)
½"=1'-0"



ALTERNATIVE DECK CONSTRUCTION JOINT TOP OR BOTTOM SLAB

NO AS BUILT CHANGES

AS BUILT ℄ 1-25-89

CORRECTIONS BY BA YARGER

CONTRACT NO. 06-085404

DATE 12-6-88

FALSEWORK RELEASE

Falsework shall be released as soon as permitted by the specifications. Closure pour shall not be placed sooner than 60 days after the falsework has been released.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

AS BUILT PLANS
Contract No. 06-085404
Date Completed 12/01/88
Document No.

DESIGN	By Norma 4/86	Checked Amer Bata 5-86	State of CALIFORNIA DEPARTMENT OF TRANSPORTATION	STRUCTURES - DESIGN 12	BRIDGE NO. 42-181R/L
DETAILS	By R.K. Wong 4-86	Checked Amer Bata 5-86		PROJECT ENGINEER Allen Murray 34942 REGISTERED CIVIL ENGINEER NO.	POST MILE 23.9
QUANTITIES	By Amer Bata 5-86	Checked J TORRES 4/86			

McKINLEY AVE UNDERCROSSING (WIDEN)

TYPICAL SECTION

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
WO 085401

Disregard prints bearing earlier revision dates →

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 4 OF 7

110

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 2-14-89 SIGNATURE Donald B Liebl TITLE SUPERVISOR OF MICROFILM SERVICES

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UI-0194(1)

FED. ROAD DIST. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2	CAL.			117	187

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	4	E	10	10

APPROVED April 26, 1954

DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	21.3/27.3	113	140

DATE APPROVED February 2, 1987

AS BUILT PLANS
Contract No. 06-085404
Date Completed 12/06/88
Document No.

PLAN
Scale: 1" = 20'

GEOTECHNICAL BRANCH - TRANSPORTATION LABORATORY

Robert W. Reynolds #185
CERTIFIED ENGINEERING GEOLOGIST NUMBER

DATE APPROVED

McKINLEY AVENUE UNDERCROSSING

LOG OF TEST BORINGS

Approved Recommended by

R. Fox 7880 [illegible]
PROJECT GEOLOGIST CER. NO. ENGINEERING GEOLOGIST CER. NO.

CU: 06
WO: 085400

BRIDGE No. 42-188 R/L

BM = 60.9 RR Spike in PP 140'± Lt.
Sta. 61 ± ℄ Survey S/S McKinley Ave.
Elev. 285 ±

1-25-89
RA YERGER
06-085404
12-6-88
J. AS.
7/12/19

NO AS BUILT CHANGES
AS BUILT
CORRECTIONS BY D.E. CARLSON
CONTRACT NO. 55-61564
DATE 12/1/56

B-1 30' Rt. ℄ Survey Sta 59+37 — El. 284± — Dense brown well packed coarse sand with silt binder; Dense grey fine well packed sandy silt; Very dense well packed fine sand
B-5 2' Rt. ℄ Survey Sta 59+80 — El. 283± — Very dense brown cemented silty sand; Slightly compact brown fine sand some silt binder
B-7 51' Rt. ℄ Survey Sta 60+26 — El. 284± — Seconds per foot 9-28-53
B-3 45' Lt. ℄ Survey Sta 60+35 — El. 284± — Seconds per foot 9-28-53
B-4 — El. 283± — Very hard
B-9A 25' Rt. ℄ Survey Sta 60+69 — El. 283± — Very hard — Existing Ground Line
B-6 52' Rt. ℄ Survey Sta 61+07 — El. 284± — Very dense brown cemented sand; Dense brown fine sand with compact silt lenses; Compact brown medium & coarse sand with silt binder; Dense grey well packed silt; Dense grey well packed fine sand; Dense brown medium sand some silt; Very dense well packed fine sand
B-2 18' Lt. ℄ Survey Sta 61+39 — El. 284± — Seconds per foot 9-28-53

59 60 61

PROFILE
Scale: 1" = 10'

Note: No ground water was encountered in any of these borings.

Classification of Material Based on Standard Grade Size Limits

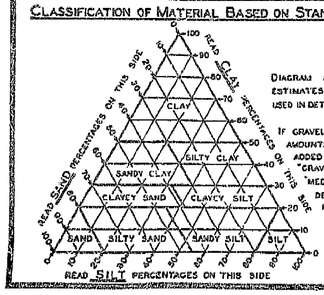


Diagram showing the basis for estimates of grade size distribution used in determination of class names

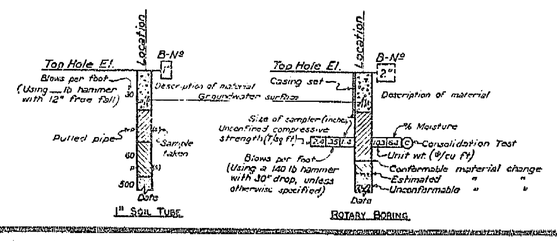
If gravel is present in appreciable amounts the term "gravelly" may be added to the class name, viz. "gravelly sand". The terms "coarse", "medium" and "fine" when used to describe gravel, sand and silt refer to standard grade size limits.

Legend of Earth Materials

- Gravel
- Sand
- Silt
- Clay
- Sandy Clay or Clayey Sand
- Sandy Silt or Silty Sand
- Silty Clay or Clayey Silt
- Peat and/or Organic Clay
- Filled Material
- Igneous Rock
- Sedimentary Rock
- Metamorphic Rock

Legend of Boring Operations

- Plan of any boring
- Penetrometer
- 2½" Cone penetrometer
- Sampler boring (dry)
- Rotary boring (wet)
- Auger boring (dry)
- Jet boring
- Core boring
- Test pit



Notes

The contractor's attention is directed to Section 2, Article (c) of the standard specifications and to the special provisions accompanying this set of plans. Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis. Penetrometer borings having a rate of penetration measured in seconds per foot are driven with a No 2 Wakeman-Terry air hammer at 115 PSI.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

McKinley Avenue Undercrossing

LOG OF TEST BORINGS

SCALE: HORIZ. As Noted VERT. As Noted | BRIDGE 42-181 | FILE | DRAWING B-3411-10

PREL. DRAWING NO. P-3411 8 28

SHEET	OF
7	7

FIELD STUDY	
DRAWN	W.C. Hauck & Staff
CHECKED	W.C. Hauck & Staff
Approved Recommended for ...	[illegible]

AS BUILT PLANS
Contract No. 55-61564

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

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DATE 2-14-89 — SUPERVISOR OF MICROFILM SERVICES

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MICROFILM

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GENERAL NOTES
LOAD FACTOR DESIGN

DESIGN: BRIDGE DESIGN SPECIFICATIONS
(1983 AASHTO with Interims and Revisions by CALTRANS)

DEAD LOAD: Includes 35 psf for future wearing surface.

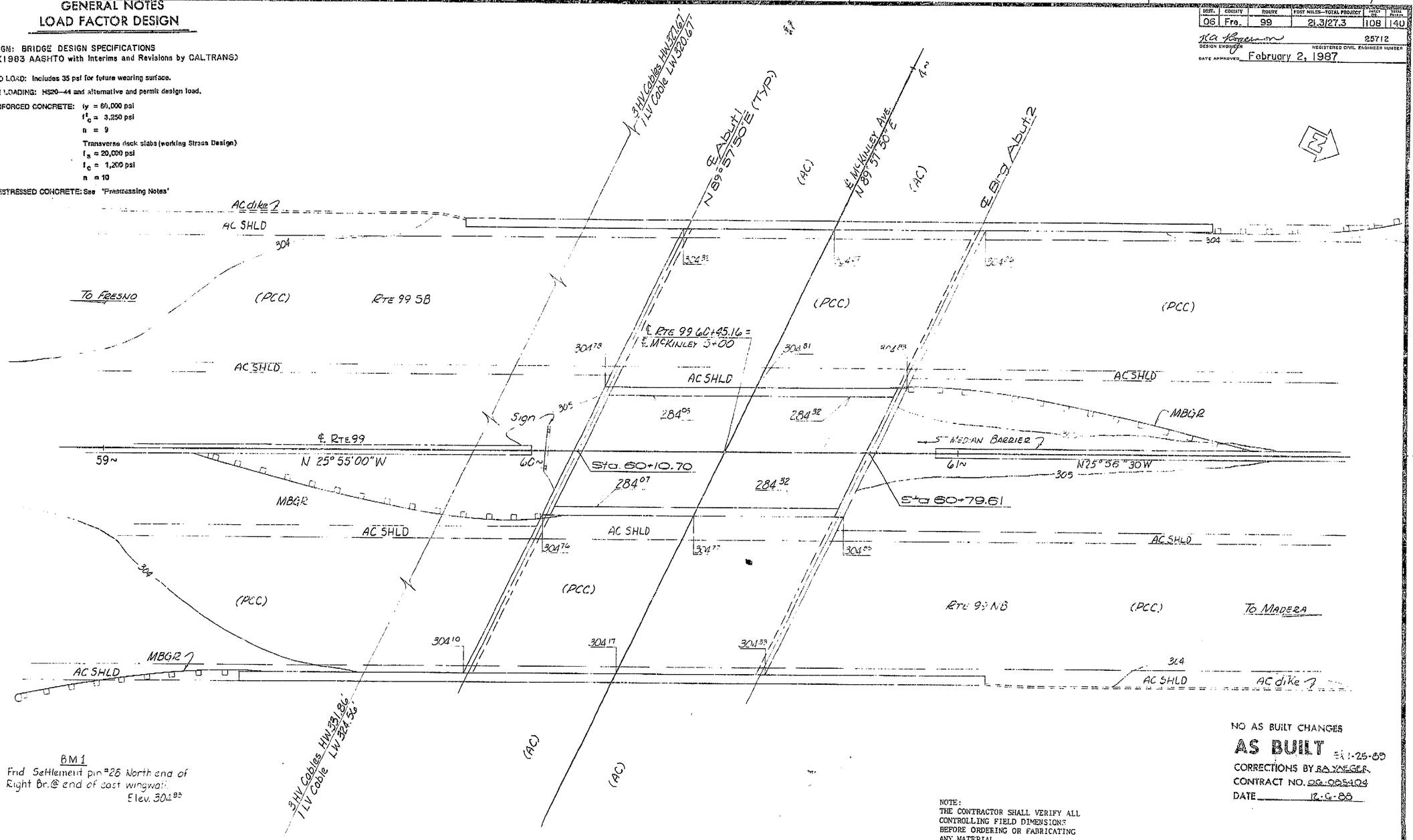
LIVE LOADING: HS20—44 and alternative and permit design load.

REINFORCED CONCRETE: f_y = 60,000 psi
f'_c = 3,250 psi
n = 9
Transverse deck slabs (working Stress Design)
f_s = 20,000 psi
f_c = 1,200 psi
n = 10

PRESTRESSED CONCRETE: See 'Prestressing Notes'

DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre.	99	21.3/27.3	108	140

K A Bozeman — DESIGN ENGINEER
25712 — REGISTERED CIVIL ENGINEER NUMBER
DATE APPROVED February 2, 1987



BM 1
Frid Settlement pin #28 North end of Right Br. @ end of east wingwall.
Elev. 304.93

NO AS BUILT CHANGES

AS BUILT 5-25-89
CORRECTIONS BY RA YAEGER
CONTRACT NO. 06-085404
DATE 12-6-88

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

PR-42181-1

PRELIMINARY INVESTIGATION SECTION					
SCALE 1" = 10'	DATUM AS-Builts	PHOTOGRAMMETRY AS OF:	DRAWN By RMH 2-85	DESIGN By [illegible] 4/86	Checked [illegible] Amer Bata 5-86
ALIGNMENT TIES PR-42181-2		SURVEYED By DIST.	TRACED By RMH 2-85	DETAILS By K. WONG 4-86	Checked Amer Bata 5-86
		FIELD CHKD By IJH 10-85	CHECKED By	QUANTITIES Amer Bata 5-86	Checked J. TORRES 4/86

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

State of CALIFORNIA DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 12
Ken Thorne 34982
PROJECT ENGINEER — REGISTERED CIVIL ENGINEER NO.

CU 06
WO 085401

BRIDGE NO. 42-181R
POST MILE 23.9

MCKINLEY AVE. U.C.(WIDEN)
FOUNDATION PLAN

Disregard prints bearing earlier revision dates →

REVISION DATES (FIELD-AS-BUILT STAGE ONLY)

SHEET 2 OF 7

108

D5 0145(Rev 6/85)

AS BUILT PLANS
Contract No. 06-085404
Date Completed 12/06/88
Document No.:

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 2-14-89 SIGNATURE Ronald B Bastell TITLE SUPERVISOR OF MICROFILM SERVICES

ClibPDF - www.fastio.com

UI-0194(1)

FED. ROAD DIV. NO.	STATE	PROJ. No.	FISCAL YEARS	SHEET NO.	TOTAL SHEETS
7	CAL.			108	167

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	4	6-C	1	10

Rte 99
PM 23.9

BRIDGES DESIGNED — CIVIL AND STRUCTURAL ENGINEER — LICENSE DATA

DATE APPROVED April 26, 1956

BRIDGE DEPARTMENT

DESIGN 7 SECTION

Structure No.			
DESIGN	By: BSC 11-53	Checked: HK 3-54	
DETAILS	By: D.H. 11-53	Checked: DHB 2-54	
QUANTITIES	By: F.P.B. 2-54	Checked:	
SPECIFICATIONS	By:	Checked:	
Approved Structures Engineer		For Chief Engineer	

Sta. 55+50 Elev. 299.22

Rate of Change = R = - 0.58% Per Sta.
1000' V.C.

Sta. 65+50 Elev. 298.22

+3.00% -2.80%

PROFILE GRADE

Face of RN. 70'-7" Face of RN.
10" ℄ Brg. ℄ Brg. 10"
Far Side
Existing ground line
El. 280.5 El. 280.5
Point Br. No. & Date
Abut. 1 Abut. 2
Concrete piles
Cast in drilled hole specified, tip elev. 268
All other types tip elev. 268, for estimating purposes only.
Datum Elev. 250
59 60 61
Pile Tip Elevation El. 268.1 El. 268.0
ELEVATION

℄ Freeway
37'-0" Roadway 15'-0" 15'-0" 37'-0" Roadway
℄ Varies ℄ Varies
2'-1" 2'-1" 2'-1"
1'-0" 1'-0" 8'-0" 8'-0" 2'-1"
2" 2" 9" Steel Railing
2'-4" Type 'F' Curb -1½% -1½%
Profile Grade
1'-0"

TYPICAL SECTION
Scale: 1"=10'

Z

Toe of fill
RN. Sta. 60+25.41
Elev. 304.37
2:1
Skew 25°52'20"
N89°37'50"E
℄ McKinley Ave.
Toe of fill
2:1
Point Bridge No. & Date
6'-0" 24'-0" 15'-0" 15'-0" 18'-0" 24'-0" 2'-0"
305.95 305.65 305.13 305.18 305.14 305.24 304.99 304.69
To Fresno
Fwy. Sta. 60+45.16
℄ McKinley Sta. 5+00
305.65
9°00'20"
305.60
℄ South Bound Lanes
RN. Sta. 60+95.99
Elev. 304.60
32'-0"
℄ Freeway
N 25°55'00"W
59 60 61 62
N 25°56'30"W
32'-0"
305.57
305.52
℄ North Bound Lanes
To Madera
RN. Sta. 59+94.33
Elev. 304.46
RN. Sta. 60+64.91
Elev. 304.62
304.91 305.14
Point Bridge No. & Date
2:1
30'-0"
12'-0" 12'-0"
℄ Clearance Line
Clearance Line
2:1
Toe of Fill
Toe of Fill

PLAN

APPROXIMATE QUANTITIES

STRUCTURE EXCAVATION	1,020 C.Y.
STRUCTURE BACKFILL	1,400 C.Y.
CLASS "A" P.C.C.	1,092 C.Y.
RUBBER WATERSTOPS	220 L.F.
FURNISHING CONCRETE PILES	2,244 L.F.
DRIVING PILES	172 EA.
MEMBRANE WATERPROOFING	86 S.Y.
BAR REINFORCING STEEL (205,000 LBS.)	LUMP SUM
MISCELLANEOUS IRON & STEEL	4,560 LBS.
STEEL BRIDGE RAILING	542 L.F.

INDEX TO PLANS

Sheet No.	Title
1.	General Plan
2.	Foundation Plan
3.	Abutment Layout
4.	Abutment #1 Details
5.	Abutment #2 Details
6.	Typical Section
7.	Girder Layout
8.	Girder Reinforcement
9.	Pile Details
10.	Log of Test Borings

Note: For Type I Cantilever Retaining Wall, Steel Railing, Standard Details, and Miscellaneous Details see North Fresno Undercrossing
556 TC 4
For General Notes see Foundation Plan

AS BUILT
CORRECTIONS BY D.E. CARLSON J.A.C. 7-12-79
CONTRACT NO. 55-6TC4
DATE 12-1-55

Live Loading = H20-S16-44

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

McKINLEY AVENUE UNDERCROSSING
LOCATED ABOUT ¼ MILE WEST OF EXISTING McKINLEY AVE.-ROUTE 4 INTERSECTION

GENERAL PLAN

SCALE	BRIDGE	FILE	DRAWING
Except as noted 1"=20'	42-181 R/L		B-3411-1

PREL. DRAWING NO. P-3411 | 8 | 5 | IK | 25

ClibPDF - www.fastio.com

UI-0194(1)

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.			116	167

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre			9	10

CIVIL ENGINEER S. LINDSEY

APPROVED April 26, 1954

Revised by W.C.K. & W.

STANDARD DWG.

	Initial	Date
Design	W.K.	6-52
Detail	R.A.	6-52
Check	J.H.M.	6-52
Quant.		

Supervised: W. Friedrich

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

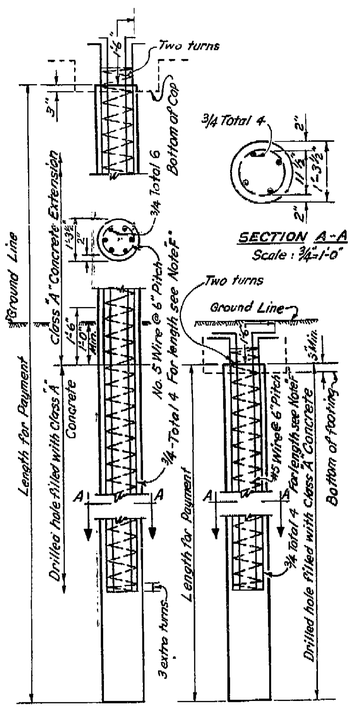
BRIDGE DEPARTMENT

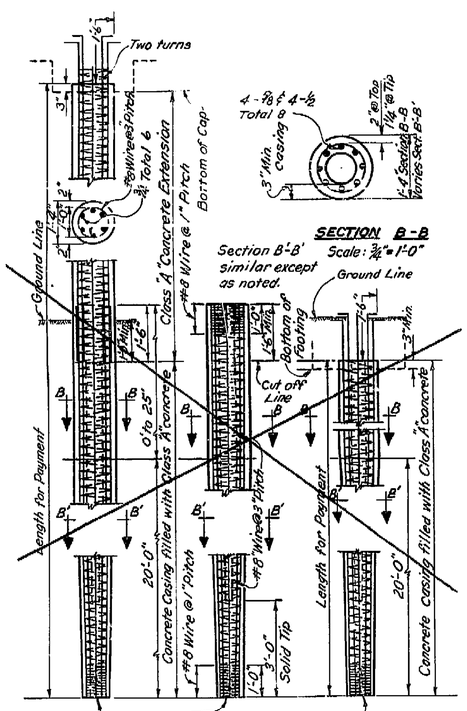
REVISION
Pay Length
REVISED BY ... INITIAL ... DATE
CHECKED BY AD 1053
QUANTITIES BY

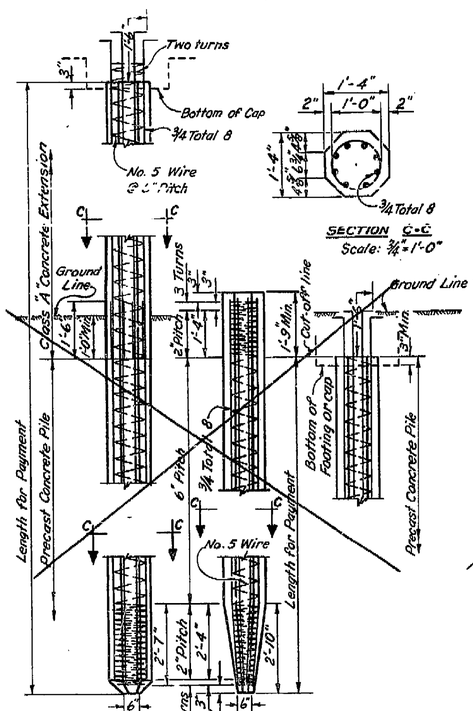
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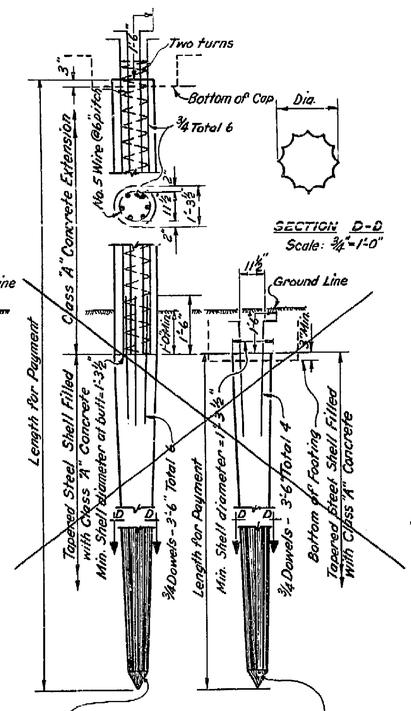
	Initial	Date	Check	Initial	Date	Scale
Design	H.K.	3/54	Detail	H.K.	3/54	2.5#
Quantities	R.A.	2/54	Check	J.H.M.	3/54	
Specifications	R.A.	2/54	Supervised by	W. Friedrich		

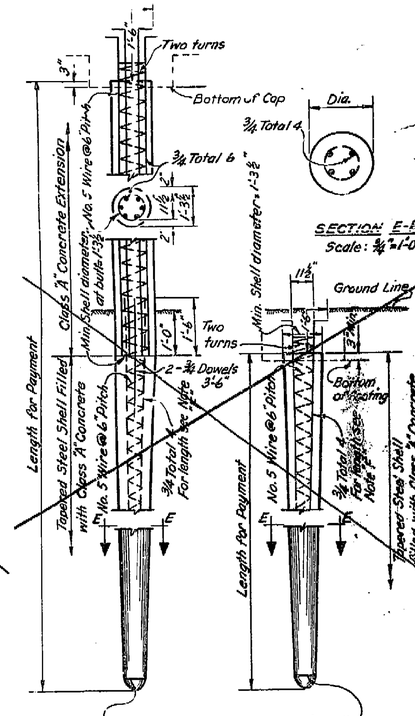
Approval Recommended by: [illegible] Engineer
Approved: [illegible] Engineer











CAST-IN-DRILLED-HOLE CONCRETE PILE
ALTERNATIVE "V"

~~CAST IN PLACE CONCRETE PILE~~
~~ALTERNATIVE "W"~~

~~PRECAST CONCRETE PILE~~
~~ALTERNATIVE "X"~~

~~CAST-IN-PLACE CONCRETE PILE~~
~~ALTERNATIVE "Y"~~

~~CAST-IN-PLACE CONCRETE PILE~~
~~ALTERNATIVE "Z"~~

Note F Length of 3/4 round bars, measured below ground line or bottom of footing, to be either 1/3 of estimated penetration or 12' whichever is the greater. For total length of bars, add extension or splice.

AS BUILT
CORRECTIONS BY D.E. CARLSON
CONTRACT NO. 55-61C4
DATE 12/1/55
J.A.C. 7/12/79

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

McKINLEY AVENUE UNDERCROSSING

PILE DETAILS

Except as Noted SCALE: 1/2"=1'-0" | BRIDGE 42-181 R/L | FILE ~~XS-10-15~~ | DRAWING 8-3411-9

PREL. DRAWING NO. P-3411- ~~15~~ 22

AS BUILT PLANS
Contract No. 55-61C4
Date Completed
Document No. 20000-772

I HEREBY CERTIFY THAT THIS IS A TRUE AND CORRECT COPY OF THE ABOVE DOCUMENT, TAKEN FROM THE ORIGINAL AND KEPT ON FILE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

1-30-80 Joseph M. Catt SUPERVISOR OF RECORDS SERVICES

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MICROFILM STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MICROFILM SCALE 1"=20

UI-0194(1)

FED. AID DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2	CAL.			1159	167

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre			10	10

BRIDGE ENGINEER — CIVIL ENGINEER-LICENSE 8885

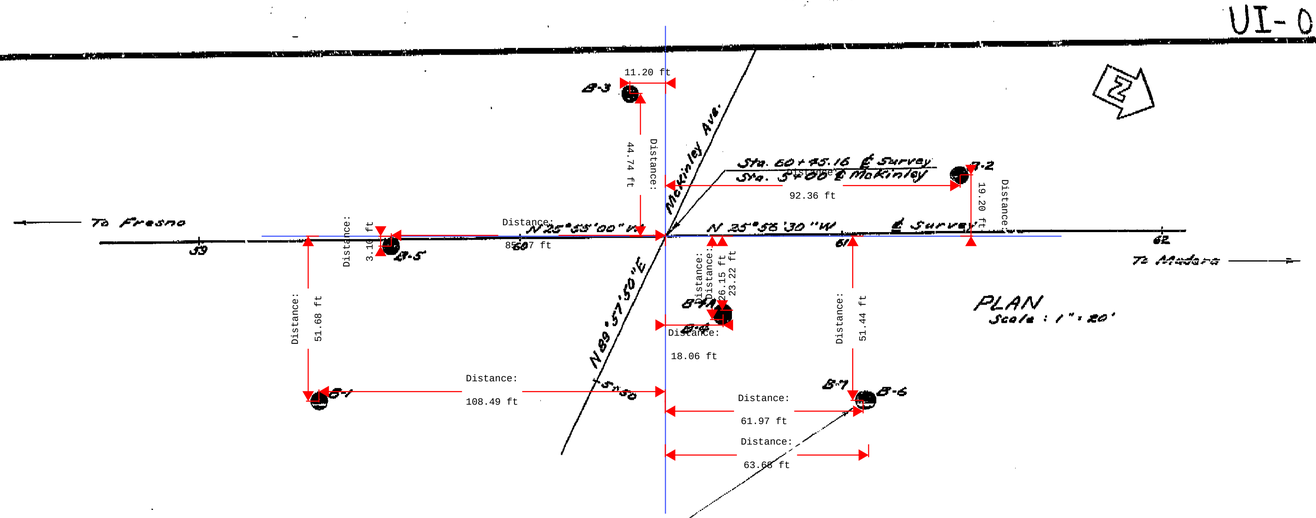
APPROVED April 26, 1954

DESIGN 7 SECTION

BRIDGE DEPARTMENT

FIELD STUDY	W.C. Menk 9-30-53
DRAWN	W.M. Menk 10-6-53
CHECKED	R.G. Mack 6-14-54

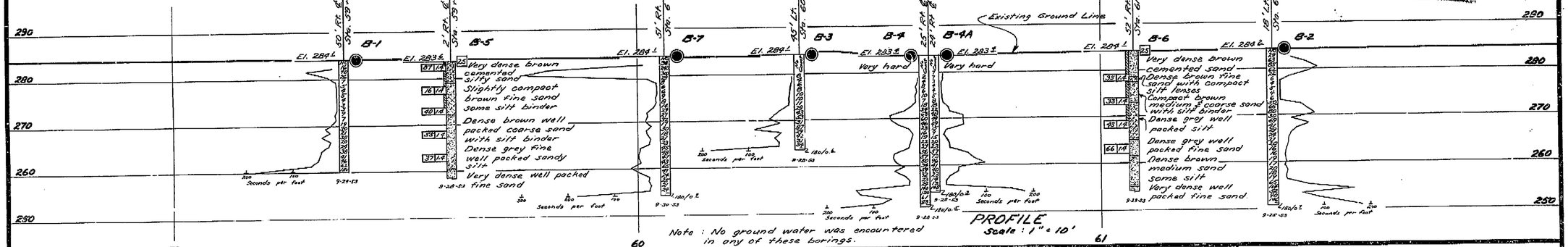
Approved Recommended by: H.C. Menk, Asst. Engr. Maint. Bridge Design; H.G. Mack, Asst. Engr. Maint. Bridge Design



PLAN
Scale : 1" = 20'

BM # 60.9 R.R. Spike in P.P. 140'± Lt. Sta. 61 ± ℄ Survey S/S McKinley Ave. Elev. 285.12

AS BUILT
CORRECTIONS BY D.E. CARLSON
CONTRACT NO. 55-61C4
DATE 12/1/55
J.A.C. 7/15/19



PROFILE
Scale : 1" = 10'

Note : No ground water was encountered in any of these borings.

CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS

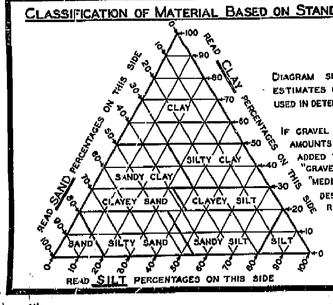


DIAGRAM SHOWING THE BASIS FOR ESTIMATES OF GRADE SIZE DISTRIBUTION USED IN DETERMINATION OF CLASS NAMES

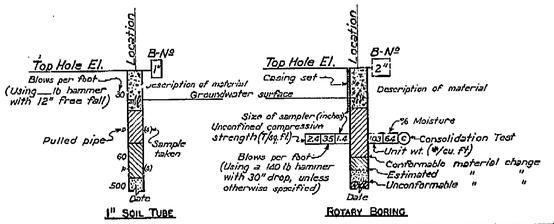
IF GRAVEL IS PRESENT IN APPRECIABLE AMOUNTS THE TERM "GRAVELLY" MAY BE ADDED TO THE CLASS NAME, VIS. "GRAVELLY SAND". THE TERMS "COARSE", "MEDIUM" AND "FINE" WHEN USED TO DESCRIBE GRAVEL, SAND AND SILT REFER TO STANDARD GRADE SIZE LIMITS.

LEGEND OF EARTH MATERIALS

- GRAVEL
- SAND
- SILT
- CLAY
- SANDY CLAY OR CLAYEY SAND
- SANDY SILT OR SILTY SAND
- SILTY CLAY OR CLAYEY SILT
- PEAT AND/OR ORGANIC CLAY
- FILLED MATERIAL
- IGNEOUS ROCK
- SEDIMENTARY ROCK
- METAMORPHIC ROCK

LEGEND OF BORING OPERATIONS

- PLAN OF ANY BORING
- PENETROMETER
- 2½" CONE PENETROMETER
- SAMPLER BORING (DRY)
- ROTARY BORING (WET)
- AUGER BORING (DRY)
- JET BORING
- CORE BORING
- TEST PIT



NOTES

THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 2, ARTICLE (c) OF THE STANDARD SPECIFICATIONS AND TO THE SPECIAL PROVISIONS ACCOMPANYING THIS SET OF PLANS.

CLASSIFICATION OF EARTH MATERIAL AS SHOWN ON THIS SHEET IS BASED UPON FIELD INSPECTION AND IS NOT TO BE CONSTRUED TO IMPLY MECHANICAL ANALYSIS.

PENETROMETER BORINGS HAVING A RATE OF PENETRATION MEASURED IN SECONDS PER FOOT ARE DRIVEN WITH A No 2 MCKIERNAN-TERRY AIR HAMMER AT 115 PSI.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

McKINLEY AVENUE UNDERCROSSING

LOG OF TEST BORINGS

SCALE: HORIZ. As Noted VERT. As Noted — BRIDGE 42-181 — FILE — DRAWING C-3411-10

PREL. DRAWING NO. P-3411 B 23

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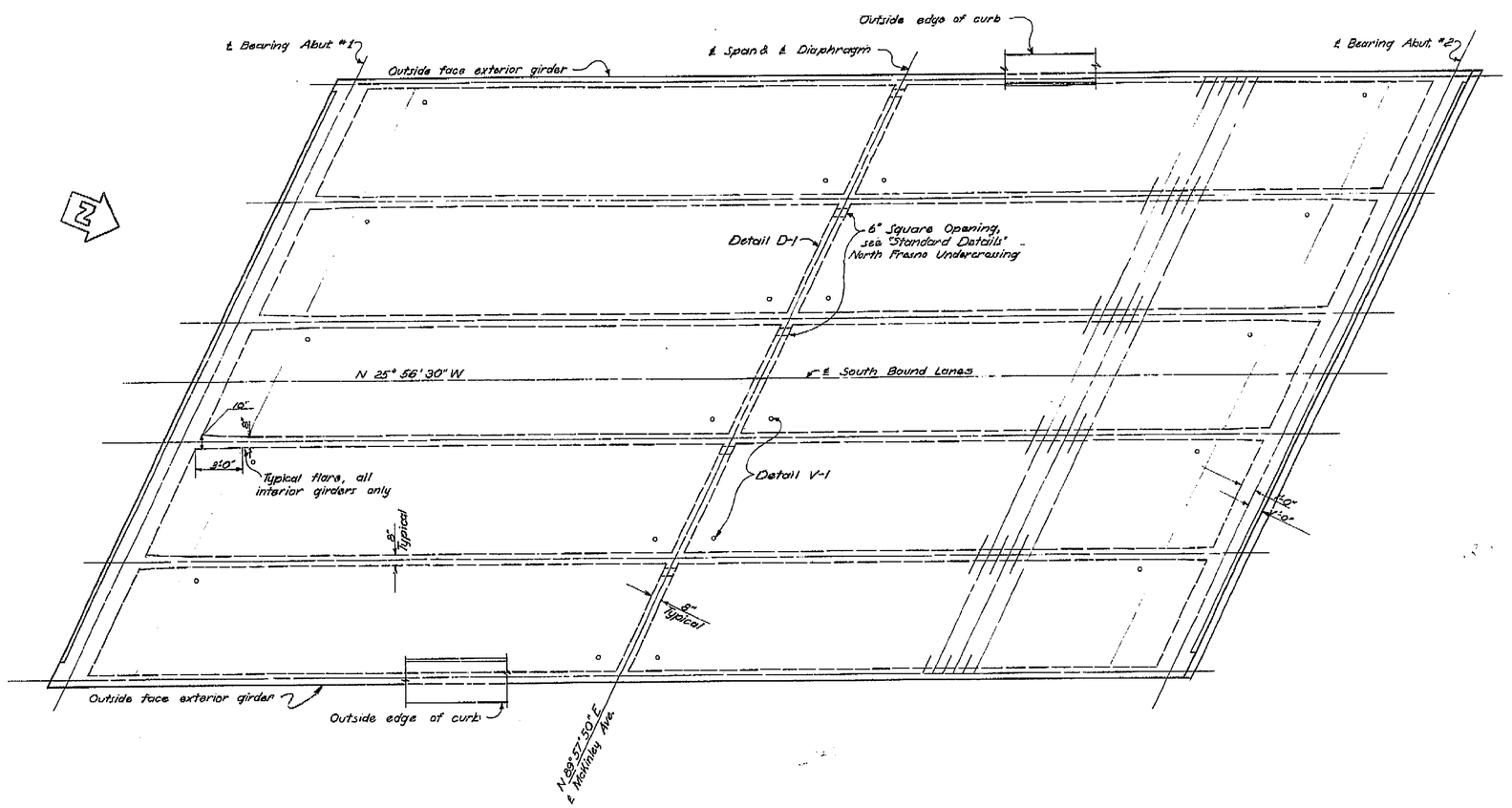
BRIDGE DEPARTMENT

FED. ROAD DIV. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.			114	167

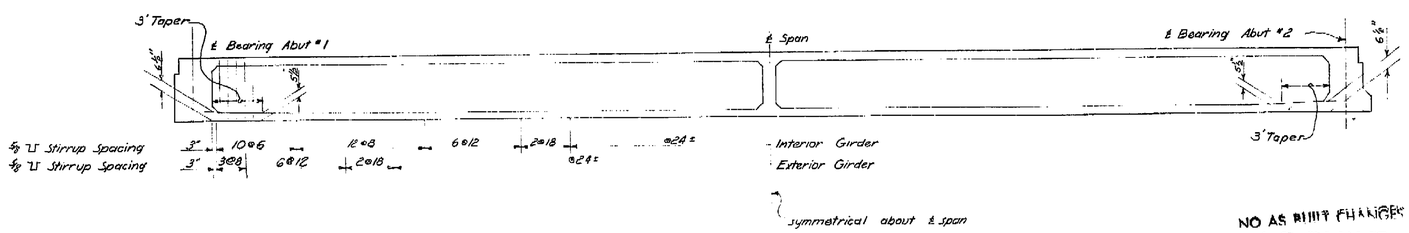
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre			7	10

Bridge Engineer — Registered Engineer — License No. 5313

DATE APPROVED April 26, 1954



GIRDER LAYOUT
Scale: ¼"=1'-0"



LONGITUDINAL SECTION
Scale: ⅛"=1'-0"

Note: Left structure shown, right structure is similar.

NO AS BUILT CHANGES
AS BUILT J.A.C. 7/13/79
CORRECTIONS BY D.E. CARLSON
CONTRACT NO. 55-61C4
DATE 12/1/55

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

McKINLEY AVENUE UNDERCROSSING

GIRDER LAYOUT

SCALE ¼"=1'-0" | BRIDGE 42-181 R/L | FILE | DRAWING C-3411-7

PREL. DRAWING NO. P-3411 11 24 24 36 25

Submitted by					
DESIGN	to AREF 11-33	Design HK 3/54			
QUANTITIES	to DAE 11-53	Design HK 2/55			
SPECIFICATIONS	to ATG 2-54	Design HK 2/55			
Approved for construction	by	Date	Checked	Date	Sheet 2,3,4,5,6,7,8,9,10 of 10 Sheets

DESIGN 7 SECTION

AS BUILT PLANS
Contract No. 55-61C4
Date Completed
Document No. 60000772

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.
DATE 1-29-80 SIGNED [illegible] TITLE SUPERVISOR OF MICROFILM SERVICES

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MICROFILM
SCALE 1"= 50' 0 200 400
SCALE 1"= 50' 600 700
SCALE 1"= 20' 0 50
SCALE 1"= 20' 100 50 200 50 300
ClibPDF - www.fastio.com

UI-0194(1)

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.			113	167

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	4	B	6	10

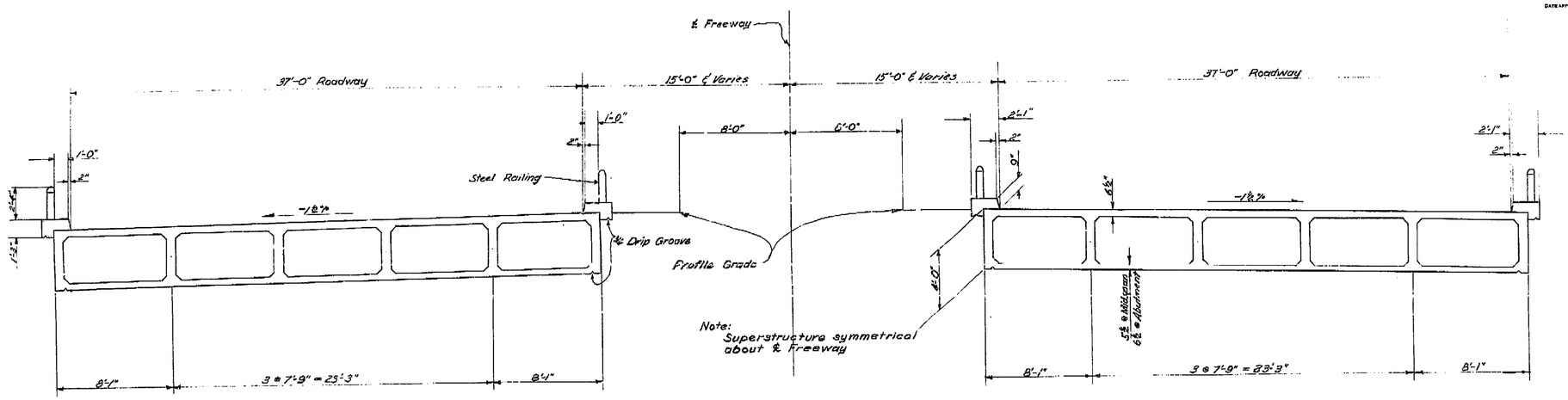
DATE APPROVED April 26, 1954

BRIDGE DEPARTMENT

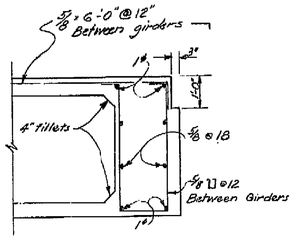
DESIGN 7 SECTION

Submitted by				
DESIGN	by REF	Checked HK	3/54	
DETAILS	by DGC	Checked HK	3/54	
QUANTITIES	by ETA	Checked DGC	2-54	
SPECIFICATIONS	by	Checked		

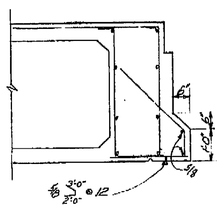
Approved Economical Design Plan Concrete Box Girder Bridge No. 1256 & 1268



TYPICAL SECTION
Scale: ½"=1'-0"

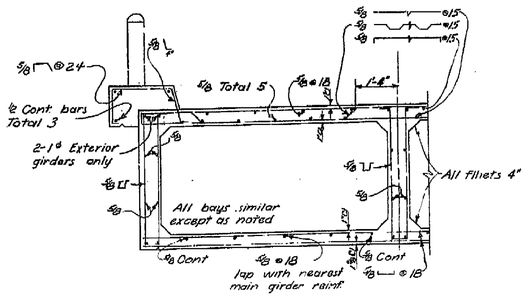


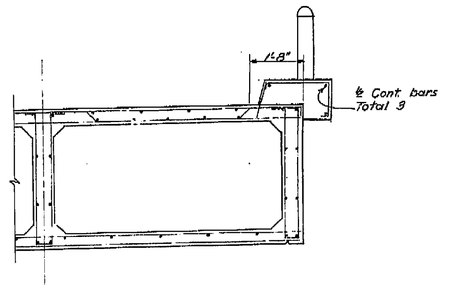
ABUTMENT 1



ABUTMENT 2

Note:
Similar to abut. "1" Except as shown





Note: All reinforcement not shown. See "Girder Reinforcement" sheet.

END DIAPHRAGMS
Scale: ½"=1'-0"

PART SECTION
Scale: ½"=1'-0"

AS BUILT
CORRECTIONS BY D.E. CARLSON J.A.C. 7/13/79
CONTRACT NO. 55-61C.4
DATE 12/1/55

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

McKINLEY AVENUE UNDERCROSSING

TYPICAL SECTION

Except as noted SCALE ½"=1'-0" | BRIDGE 42-181½ | FILE | DRAWING C-3411-6

PREL. DRAWING NO. P-3411 | 10 | 14 | 29 | 34

AS BUILT PLANS
Contract No. 55-61C.4
Date Completed
Document No. 20000792

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.
1-31-80 Joyce M. Cole SUPERVISOR OF RECORDS & SERVICES

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UT-0194(1)

FED. ROAD DIV. NO.	STATE	FED. AID PROJECT NO.
7	CAL.	

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	4		3	10

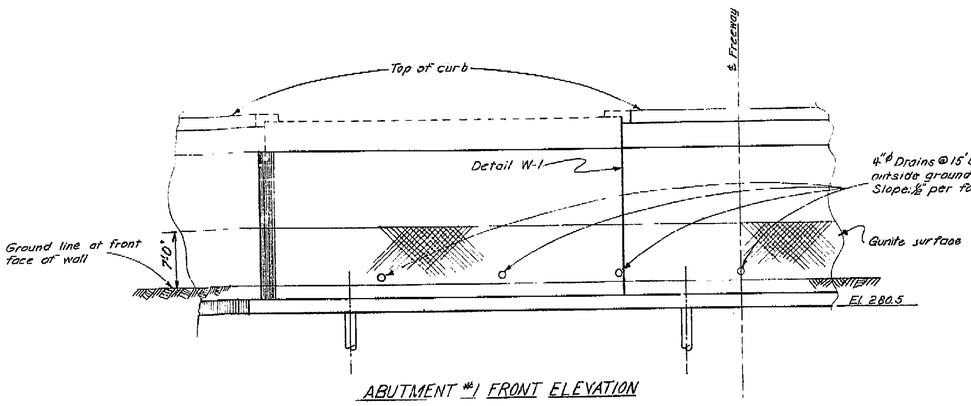
BUREAU ENGINEER

DATE APPROVED: April 26, 1954

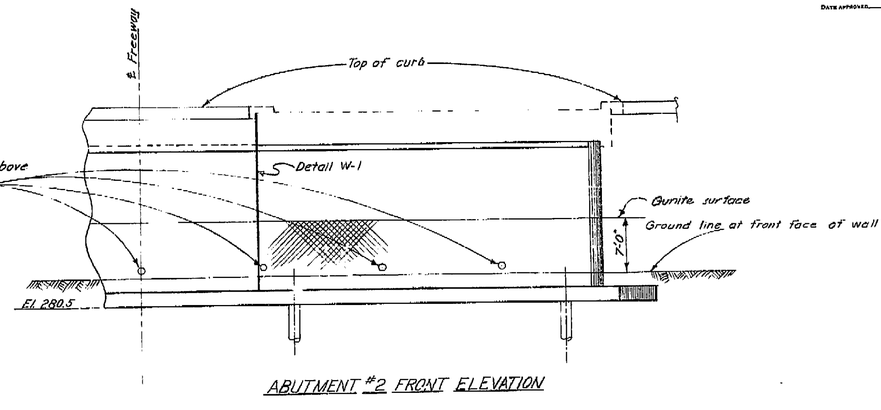
BRIDGE DEPARTMENT

DESIGN 7 SECTION

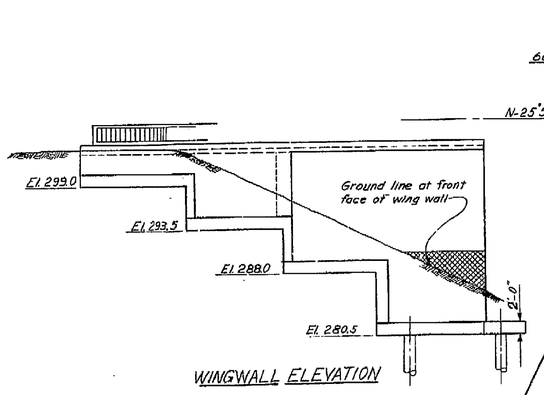
Designed by	D.E. Carlson	Dated	Nov. 1954
DESIGN	D.E.C.	Dated	Nov. 1954
DETAILS	D.E.C.	Dated	Nov. 1954
QUANTITIES	D.E.C.	Dated	Nov. 1954
SPECIFICATIONS	D.E.C.	Dated	Nov. 1954
Approved Recommended [illegible]			



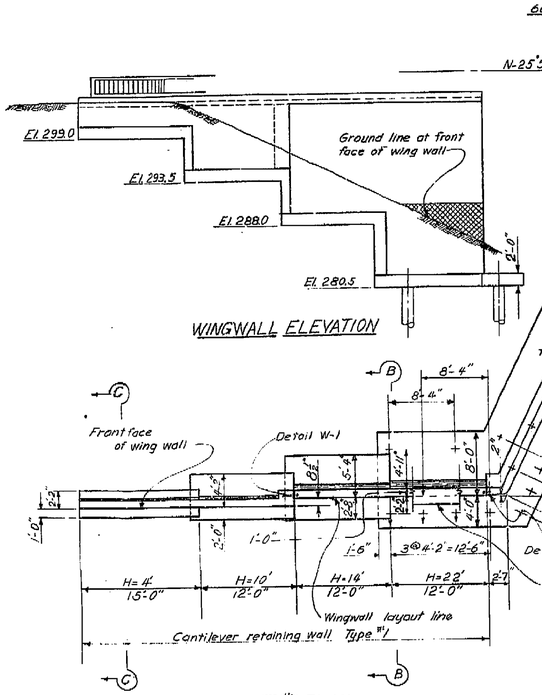
ABUTMENT #1 FRONT ELEVATION



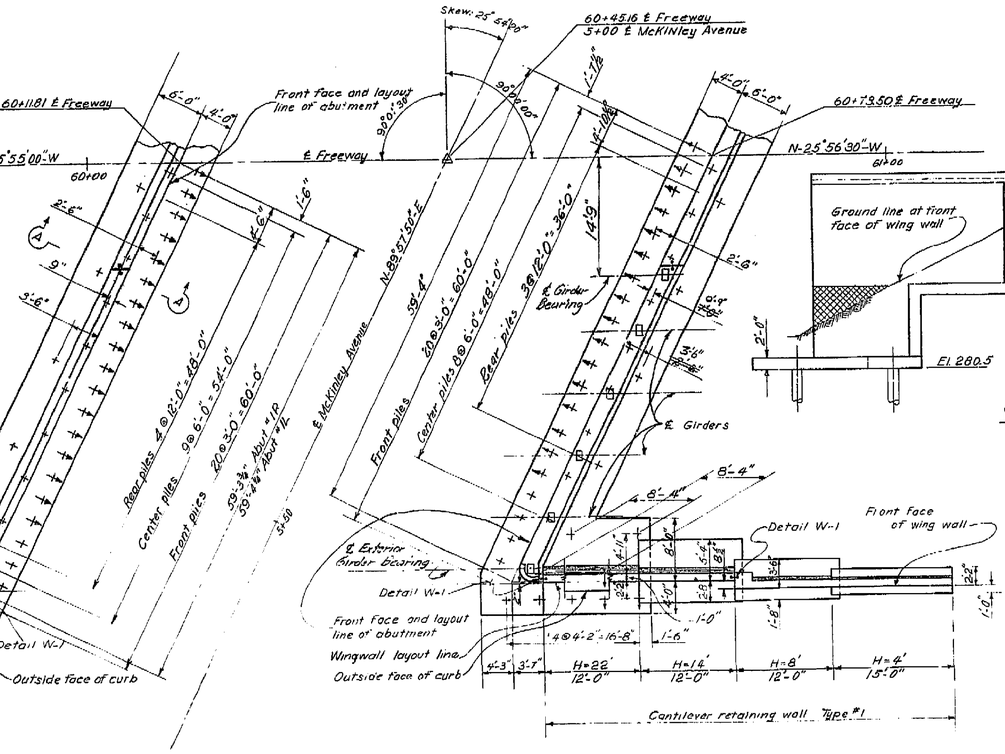
ABUTMENT #2 FRONT ELEVATION



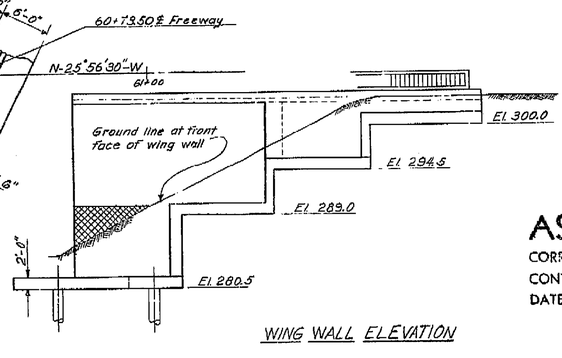
WINGWALL ELEVATION



ABUTMENT #1 PLAN



ABUTMENT #2 PLAN



WING WALL ELEVATION

AS BUILT

J.A.C. 7/12/79

CORRECTIONS BY D.E. CARLSON

CONTRACT NO. 55-617C4

DATE 12/1/55

Note: Abutment #1 left wing wall same as abutment #2 right wing wall.
Abutment #2 left wing wall same as abutment #1 right wing wall.
+ represents pile.
+ represents batter pile with 1:3 batter in direction of arrow.
For retaining wall details see North Fresno Undercrossing "Type 1 Cantilever Retaining Wall" sheet.
For bearing details see North Fresno Undercrossing "Miscellaneous Details" sheet.
Curb and rail should not be placed on wingwalls until backfill is completed.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

McKINLEY AVENUE UNDERCROSSING

ABUTMENT LAYOUT

SCALE 1/8" = 1'-0" | BRIDGE 42-181 R/L | FILE | DRAWING C-3411-3.

PREL. DRAWING NO. P-3411

AS BUILT PLANS
Contract No. 55-617C4
Date Completed
Document No. 20000292

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.
DATE 7-9-80 SIGNATURE [illegible] TITLE SUPERVISOR OF MICROFILM SERVICES

MICROFILMED

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MICROFILM
SCALE 1" = 50' 0 50 100 200 300 400 500 600
SCALE 1" = 50' 0 50 100
SCALE 1" = 20' 0 10 20 30 40 50 60 70 80 90 100 200 300
SCALE 1" = 20' 0 10 20 30 40 50 60 70 80 90
SCALE 1" = 40'

ClibPDF - www.fastio.com

UI-0194(1)

FED. ROAD DIV. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.			113	167

DIST	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre			4	10

DATE APPROVED April 26, 1954

BRIDGE DEPARTMENT

DESIGN 7 SECTION

	By	Date	Checked	By	Date
DESIGN	TF	1/53	Checked	HK	3/54
DETAILS	TF	1/53	Checked	HK	3/54
QUANTITIES	TF	1/53	Checked	DBS	2/54
SPECIFICATIONS	TF	1/53	Checked		

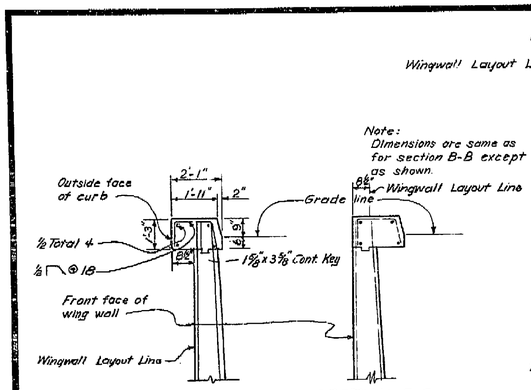
Submitted by [signature] Engineer in Charge

Approved Excepting as noted [signature] Bridge Engineer

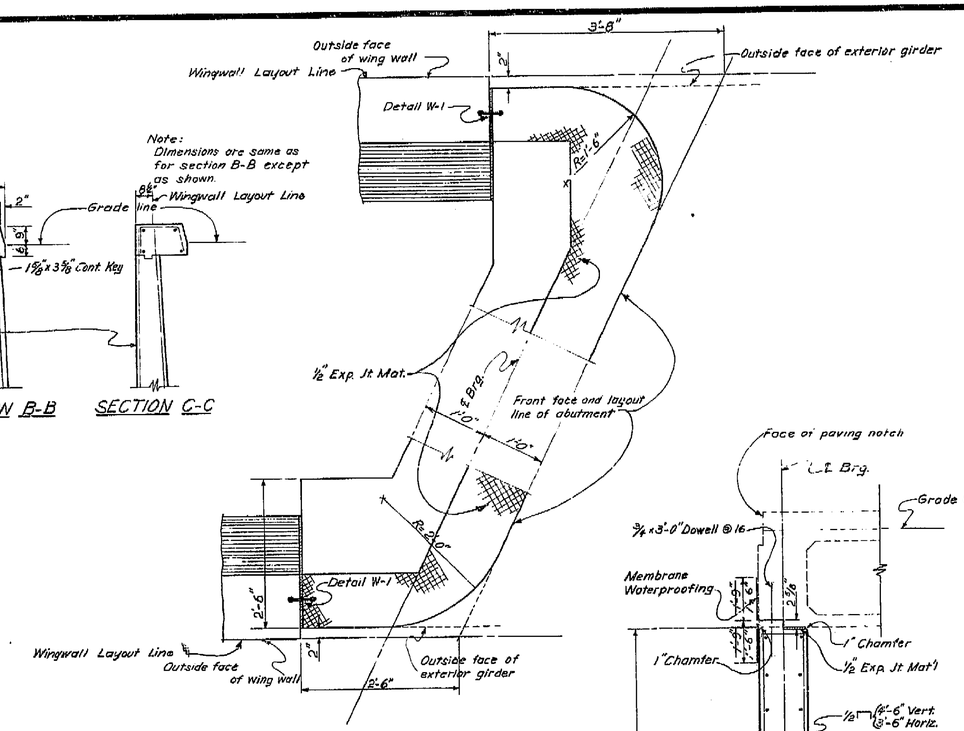
Approved [signature] Assistant Chief Engineer

Approved [signature] State Highway Engineer

Quantities 1836 x 36.6

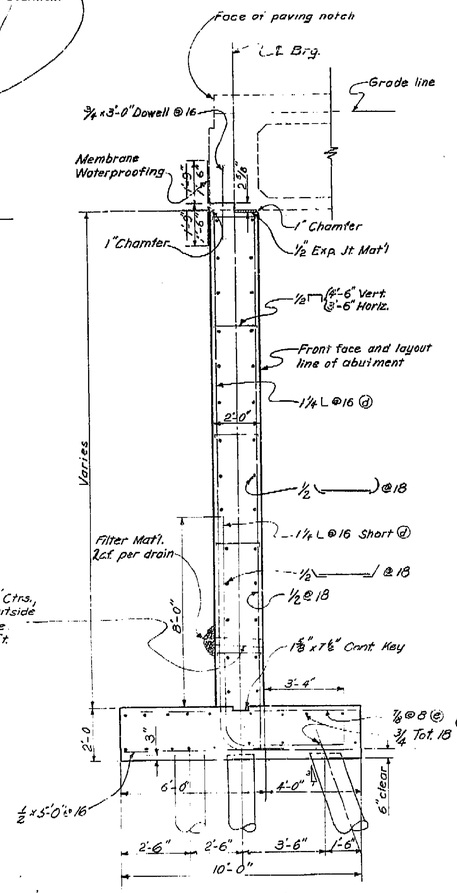


Note: Dimensions are same as for section B-B except as shown.

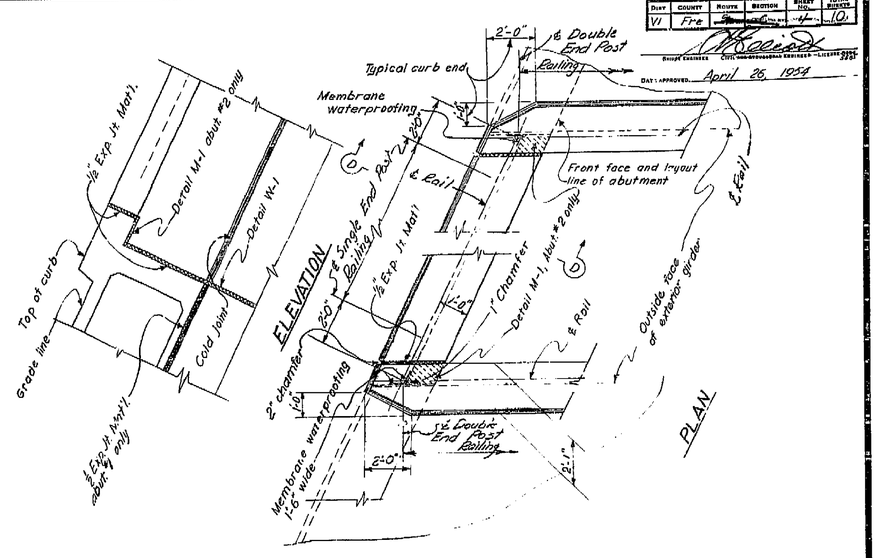


CORNER DETAILS
Scale: 1"= 1'-0"

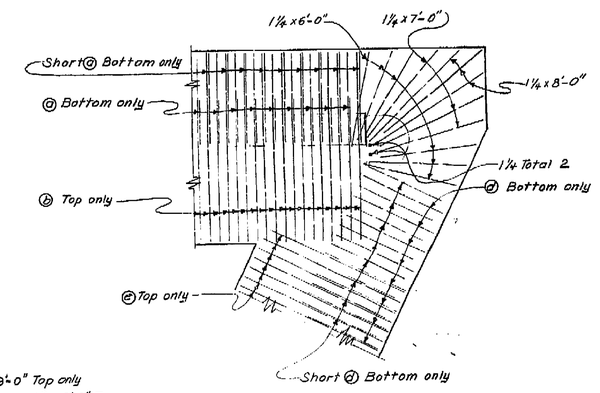
SECTION D-D

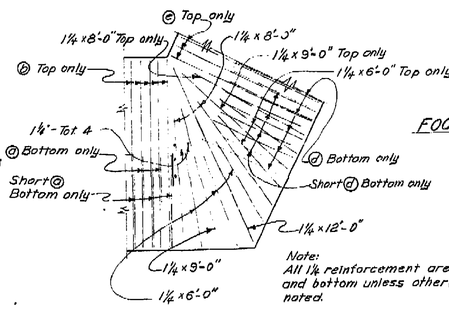


SECTION A-A



DETAIL OF PARAPET WALL
Abutment #1 shown, abutment #2 similar except as noted.





FOOTING REINFORCEMENT
Scale: ¼"= 1'-0"

Note: All 1¼ reinforcement are top and bottom unless otherwise noted.

AS BUILT
J.A.C.
CORRECTIONS BY D.E. CARLSON 7/17/59
CONTRACT NO. 55-6TC4
DATE 12/1/59

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

McKINLEY AVENUE UNDERCROSSING

ABUTMENT #1 DETAILS

Except as noted SCALE ⅜"= 1'-0" | BRIDGE 42-181 R/L | FILE | DRAWING B-3411

PREL. DRAWING NO. P-3411

AS BUILT PLANS
Contract No. 55-6TC4
Date Completed
Document No. 20000792

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.
12-30-80 Sarah M. Cox TITLE SUPERVISOR OF MICROFILM SERVICES

ClibPDF - www.fastio.com

MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF TRANSPORTATION – MICROFILM
SCALE 1"= 50' 400 600 SCALE 1"= 50' 0
SCALE 1"= 20' 100 50 SCALE 1"= 20' 200 50 300
MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF TRANSPORTATION – MICROFILM

UT-0194(1)

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FEDERAL AID NO.	SHEET NO.	TOTAL SHEETS
7	CAL.			112	167

DIST.	COUNTY	ROUTE	SECT.	SHEET NO.	TOTAL SHEETS
V	Fre			5	10

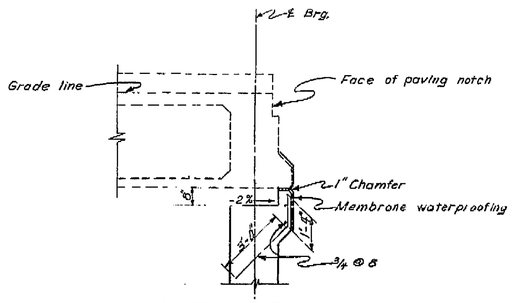
BRIDGE ENGINEER — CIVIL ENGINEERING SERVICES — LICENSE 2787

DATE APPROVED April 26, 1954

BRIDGE DEPARTMENT

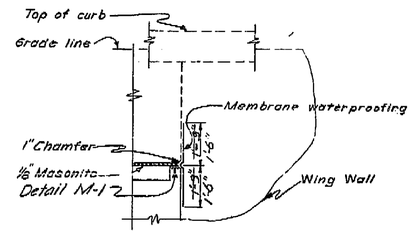
DESIGN 7 SECTION

Submitted for Approval					
DESIGN	By EFF 11-53	Checked	HR 2/54		
DETAILS	By EFB 12-53	Checked	HR 2/54		
QUANTITIES	By EFB 2-54	Checked	HR 2/54	Estimate No. 2.34	
SPECIFICATIONS	By EFB 2-54	Checked	HR 2/54	Estimate No. 2.34	
Approved Recommended for Approval				Bid Tabulation 1856 + 368	
				Design Data	



SECTION E-E

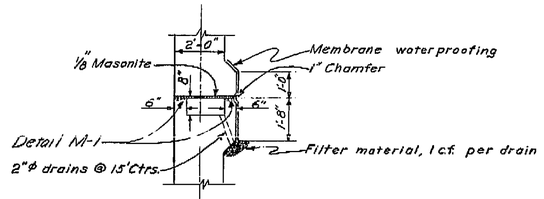
Note: For wall steel see section A-A Abutment #1 Details



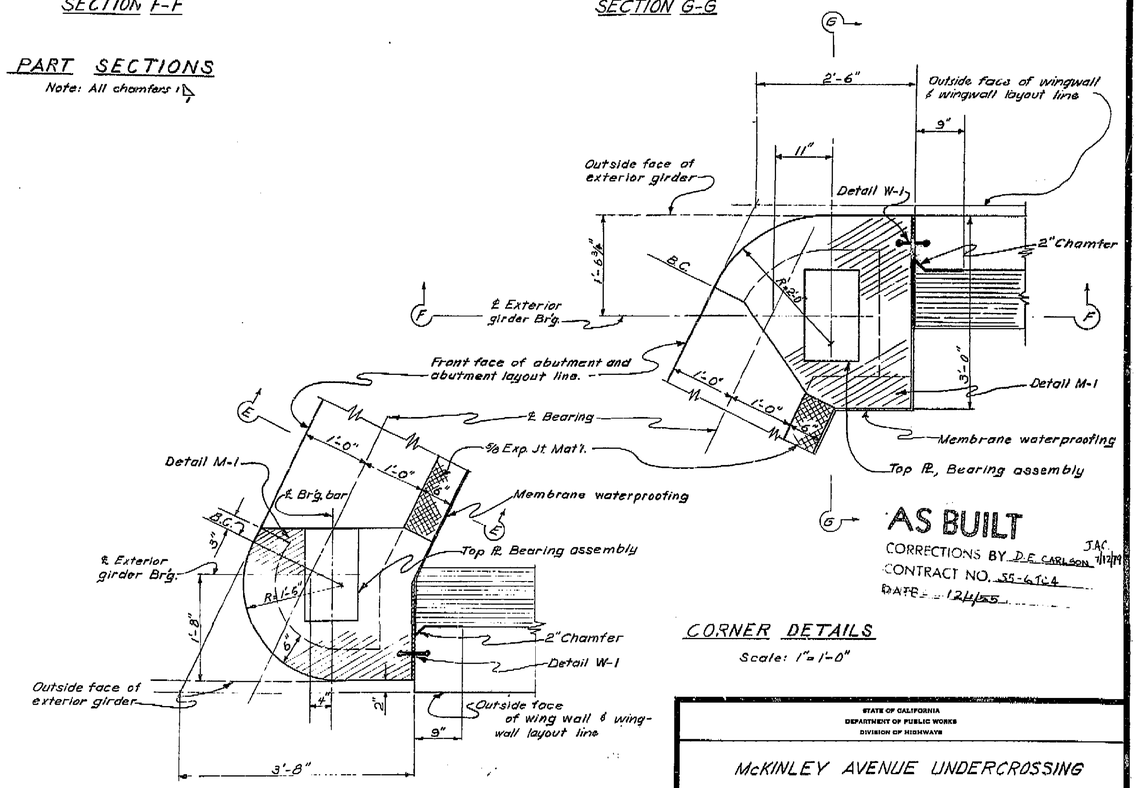
SECTION F-F

PART SECTIONS

Note: All chamfers 1"



SECTION G-G



AS BUILT

CORRECTIONS BY D.E. CARLSON JAC 7/17/59

CONTRACT NO. 55-6TC4

DATE 12/1/55

CORNER DETAILS

Scale: 1"=1'-0"

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

McKINLEY AVENUE UNDERCROSSING

ABUTMENT #2 DETAILS

Except as Noted SCALE 3/8"=1'-0"	BRIDGE 42-181-R/L	FILE	DRAWING C-3111-6

PREL. DRAWING NO. P-3411 8 18

AS BUILT PLANS
Contract No. 55-6TC4
Date Completed
Document No. 60000-977

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE AS BUILT DRAWING AND THAT ANY VARIATIONS FROM THE ORIGINAL PLANS WERE MADE IN ACCORDANCE WITH INSTRUCTIONS AND DIRECTIONS GIVEN BY THE ENGINEER OR HIS AUTHORIZED REPRESENTATIVE.

AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION

DATE 12-31-59 Sept. 60 6 SUPERVISOR OF CONSTRUCTION SERVICES

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UI-0194(1)

FED. ROAD DIV. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
7	CAL.			115	167

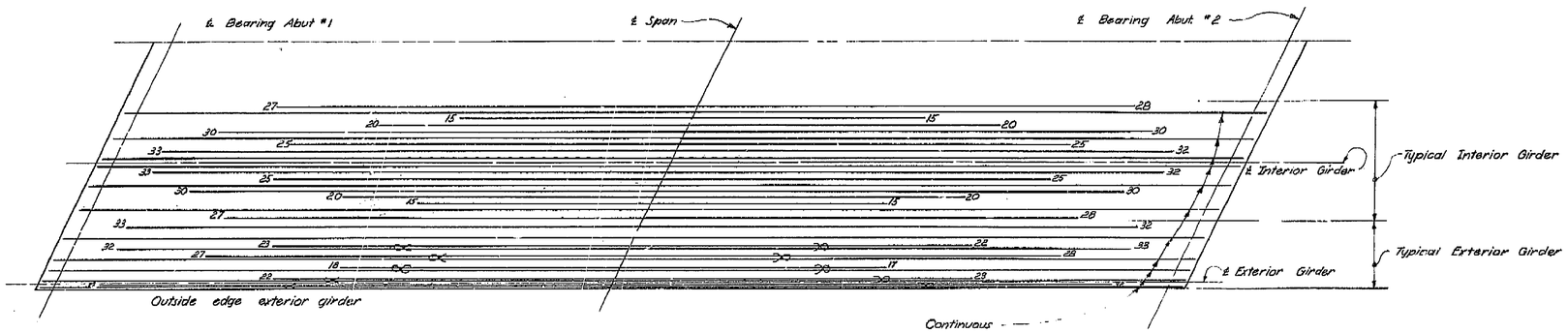
DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	Fre			8	10

DATE APPROVED April 26, 1954

BRIDGE DEPARTMENT

DESIGN 7 SECTION

Submitted by:		Date	Checked	
DESIGN	E. REF	11-53	Checked	MK 7/54
DETAILS	E. DAS	11-53	Checked	MK 2/55
QUANTITIES	E. GD	2-54	Checked	DAS 2-54
STRUCTURE REVIEW			Checked	
Approved Recommended for approval			Engineer of Bridges	No. Sheets Inc. 55 to 248



BOTTOM REINFORCEMENT

Note:
All bars 1¼.
Numbers at end of bars indicate distance in feet from ℄ span.
Bundled bars (2 per bundle) are shown thus ═o═

NO AS BUILT CHANGES

AS BUILT
CORRECTIONS BY D.E. CARLSON
CONTRACT NO. 55-617404
DATE 12/1/55

J.A.C. 7/12/79

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

McKINLEY AVENUE UNDERCROSSING

GIRDER REINFORCEMENT

SCALE ½"=1'-0" | BRIDGE 42-181½ | FILE | DRAWING C-3411-8

PREL. DRAWING NO. P-3411 12 2X

AS BUILT PLANS
Contract No. 55-617404
Date Completed
Document No. 62620-77½

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THE DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.
DATE 1-14-80 SIGNED [illegible] TITLE SUPERVISOR OF MICROFILM SERVICES

ClibPDF - www.fastio.com

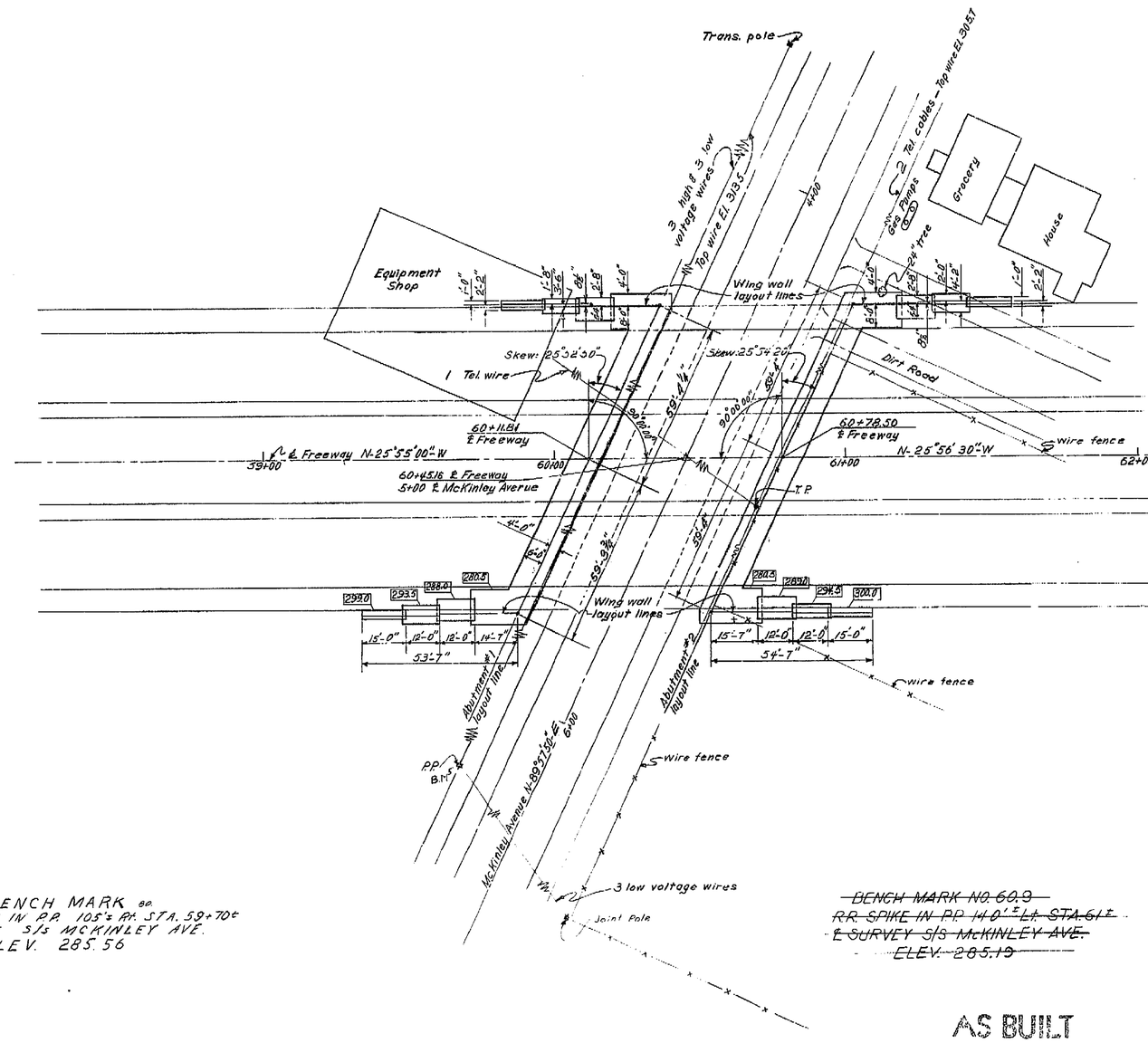
UI-0194(1)

FED. ROAD DIV. NO.	STATE	
7	CAL.	

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	[illegible]	[illegible]	2	10

BRIDGE ENGINEER — CIVIL ENGINEER — TENNESSEE 3885

DATE APPROVED April 28, 1954



GENERAL NOTES

SPECIFICATIONS:

DESIGN: A.A.S.H.O. DATED 1953 WITH SUBSEQUENT REVISIONS, AND BRIDGE DEPARTMENT SUPPLEMENT DATED 1953.

CONSTRUCTION: STANDARD SPECIFICATIONS, DIVISION OF HIGHWAYS, DATED JANUARY 1949 AND THE SPECIAL PROVISIONS.

LIVE LOADING: H20-S16-44

UNIT STRESSES:

REINFORCED CONCRETE: f_s = 20,000 P.S.I., f_c = 1250 P.S.I., N = 10

PILE LOADING: 32 TONS. TYPE: CONCRETE

REINFORCEMENT: EMBEDMENT IS CLEAR TO OUTSIDE OF BAR AND IS 2" TO MAIN REINFORCEMENT, EXCEPT AS NOTED. BACKING FOR HOOKS IS FOUR DIAMETERS, EXCEPT AS NOTED.

BAR AREAS ARE BASED ON ROUNDS FOR LESS THAN 1" AND SQUARES FOR OVER 1".

WHERE REINFORCING BARS ARE SPLICED THEY SHALL HAVE A 20 DIAMETER LAP UNLESS OTHERWISE CALLED FOR ON THE PLANS.

FOOTING PRESSURE: WINGWALLS ONLY 2 1/2 TONS P.S.F.

AS BUILT
CORRECTIONS BY: _____
CONTRACT NO. _____
DATE _____

Note:
Piles not shown
Bottom of footing Elev. shown thus 280.0
Abutment #2 left wing wall same as abutment #1 right wing wall.
Abutment #1 left wing wall same as abutment #2 right wing wall.
Abutment #2 similar to abutment #1 except as noted.
Existing ground line approximately 254.8

BENCH MARK no.
RR SPIKE IN PP 105'± Rt. STA. 59+70±
℄ SURVEY S/S McKINLEY AVE.
ELEV. 285.56

~~BENCH MARK NO. 609~~
~~RR SPIKE IN PP 140'± Lt. STA. 61±~~
~~℄ SURVEY S/S McKINLEY AVE.~~
~~ELEV. 285.19~~

AS BUILT
CORRECTIONS BY D. E. SABLSON
CONTRACT NO. 55-6T.C4
DATE 12/1/55

J.A.C. 7/13/79

DESIGN 7 SECTION

Submitted:	Date	Engineer	Hrs.	Checked	Date	Hrs.
DESIGN	2-54	REF	40	Chkd	11/3	24
DETAILS	2-54	E.T.B.	240	Chkd	11/3	24
QUANTITIES	2-54	E.T.B.	24	Chkd	11/3	24
SPECIFICATIONS				Checked		
Approx. Accounting Data		Est. Labor Hrs.	556	Act. Labor Hrs.		868

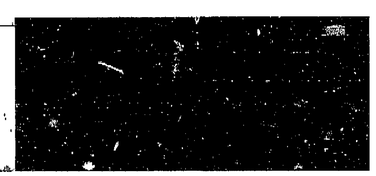
STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

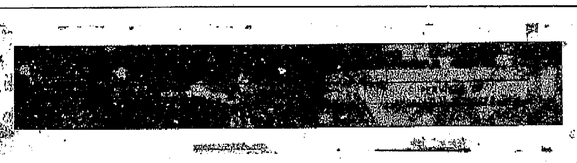
McKINLEY AVENUE UNDERCROSSING

FOUNDATION PLAN

SCALE 1"=20'-0" | BRIDGE 42-181 R/L | FILE | DRAWING B-3411-2

PREL. DRAWING NO. P-3411 | 16 | 25 | 26 | 31





MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MICROFILM — SCALE 1"=20'

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California Department of Transportation
Division of Maintenance

Structure Maintenance and Investigations

BRIDGE

INSPECTION

RECORDS

INFORMATION

SYSTEM

The requested documents have been generated by BIRIS.

These documents are the property of the California Department of Transportation and should be handled in accordance with Deputy Directive 55 and the State Administrative Manual.

Records for “Confidential” bridges may only be released outside the Department of Transportation upon execution of a confidentiality agreement.

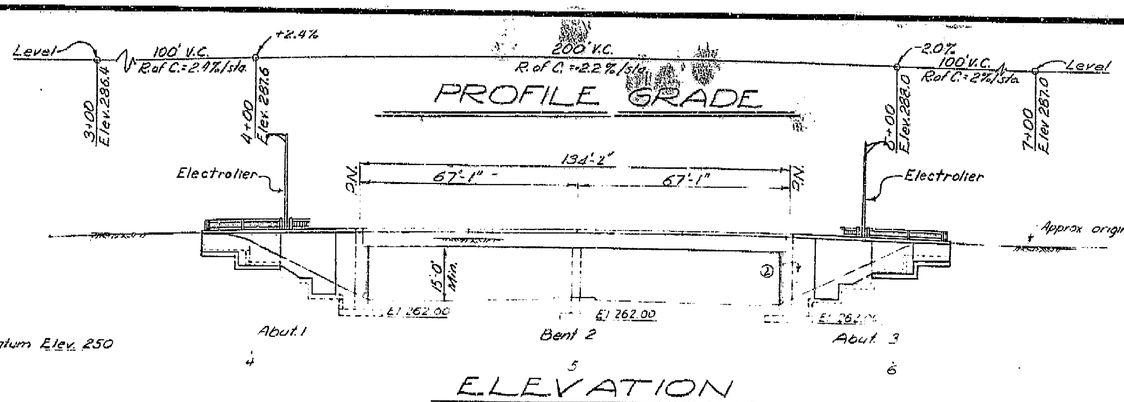
FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
7	CALIF.				

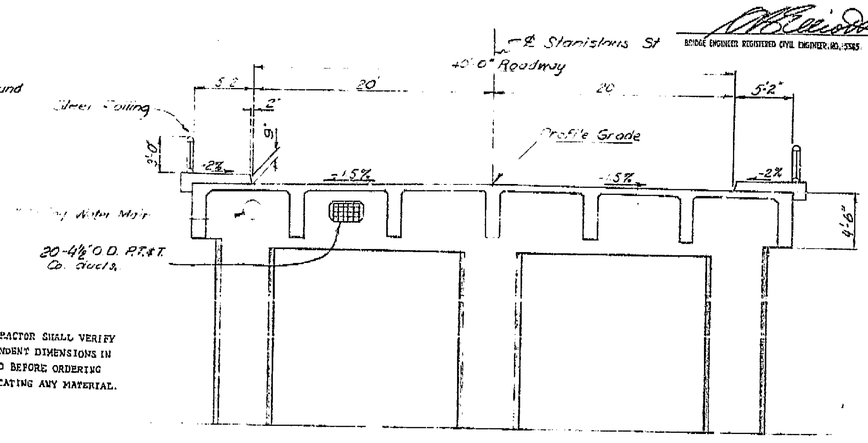
DIST.	COUNTY	ROUTE	SECTION		TOTAL SHEETS
06	Fre	99	20.0/22.0	87	89

ASST. STATE HWY ENGR. & CIVIL ENGINEER—DISTRICT VI

DATE APPROVED February 23, 1965

BRIDGE ENGINEER REGISTERED CIVIL ENGINEER, NO. 5585

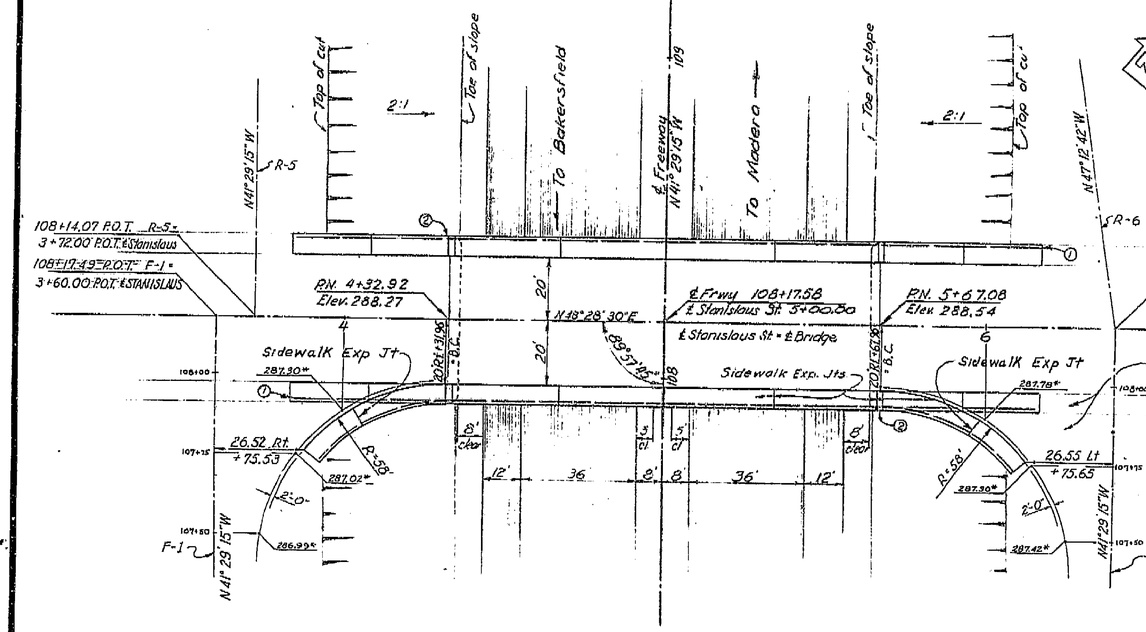




NOTE:
THE CONTRACTOR SHALL VERIFY ALL DEPENDENT DIMENSIONS IN THE FIELD BEFORE ORDERING OR FABRICATING ANY MATERIAL.

TYPICAL SECTION

3/16" = 1'-0"



PLAN

1" = 20'

① Paint Br. No. & Date
② Paint "Stanislaus St." Br. No. & Date

INDEX TO PLANS

Sheet No.	Title
1.	General Plan
2.	Foundation Plan
3.	Construction Details

For the following sheets see Tuolumne St. O.C., Br. 42-171 :
Type 1-A Retaining Wall
Steel Railing

APPROXIMATE QUANTITIES

REMOVING PORTIONS OF BRIDGE	LUMP SUM
*STRUCTURE EXCAVATION (BRIDGE)	110 C.Y.
*STRUCTURE BACKFILL (BRIDGE)	100 C.Y.
*CLASS "A" CONCRETE (BRIDGE)	62 C.Y.
*BAR REINFORCING STEEL (BRIDGE)	7,000 LBS.
STEEL BRIDGE RAILING	102 L.F.
DRILLING AND GROUTING DOWELS	100 EA.

*FINAL QUANTITIES

AS BUILT
CORRECTIONS BY
CONTRACT NO.
DATE

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PLANS DATED 11/12/1965, AS SUBMITTED BY RESIDENT ENGINEER R.C. Anderson
DRAWINGS CORRECTED BY: [illegible] DATE: 1/7/65

AS BUILT PLANS
Contract No. 06-132004
Date Completed 12-10-65
Document No. 6005220

For General Notes see "Foundation Plan" sheet

BRIDGE DEPARTMENT					
DESIGN SECTION 1					
Project Designer: A. Hruzd					
Chief Designer: George A. Linwood					
DESIGN	By: H. Hruzd	3/64	Checked: Bill Jones	4/64
DETAILS	By: H. Hruzd	3/64	Checked: Bill Jones	4/64
QUANTITIES	By: H. Hruzd	4/64	Checked: M.G. Shalock	4/64
SPECIFICATIONS	By: [illegible]	4/64	Date Sent to Engineer:	
Approved for Preparation: [illegible]			Date Approved:	5-4-65

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

STANISLAUS STREET OVERCROSSING (ALTERATION)

LOCATED AT THE EXISTING INTERSECTION OF "O" AND STANISLAUS STREETS IN THE CITY AND COUNTY OF FRESNO

GENERAL PLAN

SCALE	BRIDGE	FILE	DRAWING
AS NOTED	42-172		42172-1

W.O. 6Z-06T10H0320.0

PREL. DRAWING No. P 12/64

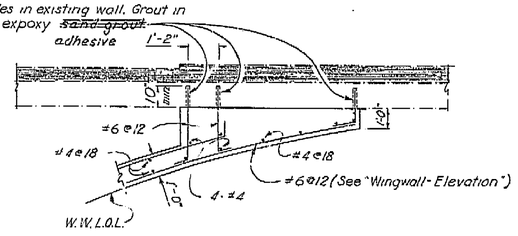
ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

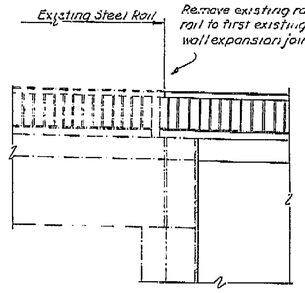
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
06	FRE	99	20.0/21.0	89	89

DATE APPROVED: February 23, 1965

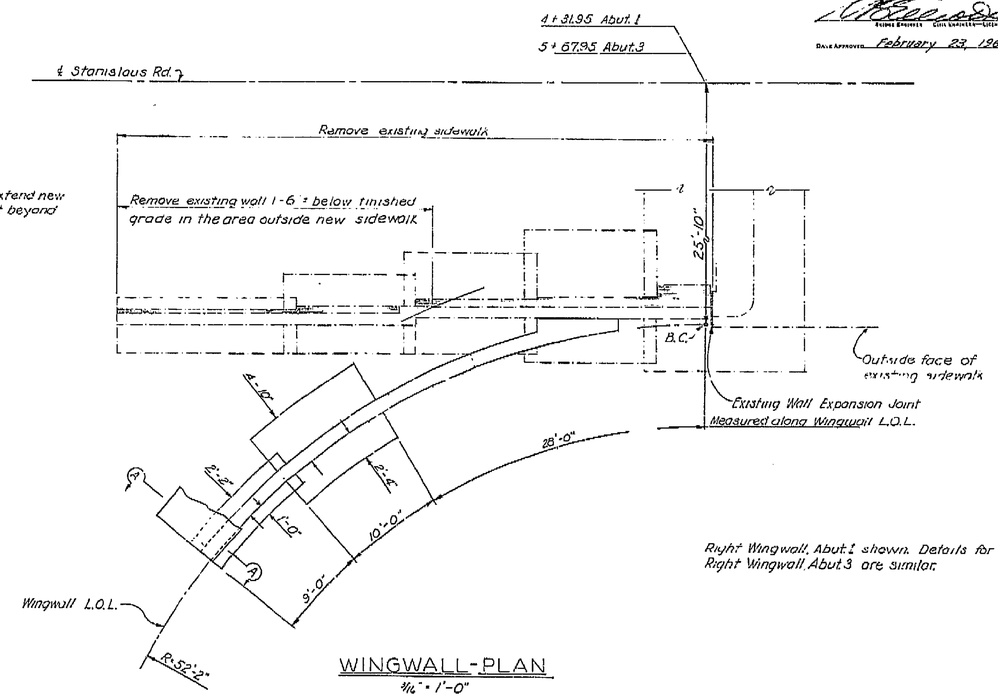
1" Drill 1¼" holes in existing wall. Grout in reinf with expoxy ~~sand grout~~ adhesive



WALL DETAIL
⅜" = 1'-0"

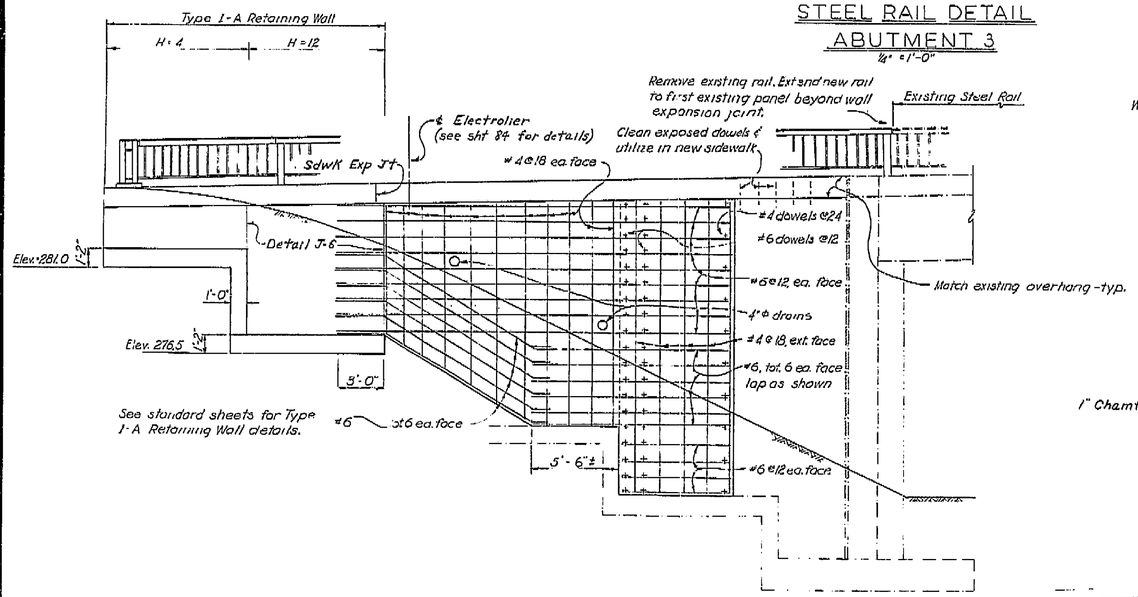


STEEL RAIL DETAIL
ABUTMENT 3
½" = 1'-0"

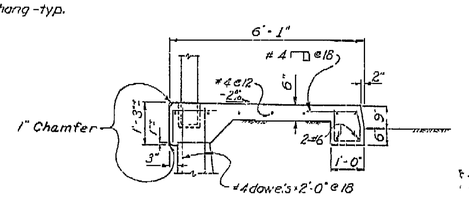


Right Wingwall, Abut.1 shown. Details for Right Wingwall, Abut.3 are similar.

WINGWALL - PLAN
⅜" = 1'-0"



WINGWALL - ELEVATION
¼" = 1'-0"



SECTION A-A
½" = 1'-0"

Note:
—— — Denotes existing structure

AS BUILT PLANS
Contract No. 06-032004
Date Completed 12-10-65
Document No. 60000020

BRIDGE DEPARTMENT DESIGN SECTION 1			
Section Supervisor: Glenn A. Hood Jr.			
DESIGN	By: A. Amini		4/64
	Checked: Earl Jones		4/64
DETAILS	By: H. Ahmadi		4/64
	Checked: Earl Jones		4/64
QUANTITIES	By: H. Ahmadi		4/64
	Checked: Jack Hekel		4-64

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

STANISLAUS STREET OVERCROSSING (ALTERATION)

CONSTRUCTION DETAILS

SCALE AS NOTED	BRIDGE 42-172	FILE	DRAWING 42/172-3

Disregard prints bearing earlier revision dates →

PRELIMINARY DRAWING No.	REVISION DATES
D-P-5-1	

89

FED. ROAD DIV. NO.	STATE	P. A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	BRIDGE NO.	TOTAL SHEETS
06	Fre.	99	12R0/12N0	88	89

ENGR. ENGINEER — CIVIL ENGINEER — LICENSE NO.

DATE APPROVED: February 23, 1965

TO MADERA

ONE WAY STREET (PMS)

EXIST BR # 42-172 (PCC Deck)

"℄ STANISLAUS ST" 5+00.00 POT

"℄ FREEWAY" 108+17.68 POT

"℄ STANISLAUS ST"

N 48° 29' 30" E

25'-10" Rt. +31.96

25'-10" Rt. +67.96

105.7

B.C.

PCC S.W.

0.0 denotes bottom of footing elev.

For details not shown see Abut. 3

Wingwall L.O.L. (New)

3LV to grd

PMS PARKING AREA

28'-0"

276.5

281.0

2'-4"

10'-0"

1'-10"

1'-0"

2'-2"

9'-0"

Dimensions measured along Wingwall L.O.L.

R=52'-2"

Wingwall L.O.L (New)

PMS

PCC Gutter

(PMS)

"℄ FREEWAY" (ROUTE 4)

N 21° 29' 15" W

TO BAKERSFIELD

BM "E"
Fd-RR spike in PP 30' Lt
Stanislaus 2-92
EL 287.55

BM "G"
Fd-RR spike in PP 30' Lt
Stanislaus 6-92 riven flush w/pole
EL 287.81

LEVEL DATUM: "AS BUILT"
FOR ALIGNMENT TIE: SEE "AS BUILT"
CONTOURS AS OF: 10-63
SITE PLAN TO SUPPLEMENT DISTRICT DATA.
SURVEY BY: EGN. DATE 10-63
DRAWN BY: CHD DATE 10-63
TRACED BY: JS DATE 10-21-63

NOTE: Elev on bridge are on PCC

GENERAL NOTES

DESIGN: A.A.S.H.O. DATED 1961 WITH REVISIONS AND AS SUPPLEMENTED BY BRIDGE PLANNING AND DESIGN MANUAL.

LIVE LOADING: H20-S16-44 AND ALTERNATIVE

REINFORCED CONCRETE: FS = 20,000 P.S.I., N = 10

FC = 1,200 P.S.I.

AS BUILT PLANS
Contract No. 06-032004
Date Completed 12-10-65
Document No. 60000020

BRIDGE DEPARTMENT
DESIGN SECTION
Section Supervisor: Glenn A. Woodard

DESIGN	By	H. Hinze	4/64
	Checked	Bill Stones	4/64
DETAILS	By	H. Hinze	4/64
	Checked	Bill Stones	4/64
QUANTITIES	By	H. Hinze	4/64
	Checked	Jack Fuller	4-64

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

STANISLAUS STREET OVERCROSSING (ALTERATION)

FOUNDATION PLAN

SCALE 1" = 10' | BRIDGE 42-172 | FILE E-12 | DRAWING 42172-2

FED. DRAWING NO. P.A. 8/64

PR 42172-1

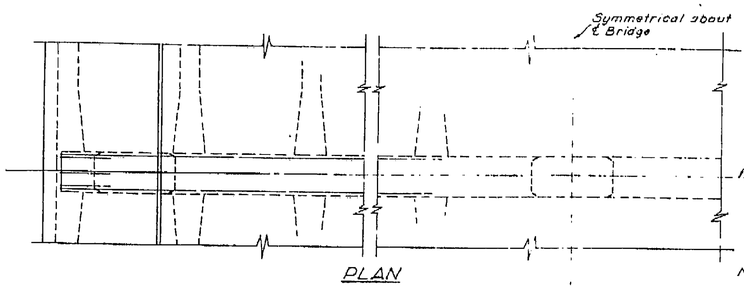
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ClibPDF - www.fastio.com

FED ROAD DIV NO	STATE	PROJ NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
7	CALIF			133	147

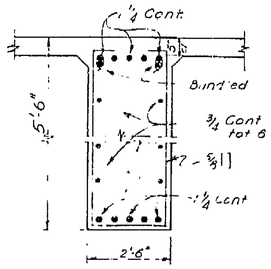
DIST	COUNTY	ROUTE	SECTION	SHEET NO	TOTAL SHEETS
VI	FRE	4	FRE	6	11

Date approved December 27, 1955

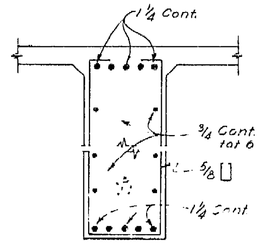


PLAN

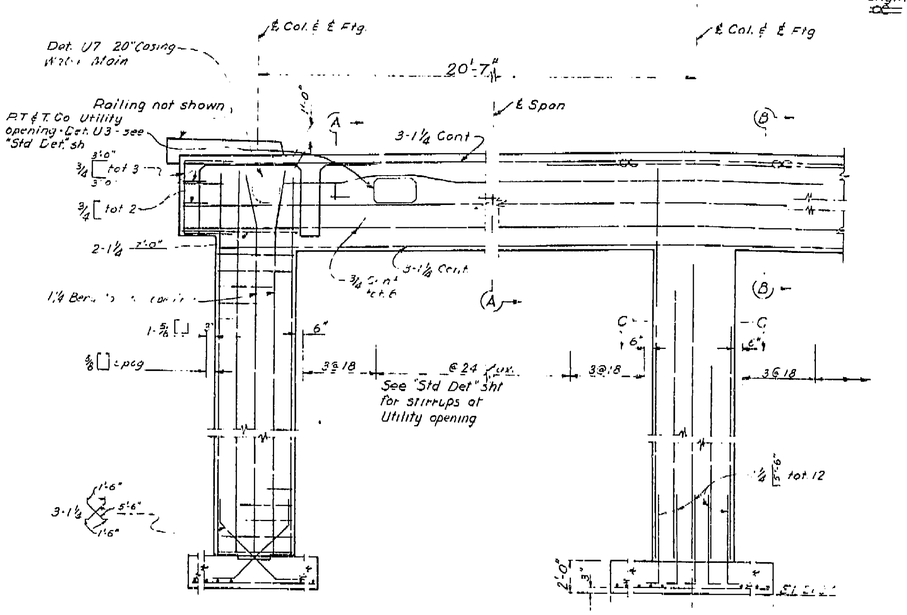
NOTE:
All bars 1¼ unless otherwise called for. Numbers at ends of bars indicate length from ℄ span or ℄ column.
⊏⊐ indicates bundled bars.



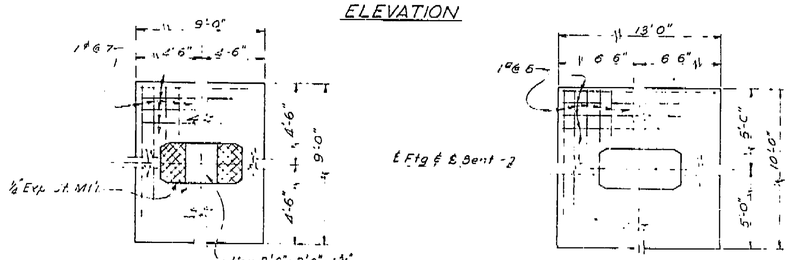
SECTION B-B
Scale: ½"=1'-0"



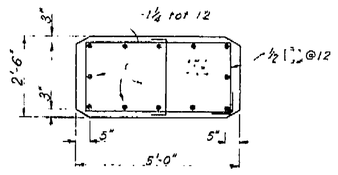
SECTION A-A
Scale: ½"=1'-0"



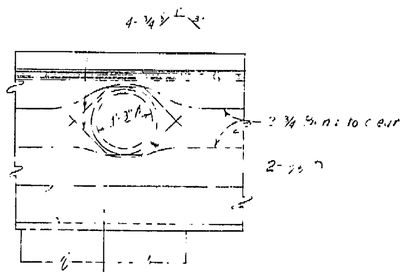
ELEVATION



FOOTINGS

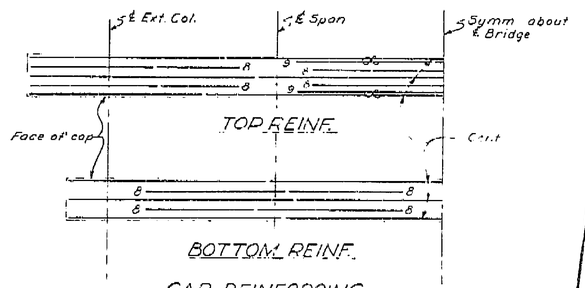


SECTION C-C
Scale ½"=1'-0"



Bent reinf

BENT CAP DETAIL
Scale: ½"=1'-0"



CAP REINFORCING
No Scale

AS BUILT
DATES 3-57 BY [illegible]

AS BUILT PLANS
Contract No. 56-67C2
Date Completed
Document No. 6000098?

BRIDGE DEPARTMENT		STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS
DESIGN SECTION 8		STANISLAUS STREET OVERCROSSING
Project Designer W. F. Johnson 4-55		BENT 2
Chief Designer [illegible]		
DESIGN W. F. Johnson 3-55	Checked [illegible] 5-55	As Noted 2nd SCALE ½"=1'-0" BRIDGE 42-172 FILE DRAWING C-4098-6
DETAILS [illegible] 5-55	Checked [illegible] 5-55	
QUANTITIES [illegible] 5-55	Checked [illegible]	
SPECIFICATIONS [illegible]		
Approved for submittal W. F. Johnson	Date 5-5-55	

PREL. DRAWING No. P- 4C98

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

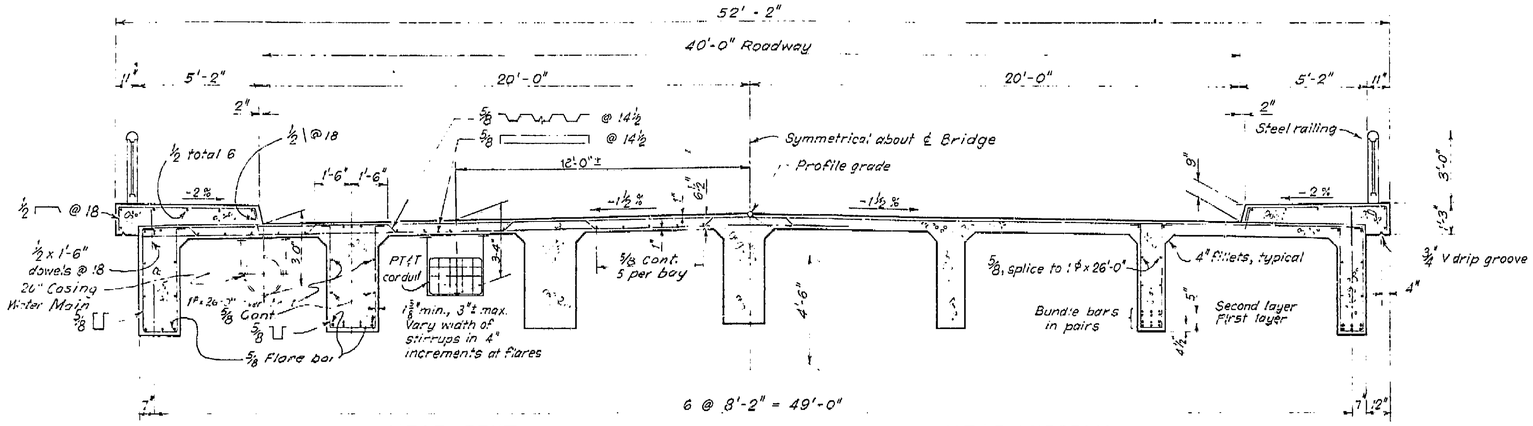
DATE June 3 1971 SIGNATURE [illegible] TITLE Highway Transportation Engineer

ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			135	147

DIST	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	4	FRE	8-11	

DATE APPROVED December 27, 1955

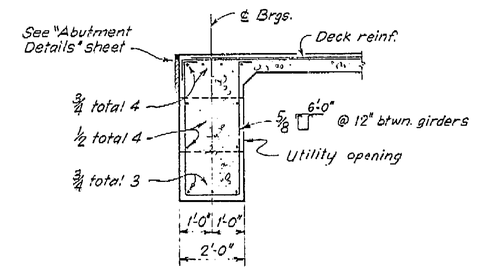


Note:
All utility lines & hangers to be placed by others.

NEAR BENT — NEAR MIDSPAN

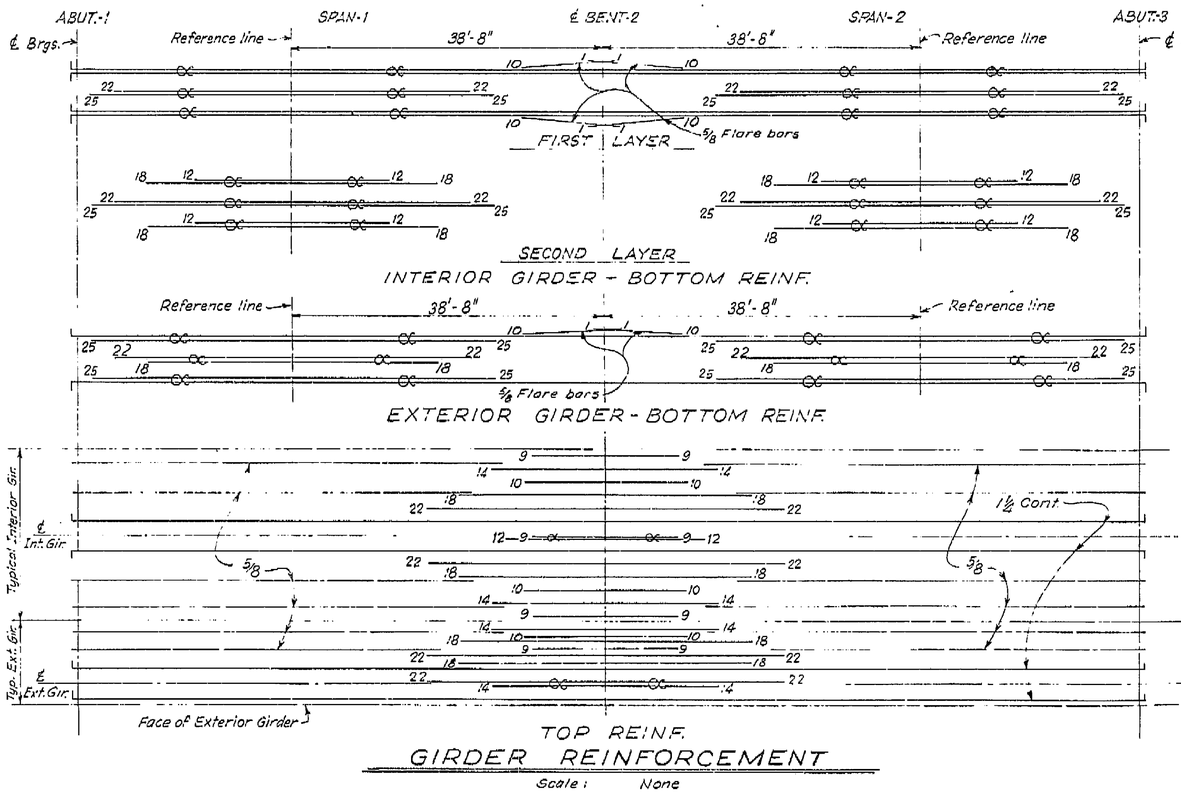
TYPICAL SECTION

Scale: 3/8" = 1'-0"



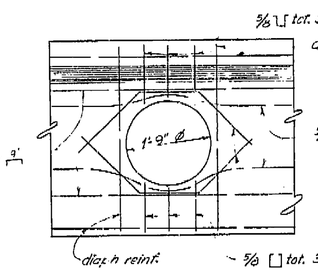
SECTION END DIAPHRAGM

Scale: ½" = 1'-0"



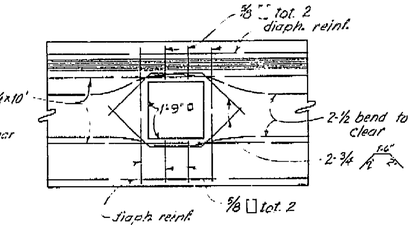
GIRDER REINFORCEMENT

Scale: None



INTERMEDIATE DIAPHGRAM DETAIL U3

Scale: ¾" = 1'-0"



END DIAPHGRAM DETAIL U6

Scale: ½" = 1'-0"

NOTES:
All bars are 1¼ except as noted.
No bottom reinforcement splices permitted in center ⅓ of span.
Lap all splices 35 diameters, and stagger.
Numbers at ends of bars are distances in feet from reference line or center line Bent 2.
⟷ indicates bundled bars.

AS BUILT
DATE 5/30/57 BY J.P. Lewis

AS BUILT PLANS
Contract No. 56-6TC2
Date Completed
Document No. 60000987

BRIDGE DEPARTMENT
DESIGN SECTION 8
Project Designer W. J. Johnson 4-55
Chief Designer Leon H. Seymour

DESIGN	W. J. Johnson 4-55	Checked J. B. Lewis 5-55
DETAILS	A.H. MYCZEK 4-55	Checked J. B. Lewis 5-55
QUANTITIES	R.B. Long 5-55	Checked J. B. Lewis 5-55
SPECIFICATIONS		Plans and Reports Completed

Approval Recommended by Earl Hollenbeck, Engineer of Design
Field Unit Number 5439

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

STANISLAUS ST. -OVERCROSSING-

TYPICAL SECTION & GIRDER REINFORCEMENT

SCALE AS NOTED | BRIDGE 42-172 | FILE | DRAWING C-4098-8

PREL. DRAWING NO. P-4098 W 15 22 25 34

135

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

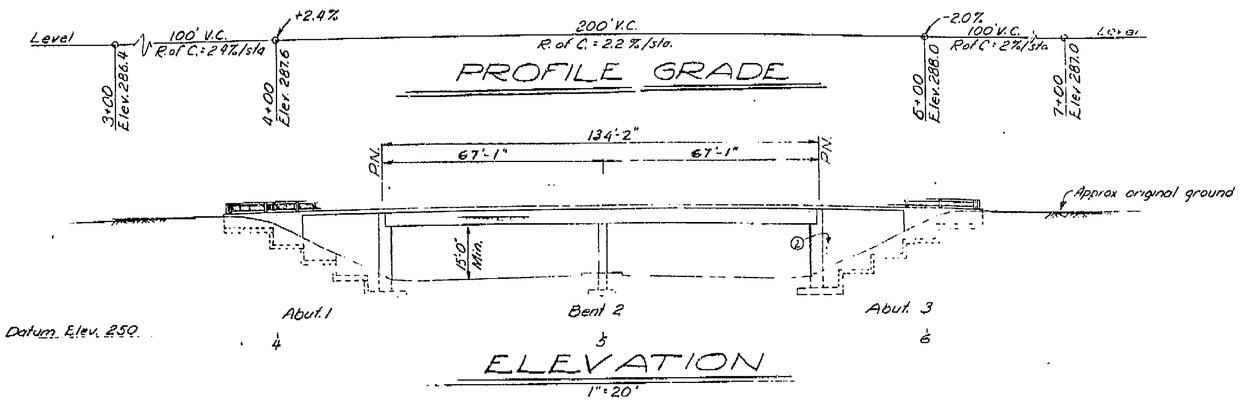
DATE June 22 1971 SIGNATURE [illegible] TITLE [illegible]

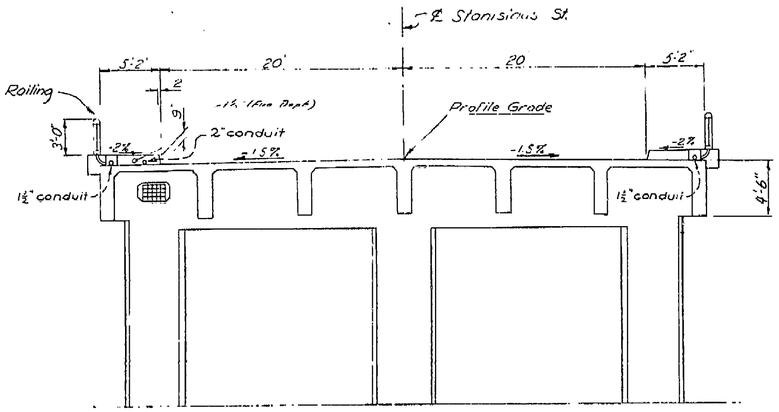
ClibPDF - www.fastio.com
MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"=50' SCALE 1"=50' SCALE 1"=20' SCALE 1"=20'
100 200 300

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			138	147

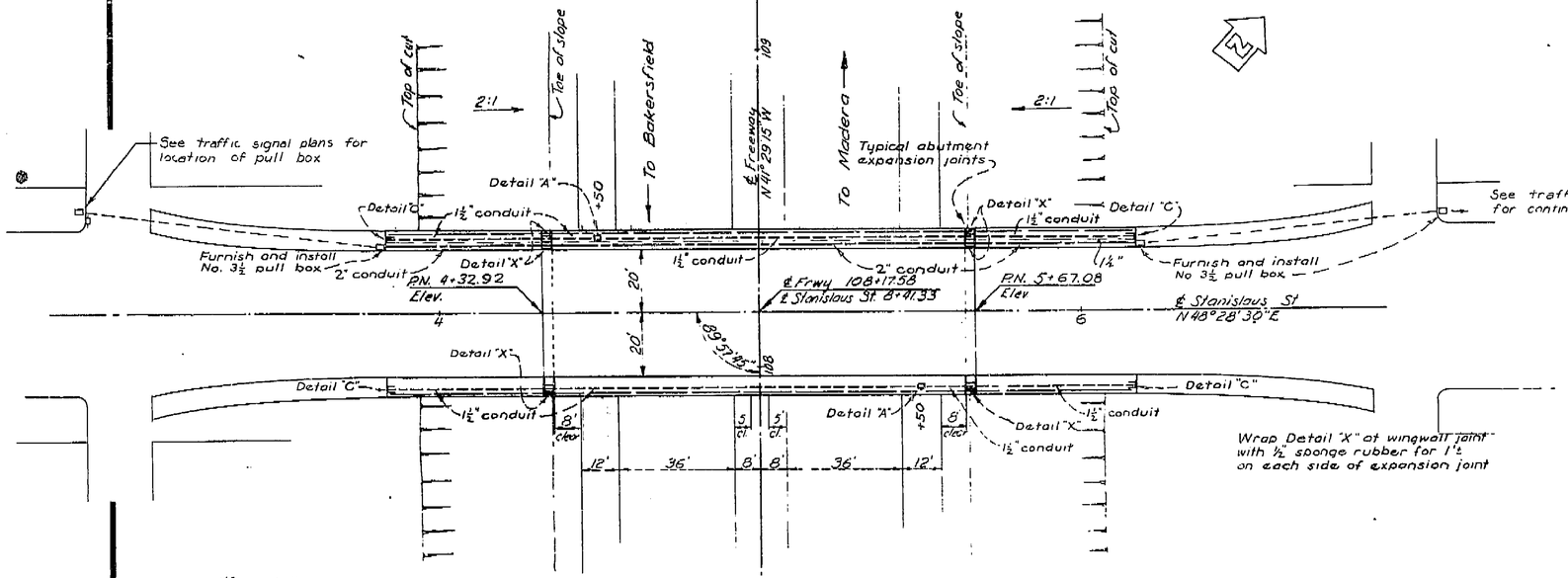
DIST.	COUNTY	ROUTE	SECTION	BRIDGE NO.	TOTAL PROJECT
VI	Fre	41	Fre	41-180	1 Brs.

C. T. Rowell
ASSISTANT DISTRICT ENGINEER
DATE APPROVED December 27, 1955
TRAFFIC ENGINEER
CIVIL ENGINEER LICENSE NO 5429





TYPICAL SECTION
3/16" = 1'-0"



Wrap Detail "X" at wingwall joint with ½" sponge rubber for 1'-2" on each side of expansion joint

----- 1½" conduit
——— 2" conduit
—=— Conduit expansion joint, Detail "X"
□ Pull box, Detail "D"
E---- Conduit stub, Detail "C"

PLAN
1" = 20'

(1) Paint Br. No. & Date
(2) Paint "Stanislaus St." Br. No. & Date

AS BUILT
DATE 5/30/57 BY C. E. Chilson

See Foundation Plan for General Notes.

Note: For Details "A", "C", "D" and "X", see Ventura St. O.C. "Standard Electrical Detail-Bridge" sheet. This plan accurate for lighting only.

For lighting reinf. see Ventura St. O.C. "Lighting Reinf." Sh.

L.L: H20-S16-44

AS BUILT PLANS
Contract No. 56-6TC2
Date Completed
Document No. 60000987

BRIDGE DEPARTMENT			
DESIGN SECTION 8			
Project Designer W. A. Robinson 4-55			
Chief Designer			
DESIGN	By Dist.	Checked	Dist.
DETAILS	By "	Checked	"
QUANTITIES	By "	Checked	"
SPECIFICATIONS	By	Date and Spec. Checked	
Approved for Advertisement	Engineer of Design	Civil and Structural Engr. License No.	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

STANISLAUS STREET OVERCROSSING
LOCATED AT THE EXISTING INTERSECTION OF "D" AND STANISLAUS STREETS IN THE CITY AND COUNTY OF FRESNO

LIGHTING PLAN

SCALE As Noted | BRIDGE 42-172 | FILE | DRAWING

PREL. DRAWING NO P-4098 X

138

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE June 29, 1971 SIGNATURE [illegible] TITLE Highway Bridge Design Engr.

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HICKEY M. STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"=20'

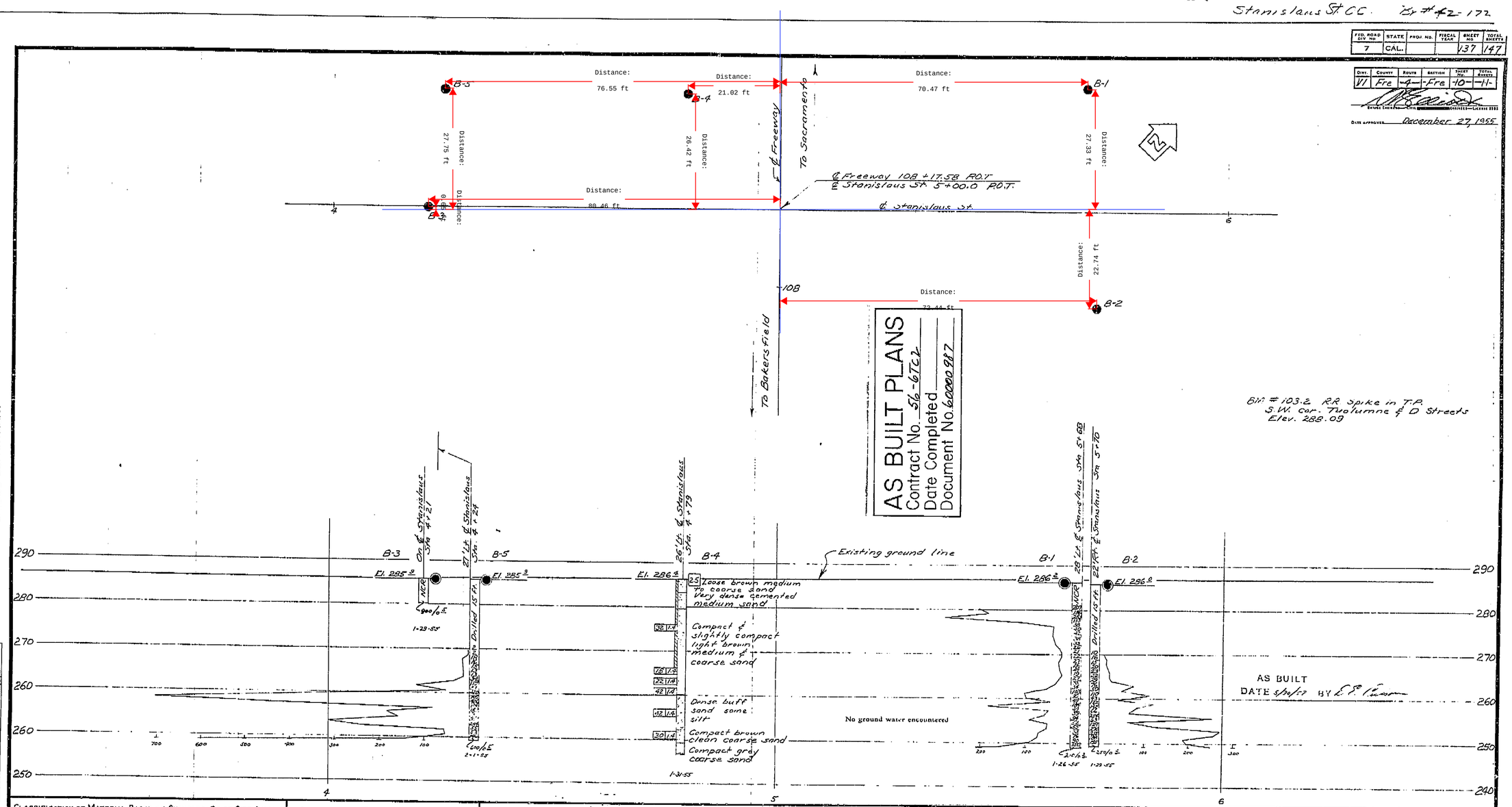
Stanislaus St. CC. Br. #42-172

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.			137	147

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	4	Fre	-10-	-11-

DATE APPROVED December 27 1955

BRIDGE DEPARTMENT



FIELD STUDY	by R. Hager Jan 1955
DRAWN	by M. Hoag 2-17-55
CHECKED	by R. Hager 2-24-55

Approved Recommended by: C. Whitmarsh
Approved Materials Engineer
Materials & Research Engineer
Materials Testing Engineer

137

CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS

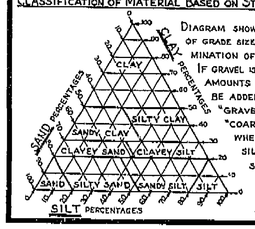


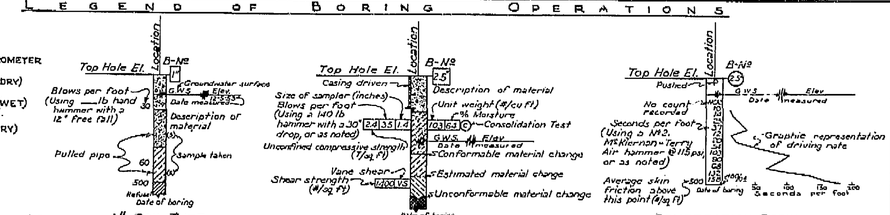
Diagram showing the basis for estimates of grade size distribution used in determination of class names. If gravel is present in appreciable amounts the term "gravelly" may be added to the class name, viz. "gravelly sand". The terms "coarse", "medium" and "fine" when used to describe sand, silt and gravel refer to standard grade size limits.

LEGEND OF EARTH MATERIALS

- Gravel
- Sand
- Silt
- Clay
- Sandy Clay or Clayey Sand
- Sandy Silt or Silty Sand
- Silty Clay or Clayey Silt
- Peat and/or Organic Matter
- Fill Material
- Igneous Rock
- Sedimentary Rock
- Metamorphic Rock

LEGEND OF BORING OPERATIONS

- Plan of any boring
- Penetrometer
- 2½" Cone Penetrometer
- Sampler boring (dry)
- Rotary boring (wet)
- Auger boring (dry)
- Jet boring
- Core boring
- Test pit



NOTES

The contractor's attention is directed to Section 2, Article (c) of the Standard Specifications and to the Special Provisions accompanying this set of plans.
Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

STANISLAUS STREET OVERCROSSING

LOG OF TEST BORINGS

SCALE	1" = 10'	BRIDGE	42-172	FILE	--	DRAWING	C-4098-10

PREL. DRAWING NO. P- 4098 3 24

PR-4098-4

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE June 28 1971 SIGNATURE [signature] TITLE Highway Transportation Engineer

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FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			128	147

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	4	Fre	-1-	-11-

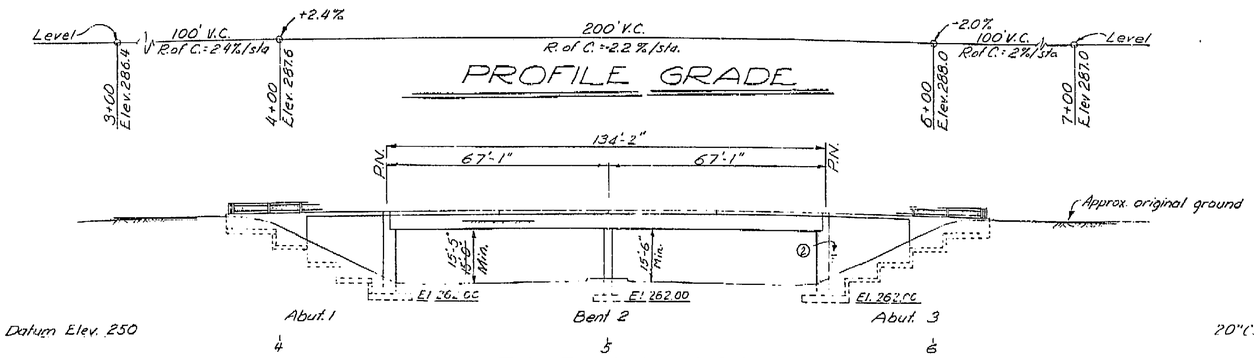
P.M. ~~57.0~~ 57.1

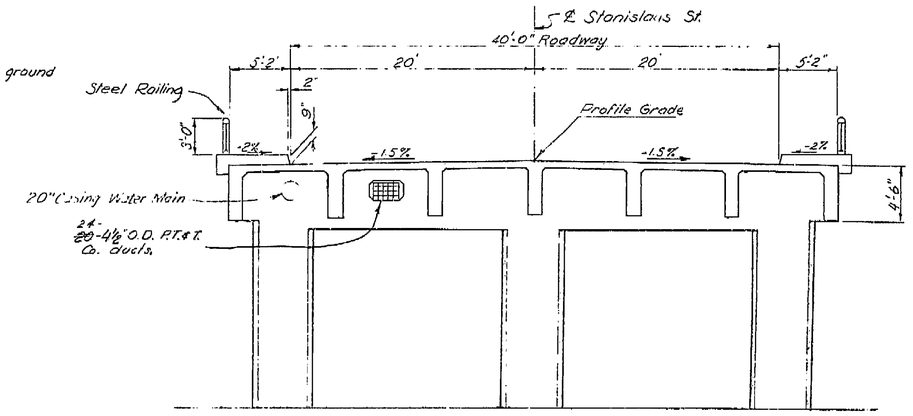
~~54-180~~

ASSISTANT STATE HIGHWAY ENGINEER — CIVIL ENGINEER LICENSE DATE

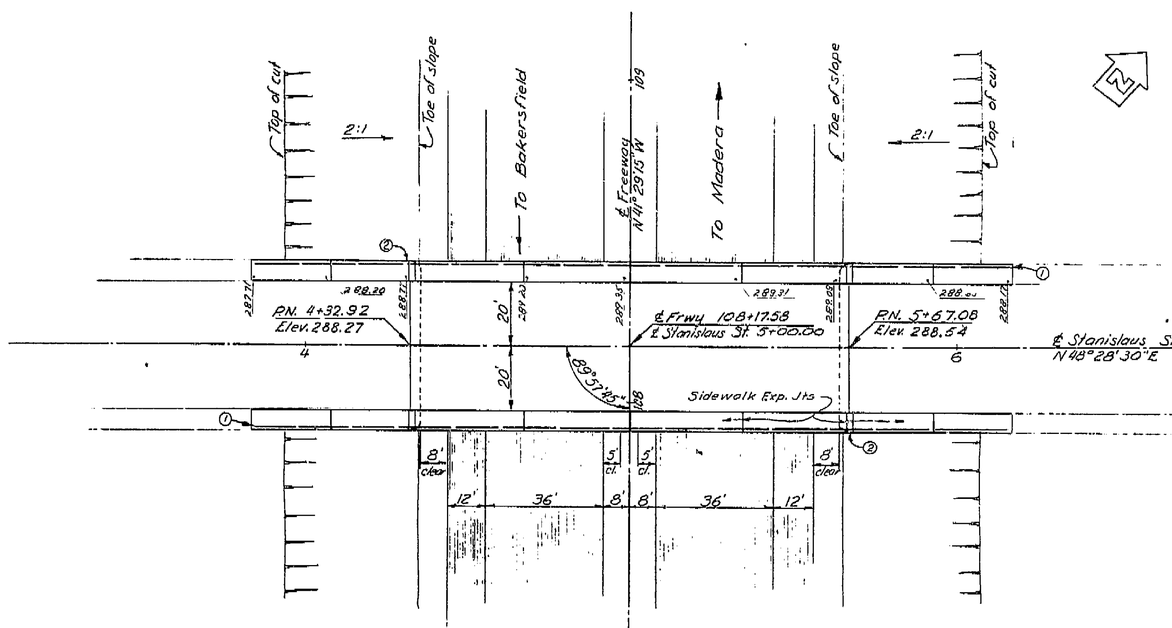
DATE APPROVED December 27, 1955

STATE HIGHWAY ENGINEER — CIVIL ENGINEER—LICENSE 2068





TYPICAL SECTION
3/16" = 1'-0"



PLAN
1"=20'

INDEX TO PLANS

Sheet No.	Title
1.	General Plan
2.	Foundation Plan
3.	Abutment Layout
4.	Abutment Details
5.	Type 1 Cantilever Retaining Wall
6.	Bent 2
7.	Girder Layout
8.	Typical Section & Girder Reinf.
9.	Standard Details
10.	Log of Test Borings
11.	Lighting Plan.

APPROXIMATE QUANTITIES

STRUCTURE EXCAVATION	1,050 C.Y.
STRUCTURE BACKFILL	1,280 C.Y.
CLASS A CONCRETE (BRIDGE)(1040 C.Y.)	LUMP SUM
RUBBER WATERSTOPS	140 L.F.
BAR REINFORCING STEEL (BRIDGE)(190,000 LBS.)	LUMP SUM
STEEL RAILING	460 L.F.
MISCELLANEOUS STEEL	6,100 LBS.

NOTE:
See Kern St. Overcrossing, Br. No. 42-159 For:

Concrete Girder Placing Diagram, Bearing Details, 'Miscellaneous Details' sheet.
Railing Details, - 'Steel Railing" sheet.

① Paint Br. No. & Date
② Paint "Stanislaus St.," Br. No. & Date

AS BUILT
DATE 5/30/57 BY E.S. Lum

56-6TC2

For General Notes see "Foundation Plan" sheet

AS BUILT PLANS
Contract No. 56-6TC2
Date Completed
Document No. 60000987

L.L.: H20-S16-44

BRIDGE DEPARTMENT
DESIGN SECTION 8
Project Designer W. F. Johnson 4-55
Chief Designer

DESIGN	W. F. Johnson 4-55	Checked R.A. Ang 5-55	
DETAILS	W. F. Johnson 5-55	Checked R.A. Ang 5-55	
QUANTITIES	R.A. Ang 5-55	Checked [illegible] 5-55	
SPECIFICATIONS	[illegible] 5/16/55	Plans and Elevs. Checked	
Approved Recommended	[illegible]	Date	5-4-55

59-6TC2

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS
SEP.

STANISLAUS STREET OVERCROSSING

LOCATED AT THE EXISTING INTERSECTION OF "D" AND STANISLAUS STREETS IN THE CITY AND COUNTY OF FRESNO

GENERAL PLAN

SCALE As Noted | BRIDGE 42-172 | FILE | DRAWING C-4098

PREL. DRAWING NO. P-4098

128

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

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FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2	CAL.			1132	147

Dist.	County	Rte.	Sec.	T.	Total Sheets
VI	FRE	4	FRE 5		11

5585

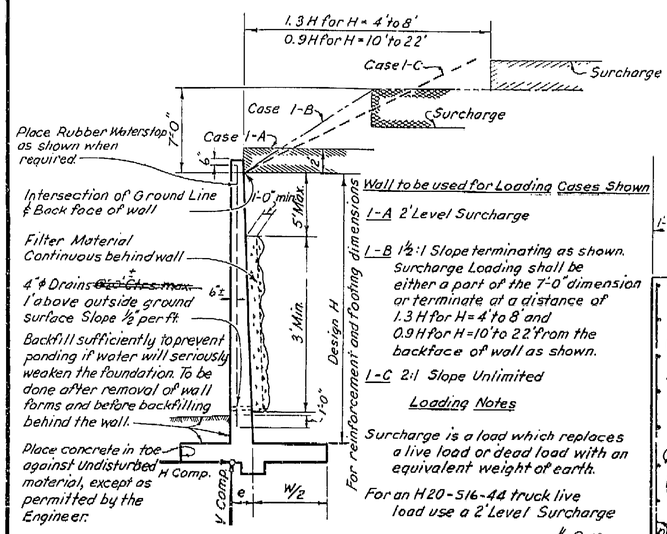
September 1, 1953

State Highway Engineer
Civil Engineer License No 2084

To Accompany Plans Dated December 27, 1955

AS BUILT PLANS
Contract No. 56-6TC2
Date Completed
Document No. 60000987

DESIGN AND DRAINAGE



Wall to be used for Loading Cases Shown

I-A 2' Level Surcharge

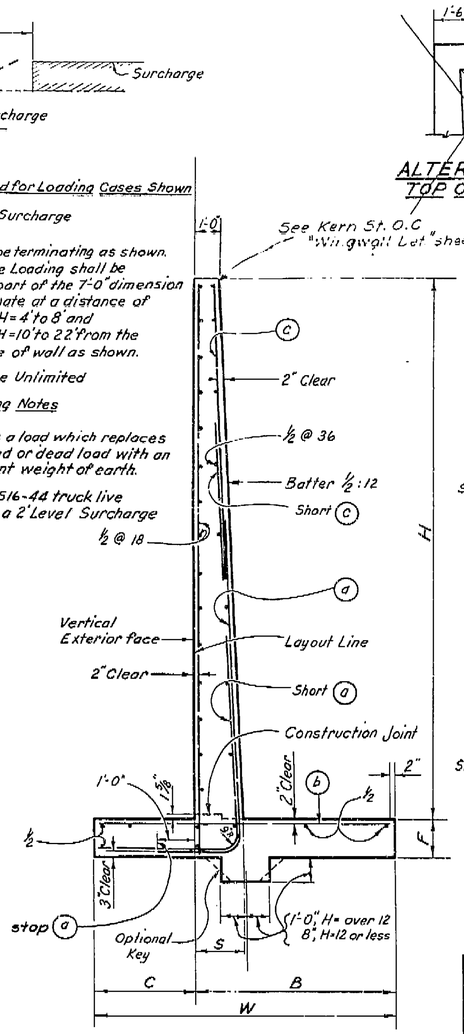
I-B 1½:1 Slope terminating as shown. Surcharge Loading shall be either a part of the 7'-0" dimension or terminate at a distance of 1.3 H for H = 4' to 8' and 0.9 H for H = 10' to 22' from the backface of wall as shown.

I-C 2:1 Slope Unlimited

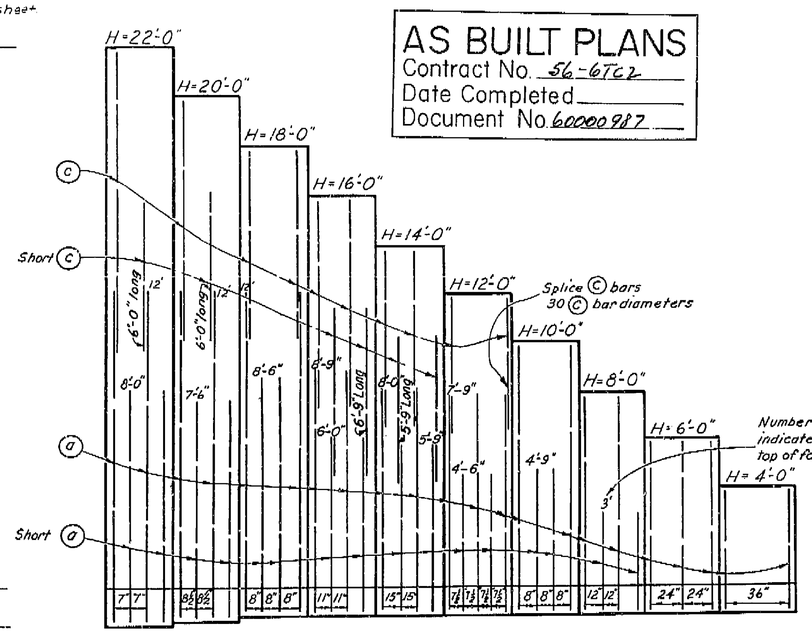
Loading Notes

Surcharge is a load which replaces a live load or dead load with an equivalent weight of earth.

For an H20-S16-44 truck live load use a 2' Level Surcharge

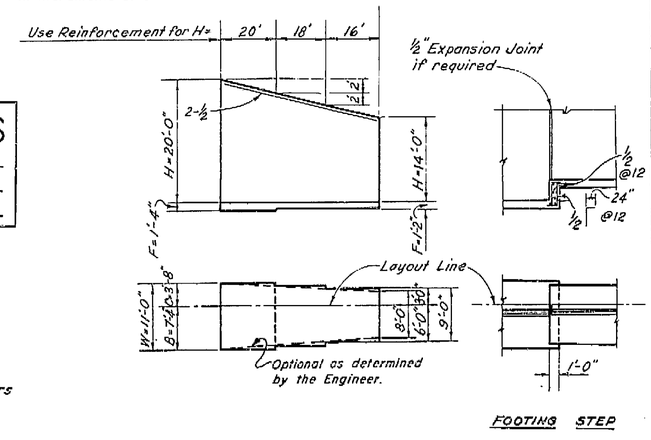


SECTION



ELEVATION

Note: Bar cut-offs may be varied in increments of 6"



TYPICAL LAYOUT EXAMPLE

NOTES

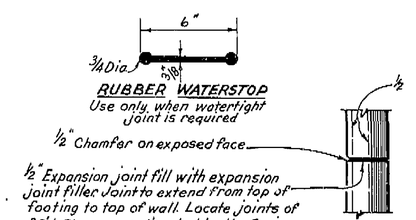
Design Conditions:
Wall to be used for Loading Cases shown in Design and Drainage detail.
Design H may be exceeded by 6" before going to next size.
Footing Key is required except when found unnecessary by the Engineer.
Special footing design is required where foundation material is incapable of supporting toe pressure loads listed in table.

Design Data: f'_c = 1250 psi, f_s = 20,000 psi, n = 10
earth = 120 pcf and equivalent fluid pressure = 36 psf per ft. of height

Reinforcement:
Intermediate Grade, Hard Grade or Rail Steel
Deformations shall conform to A.S.T.M. A 305.
Bars shall lap 20 diameters, where spliced, unless otherwise shown on the plans
Bends shall conform to the Manual of Standard Practice, A.C.I.
Backing for hooks is four diameters.
All bar embedments are clear distances to outside of bar.
Spacing for parallel bars is ctr. to ctr. of bars.
Bar areas are based on rounds for less than 1" and squares for over 1".

TABLE OF REINFORCING STEEL DIMENSIONS AND DATA

H	22'	20'	18'	16'	14'	12'	10'	8'	6'	4'
W	12'-0"	11'-0"	10'-0"	9'-0"	8'-0"	7'-2"	6'-2"	5'-2"	4'-2"	3'-2"
C	4'-0"	3'-8"	3'-4"	3'-0"	2'-8"	2'-4"	2'-0"	1'-8"	1'-4"	1'-0"
B	8'-0"	7'-4"	6'-8"	6'-0"	5'-4"	4'-10"	4'-2"	3'-6"	2'-10"	2'-2"
F	1'-6"	1'-4"	1'-2"	1'-2"	1'-2"	1'-2"	1'-2"	1'-2"	1'-2"	1'-2"
S	1'-11"	1'-10"	1'-9"	1'-8"	1'-7"	1'-6"	1'-5"	1'-4"	1'-3"	1'-2"
© Bars	⅞@14	⅞@17	¾@24	⅝@11	⅝@15	⅝@30				
ⓓ Bars	1¼@7	1¼@8½	1⅛@8	1⅛@11	1⅛@15	¾@7½	⅝@8	⅝@12	⅝@24	⅝@36
ⓑ Bars	1⅛@7	1⅛@8½	1"@8	1"@11	1"@15	⅝@7½	½@8	½@12	⅜@24	⅝@36
Conc. c.f./ft.	52.1	45.0	38.5	33.8	29.5	24.3	20.2	16.3	12.6	8.9
Steel lbs./ft.	309	233	177	123	90	56	47	28	20	14
Toe Press.	4480	4000	3590	3290	2980	2640	2270	1930	1570	1240
H.Comp.lbs	11630	9730	8000	6540	5240	4070	3050	2170	1440	850
V.Comp.lbs.	27070	22690	18670	15260	12180	9760	7340	5230	3460	2020
e Ft.	1.90	1.72	1.54	1.41	1.28	1.07	.94	.79	.60	.50



PLAN OF EXPANSION JOINT

AS BUILT
DATE 5/19/72 BY W. T. Johnson

DESIGN SECTION 8
W. T. Johnson 4-55
PROJECT DESIGNER

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

STANISLAUS STREET ~~OVERCROSSING~~

TYPE I CANTILEVER RETAINING WALL

SCALE None	BRIDGE 42-172	XS-3-36 FILE	6-4098-5 DRAWING

PWP DRAWING NO. P-4098 [illegible]

A63

f'_c = 1250

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE June 29, 1971 SIGNATURE [signature] TITLE Highway Engineering Aid

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FED. ROAD DIST. NO.	STATE	FISCAL YEAR	FEDERAL TRUS	SHEET NO.	TOTAL SHEETS
2	CAL.			136	147

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
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BRIDGE ENGINEER — CIVIL ENGINEER-LICENSE 5585

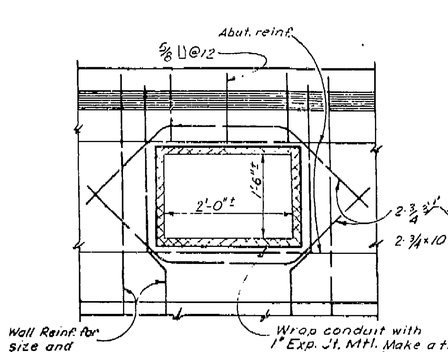
APPROVED December 27, 1955

STANDARD DWG

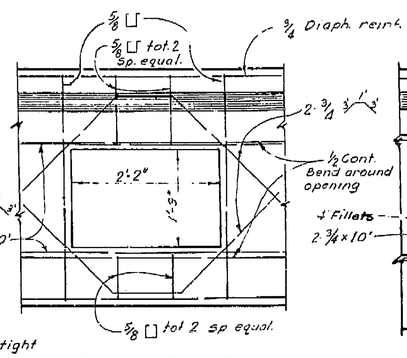
	Initial	Date
	R.A.	10-59

revised:

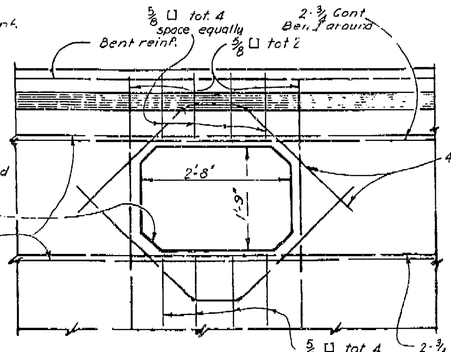
AS BUILT PLANS
Contract No. 56-67E2
Date Completed
Document No. 6020987



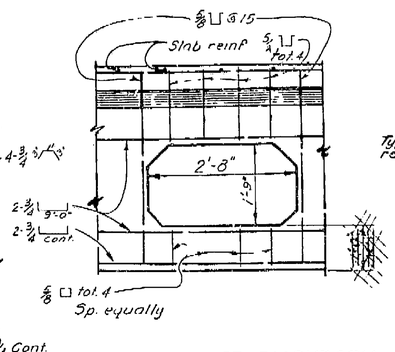
ABUTMENT BACKWALL
DETAIL U1



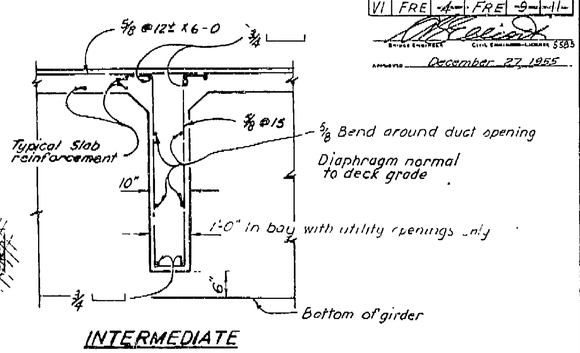
END DIAPHRAGM
DETAIL U2



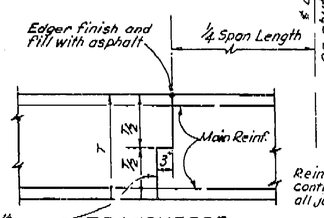
BENT CAP
DETAIL U3



INTERMEDIATE DIAPHRAGM
DETAIL U4

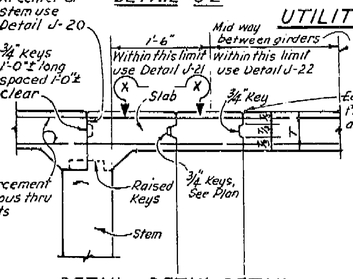


INTERMEDIATE DIAPHRAGM SECTION
DETAIL D1

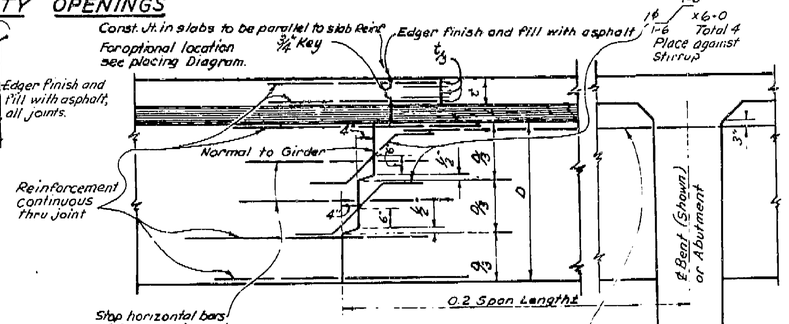


TRANSVERSE SLAB BRIDGE
DETAIL J-1

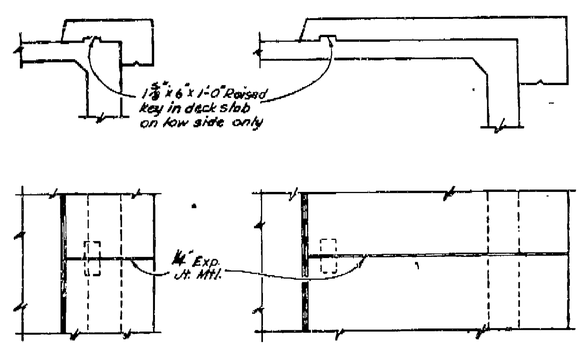
UTILITY OPENINGS



DETAIL J-20 | DETAIL J-21 | DETAIL J-22



TRANSVERSE GIRDER
DETAIL J-3

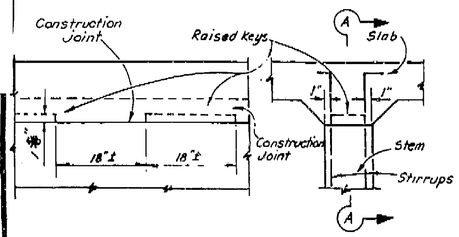


CURB
DETAIL C1

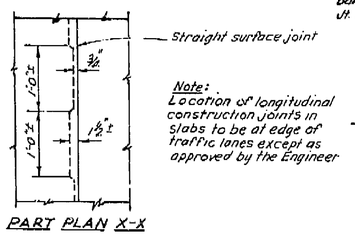
SIDEWALK
DETAIL S1

CURB AND SIDEWALK EXPANSION JOINTS

NOTE: In simple spans place joint at midspan. In continuous spans place joint over ℄ Interior piers or bents and at midspans.

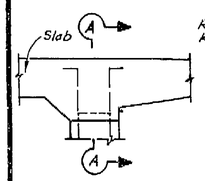


SECTION A-A

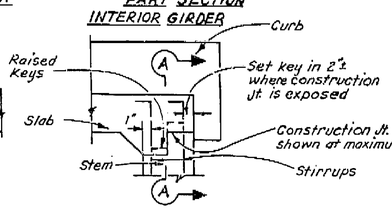


PART PLAN X-X

LONGITUDINAL DECK SLAB

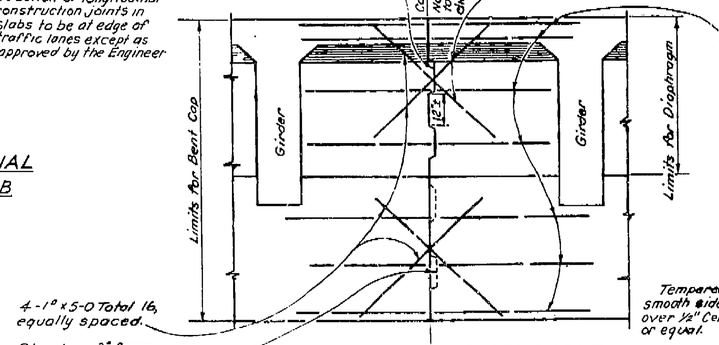


PART SECTION EXTERIOR GIRDER WITH SLAB CANTILEVER

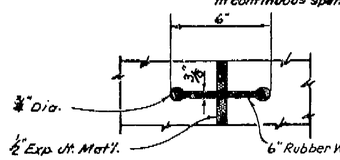


PART SECTION EXTERIOR GIRDER WITH CURB

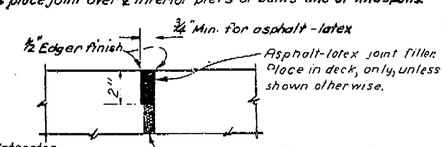
KEY - GIRDER STEM TO SLAB
DETAIL J-5



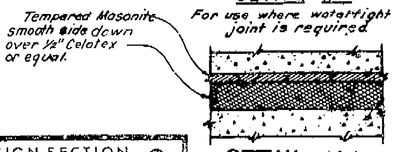
BENT CAP DIAPHRAGMS
LONGITUDINAL
DETAIL J-4



RUBBER WATERSTOP
DETAIL W1



LATEX AT EXPANSION JOINT
DETAIL L1



DETAIL M-1

DESIGN SECTION
W. F. Johnson 4-55
PROJECT DESIGNER

CONSTRUCTION JOINTS

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

STANISLAUS STREET OVERCROSSING

STANDARD DETAILS

Scale None	BRIDGE 42-172	XS-16-21	C-4098-9 DRAWING

P&EL DRAWING NO. P-4098 12 20 24

T BEAM

AS BUILT
DATE 6/1/ BY

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE June 28, 1971 SIGNATURE [illegible] TITLE Highway Transportation Engineer

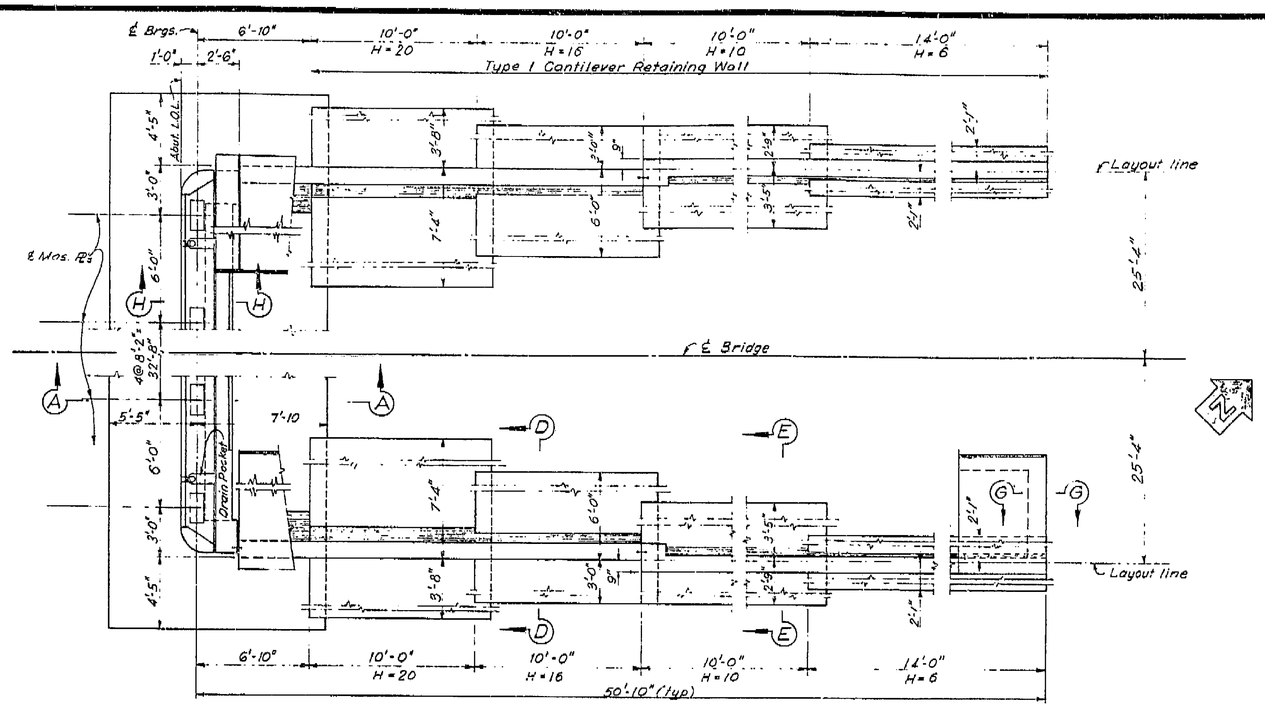
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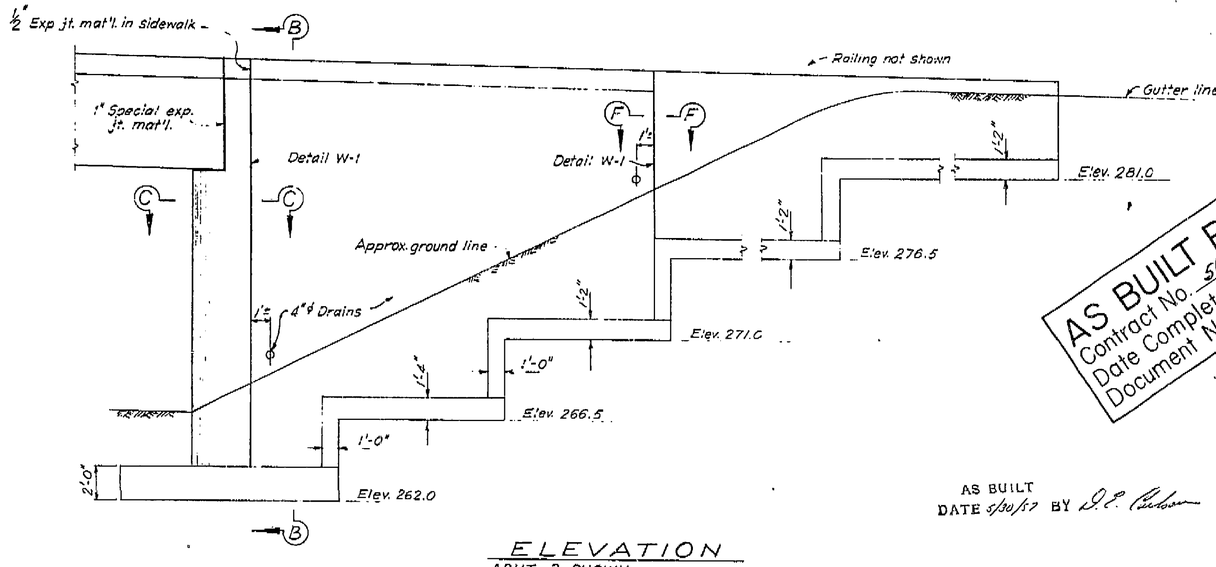
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	4	FRE	3	11

DATE APPROVED December 27, 1955



PLAN - ABUTMENT

Note: Utilities not shown

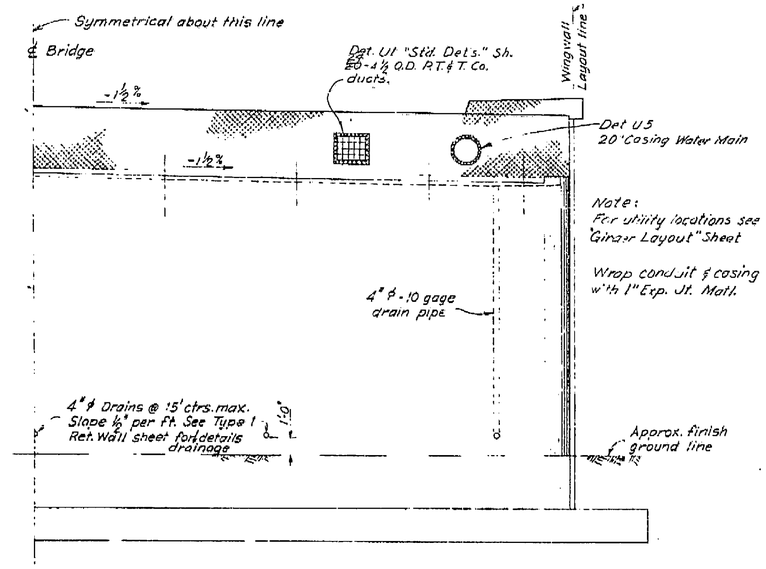


ELEVATION

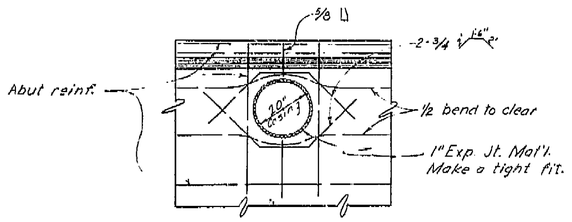
ABUT. 3 SHOWN
ABUT. 1 SAME BUT OPP. HAND

AS BUILT
DATE 5/30/57 BY D.E. Peterson

AS BUILT PLANS
Contract No. 56-6TC2
Date Completed
Document No. 60000987



HALF FRONT ELEVATION



ABUTMENT BACKWALL DETAIL U5
Scale: ½"=1'-0"

NOTES:

For Sections A-A, B-B, C-C, H-H refer to Abutment Details sheet.
For Sections D-D, E-E, F-F, G-G See Kern St. O.C. Wingwall Details sheet
See Special Provisions for 1" Special exp. jt. mat'l.
For Bearing Details see Kern St. O.C. "Misc. Details" sheet.

BRIDGE DEPARTMENT
DESIGN SECTION 8
Project Designer W. F. Johnson 4-55
Chief Designer Alvin O. Rasmussen

DESIGN	By W. F. Johnson 4-55	Checked R. W. Craig 5-55
DETAILS	By A. O. Rasmussen 3-55	Checked R. W. Craig 5-55
QUANTITIES	By R. W. Craig 5-55	Checked J. Wunsch 5-55
SPECIFICATIONS	By	Plans and Prices Estimated

Approved Recommended by [signature] Chief Engineer
Civil Engineer No. 5437

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

STANISLAUS STREET OVERCROSSING

ABUTMENT LAYOUT

SCALE	BRIDGE	FILE	DRAWING
½"=1'-0"	42-172		C-4098-3

PREL. DRAWING NO. P-4098 14 18 24 35

30

CERN, STAN, TUO, TUL

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

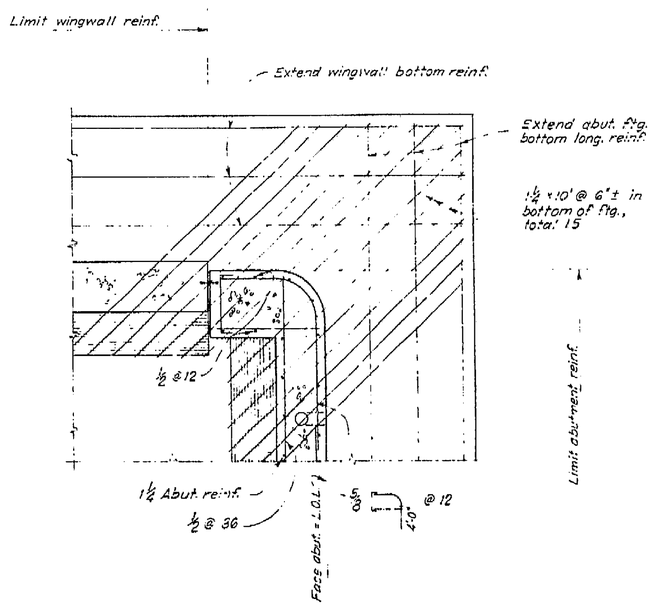
DATE Jan. 27 1961 SIGNATURE [signature] TITLE Asst. Engineer

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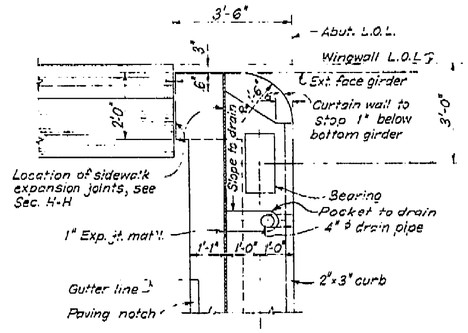
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7	CALIF.			131	147

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
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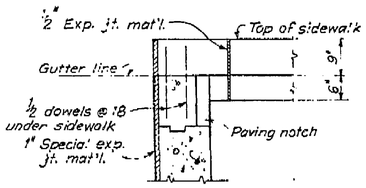
DATE APPROVED December 27, 1955



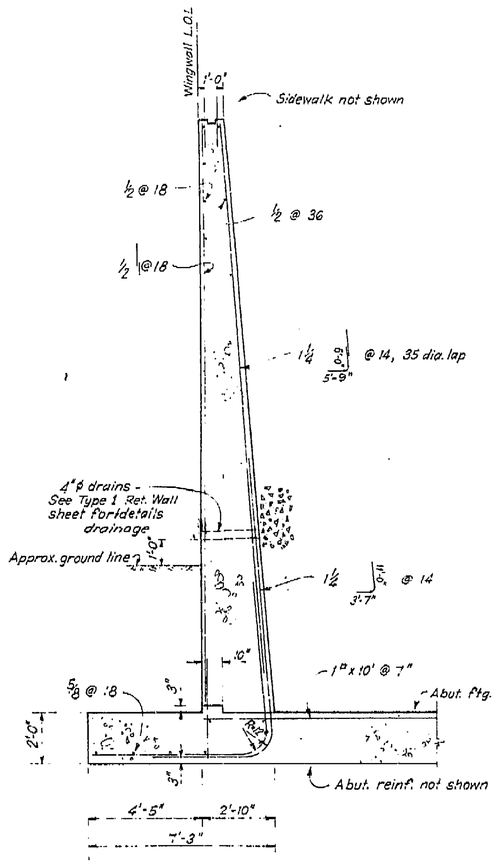
SECTION C-C
PART SEC. THROUGH ABUT. WALL
Scale: ½" = 1'-0"



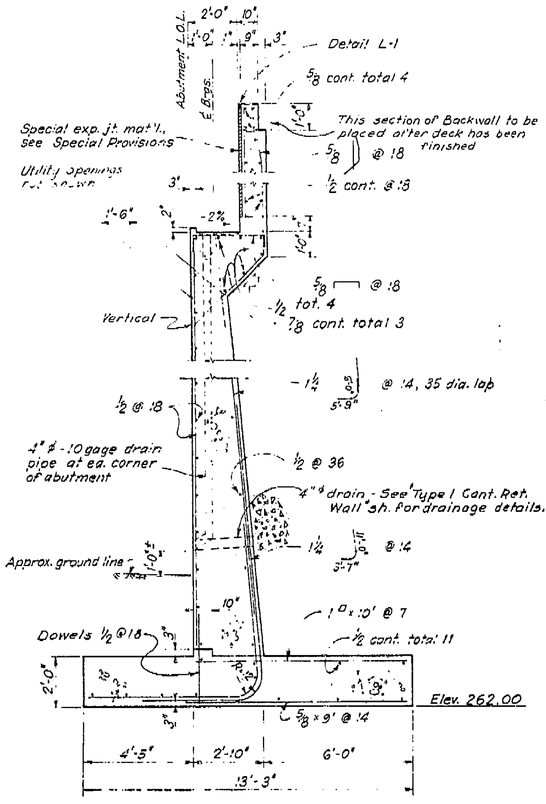
PART PLAN-ABUTMENT
DETAIL TOP OF ABUT. CORNER
Scale: ½" = 1'-0"



SECTION H-H
Scale: ¾" = 1'-0"



SECTION B-B
Scale: ⅜" = 1'-0"



SECTION A-A
Scale: ⅜" = 1'-0"

AS BUILT
DATE 5/24/57 BY [signature]

AS BUILT PLANS
Contract No. 56-6TC2
Date Completed
Document No. 60000987

BRIDGE DEPARTMENT ... DESIGN SECTION ... 8		
Project Designer W. T. Johnson 3-55		
Chief Designer Alan H. Meeser		
DESIGN	W. T. Johnson 3-55	Checked R. N. Craig 5-55
DETAILS	A.H. MEESER W.C. Hennessy 3-55	Checked R. N. Craig 5-55
QUANTITIES	R. N. Craig 5-55	Checked [signature] 5-55
SPECIFICATIONS	By	Plans and Specs. Compared
Approval Recommended by [signature] Engineer of Design		Date and Approval Sheet Checked No. 5709

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

STANISLAUS STREET OVERCROSSING

ABUTMENT DETAILS

SCALE As noted	BRIDGE 42-172	FILE	DRAWING C-4098-6

PREL. DRAWING No. P-4098 | 7 | 11 | 21 | 36 |

131

KERN, STAN, TUO, TUL

302

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE June 29, 1971 SIGNATURE [signature] TITLE Highway Transportation Engineer

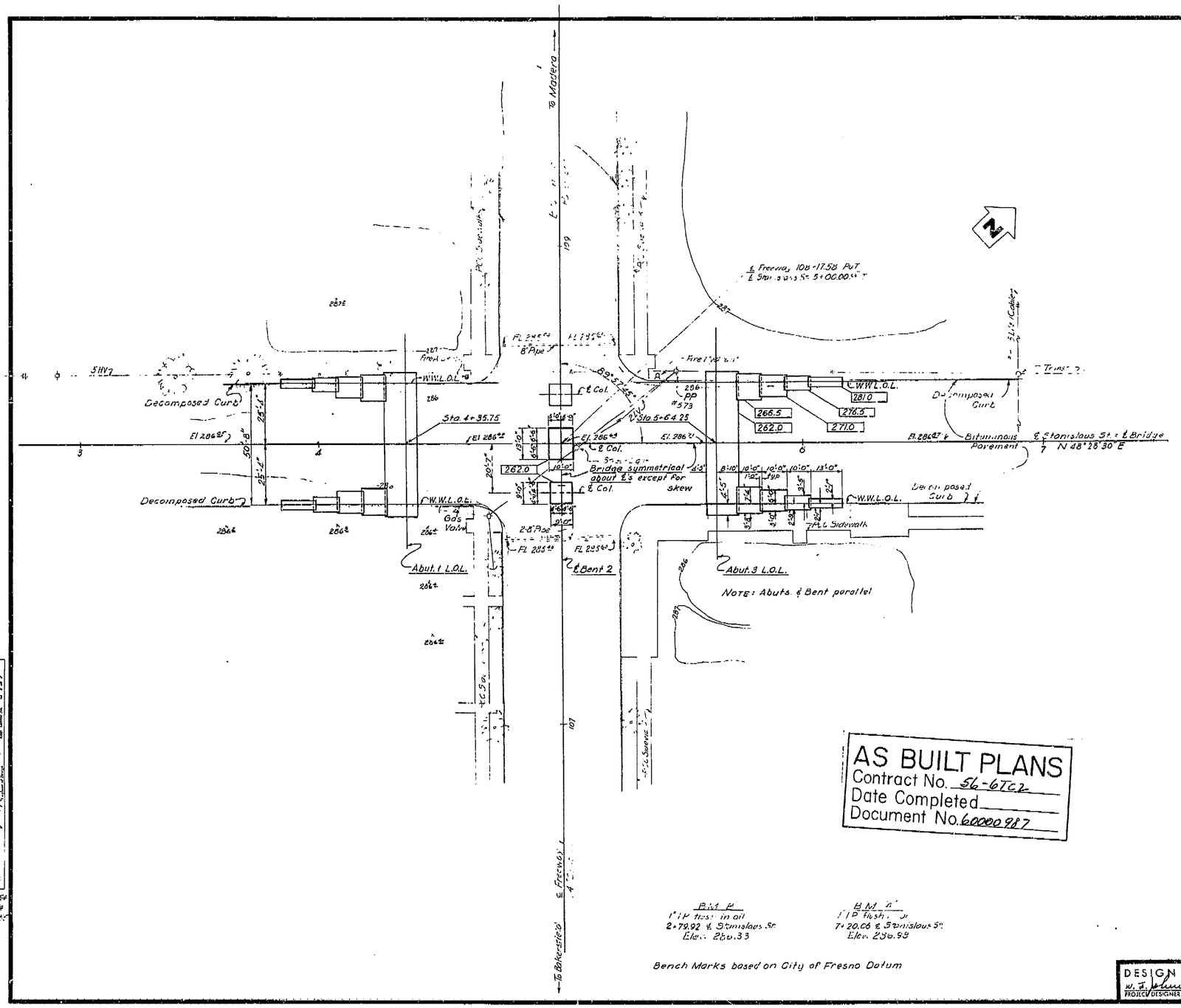
ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.			129	147

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	41	FRE	2	11

DATE APPROVED December 27, 1955

BRIDGE DEPARTMENT



GENERAL NOTES

SPECIFICATIONS:
DESIGN: A.A.S.H.O. DATED 1953 WITH SUBSEQUENT REVISIONS, AND BRIDGE DEPARTMENT SUPPLEMENT DATED 1953.

CONSTRUCTION: STANDARD SPECIFICATIONS, DIVISION OF HIGHWAYS, DATED AUGUST 1954 AND THE SPECIAL PROVISIONS.

LIVE LOADING: H20-S16-44

UNIT STRESSES:
REINFORCED CONCRETE: f_s = 20,000 P.S.I., f_c = 1250 P.S.I., N = 10

FOOTING PRESSURE:

ELEV.	DESIGN LOAD
262-275	2 1/2 TONS P.S.F.
275-282	3 TONS P.S.F.
AT OR BELOW 262	3 1/2 TONS P.S.F.

REINFORCEMENT: EMBEDMENT IS CLEAR TO OUTSIDE OF BAR AND IS 2" TO MAIN REINFORCEMENT, EXCEPT AS NOTED. PACKING FOR HOOKS IS FOUR DIAMETERS, EXCEPT AS NOTED.
BAR AREAS ARE BASED ON ROUNDS FOR LESS THAN 1" AND SQUARES FOR OVER 1".
WHERE REINFORCING BARS ARE SPLICED THEY SHALL HAVE A 20 DIAMETER LAP UNLESS OTHERWISE CALLED FOR ON THE PLANS.

Submitted by	Checked	Approved Recommended by	Date
DESIGN	[illegible]	[illegible]	5-55
DETAILS	[illegible]	[illegible]	5-55
QUANTITIES	[illegible]	[illegible]	5-55
SPECIFICATIONS	[illegible]	[illegible]	5-55

Surveyed by FCL 11-54
Drawn by IK 12-54
Traced by JGC 12-55

129

AS BUILT PLANS
Contract No. 56-6TC2
Date Completed
Document No. 60000917

AS BUILT
DATE 5/29/57 BY D.E. Carlson

BM P
1" I.P. flush in oil
2+79.92 ℄ Stanislaus St.
Elev.: 280.33

BM A
1" I.P. flush
7+20.06 ℄ Stanislaus St.
Elev. 290.99

Bench Marks based on City of Fresno Datum

000.0 Indicates bottom of Ftg. Elev.
Contours as of Nov 1954

DESIGN SECTION 8
W. T. Johnson 4-55
PROJECT DESIGNER

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

STANISLAUS STREET OVERCROSSING

FOUNDATION PLAN

SCALE 1"=20' | BRIDGE 42-172 | FILE | DRAWING C-4098-2

PREL. DRAWING NO. P-4098 8 VI 27

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

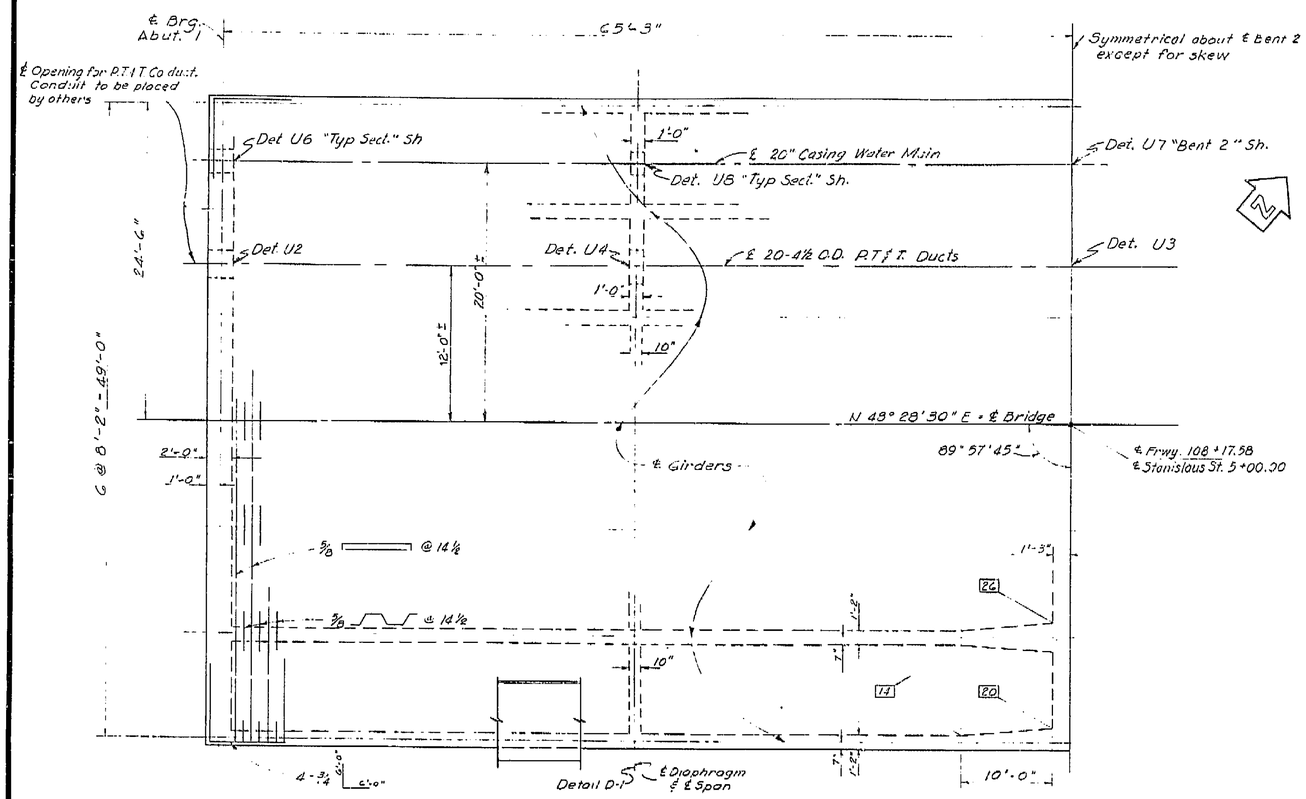
DATE June 29, 1971 SIGNATURE [signature] TITLE Highway Bridge Engineer

ClibPDF - www.fastio.com

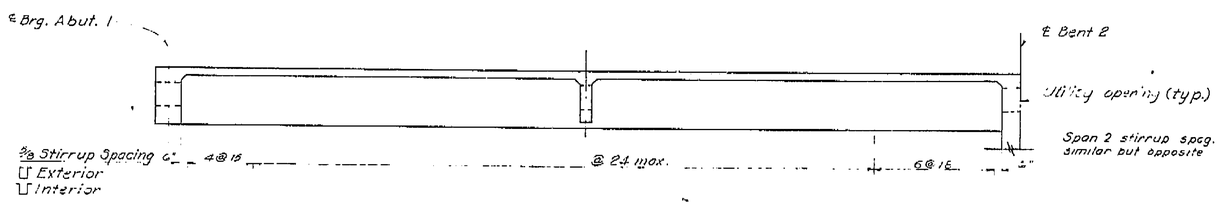
FED. ROAD DIV. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			134	147

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	4	F. Fre	7	11

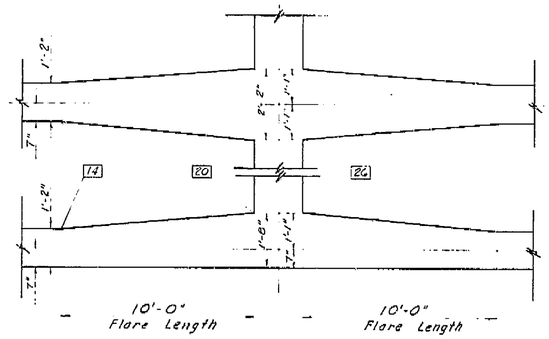
DATE APPROVED December 27, 1955



PLAN
No Scale

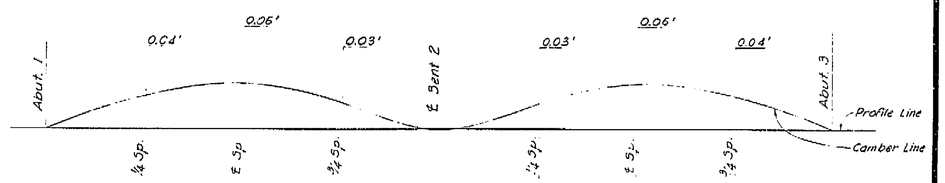


SECTION
No Scale



GIRDER FLARE DETAIL
SCALE: NONE

AS BUILT PLANS
Contract No. 56-6TC2
Date Completed
Document No. 60000987



CAMBER DIAGRAM FOR TOTAL GIRDER DEFLECTION DUE TO DEAD LOADS

NOTE:
The total deflection will be reached about 4 years after falsework removal. For values at time of falsework removal, provide those shown by ( ).
The amount of camber for construction will be determined by the Engineer.

AS BUILT
DATE 1/61 BY [illegible]

BRIDGE DEPARTMENT			
DESIGN SECTION			8
Project Designer W. F. Johnson 4-55			
Chief Designer [illegible]			
DESIGN	By W. F. Johnson 4-55	Checked [illegible] 5-55	
DETAILS	By [illegible]	Checked [illegible] 5-55	
QUANTITIES	By [illegible] 5-55	Checked [illegible] 6-55	
SPECIFICATIONS	By	Plans and Specs Completed	
Approval Recommended By [illegible] Engineer of Design		Filed and Approved Engr. Letter No. 5435	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

STANISLAUS STREET-OVER-CROSSING

GIRDER LAYOUT

SCALE NONE	BRIDGE 42-17	FILE	DRAWING C-4098-7

PREL. DRAWING No. P-4093

134

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE June 29 1971 SIGNATURE [illegible] TITLE Asst. Chief Bridge Engineer

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California Department of Transportation
Division of Maintenance

Structure Maintenance and Investigations

BRIDGE

INSPECTION

RECORDS

INFORMATION

SYSTEM

The requested documents have been generated by BIRIS.

These documents are the property of the California Department of Transportation and should be handled in accordance with Deputy Directive 55 and the State Administrative Manual.

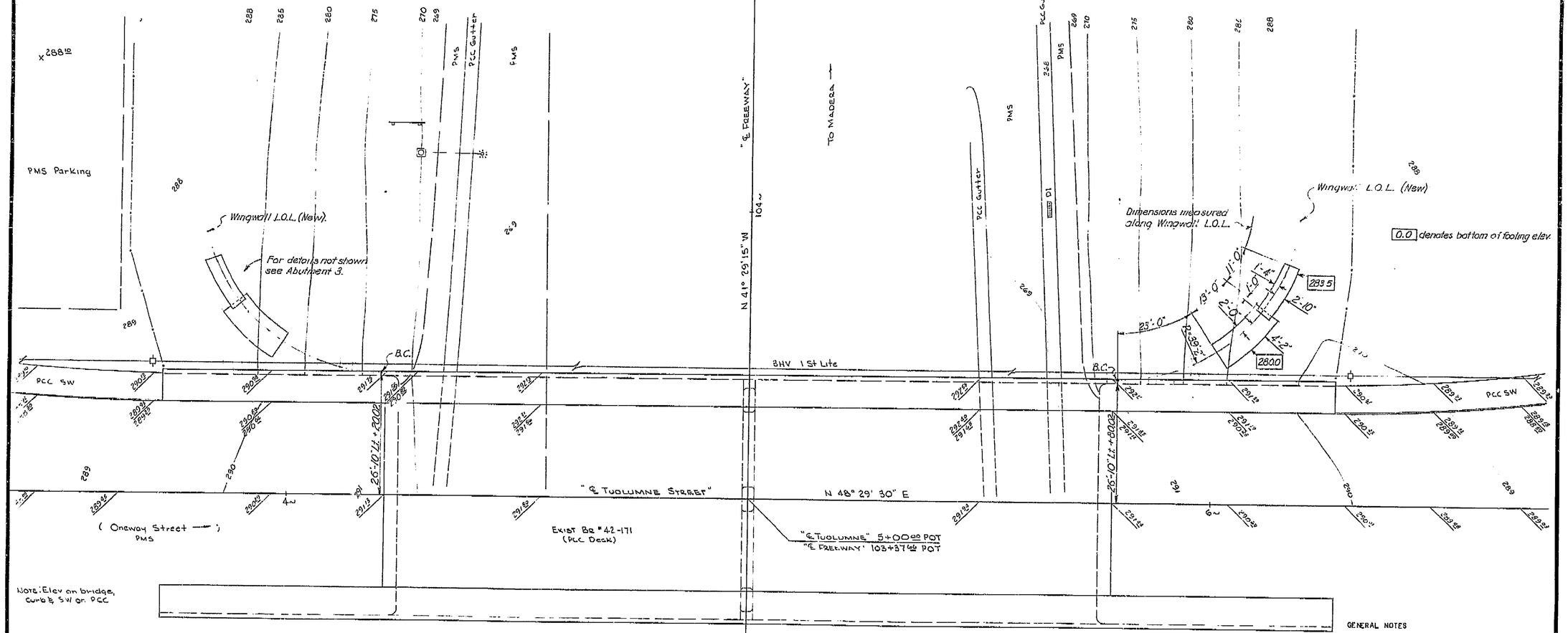
Records for “Confidential” bridges may only be released outside the Department of Transportation upon execution of a confidentiality agreement.

FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
06	Fre.	99	220.0/220.0	89	89

BRUCE CARDLEY CIVIL ENGINEER—LICENSE #5065

DATE APPROVED February 23, 1965



BM #1
Fd - RR spike in PP 30' Lt
"Tuolumne ℄" 2+95
EL 289.29

BM #2
Fd - RR spike in PP 30' Lt
"Tuolumne ℄" 6+90
EL 289.68

LEVEL DATUM: "AS BUILT"
FOR ALIGNMENT TIES SEE "AS BUILT"
CONTOURS AS OF 10-63
SITE PLAN TO SUPPLEMENT DISTRICT DATA.
SURVEY BY E.G.M. DATE 10-63.
DRAWN BY J.S. DATE 10-63.
TRACED BY J.S. DATE 10-18-63

AS BUILT PLANS
Contract No. 06-032004
Date Completed 12-10-65
Document No. 60000320

GENERAL NOTES

DESIGN: A.A.S.H.O. DATED 1961 WITH REVISIONS AND AS SUPPLEMENTED BY BRIDGE PLANNING AND DESIGN MANUAL.

LIVE LOADING: H20-S16-44 AND ALTERNATIVE

REINFORCED CONCRETE: FS = 20,000 P.S.I., N = 10

FC = 1,200 P.S.I.

THIS [illegible] CONFORMED TO CONFORM TO [illegible] AS BUILT DATA
ENGINEER [illegible] DATE [illegible]
DRAWINGS [illegible] BY RESIDENT

BRIDGE DEPARTMENT
DESIGN SECTION
Section Supervisor George A. Hood

DESIGN	By	A. Hintze	5/64
	Checked	Jack Jones	5/64
DETAILS	By	A. Hintze	5/64
	Checked	Bill Bowen	5/64
QUANTITIES	By	A. Hintze	5/64
	Checked	[illegible]	5/64

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

TUOLUMNE STREET OVERCROSSING (ALTERATION)

FOUNDATION PLAN

SCALE 1"=10' | BRIDGE 42-171 | FILE E-42 | DRAWING 42171-2

PREL. DRAWING NO. P [illegible]

PR 42171-2

62-06TIO40320.0

ClibPDF - www.fastio.com

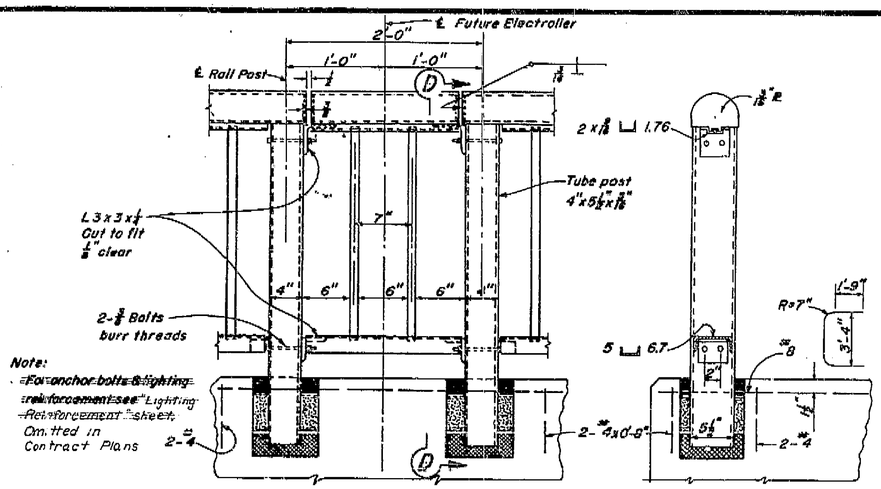
FED. ROAD DIST. NO.	STATE	ROUTE	SECTION	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.					

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
06	FRE	99	20.0/23.0	86	89

Bridge Engineer — Civil Engineer-License No.

Approved February 23, 1965

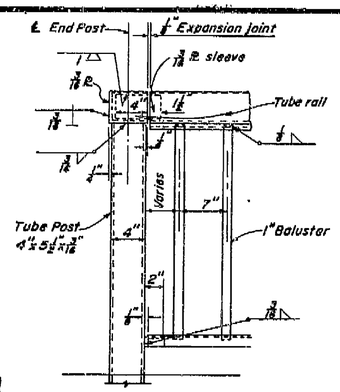
STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS
BRIDGE DEPARTMENT



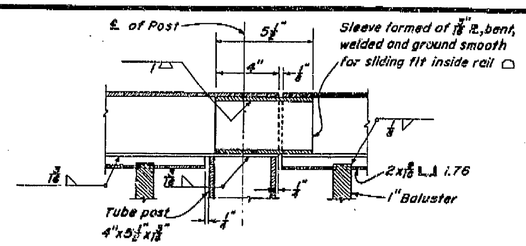
RAILING CLOSURE DETAIL E-3

Electroliers installed on this contract 06-032004 - For railing and reinforcement detail, see sheet #84.

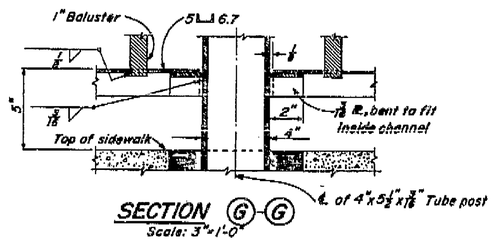
SECTION D-D



SINGLE END POST



SECTION (H) (H)
Scale: 3"=1'-0"



SECTION (G)-(G)
Scale: 3"=1'-0"

NOTES:

Space posts to clear expansion joints by 9" min. to ℄ of post.

Exact post hole locations are to be determined from approved railing shop plans.

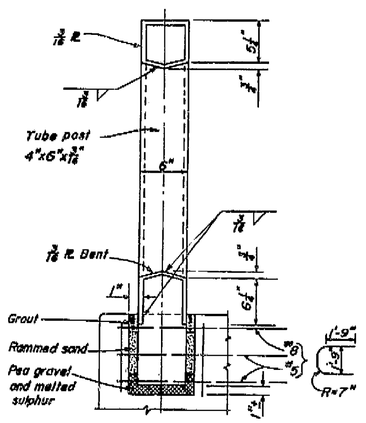
Railing shall conform to horizontal and vertical alignment. Posts and balusters shall be vertical with a maximum deviation not to exceed that represented by a rise of ¼" in one panel.

At expansion joints in deck, rail joints shall be increased to same size, with corresponding increase in length of sleeves.

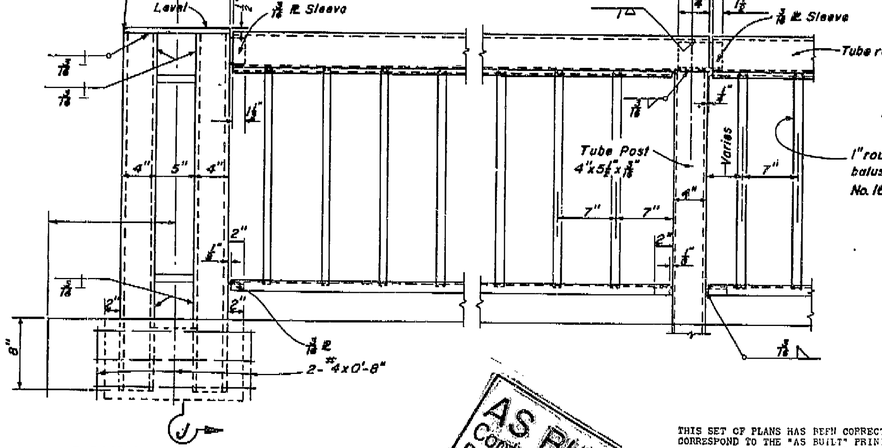
Railing and all parts to be galvanized after fabrication. For further requirements see special provisions.

Time of placing railing on bridge wingwalls to be after walls are backfilled.

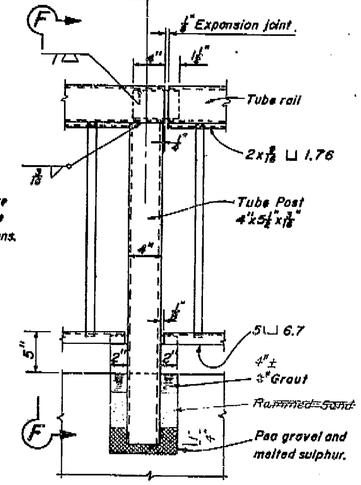
AS BUILT
CORRECTIONS BY
CONTRACT NO.
DATE



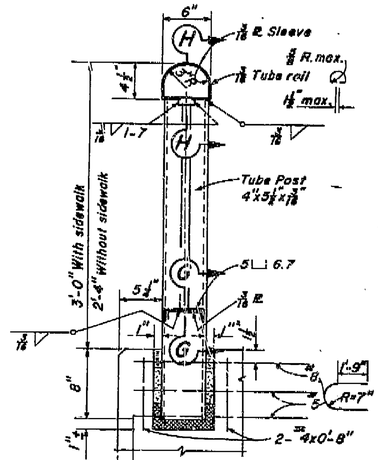
SECTION (J) (J)



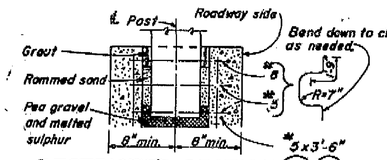
DOUBLE END POST



INTERMEDIATE POST



SECTION (F) (F)



RESTRICTED SECTION (J) (J)

NOTES FOR RESTRICTED POST ANCHORAGE

Restricted Section (J) (J) shows typical details. Use similar details for Section (F) (F) & (D) (D) when needed. Provide for restricted anchorages in top of wingwalls, retaining walls and in hollow sidewalks unless shown otherwise.

AS BUILT PLANS
Contract No. 06-032004
Date Completed 12-10-65
Document No. 60222.20

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED _____, AS SUBMITTED BY RESIDENT ENGINEER
TRACINGS CORRECTED BY: _____ DATE: _____

Average weight 35 lbs. per lineal foot (maximum)

BRIDGE DEPARTMENT
DESIGN SECTION
PROJECT DESIGNER H. Ahmad
CHIEF DESIGNER George A. Hood Jr.

DESIGN	BY H. Ahmad 9/64	CHECKED Jones 9/64	
DETAILS	BY H. Ahmad - 3/65	CHECKED Jones 3/65	
QUANTITIES	BY H. Hodge - 4/65	CHECKED [illegible] 4/65	
SPECIFICATIONS	BY	PLANS AND SPECS. COMPARED	
APPROVAL RECOMMENDED BY	ENGINEER OF DESIGN	CIVIL AND STRUCTURAL ENGINEER	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

TUOLUMNE STREET OVERCROSSING (ALTERATION)

STEEL RAILING

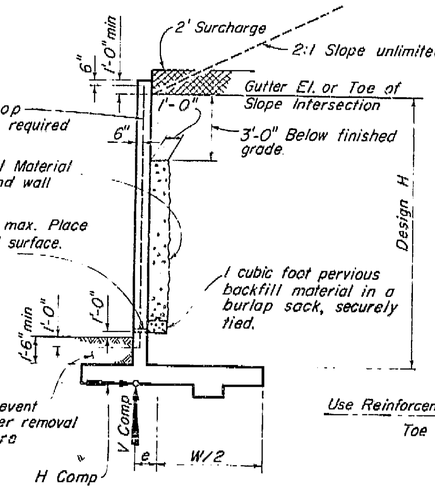
SCALE	BRIDGE	FILE	DRAWING
1"=1'-0" Except As shown	42-171	XS-9-49	42171-5

PREL DRAWING NO. P-84

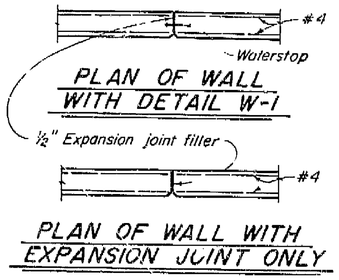
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DIST	COUNTY	ROUTE	SECTION	SHEET NO	TOTAL SHEETS
06	FRE	99	20.0/22.0	85	89

February 23, 1965

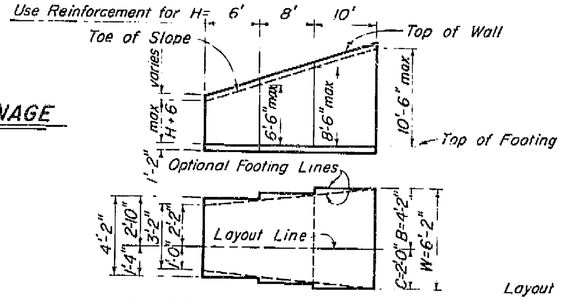


DESIGN AND DRAINAGE



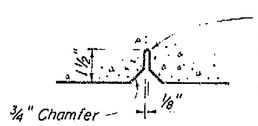
PLAN OF WALL WITH DETAIL W-1

PLAN OF WALL WITH EXPANSION JOINT ONLY

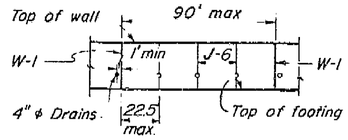


TYPICAL LAYOUT EXAMPLE

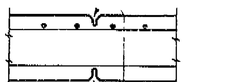
Note:
Bar cut-offs may be varied in increments of 6".



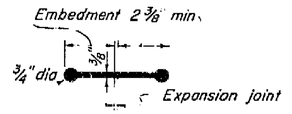
PLAN DETAIL J-6



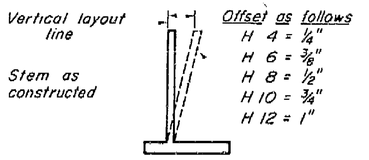
ELEVATION



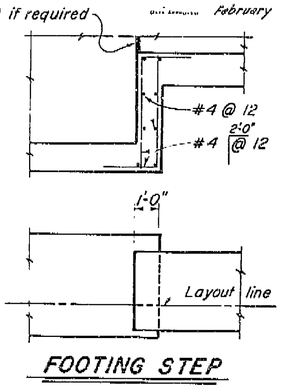
SECTION



WATERSTOP



WALL OFFSET



FOOTING STEP

NOTES

Design Conditions

Design H may be exceeded by 6" before going to the next size. Footing key is required except when found unnecessary by the Engineer. Special footing design is required where foundation material is incapable of supporting toe pressure loads listed in table.

Design Data

fc = 1200 psi f'c = 3000 psi fs = 20,000 psi
n = 10 earth = 120 pcf

Equivalent fluid pressure = 36 psf max for determination of toe pressure.
27 psf min for determination of heel pressure.

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED _____, AS SUBMITTED BY RESIDENT ENGINEER
TRACINGS CORRECTED BY: _____ DATE: _____

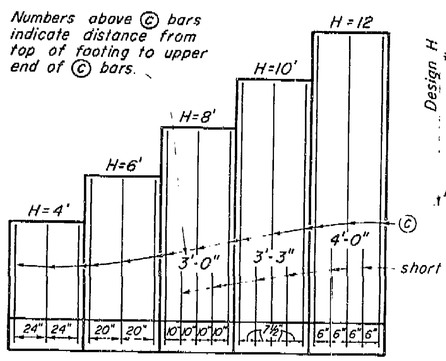
Note:
Reinforcement detailed is to be placed in addition to that shown for spread footing. All piles not shown, see Pile Layout on other sheet.

◉ For pile footing Design H=4' use same footing dimensions as Design H=6'

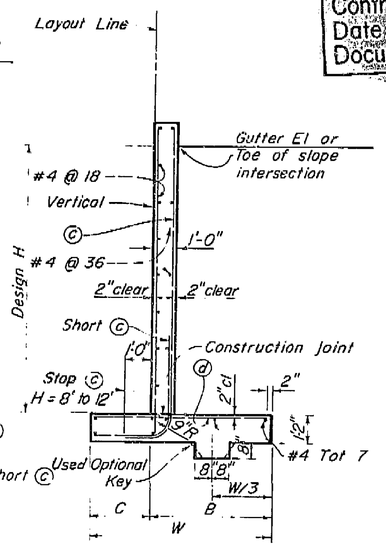
Note:
Quantities apply to Design H portion and exclude the added portion above "Gutter Elevation."

TABLE OF REINFORCING STEEL DIMENSIONS AND DATA

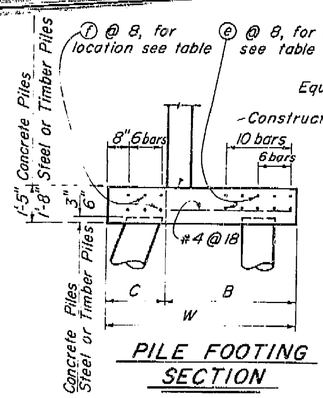
Design H		◉ 4'	6'	8'	10'	12'
W		3'-2"	4'-2"	5'-2"	6'-2"	7'-2"
C		1'-0"	1'-4"	1'-8"	2'-0"	2'-4"
B		2'-2"	2'-10"	3'-6"	4'-2"	4'-10"
ⓒ bars		#5 @ 24	#5 @ 20	#5 @ 10	#6 @ 7½	#7 @ 6
ⓓ bars		#5 @ 24	#5 @ 20	#5 @ 10	#7 @ 15	#7 @ 12
Total ⓔ bars		6 - #6	6 - #6	6 - #6	10 - #7	10 - #7
Total ⓕ bars					6 - #7	6 - #7
H Comp pounds		850	1440	2170	3050	4070
V Comp pounds		2020	3460	5230	7340	9760
e feet		.50	.60	.79	.94	1.07
Toe Pressure PSF		1240	1570	1930	2270	2640
Spread Footing	Steel lbs/ft	13	19	30	49	77
	Conc CF/ft	8.6	11.8	15.0	18.1	21.4
Conc Pile Ftg	Steel lbs/ft	24	30	41	82	112
	Conc CF/ft	9.9	11.9	15.4	18.8	22.2



ELEVATION



SPREAD FOOTING SECTION



PILE FOOTING SECTION

AS BUILT PLANS
Contract No. 06-032004
Date Completed 12-10-65
Document No. 60000020

AS BUILT
CORRECTIONS BY _____
CONTRACT NO. _____
DATE _____

1/64 — STATE OF CALIFORNIA, DEPARTMENT OF PUBLIC WORKS, DIVISION OF HIGHWAYS — File XS-3-48

TUOLUMNE STREET OVERCROSSING (ALTERATION)

TYPE 1-A RETAINING WALL

BRIDGE NO 42-171 | DRAWING NO 42171-4 | SHEET | OF

REVISION DATES (PRELIMINARY STAGE ONLY)

Disregard details bearing earlier revision dates →

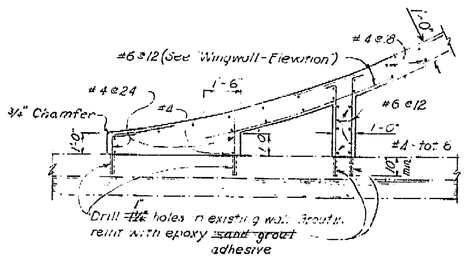
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ClibPDF - www.fastio.com

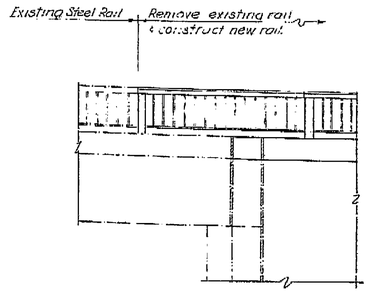
FED. ROAD DIST. NO.	STATE	F. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
06	FRE	99	20.2/22.0	84	89

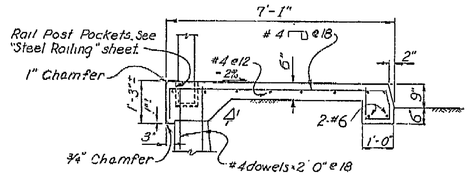
DATE APPROVED February 23, 1965



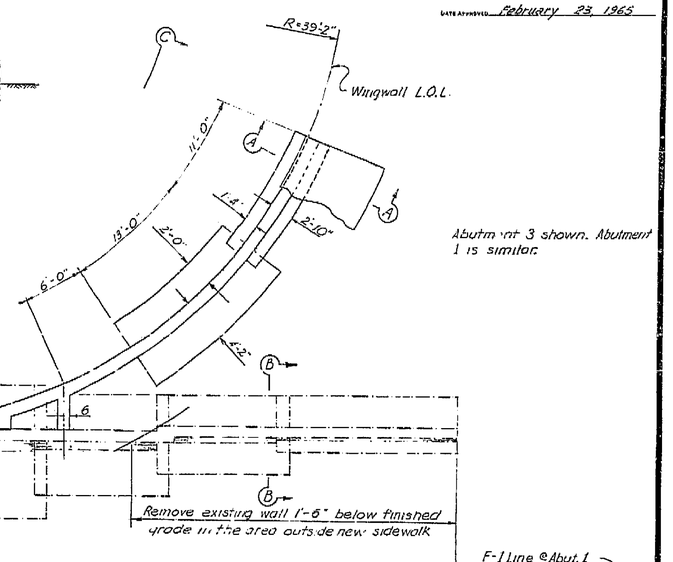
WALL DETAIL
3/8" = 1'-0"



STEEL RAIL DETAIL
ABUTMENT 1
1/2" = 1'-0"

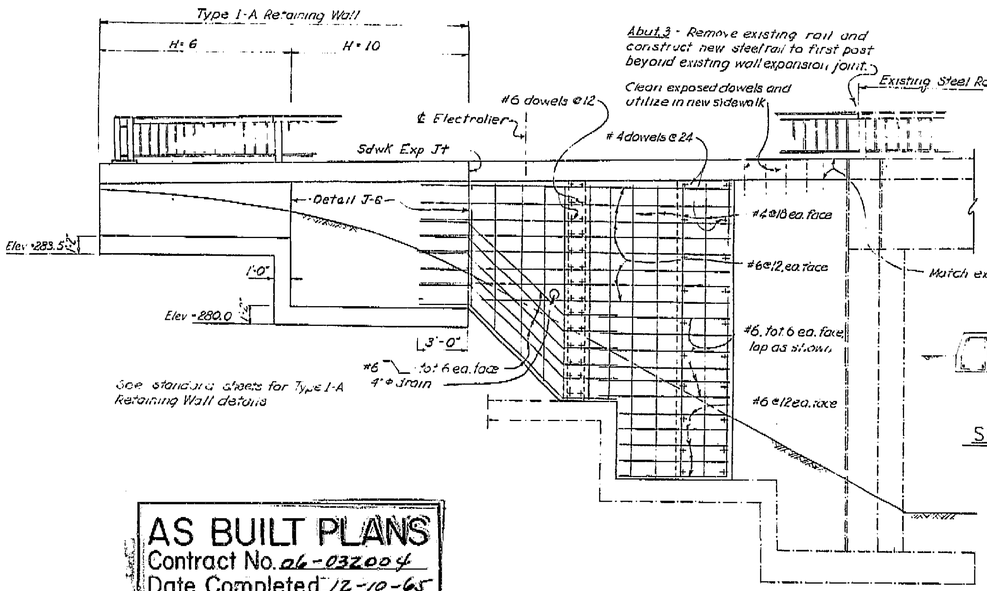


SECTION A-A
1/8" = 1'-0"

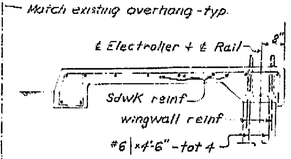


Abutment 3 shown. Abutment 1 is similar.

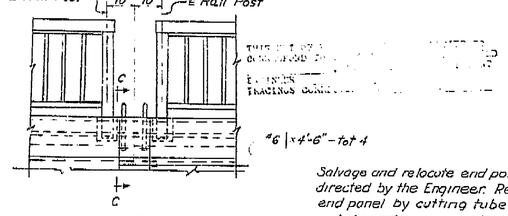
F-1 Line ℄ Abut. 1
F-2 Line ℄ Abut. 3



ELEVATION C-C
1/2" = 1'-0"

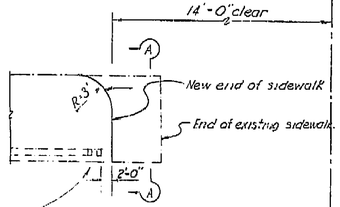


SECTION C-C
1/2" = 1'-0"

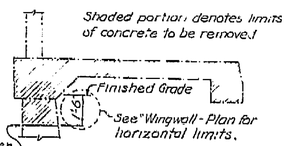


RAILING & REINF AT ELECTROLIERS
1/2" = 1'-0"

Salvage and relocate end post as directed by the Engineer. Refit end panel by cutting tube rail and channel as required.



WINGWALL - PLAN
3/16" = 1'-0"



SECTION B-B
3/8" = 1'-0"

AS BUILT PLANS
Contract No. 06-032004
Date Completed 12-10-65
Document No. 6000002.0

84

BRIDGE DEPARTMENT DESIGN SECTION 1			
Section Supervisor	George A. Hood		
DESIGN	By H. Hong		3/64
	Checked Bill Jones		3/64
DETAILS	By H. Hong		3/64
	Checked Bill Jones		4/64
QUANTITIES	By H. Hong		4/64
	Checked Mel Welch		4/64

Disregard prints bearing earlier revision dates →

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

TUOLUMNE STREET OVERCROSSING (ALTERATION)

CONSTRUCTION DETAILS

SCALE AS NOTED	BRIDGE 42-171	FILE	DRAWING 42171-3

PRELIMINARY DRAWING No. P 1/3/64

REVISION DATES

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FED. ROAD DIV. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.				

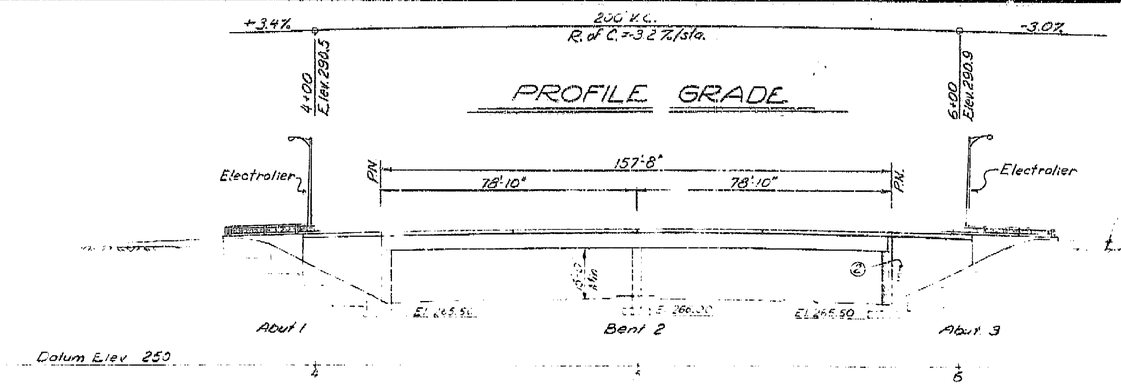
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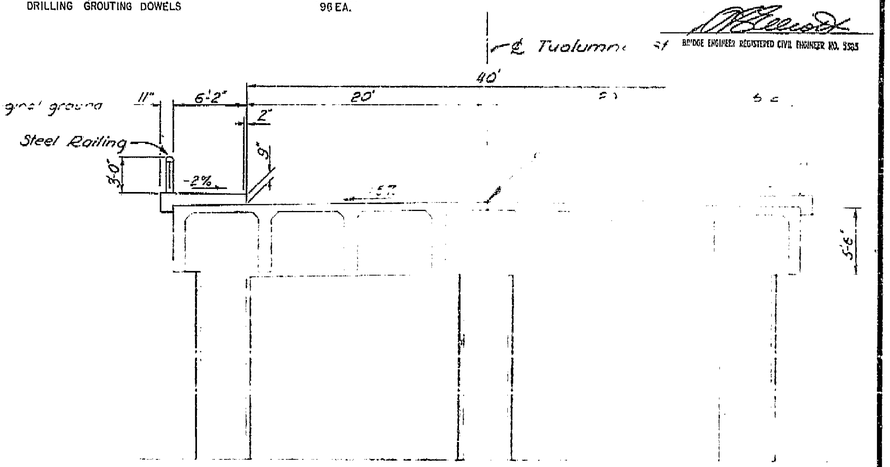
J. E. McMahon
ASSOCIATE HWY. ENGINEER, CIVIL ENGINEER 15218
DATE OF APPROVAL February 23, 1965

R. Tuolumne
BRIDGE ENGINEER REGISTERED CIVIL ENGINEER NO. 3325

APPROXIMATE QUANTITIES

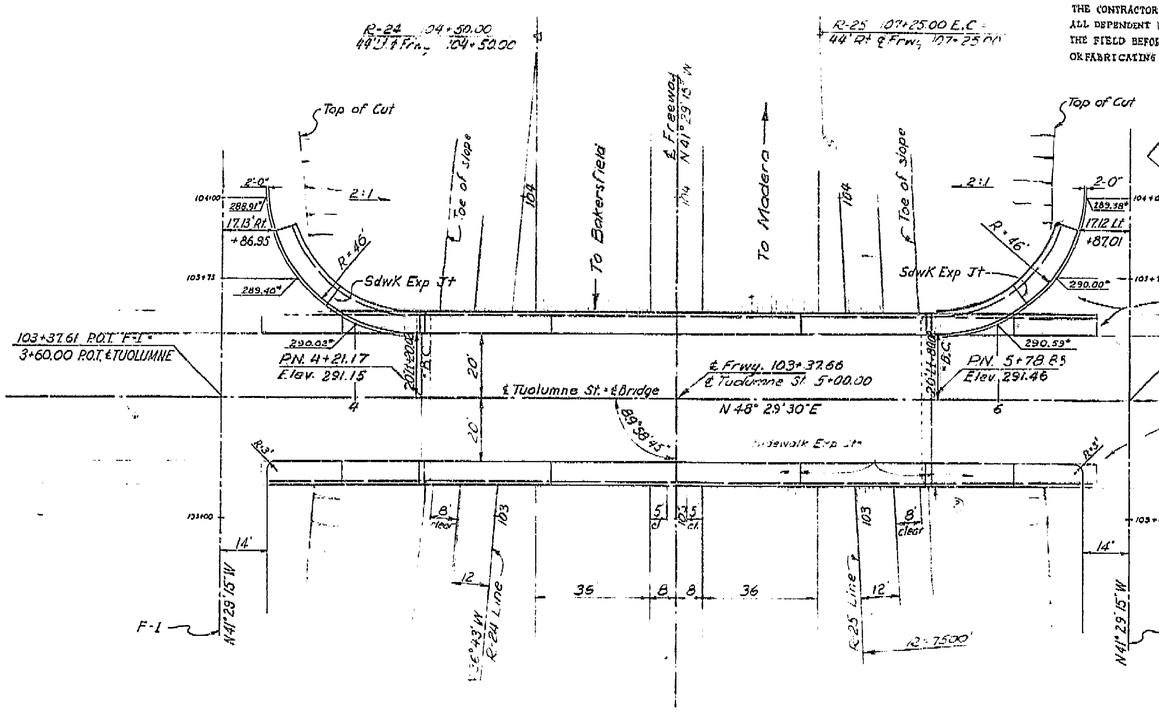
REMOVING PORTIONS OF BRIDGE	LUMP SUM
* STRUCTURE EXCAVATION (BRIDGE)	110 C.Y.
* STRUCTURE BACKFILL (BRIDGE)	95 C.Y.
* CLASS "A" CONCRETE (BRIDGE)	72 C.Y.
* BAR REINFORCING STEEL (BRIDGE)	6,500 LBS.
STEEL BRIDGE RAILING	102 L.F.
DRILLING GROUTING DOWELS	96 EA.





TYPICAL SECTION

NOTE:
THE CONTRACTOR SHALL VERIFY ALL DEPENDENT DIMENSIONS IN THE FIELD BEFORE ORDERING OR FABRICATING ANY MATERIAL



* Finished grade at new edge of pavement

Remove sidewalk & rail on existing left wingwalls. Construct new walls, sidewalk, & rail on revised alinement. Remove portions of wall in roadway area 1'-6" below finished grade. Typical at left side, Abuts. 1 & 3.

Reconstruct existing sidewalk 14'-0" clear of ℄ Frontage Road, F-1 at Abut. 1 and ℄ Frontage Road, F-2 at Abut. 3.

INDEX TO PLANS

Sheet No.	Title
81.	General Plan
82.	Foundation Plan
83.	Construction Details
84.	Type 1-A Retaining Wall
85.	Steel Railing

THIS PLAN REVISED TO CONFORM TO AS BUILT CONDITIONS DATED 11/12/1965
ENGINEER R. C. Anderson
RECOMMENDED 11/16/1965

APPROXIMATE QUANTITIES

AS BUILT
CONTRACTOR BY
CONTRACT NO.
DATE

AS BUILT PLANS
Contract No. 06-032004
Date Completed 12-10-65
Document No. 60000020

For General Notes see "Foundation Plan" sheet

① Paint Br. No. & Date
② Paint "Tuolumne St." Br. No. & Date

PLAN

1"=20'

BRIDGE DEPARTMENT
*** DESIGN SECTION *** 1
Project Designer H. Hung
Chief Designer George K. Hood Jr.

DESIGN	H. Hung	3/64	Checked K.H. 11/64
DETAILS	H. Hung	3/64	Checked K.H. 11/64
QUANTITIES	H. Hung	3/64	Checked K.H. 11/64
SPECIFICATIONS	H. Hung	3/64	Plans and Specs. Checked K.H. 11/64
Approved Recommended	Chief of Section	Date	Chief of Bureau

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

TUOLUMNE STREET OVERCROSSING (ALTERATION)

LOCATED AT THE EXISTING INTERSECTION OF "O" AND TUOLUMNE STREETS IN THE CITY AND COUNTY OF FRESNO

GENERAL PLAN

SCALE AS NOTED | BRIDGE 42 S 171 | FILE | DRAWING 42 I 7/2-1

PREL. DRAWING No. P 264/1

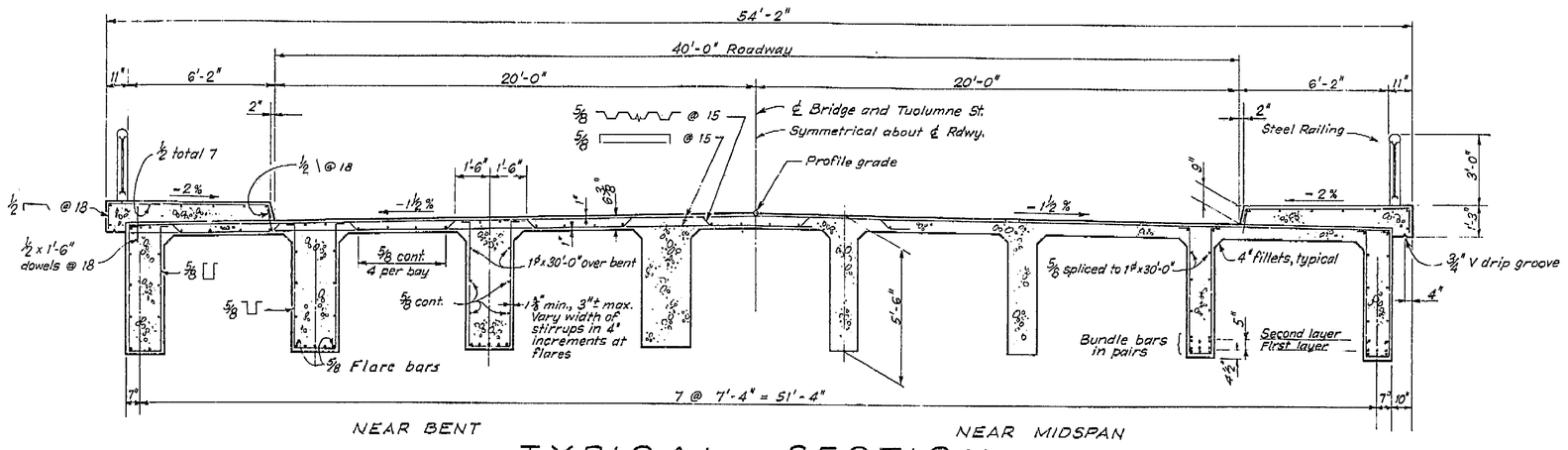
L.L. M20-516-44

W.O. 62-067101H0320.0

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			124	147

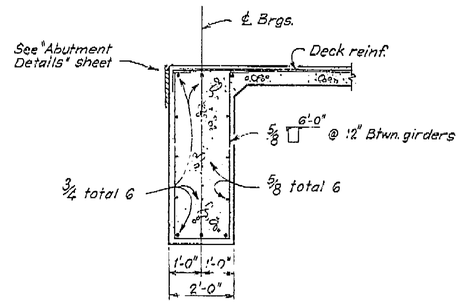
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	41	FRE	8	41-1--

Date Approved December 27 1955



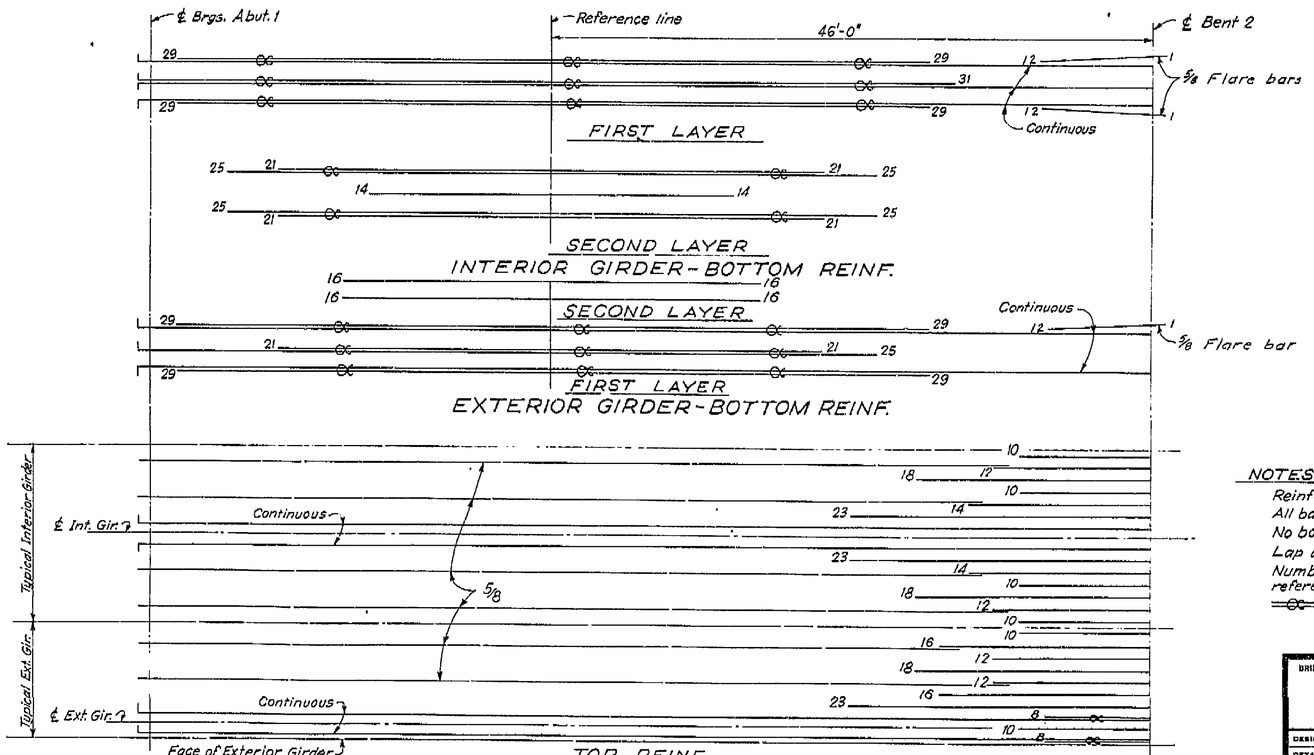
TYPICAL SECTION

Scale: 3/8" = 1'-0"



SECTION END DIAPHRAGM

Scale: ½"=1'-0"



TOP REINF. GIRDER REINFORCEMENT

Scale: None

AS BUILT PLANS
Contract No. 56-67C2
Date Completed
Document No. 60000987

NOTES:

Reinforcement for Span 2 similar.
All bars are 1¼ except as noted.
No bottom reinforcement splices permitted in center ⅓ of span.
Lap all splices 35 diameters, and stagger.
Numbers at ends of bars are distances in feet from reference line or center line Bent 2.
=OC=, indicates bundled bars.

AS BUILT
DATE 7/9/58 BY

BRIDGE DEPARTMENT
··· DESIGN SECTION ···
8
Project Designer W. F. Johnson 4-55
Chief Designer Cecil H. Degenhardt

DESIGN	by R. H. Davis 8-55	Checked H.K.Yuen 5-55	
DETAILS	by A.H.MYCZEK 4-55	Checked H.K.Yuen 5-55	
QUANTITIES	by J. Sabol 5-55	Checked C. Degenhardt 5-55	
SPECIFICATIONS	by	Plans and Specs. Completed	
Approval Recommended by W. F. Johnson Engineer of Design		Civil and Structural Engr. Supervisor 5-55	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

TUOLUMNE ST. OVERCROSSING-

TYPICAL SECTION & GIRDER REINFORCEMENT

SCALE AS NOTED | BRIDGE 42-171 | FILE | DRAWING C-4097-8 #1

PREL. DRAWING No. P-4097 V V 21

124

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

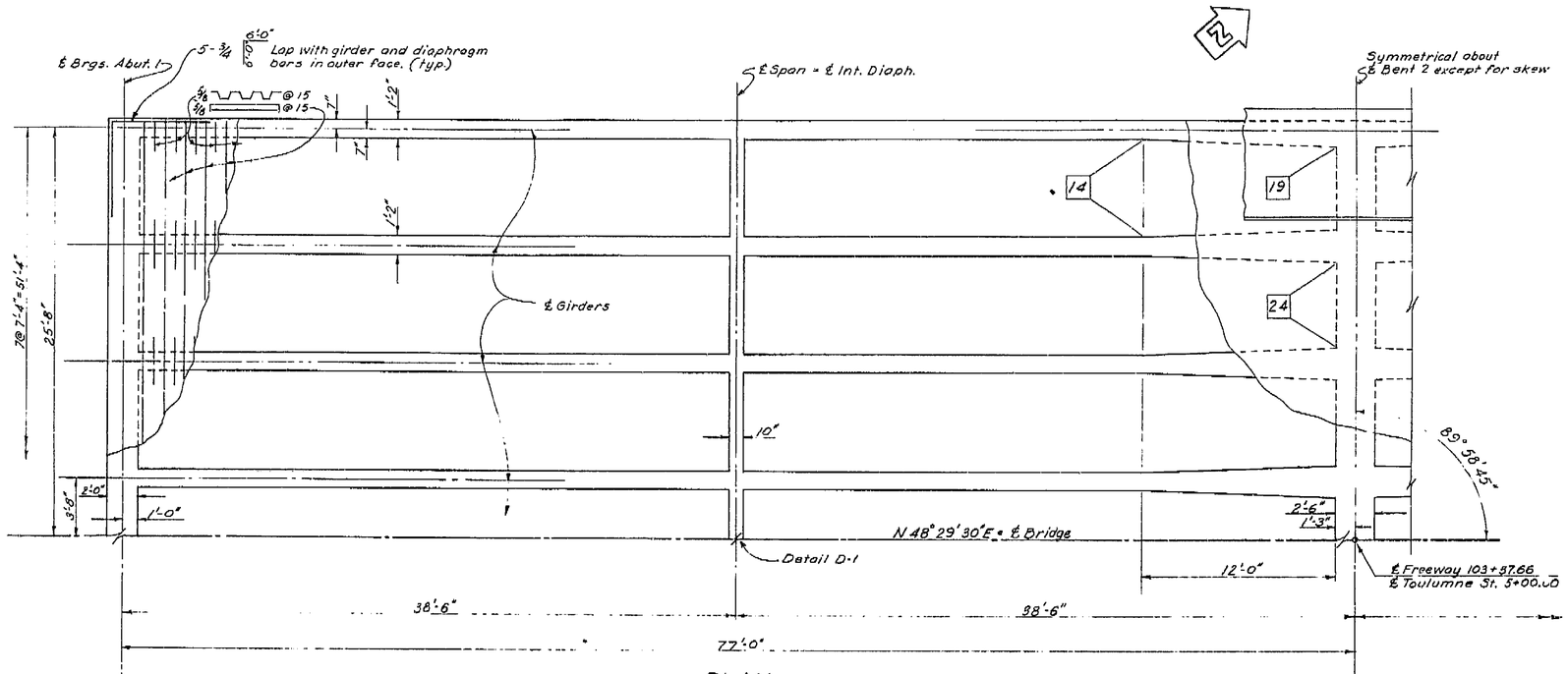
DATE June 27 1911 SIGNATURE [illegible] TITLE [illegible]

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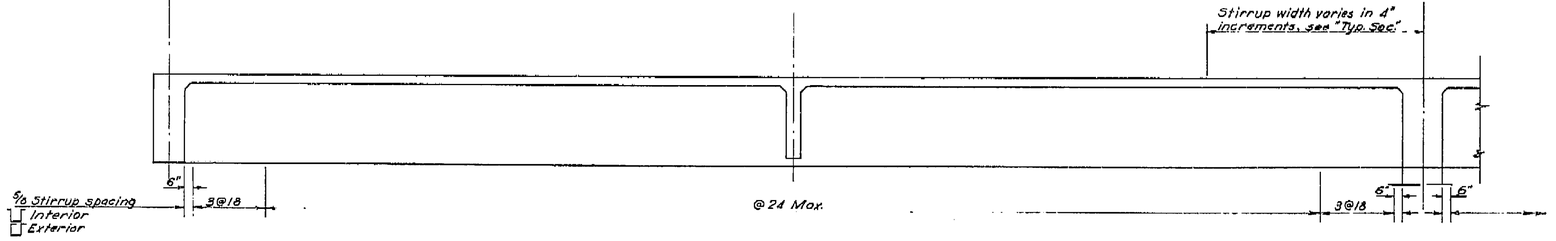
FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			123	147

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	4-1	FRE	7	11

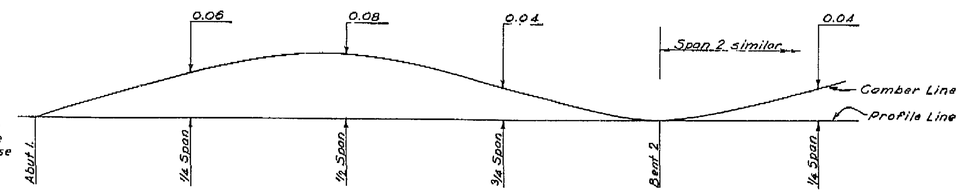
DATE APPROVED December 27, 1955



PLAN

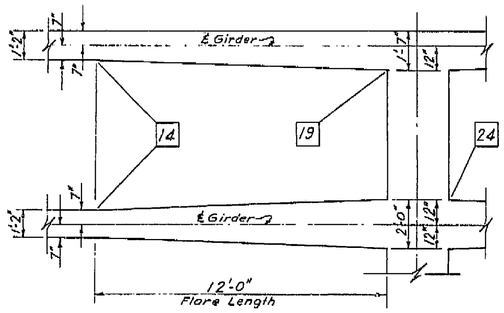


SECTION



NOTE:
The total deflection will be reached about 4 yrs. after falsework removal. For values at time of falsework removal, divide those shown by 4.
The amount of camber for construction will be determined by the Engineer.

CAMBER DIAGRAM FOR TOTAL GIRDER DEFLECTION DUE TO DEAD LOADS
No Scale



GIRDER FLARE DETAIL
No Scale

AS BUILT
DATE 3/29/71 BY [illegible]

BRIDGE DEPARTMENT			
DESIGN SECTION — 8			
Project Designer W. T. Johnson 4-55			
Chief Designer C. H. Dyer			
DESIGN	By R.W. Cox 4-55	Checked [illegible]	5-55
DETAILS	By R.K. Young 7-55, R.W. Cox 4-56	Checked [illegible]	5-55
QUANTITIES	By J. Hulland 5-55	Checked [illegible]	5-55
SPECIFICATIONS	By	Plans and Plans Completed	
Approval Recommended by [illegible]		Civil Engineer No. 5935	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

TUOLUMNE STREET -OVERCROSSING-

GIRDER LAYOUT

Except as noted SCALE ½"=1'-0" | BRIDGE 42-171 | FILE | DRAWING C-4097-7

PREL. DRAWING No. P-4097 [illegible]

AS BUILT PLANS
Contract No. 56-6TC2
Date Completed
Document No. 60000987

123

394

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE June 22 1971 SIGNATURE [illegible] TITLE [illegible]

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Tuolumne St. O.C

FED. ROAD DIV. No.	STATE	PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
7	CAL.			126	147

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	Fre	-4-	-Fre	10	11

DATE APPROVED December 27 1955

BRIDGE DEPARTMENT

Distance: 85.10 ft
Distance: 90.42 ft
Distance: 73.11 ft
Distance: 35.41 ft
Distance: 25.42 ft
Distance: 26.88 ft
Distance: 19.95 ft
Distance: 17.22 ft
Distance: 29.37 ft
Distance: 30.79 ft
Distance: 83.61 ft
Distance: 78.09 ft

B-4 B-2 B-1 B-6 B-3 B-5

VI-Fre-4-Fre Line

To Merced

℄ Tuolumne Street

To Bakersfield

103

AS BUILT PLANS
Contract No. 56-6TC.2
Date Completed
Document No. 60000987

BM #103.2 R.R. Spike in T.P.
S.W. Cor. Tuolumne ℄ D
Elev. 288.09

88'Lt. "VI-Fre-4-Fre" Sta. 103+62
83'Lt. "VI-Fre-4-Fre" Sta. 103+72
81'Lt. "VI-Fre-4-Fre" Sta. 103+08
17'Lt. "VI-Fre-4-Fre" Sta. 103+18
71'Rt. "VI-Fre-4-Fre" Sta. 103+64
76'Rt. "VI-Fre-4-Fre" Sta. 103+08

AS BUILT
DATE 5/1/57 BY C.S. Fuller

B-2 El. 286.2 — Dense tan & red-brown fine to medium sand; Very dense brown fine partially cemented sand; Dense tan dry fine clean sand; Dense fine buff sand-some silt; Very dense fine partially cemented brown sand

B-4 El. 287.3

B-3 El. 287.6

B-6 El. 287.2 — Loose coarse brown sand; Very dense hard cemented tan fine sand; Compact clean brown coarse sand; Dense tan fine sand; Compact clean brown medium sand; Dense to very dense buff damp fine sand-some silt; Very dense buff & tan medium sand; Very dense tan fine sand some silt.

Existing ground line

B-1 El. 287.5

B-5 El. 287.4

No ground water encountered

1-28-55

290 280 270 260 250 240

FIELD STUDY by R. Hager - Jan. 1955
DRAWN by M. Hensel 2-9-55
CHECKED by R. Hager 2-18-55
Approval Recommended by [signature] Bridge Engineer
[signature] Bridge Engineer

CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS

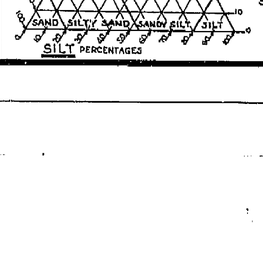


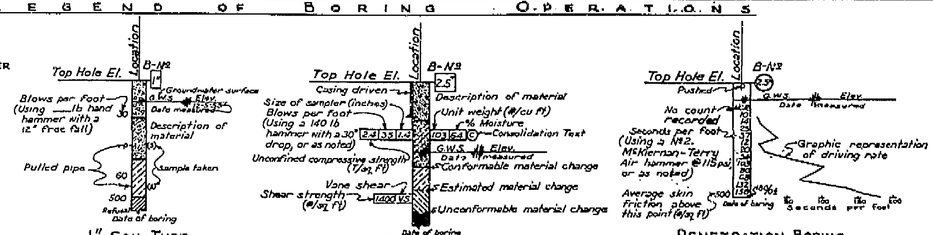
DIAGRAM SHOWING THE BASIS FOR ESTIMATES OF GRADE SIZE DISTRIBUTION USED IN DETERMINATION OF CLASS NAMES. IF GRAVEL IS PRESENT IN APPRECIABLE AMOUNTS THE TERM "GRAVELLY" MAY BE ADDED TO THE CLASS NAME, VIZ. "GRAVELLY SAND." THE TERMS "COARSE," "MEDIUM" AND "FINE" WHEN USED TO DESCRIBE SAND, SILT AND GRAVEL REFER TO STANDARD GRADE SIZE LIMITS.

LEGEND OF EARTH MATERIALS

- GRAVEL
- SAND
- SILT
- CLAY
- SANDY CLAY OR CLAYEY SAND
- SANDY SILT OR SILTY SAND
- SILTY CLAY OR CLAYEY SILT
- PEAT AND/OR ORGANIC MATTER
- FILL MATERIAL
- IGNEOUS ROCK
- SEDIMENTARY ROCK
- METAMORPHIC ROCK

LEGEND OF BORING OPERATIONS

- PLAN OF ANY BORING
- PENETROMETER
- 2½" CONE PENETROMETER
- SAMPLER BORING (DRY)
- ROTARY BORING (WET)
- AUGER BORING (DRY)
- JET BORING
- CORE BORING
- TEST PIT



NOTES

The contractor's attention is directed to Section 2, Article (c) of the Standard Specifications and to the Special Provisions accompanying this set of plans.
Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

TUOLUMNE STREET OVERCROSSING

LOG OF TEST BORINGS

SCALE 1" = 10' | BRIDGE 42-171 | FILE | DRAWING C-4097-10

PREL. DRAWING NO. P-4097 2

126

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE June 23 1911 SIGNATURE [signature] TITLE Highway Transportation Agent

ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			117	147

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	41	FRE	1	11

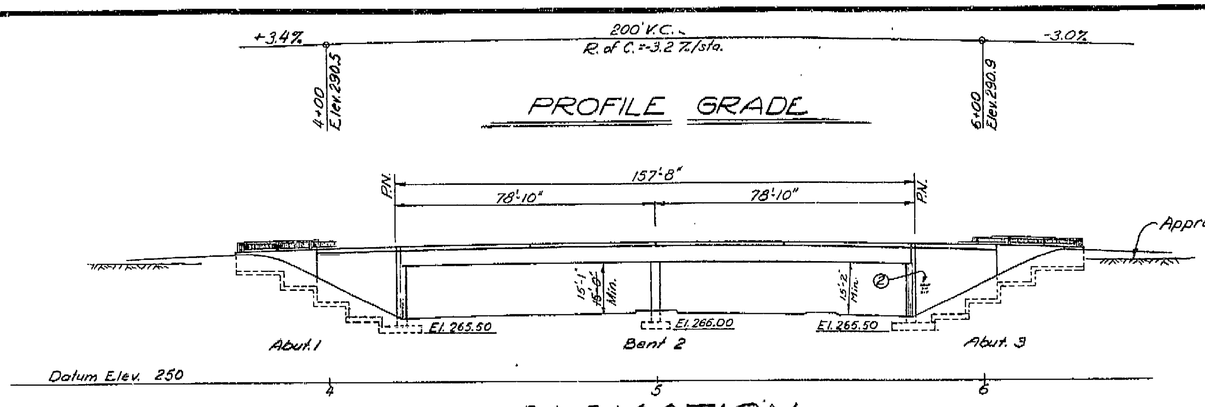
P.M. ~~20.7~~ 57.1

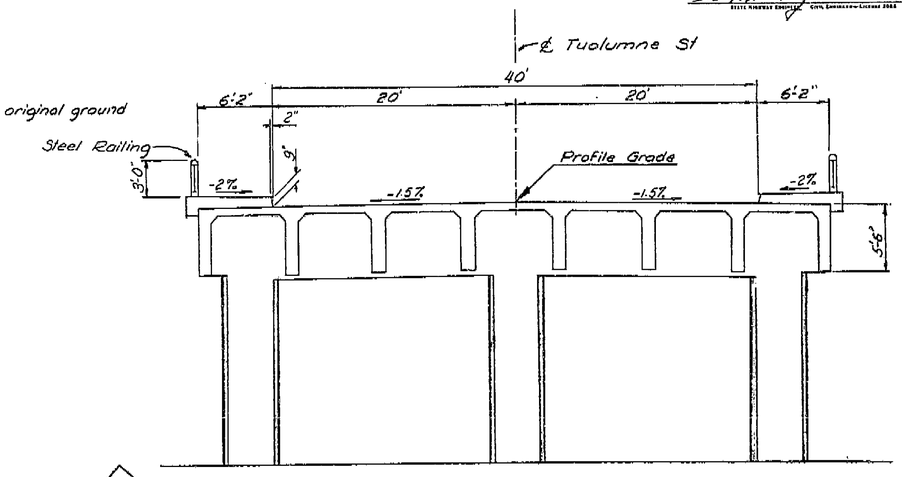
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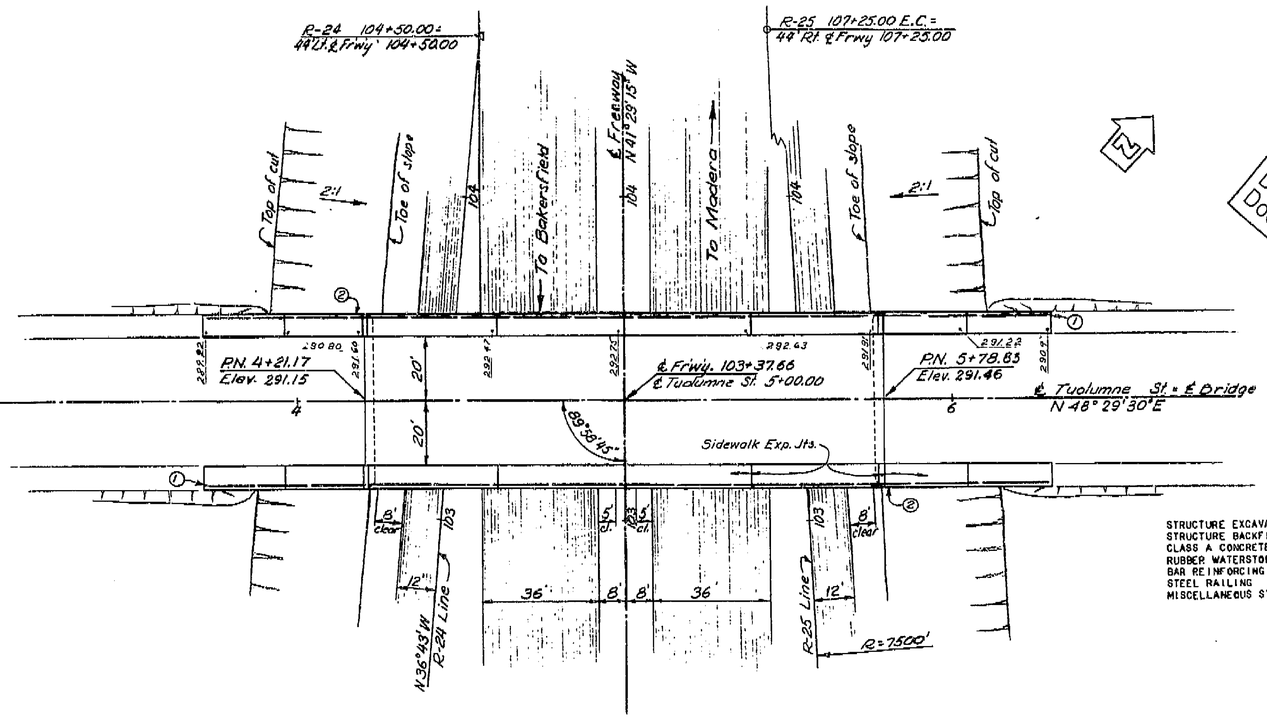
Assistant State Highway Engineer — Civil Engineer License 5858

Date Approved December 27, 1955

State Highway Engineer — Civil Engineer License 2068







AS BUILT PLANS
Contract No. 56-6TC2
Date Completed
Document No. 6000009877

INDEX TO PLANS

Sheet No.	Title
1.	General Plan
2.	Foundation Plan
3.	Abutment Layout
4.	Abutment Details
5.	Type 1 Cantilever Retaining Wall
6.	Bent 2
7.	Girder Layout
8.	Typical Section & Girder Reinforcement
9.	Standard Details
10.	Log of Test Borings
11.	Lighting Plan

See Kern St. Overcrossing Br. No. 42-159 For:

Concrete Girder Placing Diagram, Bearing Details, "Miscellaneous Details" sheet.
Railing Details, "Steel Railing" sheet.

APPROXIMATE QUANTITIES

STRUCTURE EXCAVATION	1,080 C.Y.
STRUCTURE BACKFILL	1,410 C.Y.
CLASS A CONCRETE (BRIDGE)(1,220 C.Y.)	LUMP SUM
RUBBER WATERSTOPS	135 L.F.
BAR REINFORCING STEEL(BRIDGE)(230,000 LBS.)	LUMP SUM
STEEL RAILING	512 L.F.
MISCELLANEOUS STEEL	6,700 LBS.

AS BUILT
DATE 1/1/ BY C. E. Inman

56-6TC2

For General Notes see "Foundation Plan" sheet

① Paint Br. No. & Date
② Paint "Tuolumne St.", Br. No. & Date

L.L.: H20-S16-44

BRIDGE DEPARTMENT
DESIGN SECTION ... 8
Project Designer W. F. Johnson 4-55
Chief Designer Dick H. Campbell

DESIGN	By W. F. Johnson	4-55	Checked	5-55	
DETAILS	By D. H. Campbell	7-55	Checked	5-55	
QUANTITIES	By	5-55	Checked	5-55	
SPECIFICATIONS	By		Plans Ind. Spec. Contained		

Approval Recommended by — Chief and Structural Engineer

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

56-6TC2 SEP

TUOLUMNE STREET OVERCROSSING
LOCATED AT THE EXISTING INTERSECTION OF "D" AND TUOLUMNE STREETS IN THE CITY AND COUNTY OF FRESNO

GENERAL PLAN

SCALE	As Noted	BRIDGE	42-171	FILE	DRAWING	C-4097-1

PREL. DRAWING NO. P-4097

147

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

ClibPDF - www.fastio.com

FED. ROAD DIST. NO.	STATE	COUNTY	PROJECT NO.	SHEET NO.	TOTAL SHEETS
2	CAL.			125	147

DIST.	COUNTY	ROUTE	KILOPOST	SHEET NO.	TOTAL SHEETS
VI	Fre	-41	Fre	9	11

Bruce Emsley 5585
APPROVED December 27, 1955

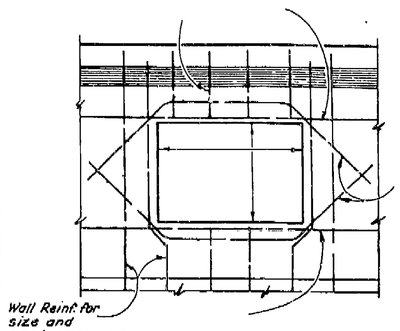
AS BUILT PLANS
Contract No. 56-67C2
Date Completed
Document No 60008987

AS BUILT
DATE BY

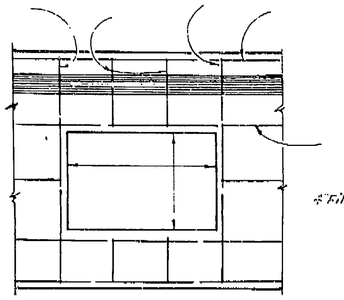
ARD DWG

Initial	Date
R.A.	10-53

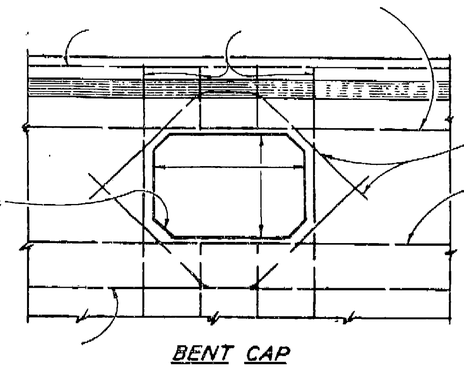
BRIDGE DEPARTMENT



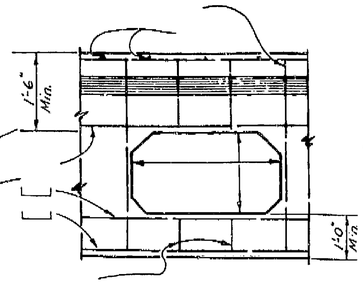
ABUTMENT BACKWALL
DETAIL U1



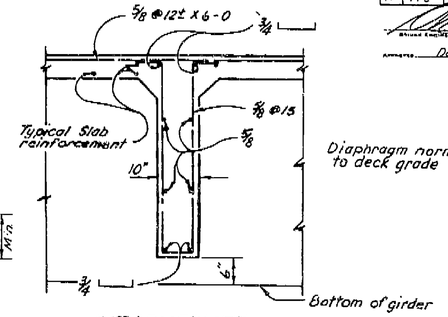
END DIAPHRAGM
DETAIL U2



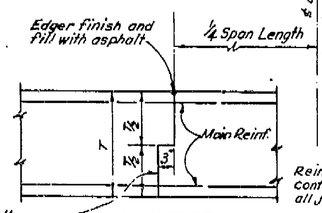
BENT CAP
DETAIL U3



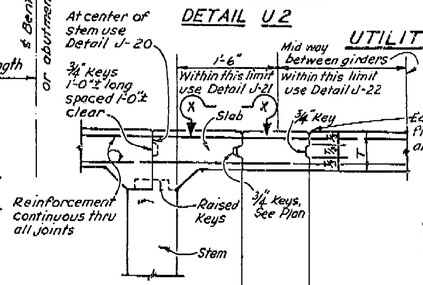
INTERMEDIATE DIAPHRAGM
DETAIL U4



INTERMEDIATE DIAPHRAGM SECTION
DETAIL D1

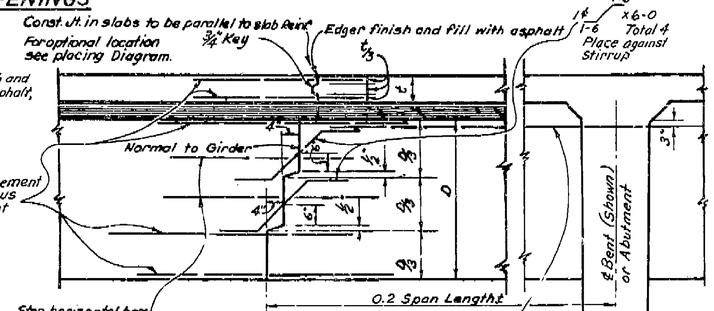


TRANSVERSE SLAB BRIDGE
DETAIL J-1



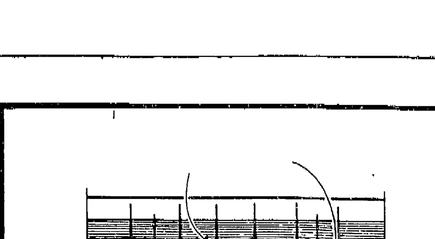
UTILITY OPENINGS

DETAIL J-20 DETAIL J-21 DETAIL J-22

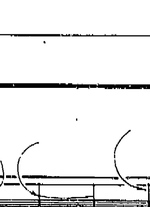


TRANSVERSE GIRDER
DETAIL J-3

2-1 ℄ between 0.2 points of spans except if noted otherwise in the Reinforcement details.



SECTION A-A

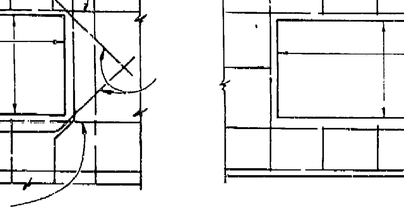


PART PLAN X-X

Note: Location of longitudinal construction joints in slabs to be at edge of traffic lanes except as approved by the Engineer

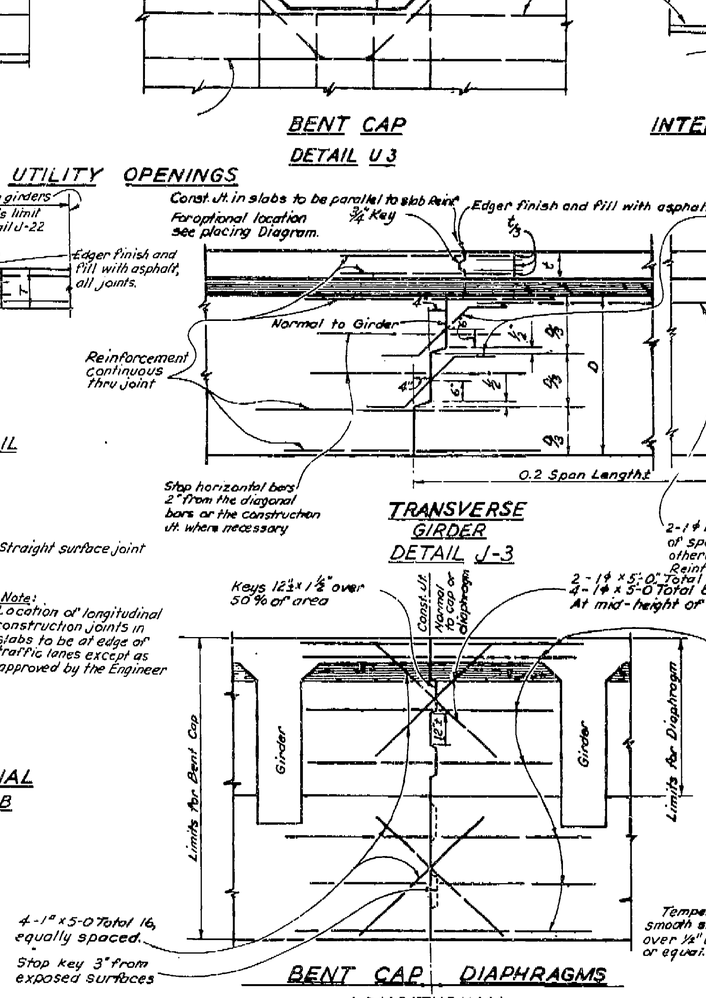
LONGITUDINAL DECK SLAB

PART SECTION EXTERIOR GIRDER WITH SLAB CANTILEVER

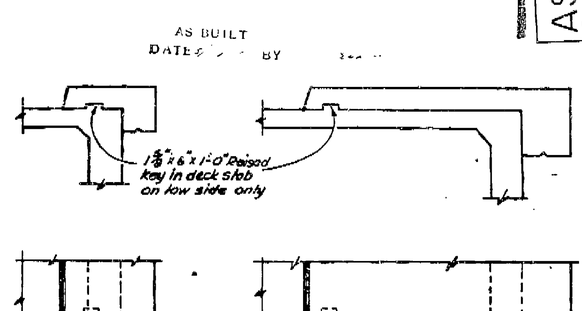


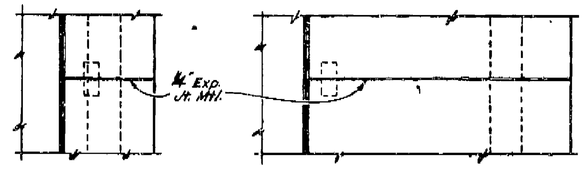
PART SECTION EXTERIOR GIRDER WITH CURB

KEY - GIRDER STEM TO SLAB
DETAIL J-5



BENT CAP DIAPHRAGMS
LONGITUDINAL
DETAIL J-4



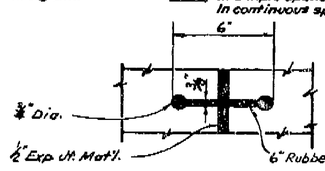


CURB
DETAIL C1

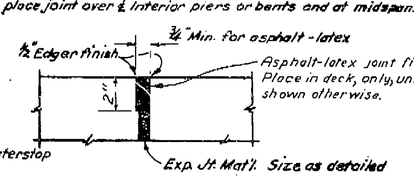
SIDEWALK
DETAIL S1

CURB AND SIDEWALK EXPANSION JOINTS

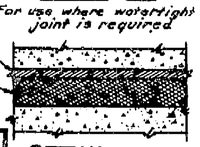
NOTE: In simple spans place joint at midspan. In continuous spans place joint over ℄ interior piers or bents and at midspans.



RUBBER WATERSTOP
DETAIL W1



LATEX AT EXPANSION JOINT
DETAIL L1



For use where watertight joint is required

DETAIL M-1

DESIGN SECTION
A. J. Johnson 4-55
CHIEF ENGINEER

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

TUOLUMNE STREET OVERCROSSING

STANDARD DETAILS

SCALE None	BRIDGE 42-171	XS-16-21	DRAWING C-4097-9

PREL. DRAWING NO. P-4097 H 22

T BEAM

CONSTRUCTION JOINTS

25

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE June 29, 1971 SIGNATURE [illegible] TITLE [illegible]

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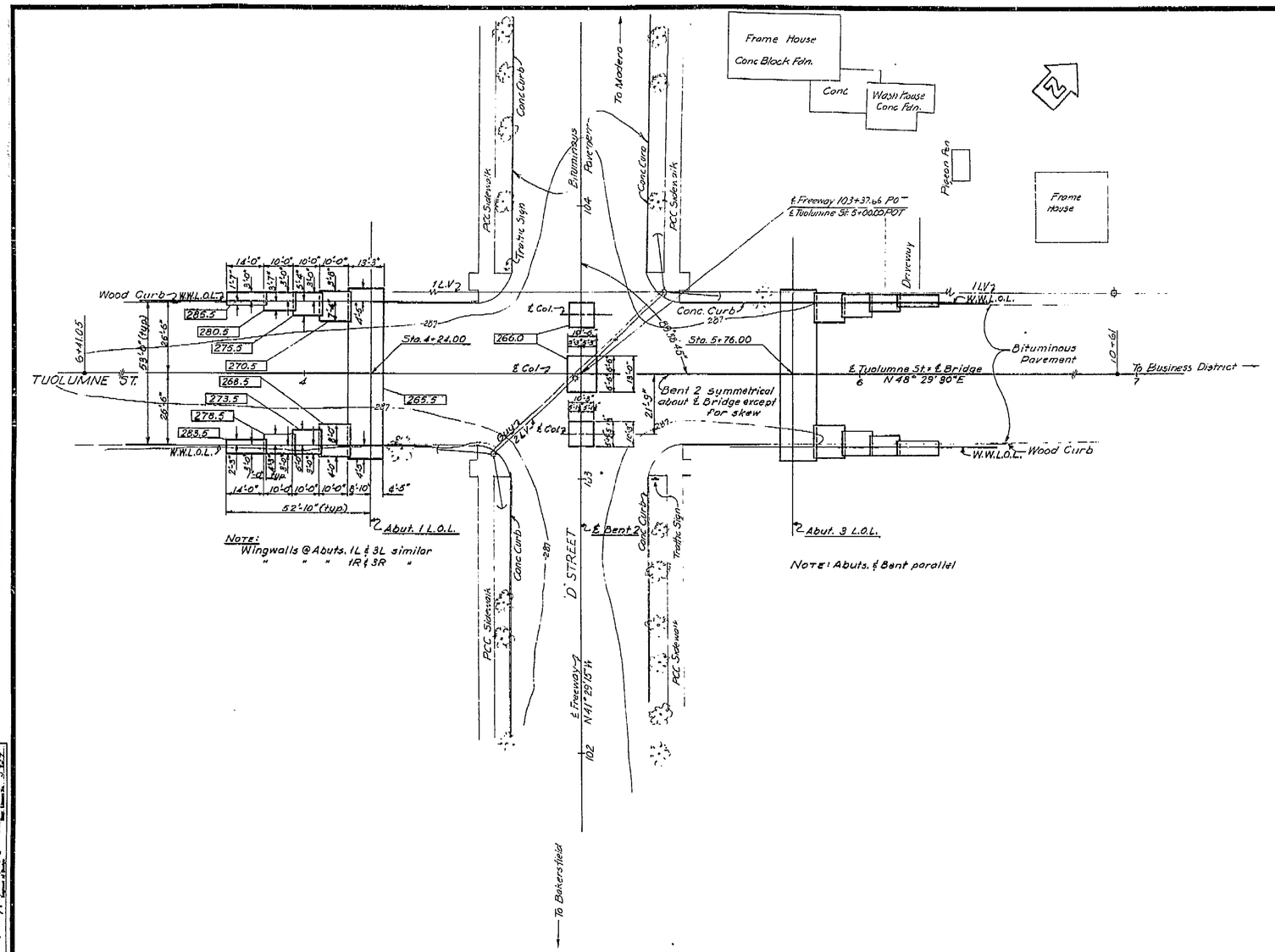
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7	CALIF.			118	147

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	4	FRE	2	11

DIVISION ENGINEER — STATE ENGINEER — LICENSE 5585

DATE APPROVED December 27, 1955

BRIDGE DEPARTMENT



GENERAL NOTES

SPECIFICATIONS:

DESIGN: A.A.S.H.O. DATED 1953 WITH SUBSEQUENT REVISIONS, AND BRIDGE DEPARTMENT SUPPLEMENT DATED 1953.

CONSTRUCTION: STANDARD SPECIFICATIONS, DIVISION OF HIGHWAYS, DATED AUGUST 1954 AND THE SPECIAL PROVISIONS.

LIVE LOADING: H20-S16-44

UNIT STRESSES:

REINFORCED CONCRETE: f_s = 20,000 P.S.I., f_c = 1250 P.S.I., N = 10

FOOTING PRESSURE:

ELEV.	DESIGN LOAD
267-281	2.0 TONS P.S.F.
AT OR BELOW 267	3.5 TONS P.S.F.

REINFORCEMENT: EMBEDMENT IS CLEAR TO OUTSIDE OF BAR AND IS 2" TO MAIN REINFORCEMENT, EXCEPT AS NOTED. BACKING FOR HOOKS IS FOUR DIAMETERS, EXCEPT AS NOTED.

BAR AREAS ARE BASED ON ROUNDS FOR LESS THAN 1" AND SQUARES FOR OVER 1".

WHERE REINFORCING BARS ARE SPLICED THEY SHALL HAVE A 20 DIAMETER LAP UNLESS OTHERWISE CALLED FOR ON THE PLANS.

AS BUILT PLANS
Contract No. 56-6TC2
Date Completed
Document No. 60000987

AS BUILT
DATE 5/ BY

	Submitted by	Recommended by	Approved by
DESIGN			
DETAILS			
QUANTITIES			
SPECIFICATIONS			

Surveyed By JSH. -54
Drawn by JSH 1-55
Traced by JGS 2-14-55

118

BM "B"
1" I.P. Flush in oil
℄ Tuolumne St 6+41.05
Elev 286.97

BM "103.2"
RR Spike in T.R.
SW cor Tuolumne & 'D' Sts.
Elev 288.09

BM "A"
1" I.P. Flush in oil
℄ Tuolumne St 10+61
Elev 287.83

Bench Marks based on City of Fresno Datum

000.00 Indicates bottom of Pfg. elev's.
Contours as of Nov. 1954

DESIGN SECTION 8
W. F. Johnson 4-55
PROJECT DESIGNER

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

TUOLUMNE STREET OVERCROSSING

FOUNDATION PLAN

SCALE 1" = 20'	BRIDGE 42-171	FILE	DRAWING C-4097-2

PREL. DWG. NO. P 4097 W 15

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DATE June 28, 1971 SIGNATURE TITLE

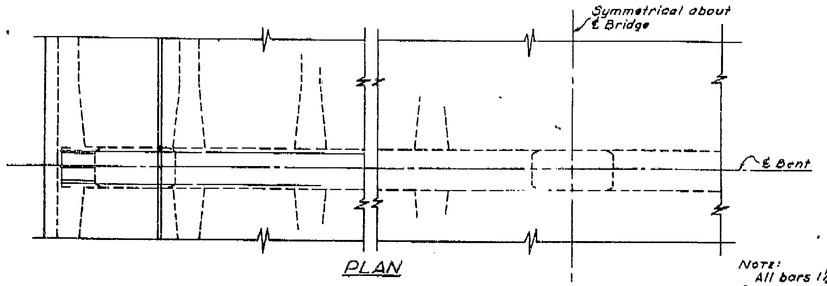
ClibPDF - www.fastio.com

4

FED. ROAD DIV. NO.	STATE	PROJ. CO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			122	147

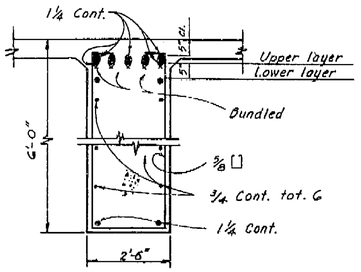
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	4	FRE	6-11-	

December 27, 1955

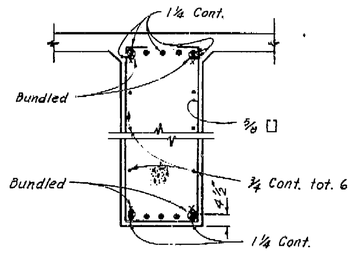


PLAN

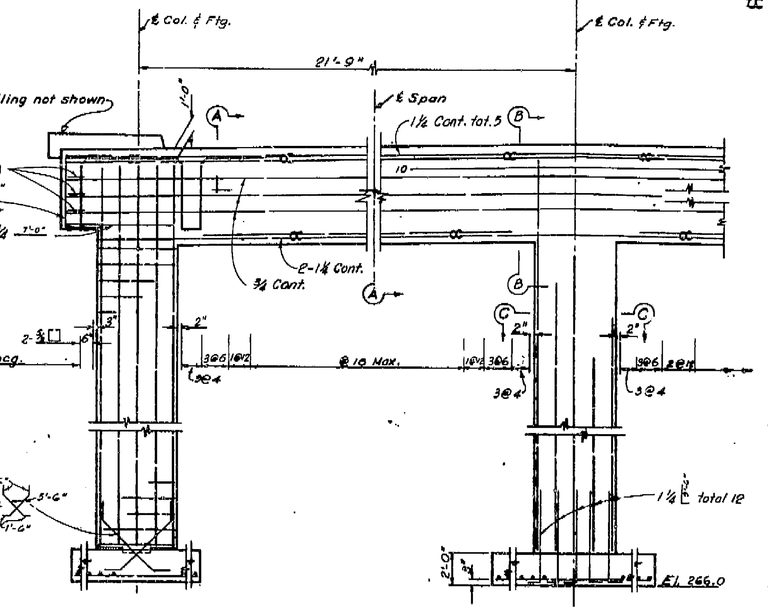
NOTE:
All bars 1¼ unless otherwise called for. Numbers at ends of bars indicate length from ℄ span or ℄ column.
CC Indicates bundled bars.



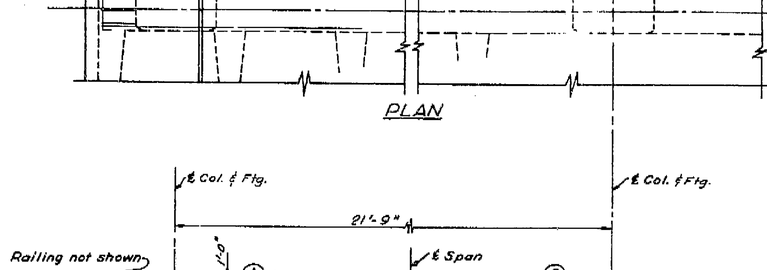
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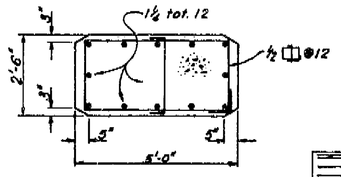
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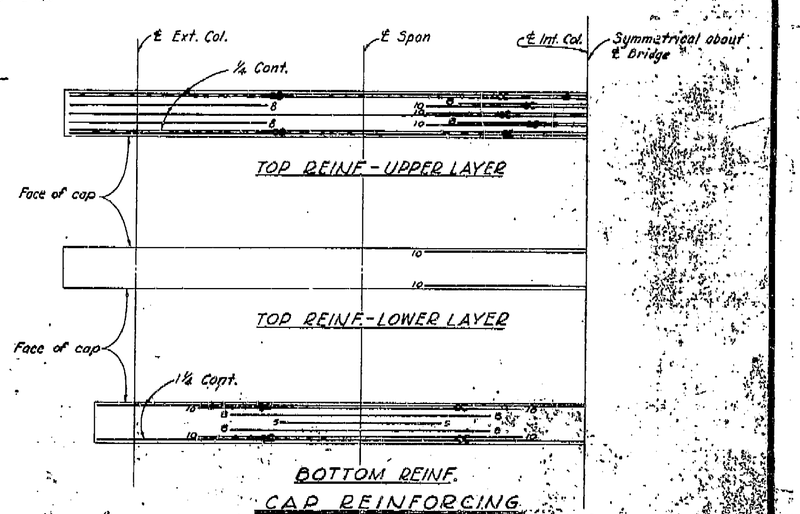
ELEVATION



FOOTINGS



SECTION C-C
Scale: ½"=1'-0"



BOTTOM REINF.
CAP REINFORCING
NO SCALE

AS BUILT PLANS
Contract No. 56-6TC2
Date Completed
Document No. 60000987

AS BUILT
DATE 5/5/60 BY D.S. Nelson

DESIGN SECTION 8
Project Engineer M. H. Johnson 4-56
Chief Engineer A. F. Kelly 4-56

DESIGN	G.R.H.	3-56	A.H.M. 5-56
DETAILS	G.R.H.	3-56	A.H.M. 5-56
QUANTITIES	J.L.C.	3-56	C.F.C. 5-56
SPECIFICATIONS	J.L.C.	3-56	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

TUOLUMNE STREET OVERCROSSING
BENT 2

As Noted and Scale ½"=1'-0" | 42-171 | FRE | 4 | 10.7 - 8.4

PREL. DRAWING No. 4097 | 9 | 14 | 21

Std. sheet - (Stan. Tuo. Tul. Kern) (VI Fre 4 Fre) 51 Sht.

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE June 7, 1960 SIGNATURE _____ TITLE _____

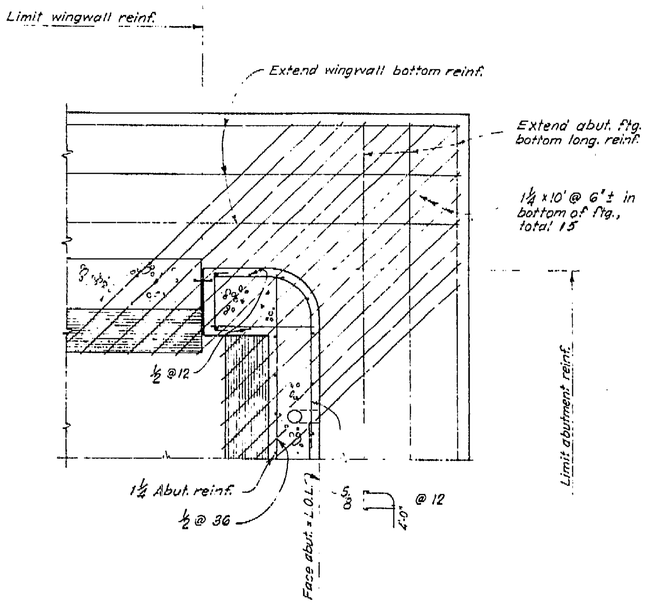
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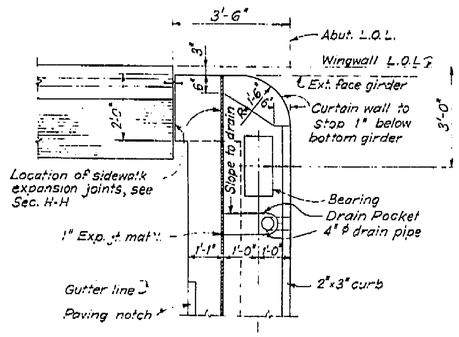
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7	CALIF.				120/147

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
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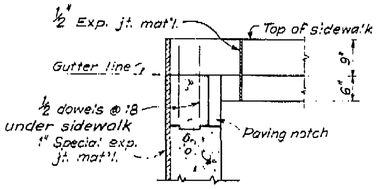
DATE APPROVED December 27, 1955



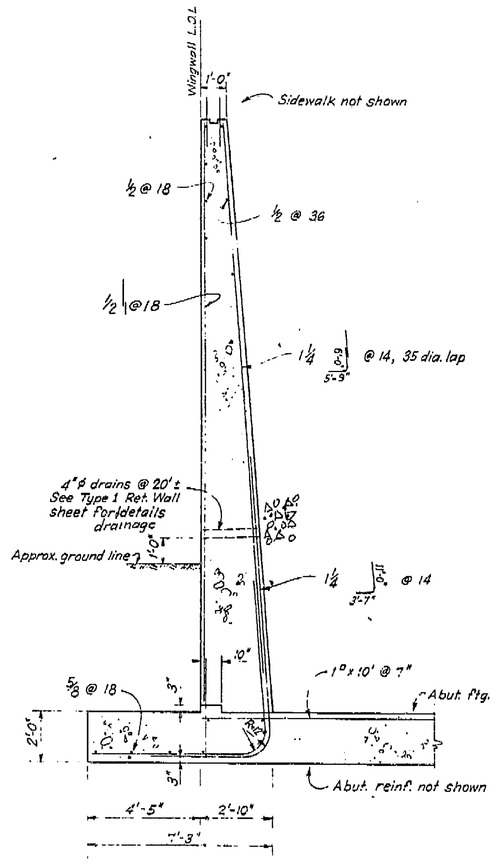
SECTION C-C
PART SEC. THROUGH ABUT. WALL
Scale: ½" = 1'-0"



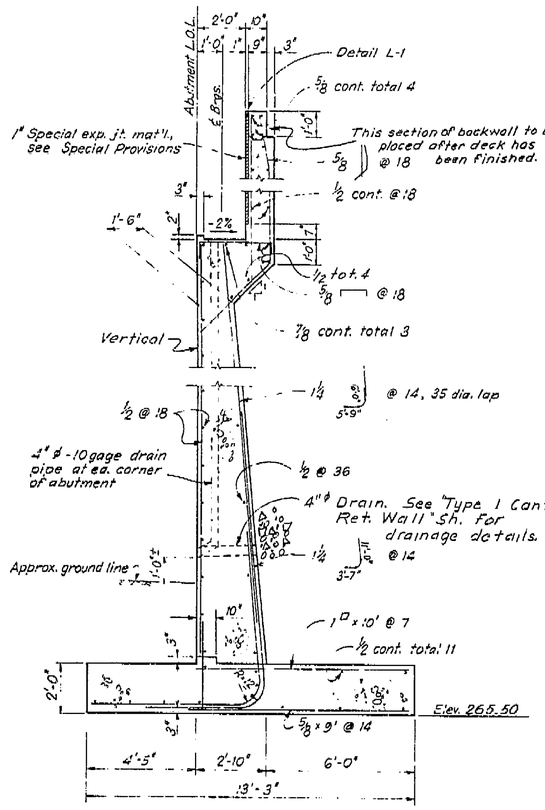
PART PLAN-ABUTMENT DETAIL TOP OF ABUT. CORNER
Scale: ½" = 1'-0"



SECTION H-H
Scale: ⅜" = 1'-0"



SECTION B-B
Scale: ⅜" = 1'-0"



SECTION A-A
Scale: ⅜" = 1'-0"

AS BUILT PLANS
Contract No. 56-6TC2
Date Completed
Document No. 60000987

AS BUILT
DATE 5/1/56 BY [illegible]

BRIDGE DEPARTMENT
··· DESIGN SECTION ··· 8
Project Designer W. T. Johnson 4-55
Chief Designer [illegible]

DESIGN	By W. T. Johnson 3-55	Checked [illegible]	5-55
DETAILS	By A. M. Hunter 3-55	Checked [illegible]	5-55
QUANTITIES	By [illegible] 5-55	Checked [illegible]	5-55
SPECIFICATIONS	By [illegible]	Plans and Specs. Complete	

Approved Recommended by [illegible] Engineer of Tests
Chief and Assistant Engr. Bridges [illegible] 5-27-55

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

TUOLUMNE STREET OVERCROSSING
ABUTMENT DETAILS

SCALE As noted	BRIDGE 42-171	FILE	DRAWING C-4097-A 5

PREL. DRAWING No. P-4097 A 17

KERN, STAN, TUO, TUL

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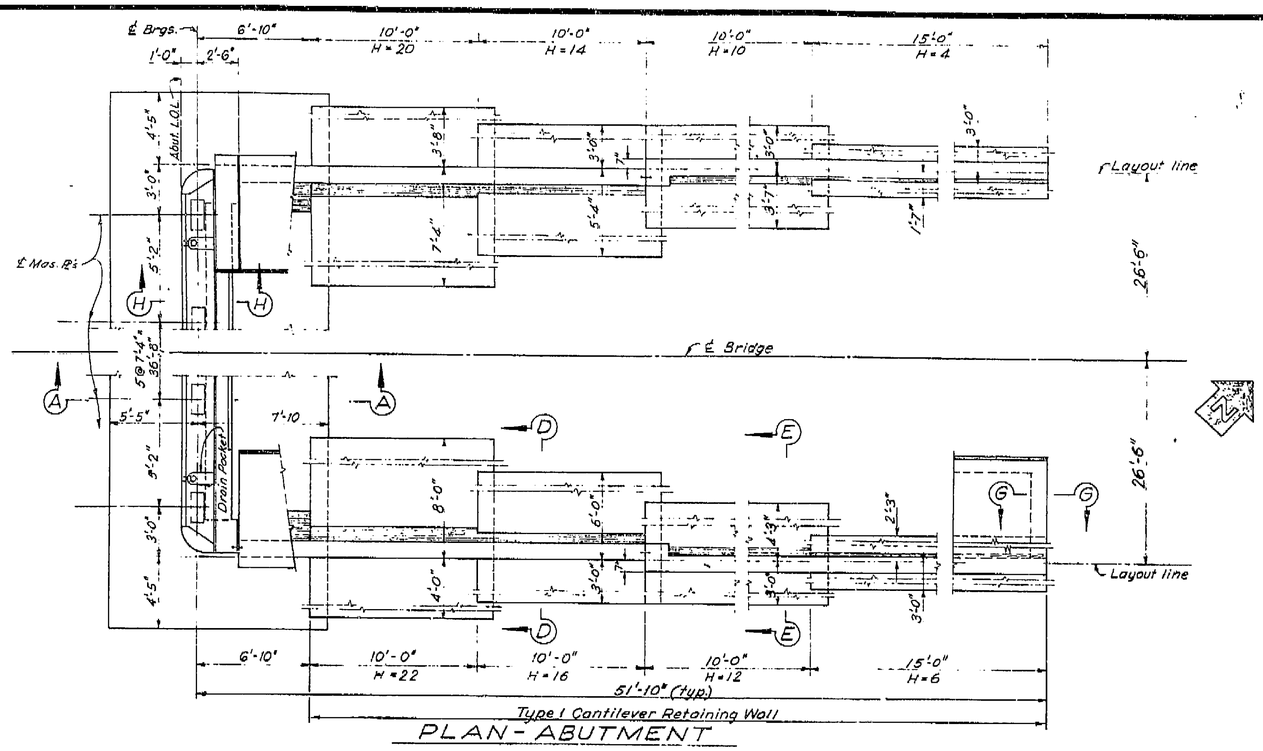
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ClibPDF - www.fastio.com

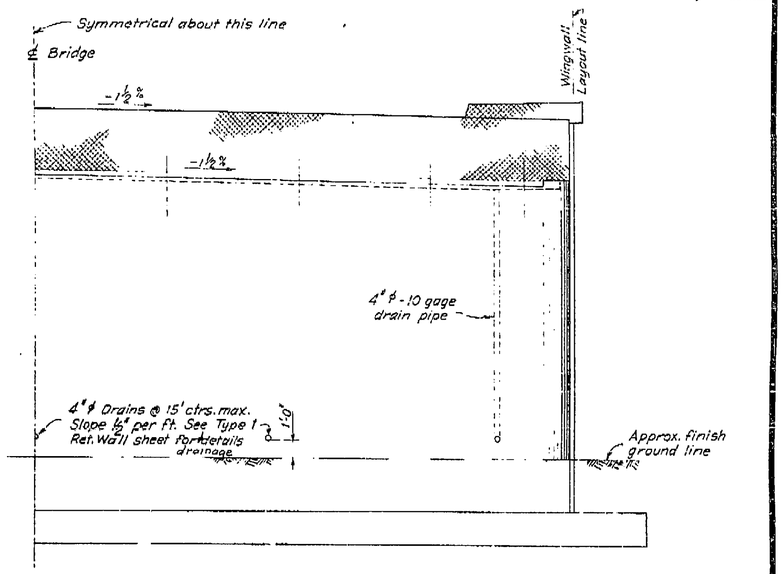
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7	CALIF.			119	147

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	-4-	FRE	-9-	-11-

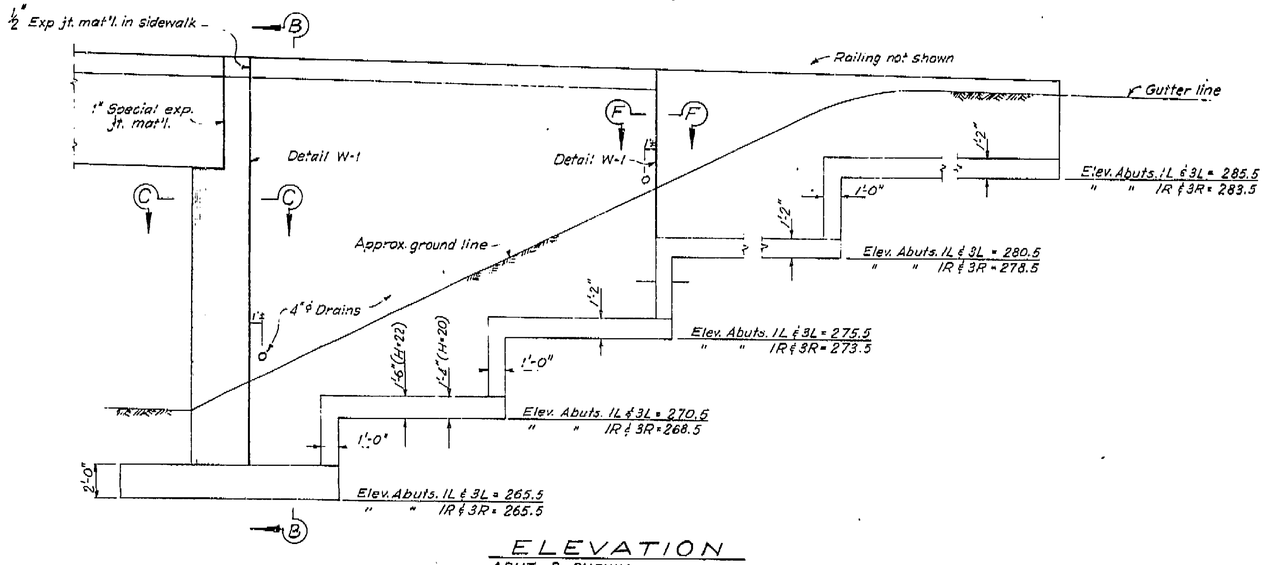
DATE APPROVED December 27, 1955



PLAN - ABUTMENT



HALF FRONT ELEVATION



ELEVATION

ABUT. 3 SHOWN
ABUT. 1 SAME BUT OPP. HAND

AS BUILT PLANS
Contract No. 56-6TC2
Date Completed
Document No. 60000987

AS BUILT
DATE 4/29/57 BY [illegible]

NOTES:

For Sections A-A, B-B, C-C, H-H refer to Abutment Details sheet.
For Sections D-D, E-E, F-F, G-G see Kern St. O.C. "Wingwall Details" sheet
See Special Provisions for 1" Special exp. jt. mat'l.
For Bearing Details see Kern St. O.C. "Misc Details" sheet.

BRIDGE DEPARTMENT
DESIGN SECTION 8

Project Designed	W. F. Johnson 4-55		
Chief Designer	A. H. Rogerson		
DESIGN	W. F. Johnson 2-55	Checked	5-55
DETAILS	A. H. MYOZER 3-55	Checked	5-55
QUANTITIES	[illegible] 5-55	Checked	5-55
SPECIFICATIONS	[illegible]	Plans and Report Completed	
Approval Recommended by	[illegible] Engineer of Design	Chief of Structural Engineering	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

TUOLUMNE STREET -OVERCROSSING-

ABUTMENT LAYOUT

SCALE ½"=1'-0" | BRIDGE 42-171 | FILE | DRAWING B-4097-3

PREL. DRAWING NO. P- 4097 B K 93

KERN, 5-SV, 99 - 3L

390

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DATE [illegible] SIGNATURE [illegible] TITLE [illegible]

ClibPDF - www.fastio.com

FED. ROAD DIV NO	STATE	PROJ NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
7	CALIF			127	147

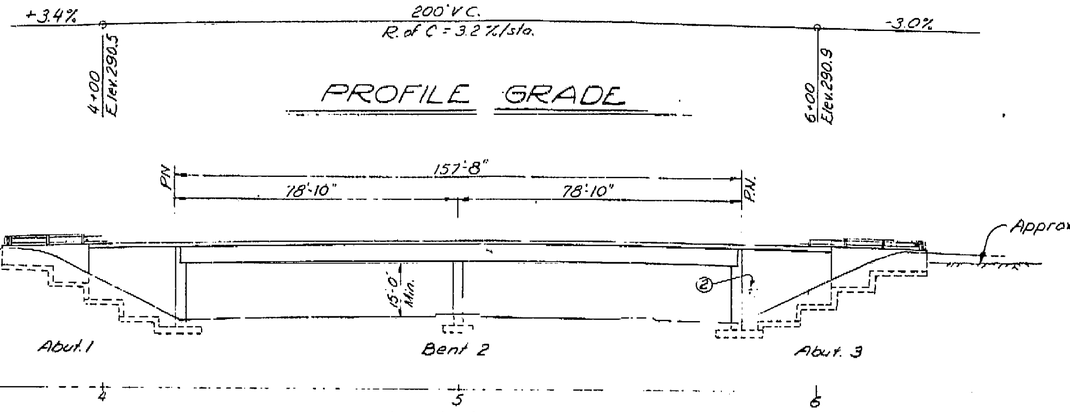
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	-41-	Fre	-11-	-11-

180

ASSISTANT DISTRICT ENGINEER

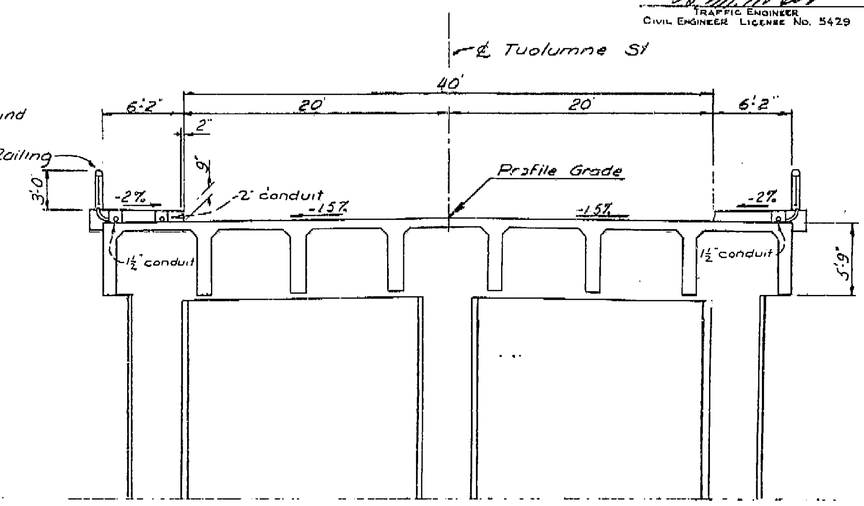
DATE APPROVED December 27 1966

TRAFFIC ENGINEER
CIVIL ENGINEER LICENSE NO. 5429



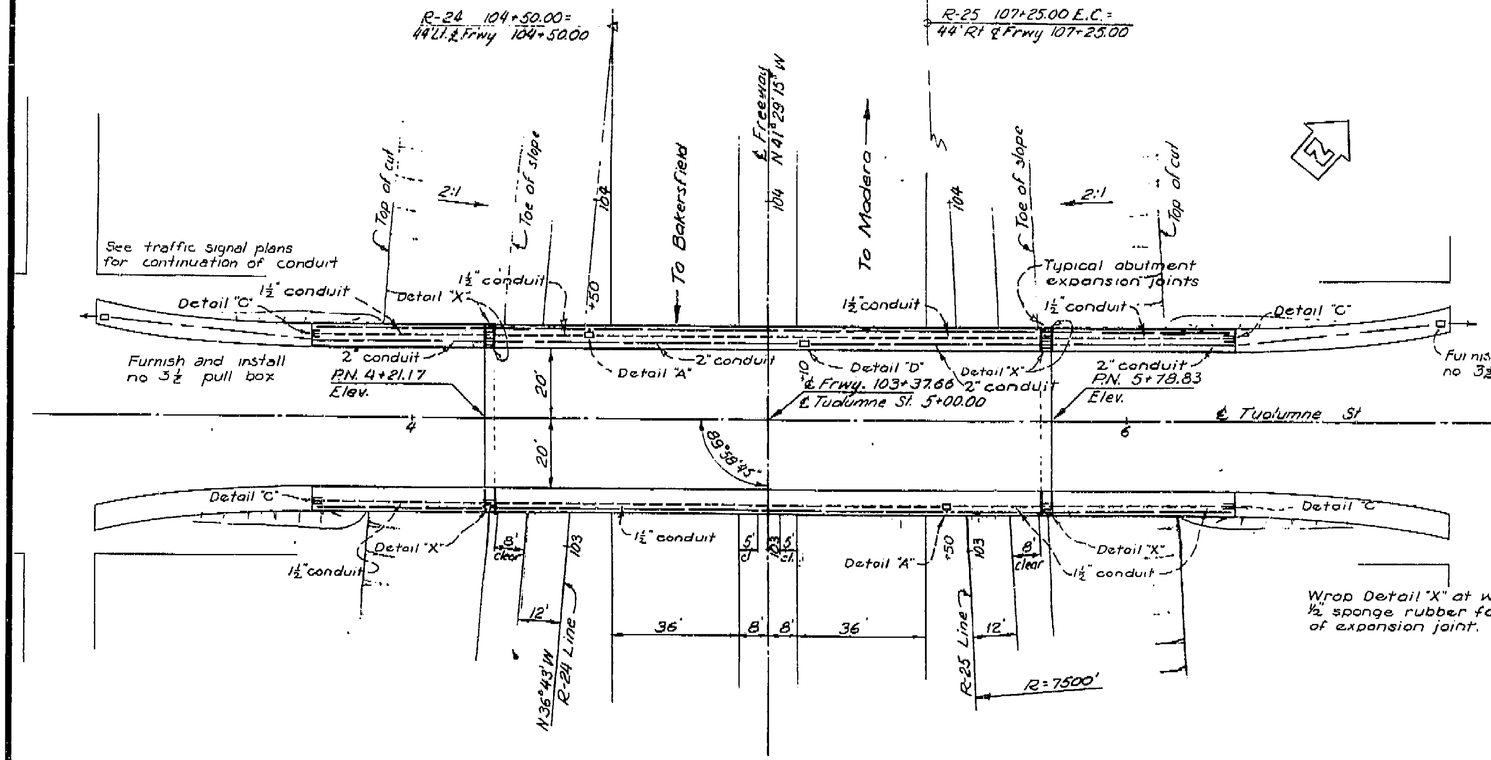
ELEVATION

1" = 20'



TYPICAL SECTION

3/16" = 1'-0"



PLAN

1" = 20'

Wrap Detail "X" at wingwall joint with ½" sponge rubber for 1'± on each side of expansion joint.

AS BUILT PLANS
Contract No. 56-6TC2
Date Completed
Document No. 60000987

AS BUILT
DATE 5/71 BY C. Tuolumne

Note: For Details "A", "C", "D" and "X" see Ventura St. O.C. "Standard Electrical Details Bridge" sheet.
This plan accurate for lighting only.

Note: For lighting reinf. see Ventura St. O.C. "Light Reinf." Sh.

① Paint Br. No. & Date
② Paint "Tuolumne St." Br. No. & Date

See Foundation Plan for General Notes

L.L.: H20-S16-44

BRIDGE DEPARTMENT
··· DESIGN SECTION ···
8
Project Designer W. F. Johnson 4-5-5
Chief Designer

DESIGN	by Dist	Checked	Dist
DETAILS	by [redacted]	Checked	"
QUANTITIES	by "	Checked	"
SPECIFICATIONS	by	Project Unit Engineer	

Approval Recommended by — Engineer of Design — Field and Maintenance Design Liaison Engr.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

TUOLUMNE STREET OVERCROSSING

LOCATED AT THE EXISTING INTERSECTION OF "D" AND TUOLUMNE STREETS IN THE CITY AND COUNTY OF FRESNO

LIGHTING PLAN

SCALE	BRIDGE	FILE	DRAWING
As Noted	42-171		

PREL. DRAWING NO. P-40.97

127

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DATE June 23 1971 SIGNATURE [illegible] TITLE Highway Transportation Engineer

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P.O. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2	CAL			121	147

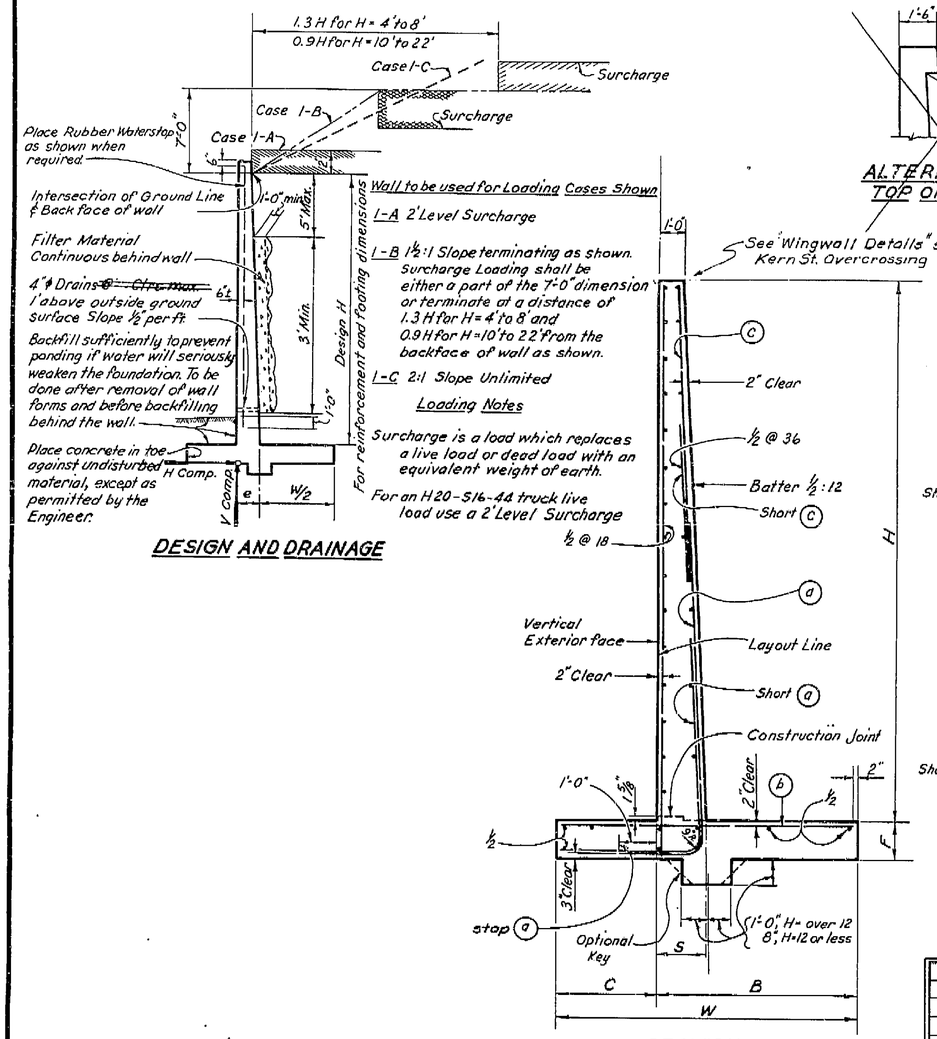
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	4	FRE	5	11

5505

September 1, 1953

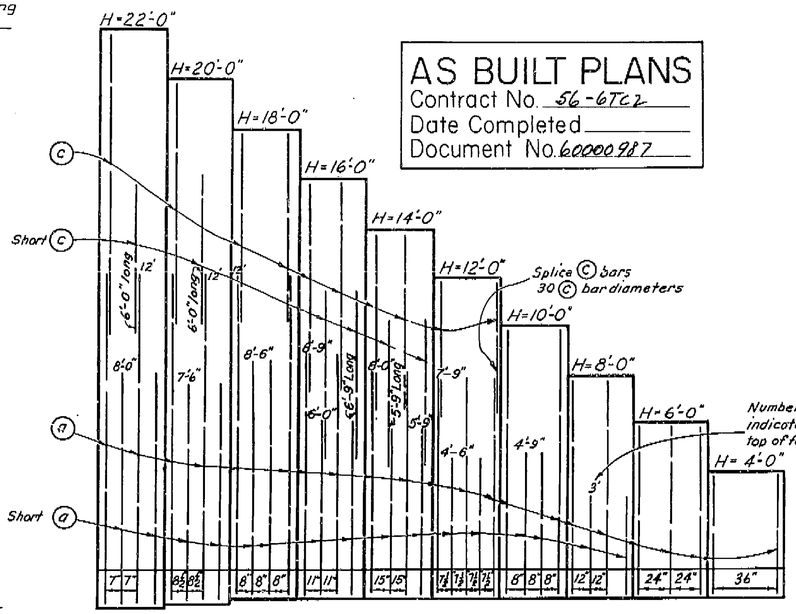
State Highway Engineer
Civil Engineer License No 2084

To Accompany Plans Dated December 27 1955



DESIGN AND DRAINAGE

SECTION



ELEVATION

Dimen. shown on "Abut Layout" sheet supersede those in this table

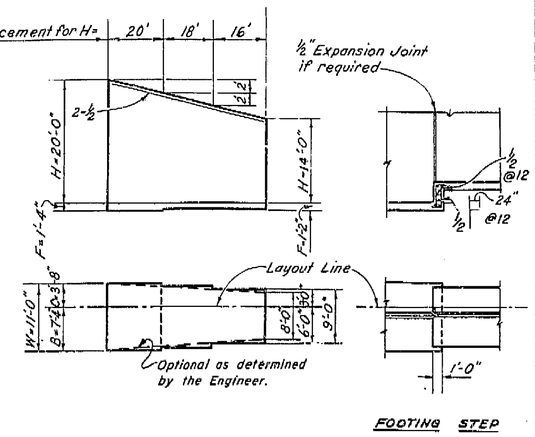
TABLE OF REINFORCING STEEL DIMENSIONS AND DATA

H	22'	20'	18'	16'	14'	12'	10'	8'	6'	4'
W	12'-0"	11'-0"	10'-0"	9'-0"	8'-0"	7'-2"	6'-2"	5'-2"	4'-2"	3'-2"
C	4'-0"	3'-8"	3'-4"	3'-0"	2'-8"	2'-4"	2'-0"	1'-8"	1'-4"	1'-0"
B	8'-0"	7'-4"	6'-8"	6'-0"	5'-4"	4'-10"	4'-2"	3'-6"	2'-10"	2'-2"
F	1'-6"	1'-4"	1'-2"	1'-2"	1'-2"	1'-2"	1'-2"	1'-2"	1'-2"	1'-2"
S	1'-11"	1'-10"	1'-9"	1'-8"	1'-7"	1'-6"	1'-5"	1'-4"	1'-3"	1'-2"
© Bars	⅞@14	⅞@17	¾@24	⅝@11	⅝@15	⅝@30				
ⓐ Bars	1¼@7	1⅛@8½	1⅛@8	1⅛@11	1⅛@15	¾@7½	⅝@8	⅝@12	⅝@24	⅝@36
ⓑ Bars	1⅛@7	1⅛@8½	1"@8	1"@11	1"@15	⅝@7½	½@8	½@12	⅝@24	⅝@36
Conc. cf/ft.	52.1	45.0	38.5	33.8	29.5	24.3	20.2	16.3	12.6	8.9
Steel lbs/ft.	309	233	177	123	90	56	47	28	20	14
Toe Press.	4480	4000	3590	3290	2980	2640	2270	1930	1570	1240
H.Comp. lbs.	11630	9730	8000	6540	5240	4070	3050	2170	1440	850
V.Comp. lbs.	27070	22690	18670	15260	12180	9760	7340	5230	3460	2020
e ft.	1.90	1.72	1.54	1.41	1.28	1.07	.94	.79	.60	.50

Where deviations in footing dimen. from tabular values occur, this data does not apply.

Note: Bar cut-offs may be varied in increments of 6"

Use Reinforcement for H = 20' 18' 16'



FOOTING STEP

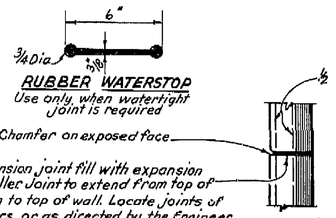
TYPICAL LAYOUT EXAMPLE

NOTES

Design Conditions:
Wall to be used for Loading Cases shown in Design and Drainage detail.
Design H may be exceeded by 6" before going to next size.
Footing Key is required except when found unnecessary by the Engineer.
Special footing design is required where foundation material is incapable of supporting toe pressure loads listed in table.

Design Data: fc = 1250 psi, fs = 20,000 psi, n = 10
earth = 120 pcf and equivalent fluid pressure = 36 psf per ft. of height

Reinforcement:
Intermediate Grade, Hard Grade or Rail Steel
Deformations shall conform to A.S.T.M. A 305.
Bars shall lap 20 diameters, where spliced, unless otherwise shown on the plans
Bends shall conform to the Manual of Standard Practice, A.C.I.
Backing for hooks is four diameters.
All bar embedments are clear distances to outside of bar.
Spacing for parallel bars is ctr. to ctr. of bars.
Bar areas are based on rounds for less than 1" and squares for over 1".



PLAN OF EXPANSION JOINT

AS BUILT PLANS
Contract No. 56-6TC2
Date Completed
Document No. 60000987

AS BUILT
DATE BY

DESIGN SECTION 8
W. T. Johnson 4-55
PROJECT DESIGNER

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

TUOLUMNE STREET OVERCROSSING

TYPE I CANTILEVER RETAINING WALL

SCALE None	BRIDGE 42-171	XS-3-56 FILE	C-4097-5 DRAWING

PWI DRAWING NO. P-4097 17 18 24 A63

Fc = 1250

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DATE SIGNATURE TITLE

DESIGN DETAILS QUANTITIES SPECIFICATIONS

DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS
BRIDGE DEPARTMENT

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California Department of Transportation
Division of Maintenance

Structure Maintenance and Investigations

BRIDGE

INSPECTION

RECORDS

INFORMATION

SYSTEM

The requested documents have been generated by BIRIS.

These documents are the property of the California Department of Transportation and should be handled in accordance with Deputy Directive 55 and the State Administrative Manual.

Records for “Confidential” bridges may only be released outside the Department of Transportation upon execution of a confidentiality agreement.

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre, Mad	99, 152	Var	2	7

Caltrans Metric

Catherine Campbell 07-15-04
REGISTERED CIVIL ENGINEER

7-19-04
PLANS APPROVAL DATE

CATHERINE CAMPBELL No. 61618 Exp. 6/30/05 CIVIL STATE OF CALIFORNIA

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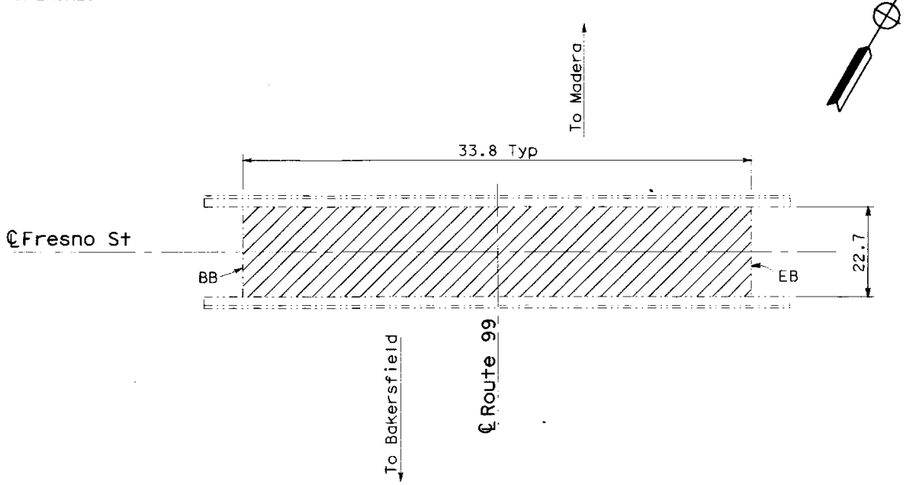
LEGEND

Indicates limits of clean and treat bridge deck with methacrylate.

Indicates existing

NOTE:

THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

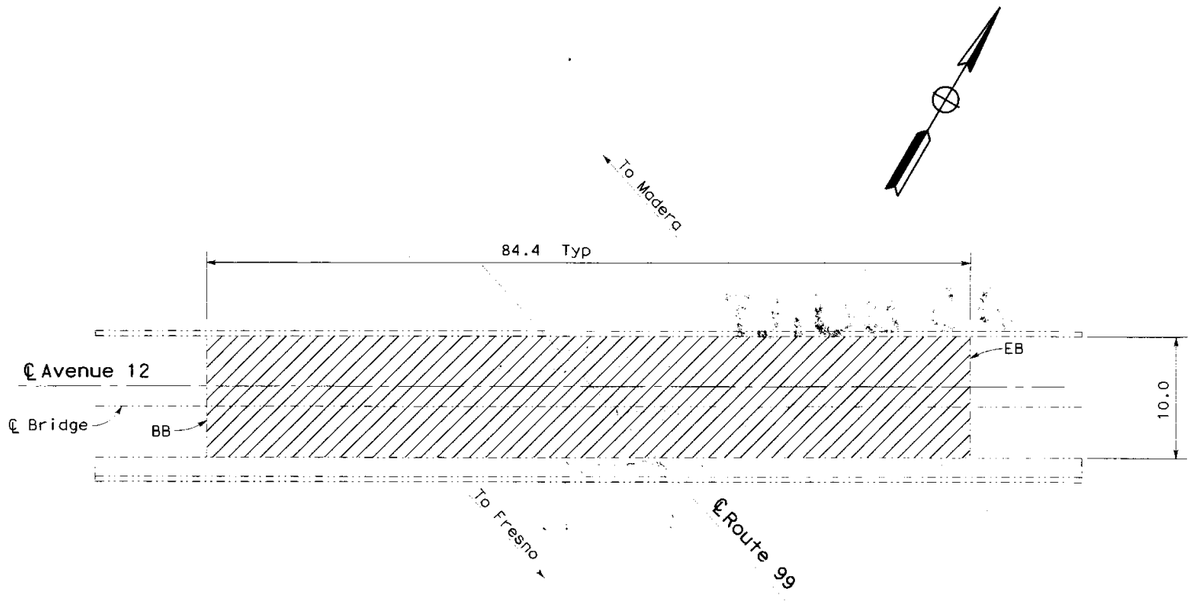


LOCATION (1)
FRESNO St OVERCROSSING
Br No. 42-0170, Fre, KP 33.38

AS BUILT

CORRECTIONS BY D.CHAPA
CONTRACT NO. 06-492004
DATE JULY 20, 2005

No As-Built Changes



LOCATION (2)
AVENUE 12 OVERCROSSING
Br No. 41-0066, Mad, KP 12.00

CONSTRUCTION DETAILS

NO SCALE **C-1**

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

DATE	REVISED BY	DATE REVISED

CALCULATED/DESIGNED BY

CHECKED BY

PROJECT ENGINEER
WILLIAM R. LEE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
Caltrans

LAST REVISION 07-15-04
DATE PLOTTED => 19-AUG-2004
TIME PLOTTED => 13:25

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => t6sperr
DGN FILE => 649200ga01.dgn

CU 06261 EA 492001

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DIST	COUNTY	ROUTE	KILOMETER POST / TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre, Mad	99, 152	Var	4	7

Caltrans Metric

Catherine Campbell 07-15-04
REGISTERED CIVIL ENGINEER

7-19-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
CATHERINE CAMPBELL
No. 61618
Exp. 6/30/05
CIVIL
STATE OF CALIFORNIA

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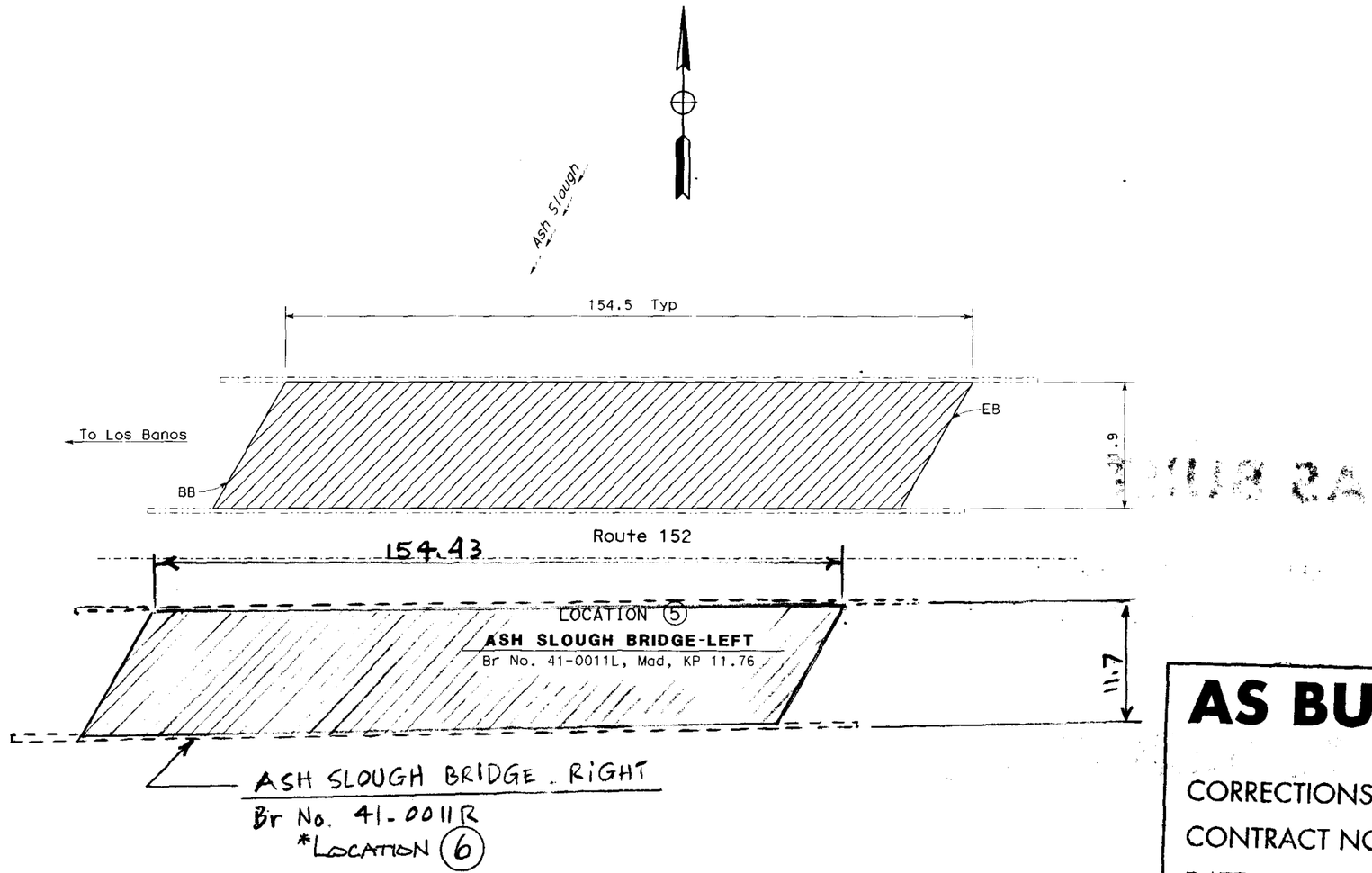
DATE	REVISED BY
	DATE REVISED

CALCULATED/ DESIGNED BY
CHECKED BY

PROJECT ENGINEER
WILLIAM R. LEE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

*LOCATION 6 ADDED TO CONTRACT



AS BUILT

CORRECTIONS BY D. CHAPA
CONTRACT NO. 06-492004
DATE JULY 20, 2005

CONSTRUCTION DETAILS

NO SCALE

C-3

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

LAST REVISED 07-15-04 | DATE PLOTTED = 19-JUL-2005 TIME PLOTTED = 13:55

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME = rbsperr
DGN FILE = 492001gd03.dgn

CU 06261 | EA 492001

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DIST	COUNTY	ROUTE	KILOMETER POST / TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre, Mad	99, 152	Var	3	7

Caltrans Metric

Catherine Campbell 07-15-04
REGISTERED CIVIL ENGINEER

7-19-04
PLANS APPROVAL DATE

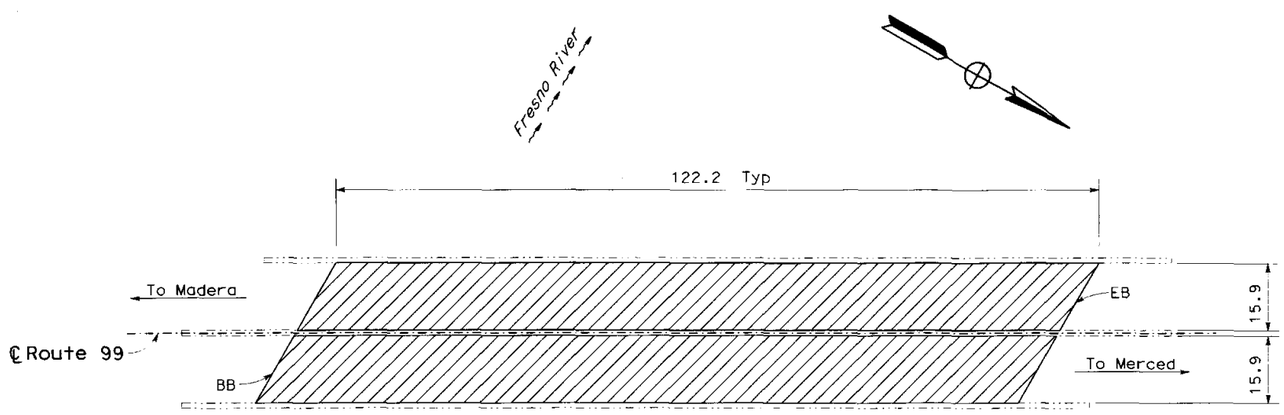
CATHERINE CAMPBELL No. 61618 Exp. 6/30/05 CIVIL STATE OF CALIFORNIA

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DATE	REVISED BY	DATE REVISED
CALCULATED/ DESIGNED BY		
CHECKED BY		

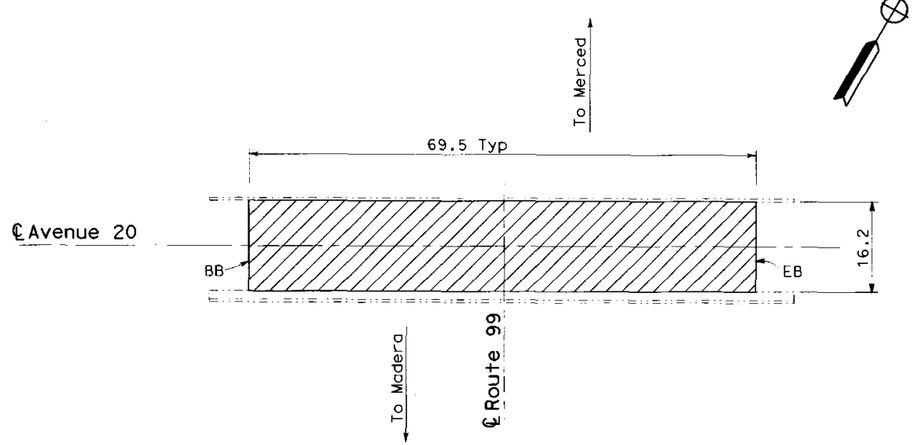
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN
PROJECT ENGINEER
WILLIAM R. LEE



LOCATION (3)
FRESNO RIVER BRIDGE
Br No. 41-0052, Mad, KP 18.75

AS BUILT
CORRECTIONS BY DCHAPA
CONTRACT NO. 06-492004
DATE JULY 20, 2005

No As-Built Changes



LOCATION (4)
AVENUE 20 OVERCROSSING
Br No. 41-0070, Mad, KP 30.06

CONSTRUCTION DETAILS

NO SCALE **C-2**

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

LAST REVISION 07-15-04 | DATE PLOTTED = 10 AUG 2004 | TIME PLOTTED = 13:25

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME = tbspen
DGN FILE = 649200gau2.dgn

CU 06261 | EA 492001

ClibPDF - www.fastio.com

INDEX OF SHEETS

Sheet No.	Description
1	Title and Location Map
2-4	Construction Details
5	Construction Area Signs
6	Summary of Quantities
7	Revised Standard Plan

THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO CONTRACTORS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

IN FRESNO AND MADERA COUNTIES

AT VARIOUS LOCATIONS

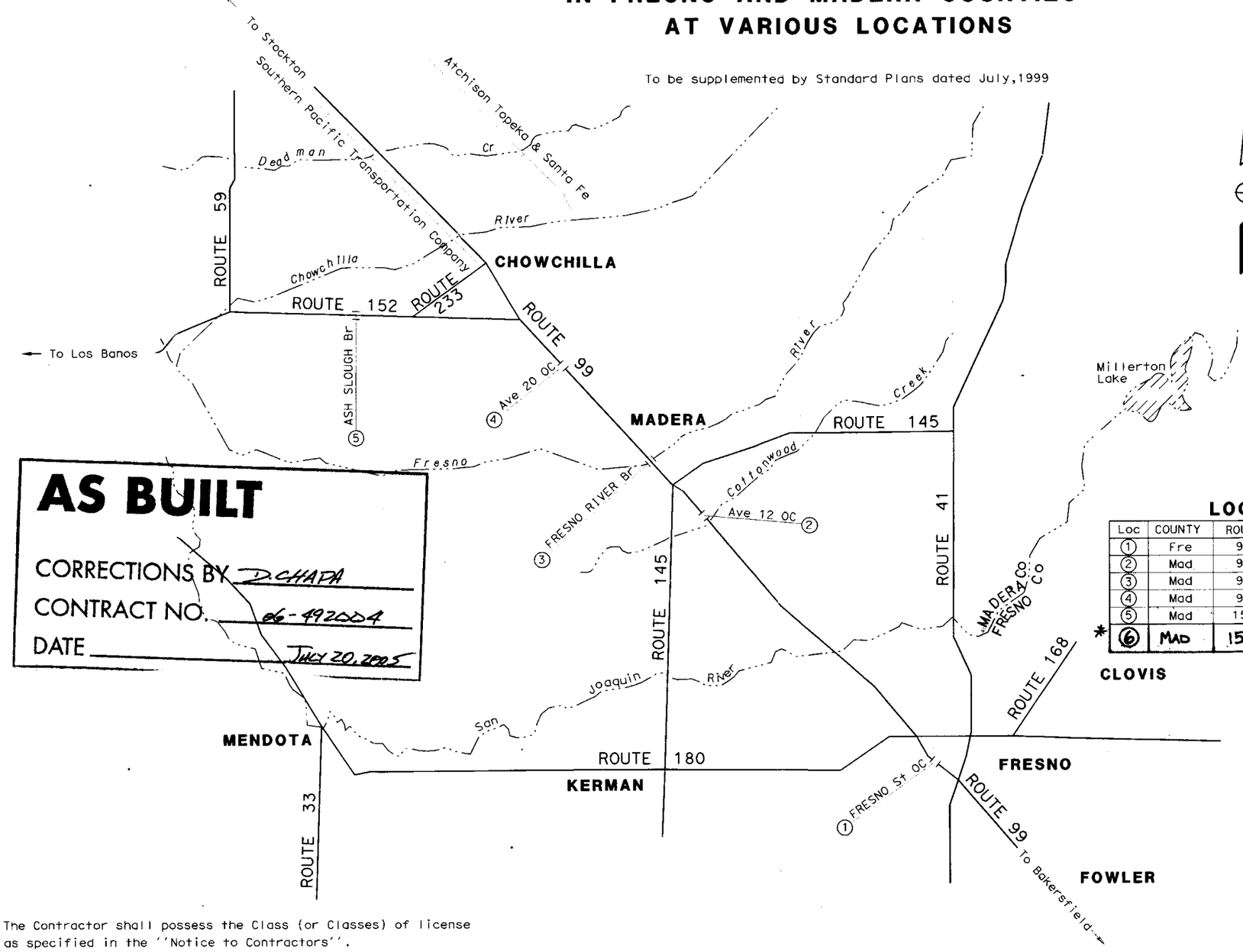
To be supplemented by Standard Plans dated July,1999

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre, Mad	99, 152	Var	1	7



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AS BUILT

CORRECTIONS BY D.CHAPA

CONTRACT NO. 06-492004

DATE JULY 20, 2005

LOCATIONS OF CONSTRUCTION

Loc	COUNTY	ROUTE	KP	PM	BRIDGE No.	BRIDGE NAME
①	Fre	99	33.38	20.74	42-0170	FRESNO St OC
②	Mad	99	12.00	7.46	41-0066	Ave 12 OC
③	Mad	99	18.75	11.65	41-0052	FRESNO RIVER
④	Mad	99	30.06	18.68	41-0070	Ave 20 OC
⑤	Mad	152	11.76	7.31	41-0011L	ASH SLOUGH
* ⑥	MAD	152	11.76	7.31	41-0011R	ASH SLOUGH

DESIGN MANAGER	DATE	PROJECT MANAGER	DATE
G ESHETE	6/04	G ESHETE	6/04

PROJECT ENGINEER: C CAMPBELL — DATE: 6/04

Catherine Campbell 7/06/04
Project Engineer Date
Registered Civil Engineer

CATHERINE CAMPBELL No. 61618 Exp. 6/30/05 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

July 19, 2004
Plans Approval Date

UNION LABEL

The Contractor shall possess the Class (or Classes) of license as specified in the ''Notice to Contractors''.

NO SCALE

Contract No. 06-492004

DATE PLOTTED = 19-AUG-2004
TIME PLOTTED = 13:25

07-14-04

FORM DC-OE-93-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME = tesperr
DGN FILE = 0492004ab01.dgn

CU 06261

EA 492001

ClibPDF - www.fastio.com

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	131	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

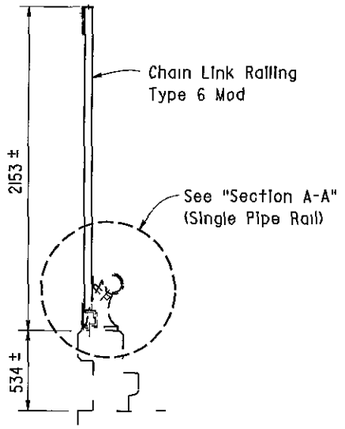
REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

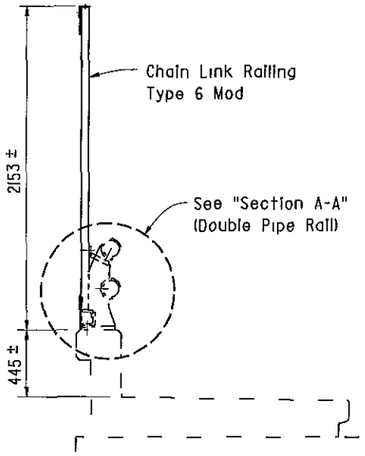
NO CORRECTIONS
AS BUILT

MRC 1-3-03

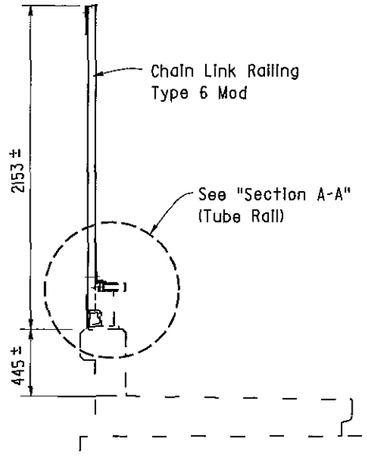
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02



TYPE 1



TYPE 5



TYPE 12

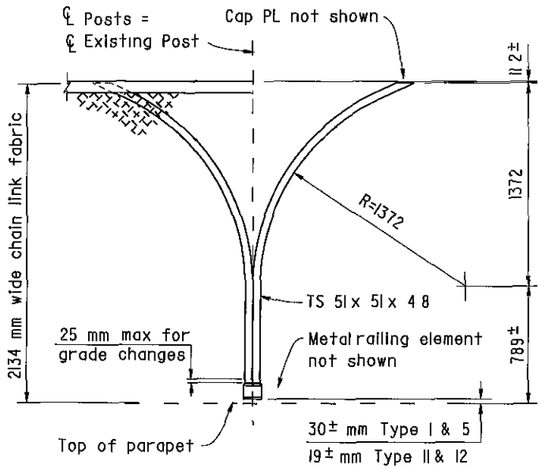
BARRIER RAILING SECTIONS

Existing chain link railing not shown

I 20

TYPE A
- NORTH AVE OC - 2 Locations
- CHURCH AVE OC - 4 Locations
- CALIFORNIA AVE OC - 4 Locations
- VENTURA ST OC - 4 Locations

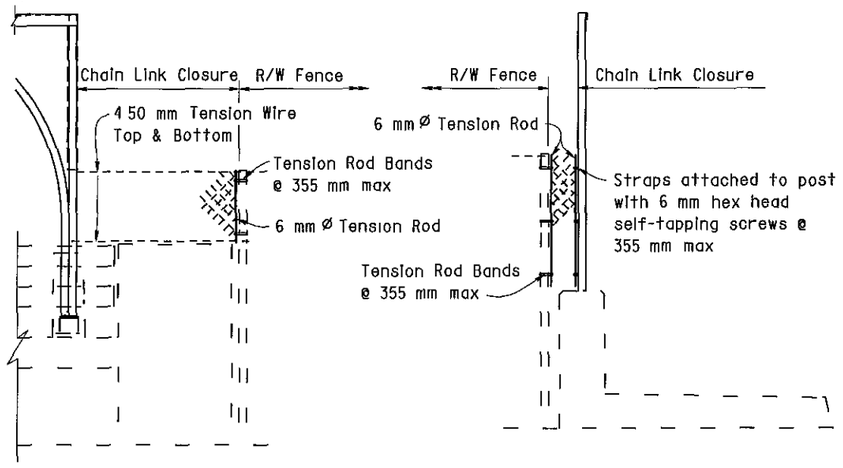
TYPE B
- KERN ST OC - 4 Locations
- TULARE ST OC - 4 Locations
- EL DORADO ST OC - 4 Locations



PART OUTSIDE ELEVATION

Note For details and notes not shown, see "Chain Link Railing Type 6 Mod No 1" sheet

I 10

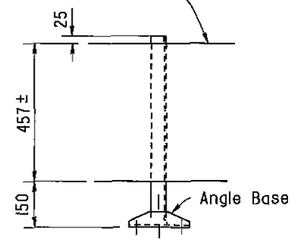


TYPE A TYPE B

R/W FENCE CONNECTION

I 10

Remove existing sign panels and reinstall on new post



TULARE ST OC

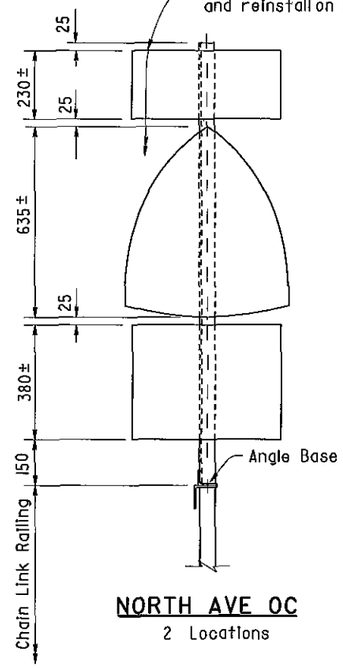
4 Loactions

Note

Reinstall signs at approximately the same location on chain link railing as existing

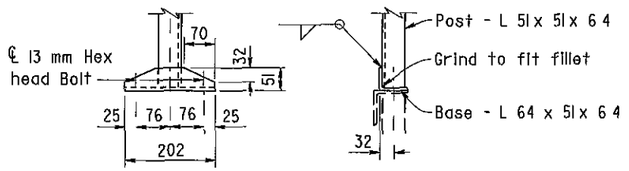
NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Remove existing sign panels and reinstall on new post



NORTH AVE OC

2 Locations



ANGLE BASE

Note

Hot dip galvanize sign post after fabrication
Field drilled holes to be painted with zinc rich paint

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

	BY		CHECKED	
DESIGN	D Acoba	5/00	F Tannous	5/00
DETAILS	K Endow	5/00	F Tannous	5/00
QUANTITIES	D Acoba	5/00	F Tannous	5/00

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
CHAIN LINK RAILING TYPE 6 MOD NO. 2

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/17/00 | 9/26/00 | 10/3/00

SHEET 9 OF 11

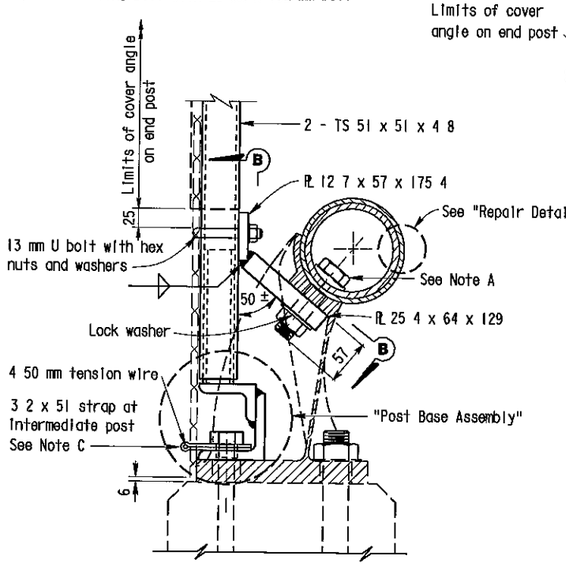
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USERNAME => mcarlson DATE PLOTTED > 03-JAN-2003 TIME PLOTTED > 13:23

ClibPDF - www.fastio.com

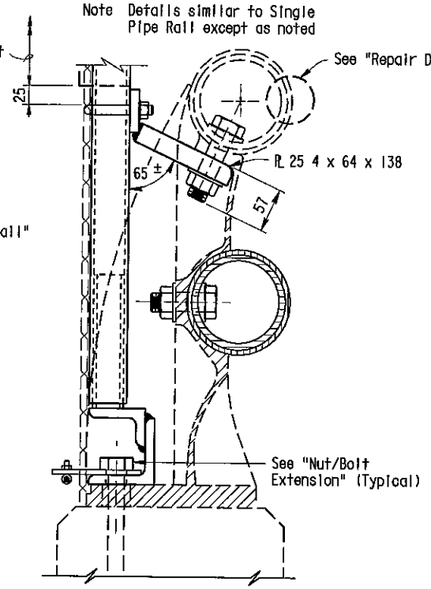
Note A

Replace existing bolt with 25 mm x 102 mm bolt



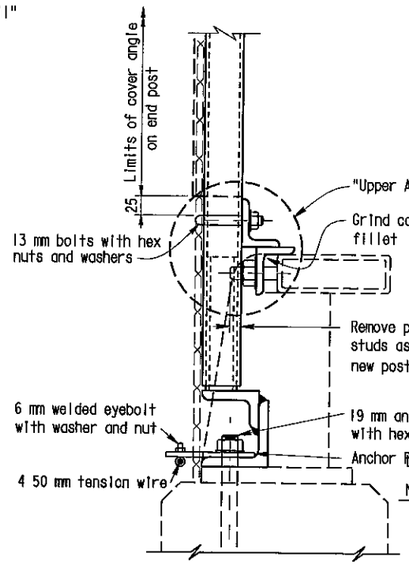
SECTION A-A (SINGLE PIPE RAIL)

Note Details similar to Single Pipe Rail except as noted



SECTION A-A (DOUBLE PIPE RAIL)

Note Details for Type 9 and Type 11 Metal Railing are similar, Type 11 not shown



SECTION A-A (TUBE RAIL)

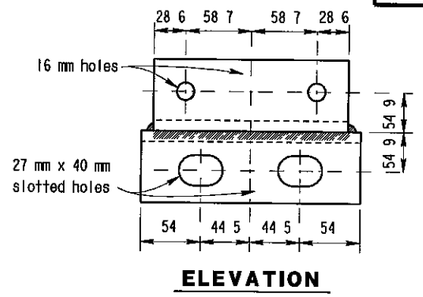
NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Note B

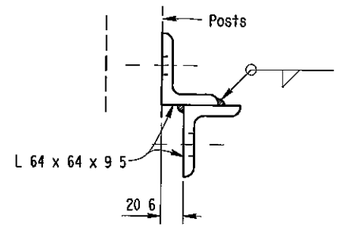
Paint all cut and ground surfaces with zinc rich paint

Note C

At intermediate posts only contractor has an alternate of 3 mm x 51 mm strap or 6 4 mm anchor plate with eyebolt



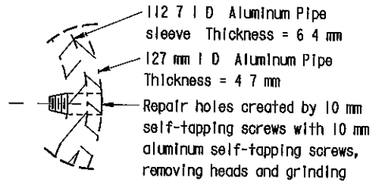
ELEVATION



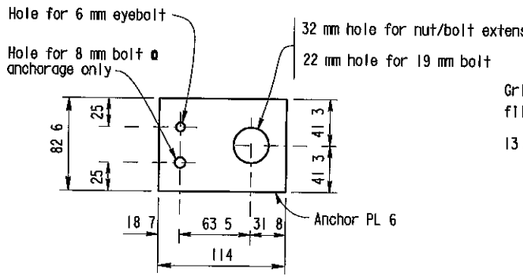
SIDE VIEW

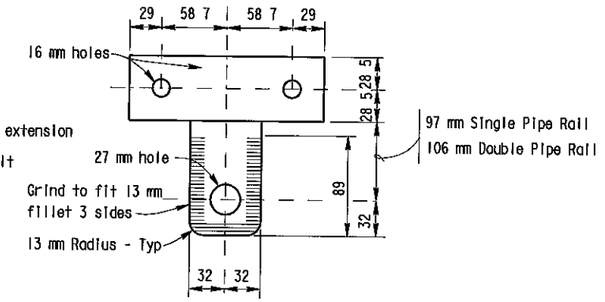
UPPER ANGLE BRACKET

ATTACHMENT DETAILS



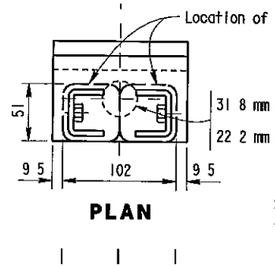
REPAIR DETAIL



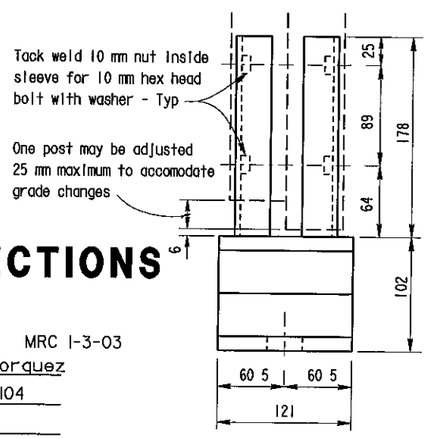


VIEW B-B

(Developed view of upper bracket)

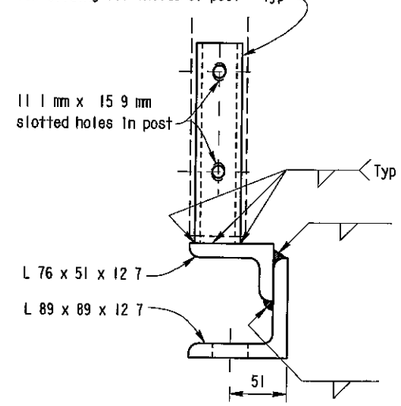


PLAN



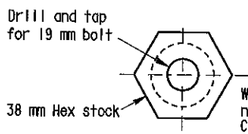
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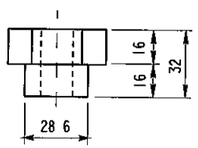
Sleeve formed from PL 4 7, bent thus ⊔ for sliding fit inside of post - Typ



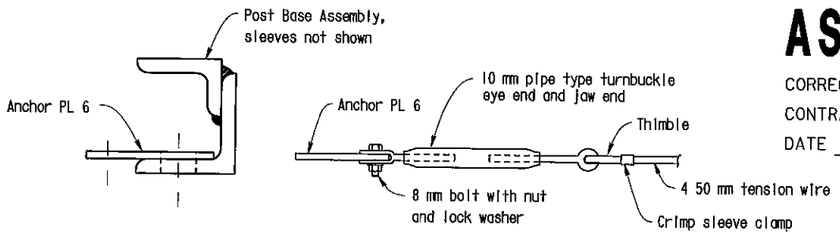
SIDE VIEW

POST BASE ASSEMBLY





NUT/BOLT EXTENSION



BOTTOM ANCHORAGE DETAIL

NO CORRECTIONS AS BUILT

MRC 1-3-03

CORRECTIONS BY John Borquez

CONTRACT NO 06-440104

DATE 11-14-02

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	132	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DIOSDADO ACOBA No 52003 Exp 12-31 02 CIVIL STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

DESIGN	BY D Acoba	5/00	CHECKED F Tannous	5/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY K Endow	5/00	CHECKED F Tannous	5/00	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE
QUANTITIES	BY D Acoba	5/00	CHECKED F Tannous	5/00	CU 06015 EA 440101

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
CHAIN LINK RAILING TYPE 6 MOD NO. 3

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

FILE > nat63 dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

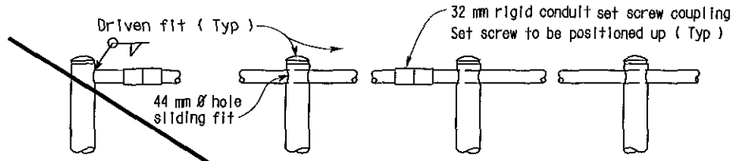
REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 7/17/00 9/26/00 10/3/00

SHEET 10 OF 11

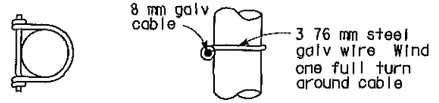
USERNAME > mgarlson DATE PLOTTED > 03 JAN 2003 TIME PLOTTED > 13:26

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RELEASED 6-9-98



END POST **INTERMEDIATE POSTS**



PLAN **ELEVATION**

DETAIL H

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
06	Fre	99	23 3/50 7	133	133

10-3-00
REGISTERED ENGINEER - CIVIL

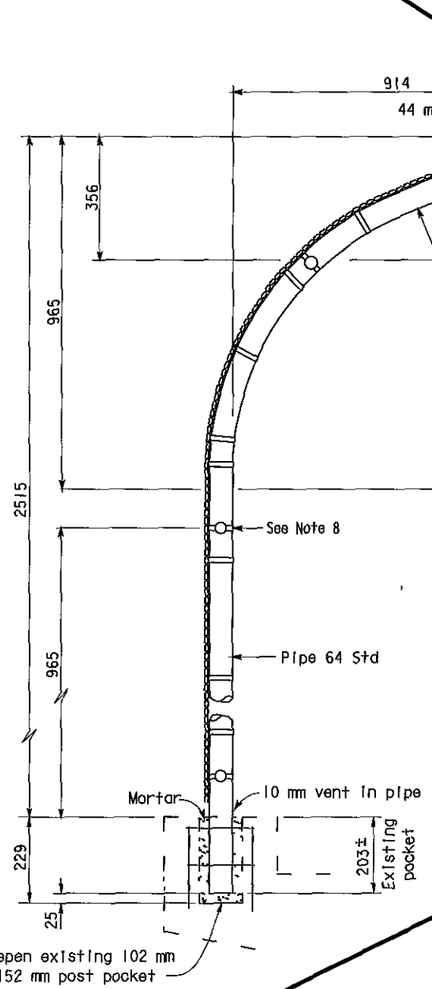
11-13-00
PLANS APPROVAL DATE

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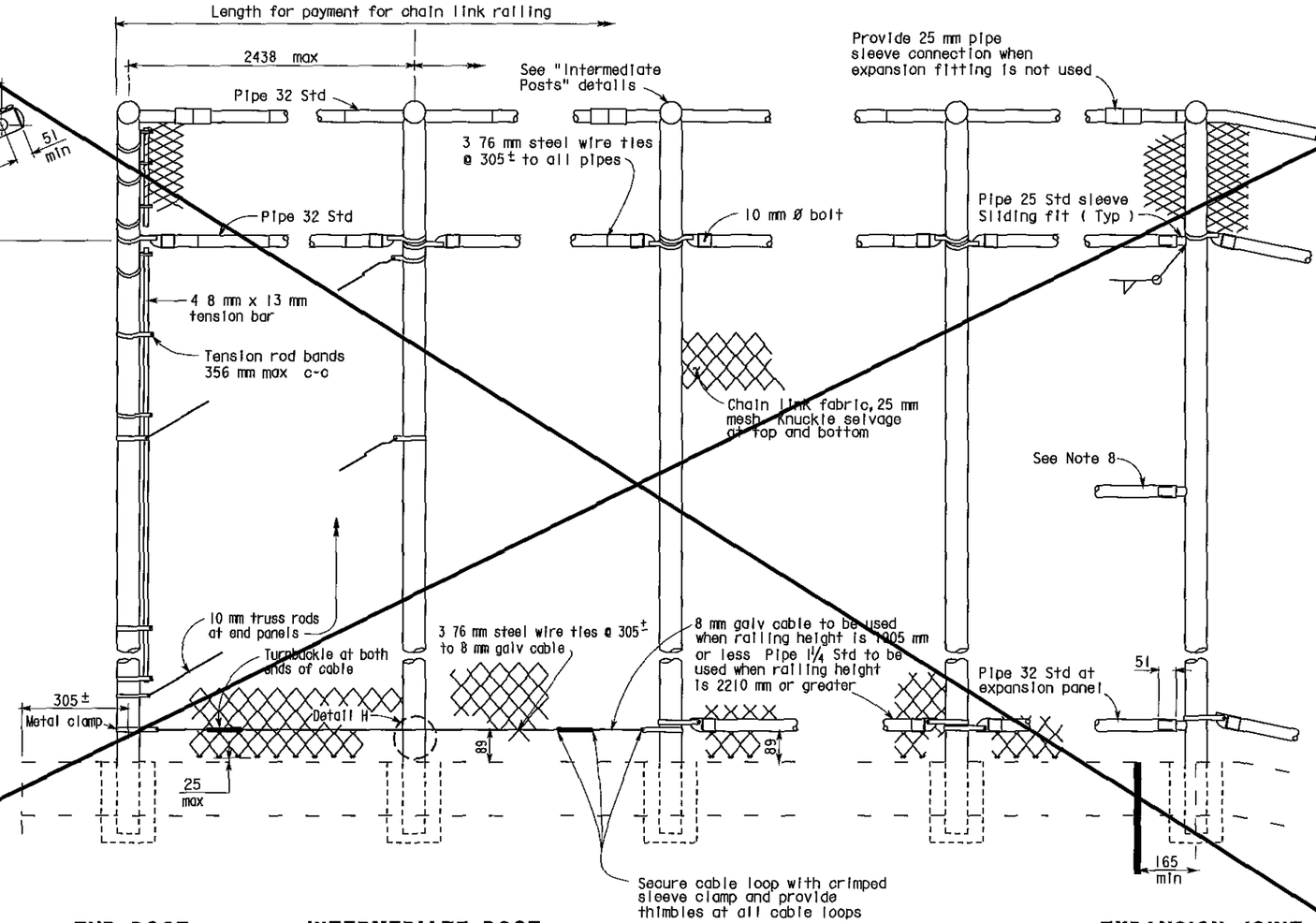
REGISTERED PROFESSIONAL ENGINEER
DIOSDADO ACOBA
No 52003
Exp 12 31 02
CIVIL
STATE OF CALIFORNIA

NOTES:

1 Railing assembly except chain link fabric to be galvanized after fabrication
2 Railing shall conform to horizontal and vertical alignment Posts shall be vertical Horizontal pipes shall be bent if radius is 45 72 m or less may be on 2 438 m chords If radius is over 45 72 m
3 Peen all 10 mm Ø bolts
4 When railing is on slope fabric shall parallel to slope
5 Alternative details may be submitted by Contractor for Engineer's approval
6 Additional pipe 32 std required on radius less than 45 72 m



TYPICAL POST DETAIL



END POST **INTERMEDIATE POST** **EXPANSION JOINT**

ELEVATION

Sheet Deleted

No Type 3 Modified Railing was used on this contract

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

SPECIAL DETAIL

NO SCALE
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

STANDARD DRAWING				
FILE NO XS 9 81	DESIGN BY R W BISHOP	CHECKED J HAMAGUCHI	APPROVAL RECOMMENDED BY	
DRAWING DATE Revised	DETAILS BY R YEE	CHECKED J HAMAGUCHI		
	SUBMITTED BY R W BISHOP		DESIGN SUPERVISOR	

DS OSD 2147A (METRIC) (REV 2/25/97)

1 Revised sheet - removed handrailing and electrical details and notes

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

CU 06105
EA 452001

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
CHAIN LINK RAILING TYPE 3 MOD 1

DISREGARD PRINTS BEARING EARLIER REVISION DATES
REVISION DATES (PRELIMINARY STAGE ONLY) 5/30/00 7/17/00 9/28/00 10/3/00

SHEET 11 OF 11

USERNAME > mgarlson
x5981 dgn
XS981 DGN

DATE PLOTTED > 03-JAN-2003 TIME PLOTTED > 13 32

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	124	133

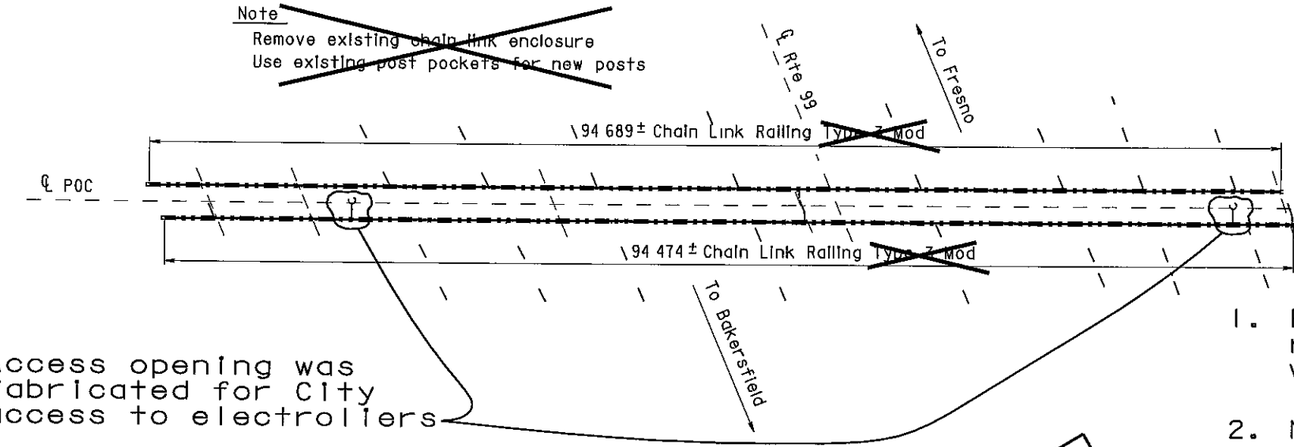
10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

Note
Remove existing chain link enclosure
Use existing post pockets for new posts



COSMOS PLAYGROUND POC

Br No 42-0215, Fre, KP 31 2
1 250

1. Existing chain link railing remained and was painted.
2. New 1" mesh was installed and replaced the old 2" mesh.
3. Existing electroliers remained.

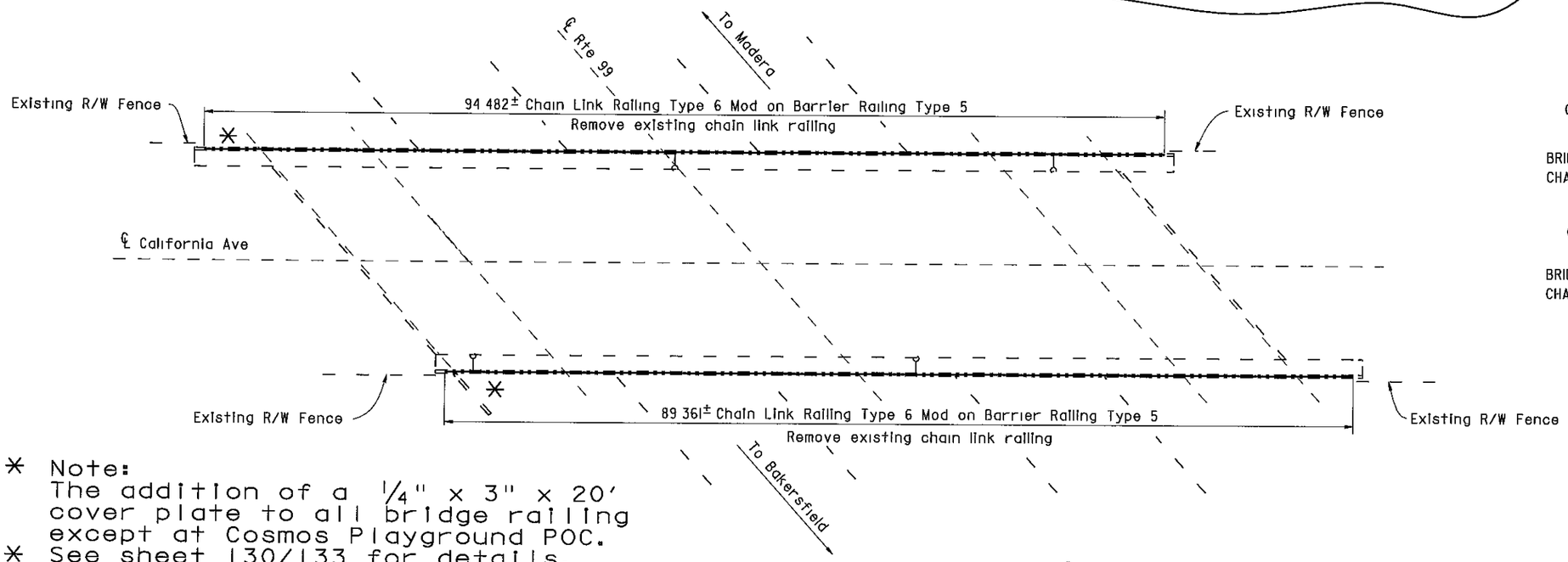
NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

NOTES

— — Indicates existing

℄ Indicates approximate location of existing electroliter (To remain)

Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details



COSMOS PLAYGROUND POC 42-0215
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION C	LUMP SUM
CHAIN LINK RAILING (TYPE 3 MODIFIED)	209 m

CALIFORNIA AVENUE OC 42-0217
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION D	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	184 m

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

CALIFORNIA AVENUE OC

Br No 42-0217, Fre, KP 32 0
1 250

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borguez
CONTRACT NO 06-440104
DATE 11-14-02

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00
DETAILS	K Endow	4/00	F Tannous	5/00
QUANTITIES	D Acoba	5/00	F Tannous	5/00
LAYOUT	K Endow	4/00	D Acoba	4/00
SPECIFICATIONS	J Maroney	9/00	J Maroney (PLANS AND SPECS COMPARED)	9/00

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

CU 06015
EA 440101

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 2

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/12/00 | 9/26/00 | 10/3/00

SHEET 2 OF 11

FILE -> nagp2.dgn

USERNAME -> morrison DATE PLOTTED -> 03 JAN 2003 TIME PLOTTED -> 08:15

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NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Caltrans Metric

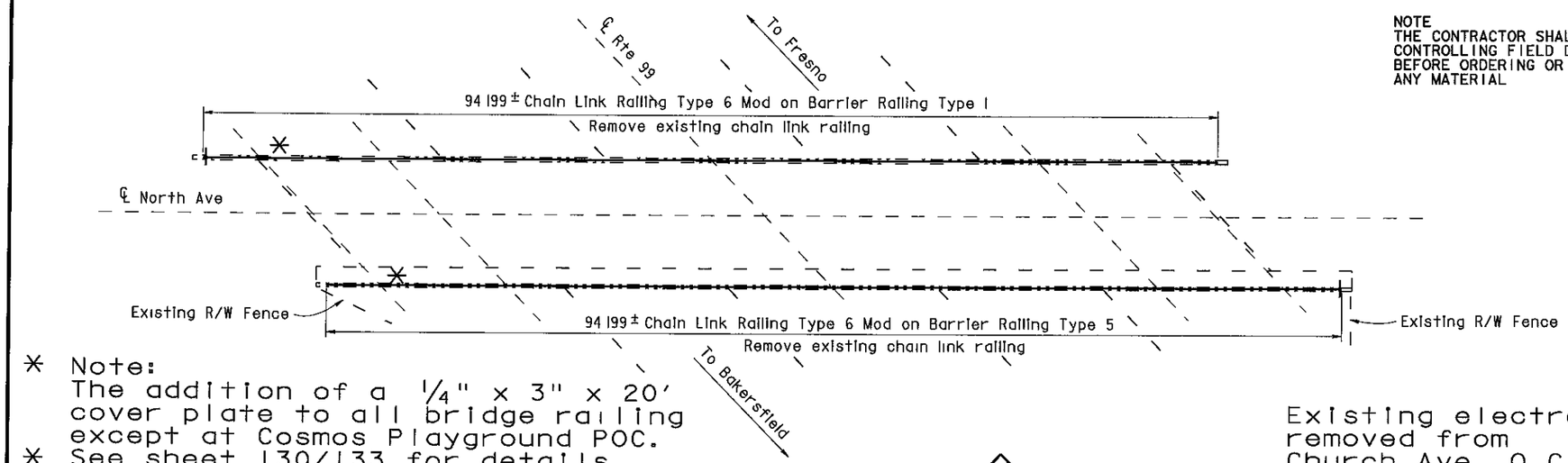
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	123	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DIOSDADO ACOBA
No 52003
Exp 12-31-02
CIVIL
STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet



* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

NORTH AVENUE OC

Br No 42-0210, Fre, KP 27 8
1 250

Existing electroliers removed from Church Ave. O.C.

NOTES

— — Indicates existing

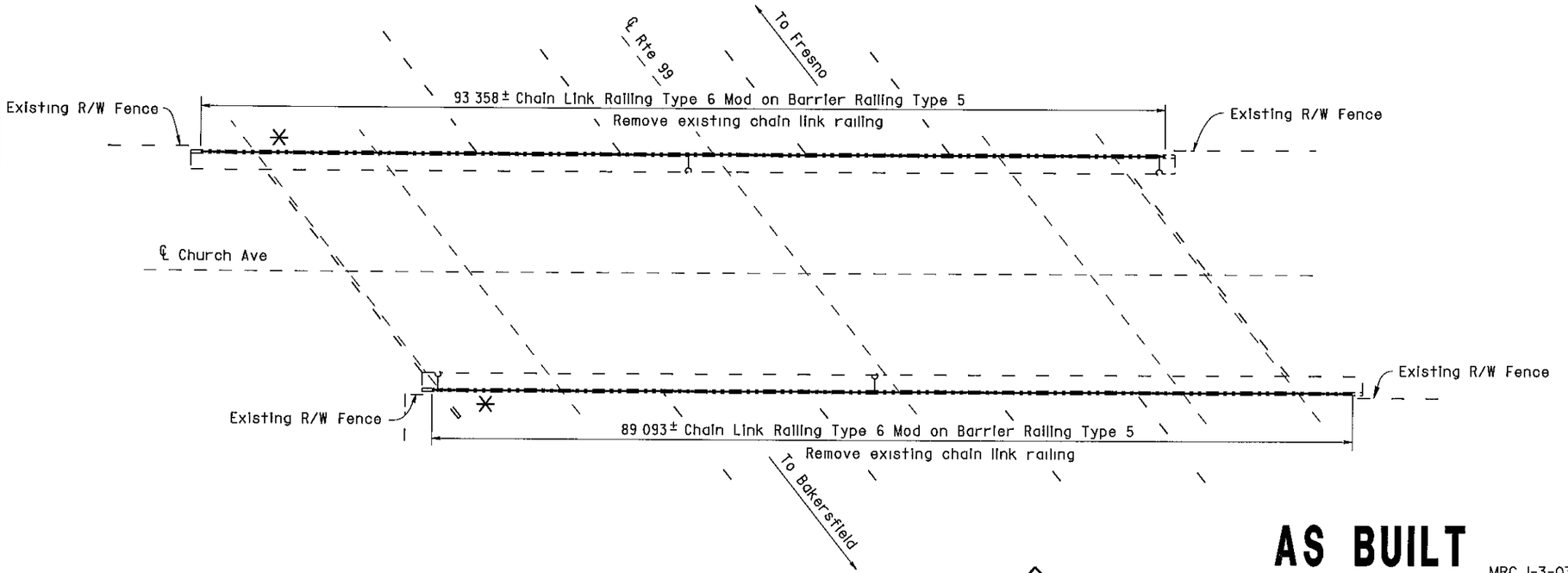
℄ Indicates approximate location of existing electrolier (To remain)

Indicates approximate location of remove and reinstall sign on new post

Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details

INDEX TO PLANS

SHEET NO	TITLE
1	GENERAL PLAN NO 1
2	GENERAL PLAN NO 2
3	GENERAL PLAN NO 3
4	GENERAL PLAN NO 4
5	GENERAL PLAN NO 5
6	GENERAL PLAN NO 6
7	GENERAL PLAN NO 7
8	CHAIN LINK RAILING TYPE 6 MOD NO 1
9	CHAIN LINK RAILING TYPE 6 MOD NO 2
10	CHAIN LINK RAILING TYPE 6 MOD NO 3
11	CHAIN LINK RAILING TYPE 3 MOD



CHURCH AVENUE OC

Br No 42-0214, Fre, KP 30 9
1 250

AS BUILT MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

NORTH AVENUE OC 42-0210
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION A	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	189 m

CHURCH AVENUE OC 42-0214
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION B	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	183 m

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED		BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00	LAYOUT	K Endow	4/00	D Acoba	4/00
DETAILS	K Endow	4/00	F Tannous	5/00				PLANS AND SPECS COMPARED	
QUANTITIES	D Acoba	5/00	F Tannous	5/00	SPECIFICATIONS	J Maroney	9/00	J Maroney	9/00

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 1

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 5/15/00 7/17/00 9/26/00 10/3/00

SHEET 1 OF 11

FILE -> nagpl.dgn

USERNAME -> mgarson DATE PLOTTED -> 02 JAN 2003 TIME PLOTTED -> 16:55

ClibPDF - www.fastio.com

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
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10/3/00
REGISTERED CIVIL ENGINEER

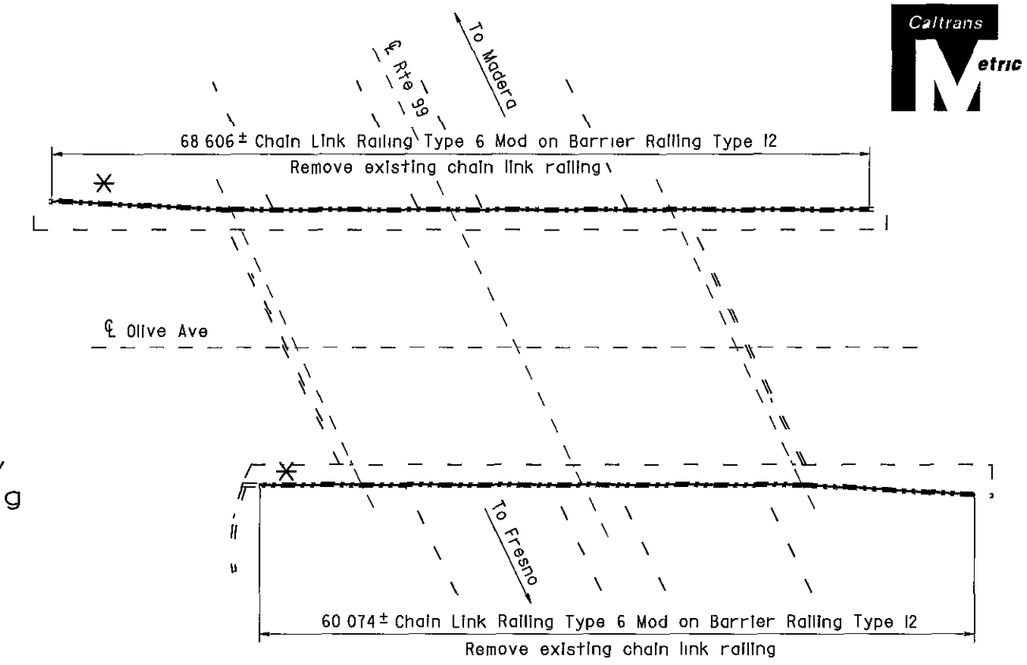
11-13-00
PLANS APPROVAL DATE

DIOSDADO ACOBA No 52003 Exp 12-31 02 CIVIL STATE OF CALIFORNIA REGISTERED PROFESSIONAL ENGINEER

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.



OLIVE AVENUE OC

Br No 42-0187, Fre, KP 37 5
1 250

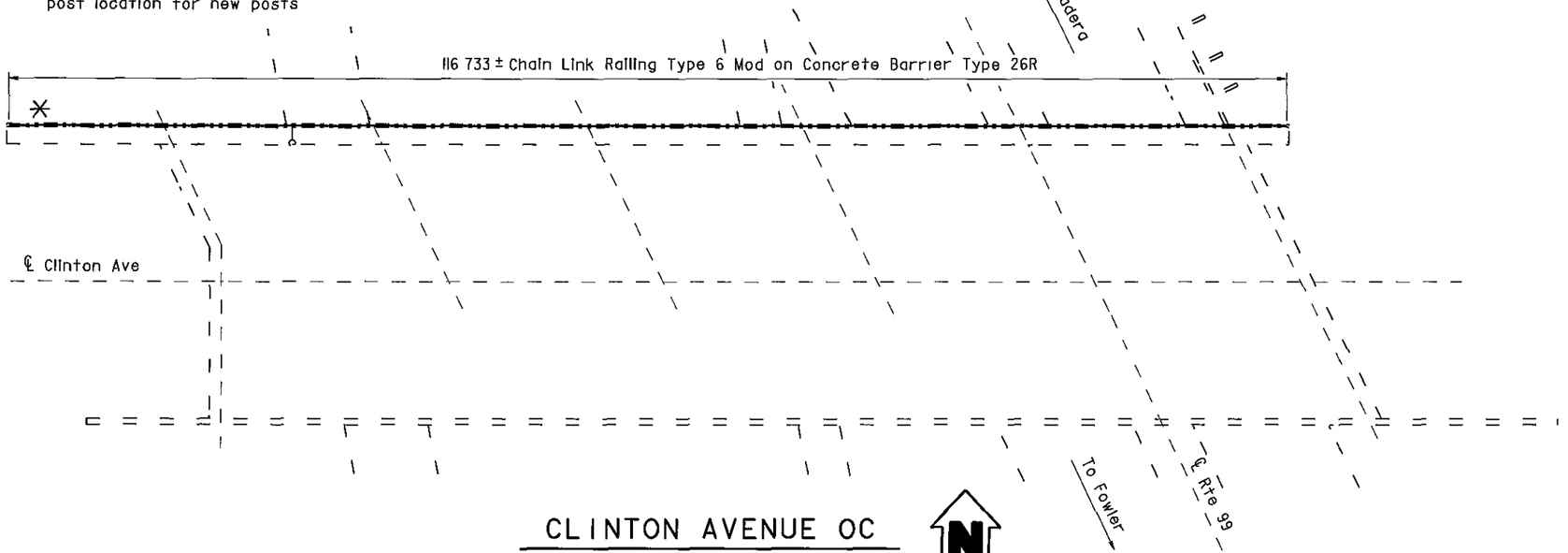
NOTES

— — Indicates existing

℄ Indicates approximate location of existing electrolier (To remain)

Note

Remove existing Chain Link Railing Type 7 core 152 mm x 230 mm deep hole at existing post location for new posts



CLINTON AVENUE OC

Br No 42-0183, Fre, KP 39 3
1 250

OLIVE AVENUE OC 42-0187
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION M	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	129 m

CLINTON AVENUE OC 42-0183
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION N	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	116 m

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED		BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00	LAYOUT	K Endow	4/00	D Acoba 4/00
DETAILS	K Endow	4/00	F Tannous	5/00				
QUANTITIES	D Acoba	5/00	F Tannous	5/00	SPECIFICATIONS	J Maroney	9/00	PLANS AND SPECS COMPARED J Maroney 9/00

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 6

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE => nagp6.dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/17/00 | 9/26/00 | 10/3/00

SHEET 6 OF 11

USERNAME => mcarlson DATE PLOTTED => 03 JAN-2003 TIME PLOTTED => 08 53

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	129	133

10/3/00
REGISTERED CIVIL ENGINEER

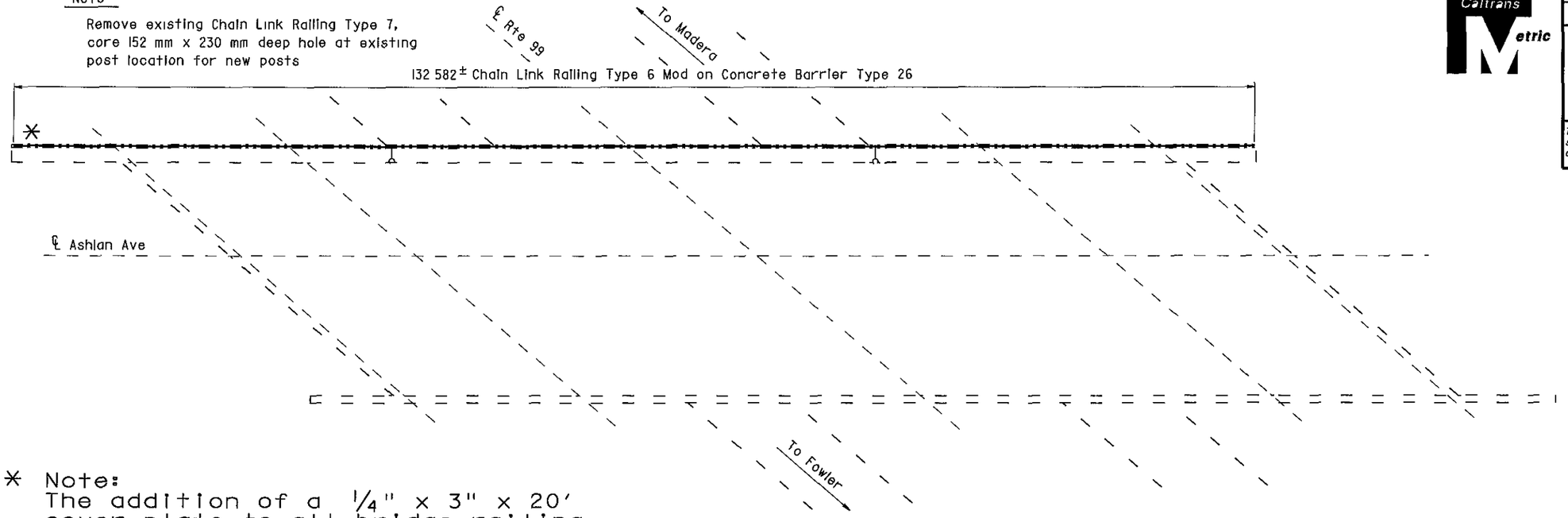
11-13-00
PLANS APPROVAL DATE

DIOSDADO ACOBA No 52003 Exp 12-31-02 CIVIL STATE OF CALIFORNIA

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Note

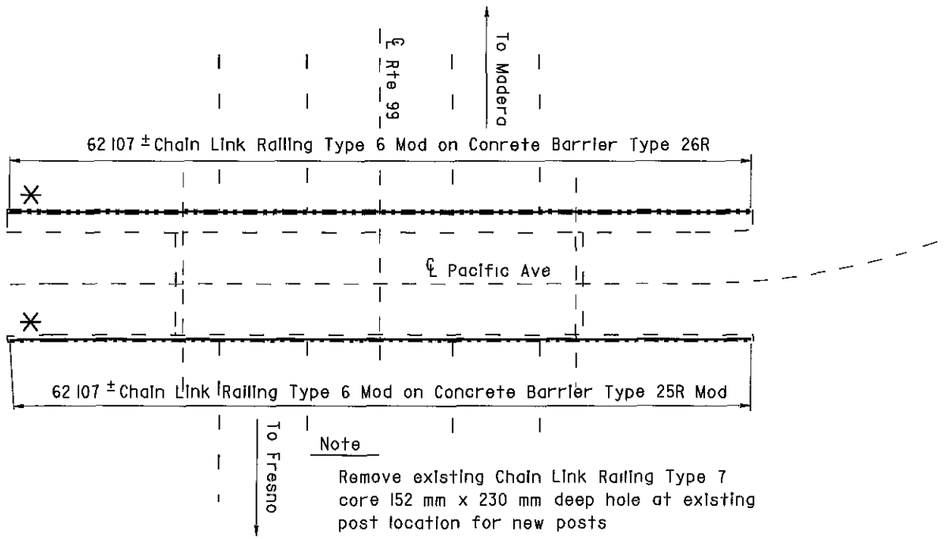
Remove existing Chain Link Railing Type 7, core 152 mm x 230 mm deep hole at existing post location for new posts



* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

ASHLAN AVENUE OC

Br No 42-0140, Fre, KP 42 8
1 250



Note

Remove existing Chain Link Railing Type 7 core 152 mm x 230 mm deep hole at existing post location for new posts

PACIFIC AVENUE OC

Br No 42-0189, Fre, KP 36 0
1 250

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

NOTES

— — Indicates existing

℄ ↓ Indicates approximate location of existing electrolier (To remain)

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

ASHLAN AVENUE OC 42-0140
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION O	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	133 m

PACIFIC AVENUE OC 42-0189
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION P	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	124 m

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

DESIGN	BY D Acoba 4/00	CHECKED F Tannous 5/00	LAYOUT	BY K Endow 4/00	CHECKED D Acoba 4/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE
DETAILS	BY K Endow 4/00	CHECKED F Tannous 5/00					
QUANTITIES	BY D Acoba 5/00	CHECKED F Tannous 5/00	SPECIFICATIONS	BY J Maroney 9/00	PLANS AND SPECS COMPARED J Maroney 9/00		

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 7

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE => nagp7.dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 5/15/00 7/17/00 9/26/00 10/3/00

SHEET 7 OF 11

USERNAME -> mgarrison DATE PLOTTED => 03 JAN 2003 TIME PLOTTED => 11:45

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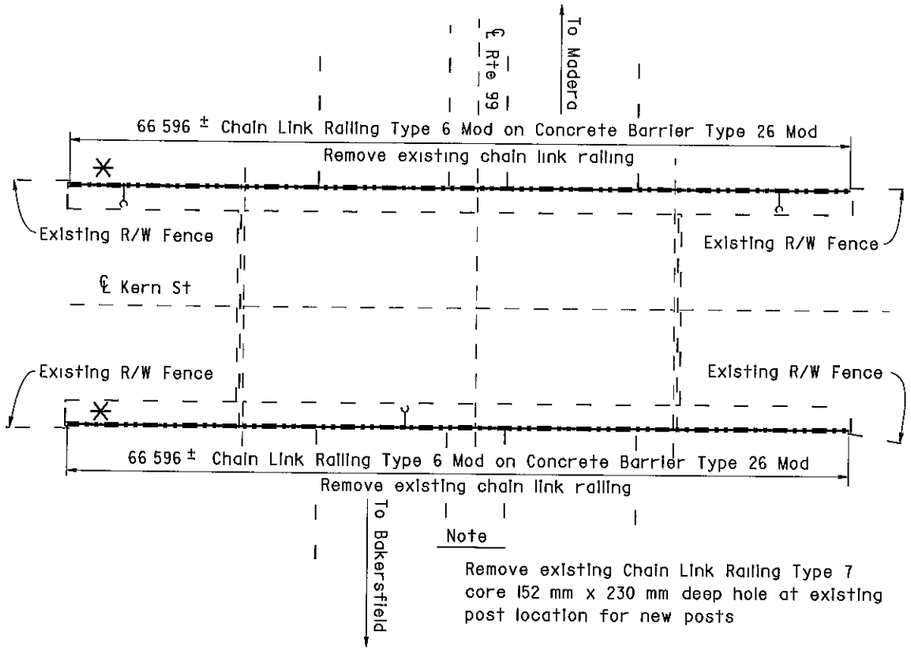
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	126	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

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Note

Remove existing Chain Link Railing Type 7 core 152 mm x 230 mm deep hole at existing post location for new posts

KERN STREET OC

Br No 42-0159, Fre, KP 33 0
1 250

KERN STREET OC 42-0159
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION H	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	133 m

TULARE STREET OC 42-0169
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION I	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	166 m

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

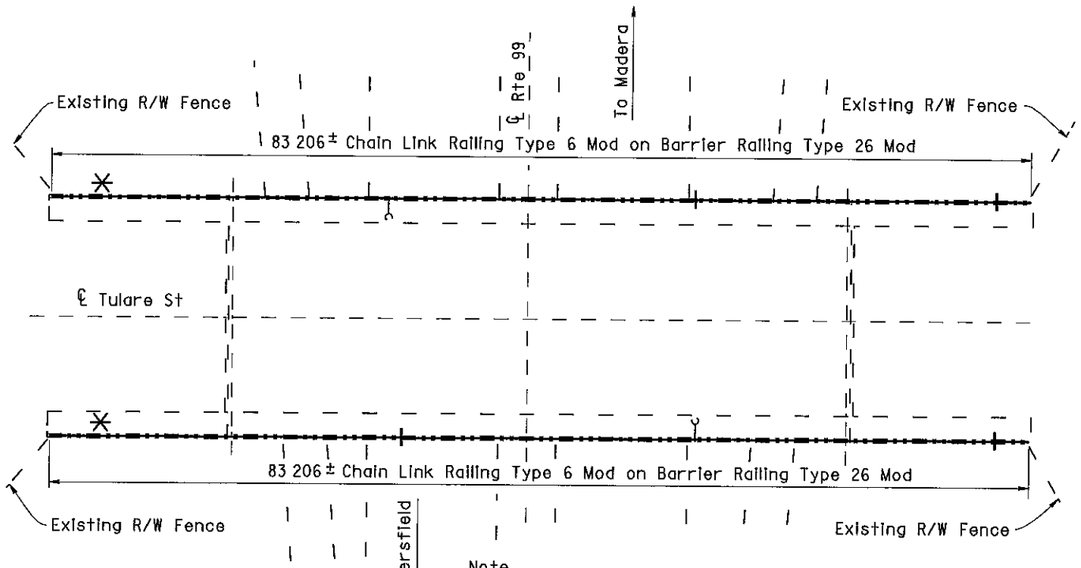
NOTES

— — Indicates existing

℄ Indicates approximate location of existing electrolier (To remain)

Indicates approximate location of remove and reinstall sign on new post

Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details



Note

Remove existing Chain Link Railing Type 7 core 152 mm x 230 mm deep hole at existing post location for new posts

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

TULARE STREET OC

Br No 42-0169, Fre, KP 33 2
1 250

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00 DESIGN ENGINEER	DESIGN	BY D Acoba 4/00	CHECKED F Tannous 5/00	LAYOUT	BY K Endow 4/00	CHECKED D Acoba 4/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE	BRIDGE NO Various
	DETAILS	BY K Endow 4/00	CHECKED F Tannous 5/00						KILOMETER POST Varies
	QUANTITIES	BY D Acoba 5/00	CHECKED F Tannous 5/00	SPECIFICATIONS	BY J Maroney 9/00	PLANS AND SPECS COMPARED J Maroney 9/00		CU 06015 EA 440101	DISREGARD PRINTS BEARING EARLIER REVISION DATES

ROUTE 99 BRIDGES
GENERAL PLAN NO. 4

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 7/17/00 9/26/00 10/3/00

SHEET 4 OF 11

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

FILE > nagp4 dgn

USERNAME > mcarlson DATE PLOTTED > 03-JAN-2003 TIME PLOTTED => 08:38

ClibPDF - www.fastio.com

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	99	23 3/50 7	125	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

VENTURA STREET OC 42-0158K
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION E	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	78 m

VENTURA STREET OC 42-0158E
QUANTITIES

BRIDGE REMOVAL (PORTION) LOCATION F	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	122 m

VENTURA STREET OC 42-0158S
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION G	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	74 m

NOTES

— — Indicates existing

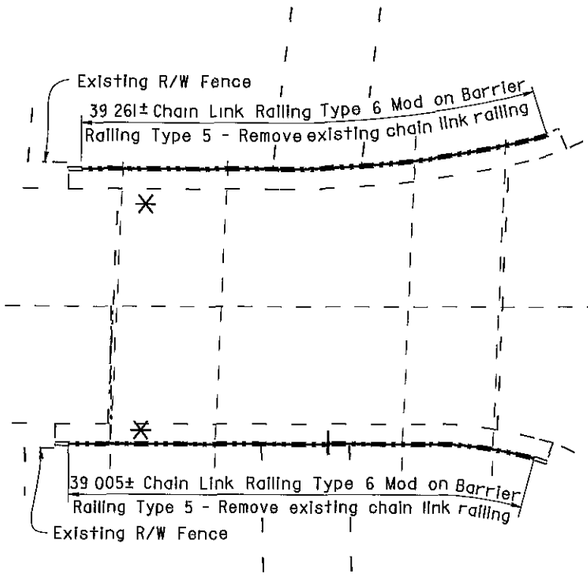
℄ Indicates approximate location of existing electroller (To remain)

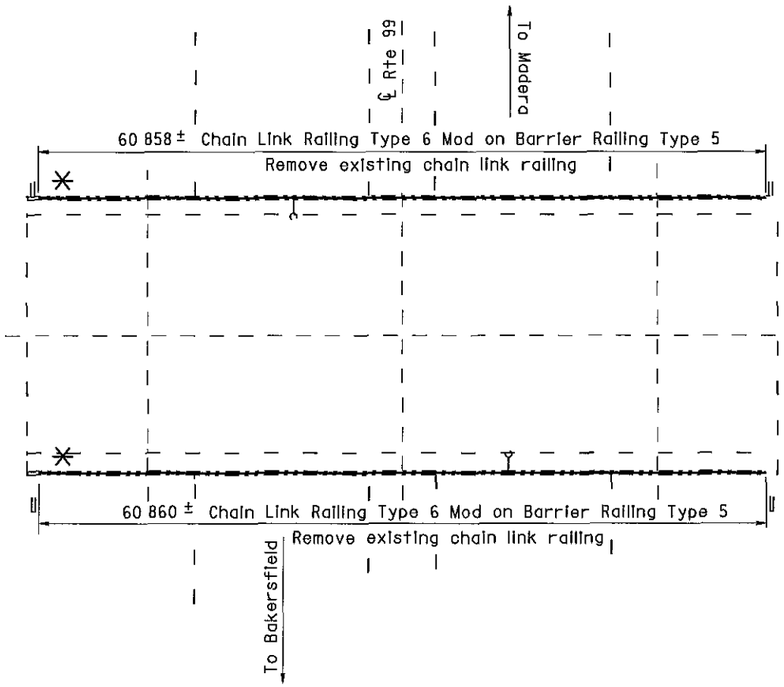
Indicates approximate location of remove and reinstall sign on new post

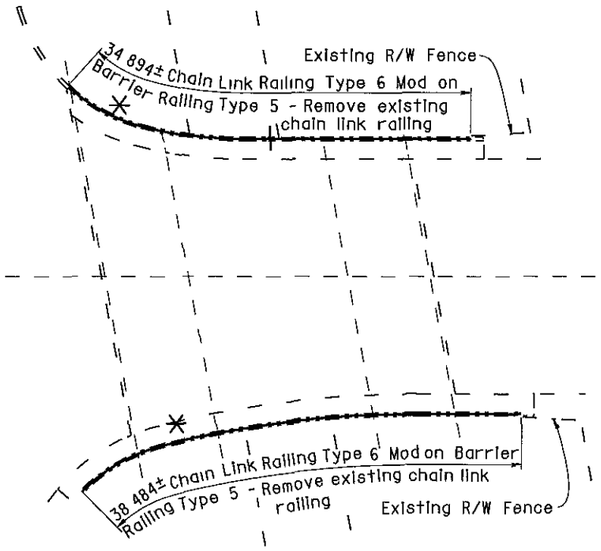
Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.







Br No 42-0158K

Bridges 42-0158K and 42-0158S were both painted with Color No. 20109 - "Deep red".

Br No. 42-0158E

VENTURA STREET OC

Fre, KP 32 5
I 250

AS BUILT
MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

Br No 42-0158S

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

	BY		CHECKED			BY		CHECKED			
DESIGN	D Acoba	4/00	F Tannous	5/00	LAYOUT	K Endow	4/00	D Acoba	4/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE
DETAILS	K Endow	4/00	F Tannous	5/00				PLANS AND SPECS COMPARED			
QUANTITIES	D Acoba	5/00	F Tannous	5/00	SPECIFICATIONS	J Maroney	9/00	J Maroney	9/00		

Michael J Lee 10/3/00
DESIGN ENGINEER

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE => nagp3.dgn

BRIDGE NO Various
KILOMETER POST Varies

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

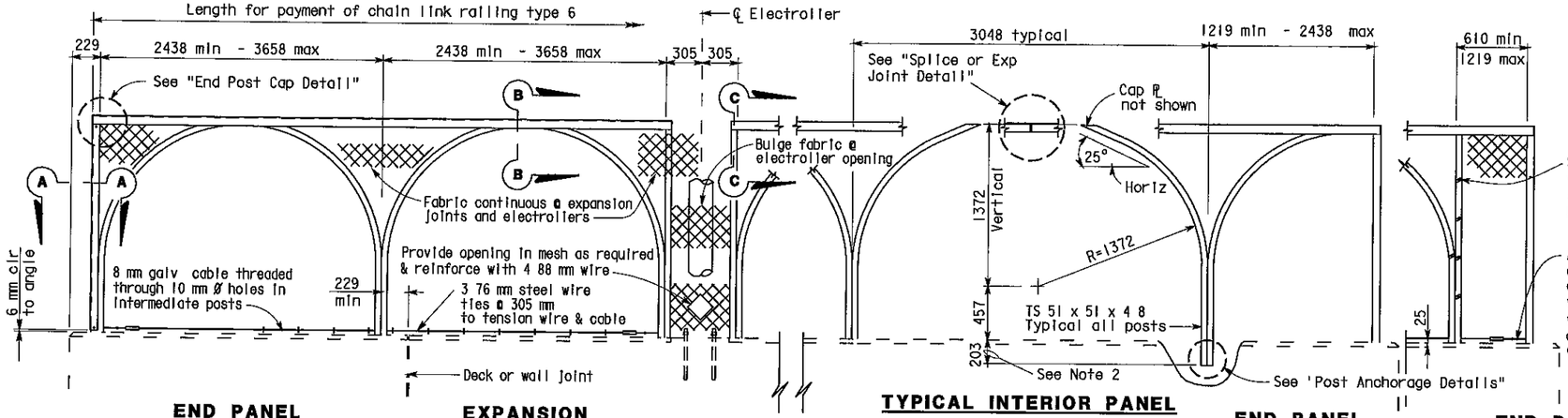
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ROUTE 99 BRIDGES
GENERAL PLAN NO. 3

SHEET 3 OF 11

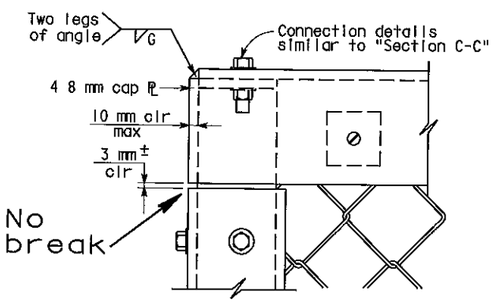
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ClibPDF - www.fastio.com

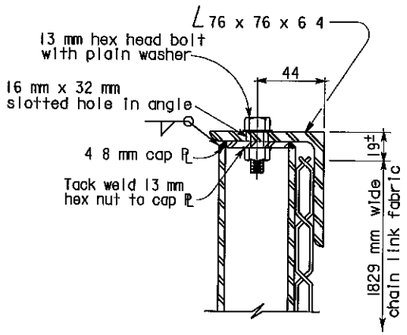


END PANEL 2438 mm - 3658 mm | **EXPANSION PANEL AT ELECTROLIER** | **TYPICAL INTERIOR PANEL** | **END PANEL 1219 mm - 2438 mm** | **END PANEL 610 mm - 1219 mm**

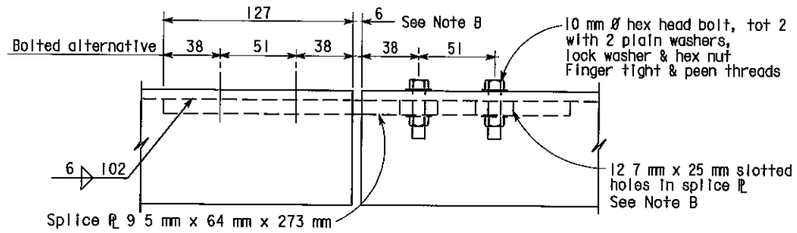
ELEVATION



END POST CAP DETAIL

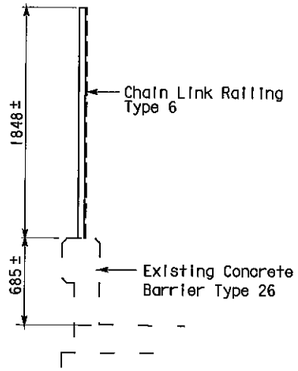


SECTION C-C

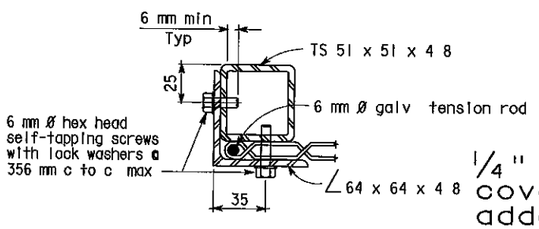


SPLICE OR EXPANSION JOINT DETAIL

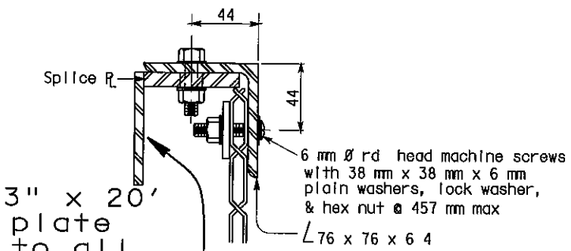
Note B Expansion joint same dimension as expansion joint in deck or wall Increase slotted hole length and splice ℙ length correspondingly



TYPICAL SECTIONS



SECTION A-A



SECTION B-B

NOTES

1. Horizontal angle shall be continuous over not less than two intermediate posts except that a shorter length is permitted at expansion joints, electrollers and other rail discontinuities
2. One post may be embedded 152 mm minimum to accomodate grade changes, otherwise fabricate post lengths as required
3. Curved posts may be rotated in plan within its post pocket to accomodate curved horizontal alignment
4. Straight posts and straight portions of curved posts shall be installed normal to bridge profile grade
5. Top horizontal angle shall be parallel to bridge profile grade and shall be shop bent to fit horizontal curves
6. When railing is on slope, fabric shall be placed parallel to slope
7. Alternative details may be submitted by Contractor for Engineer's approval
8. Railing assembly except chain link fabric shall be galvanized after fabrication
9. For details and reinforcement not shown, see "Concrete Barrier Type 25 or 26" sheet
10. See Bridge Plans for limits of Chain Link Railing Type 6 Mod
11. Provide thimbles at all cable loops
12. Chain link fabric to be 1829 mm wide with 25 mm mesh and with knuckled selvage top and bottom
13. When railing is placed on a horizontal alignment with a radius of 45 72 m or less, thread 8 mm cable through 10 mm Ø welded eye rods embedded 102 mm into the top of the concrete parapet and equally spaced to limit the middle ordinate distance between the 8 mm cable and the curve to 25 mm max
14. Splices and expansion joints shall be located at ℄ panel
15. Holes in posts for 8 mm cable and its anchorage may be field drilled and painted with zinc rich paint

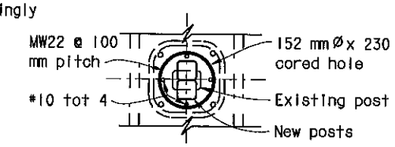
AS BUILT

MRC 1-3-03

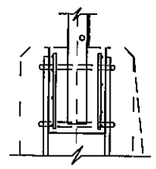
CORRECTIONS BY John Borquez

CONTRACT NO 06-440104

DATE 11-14-02



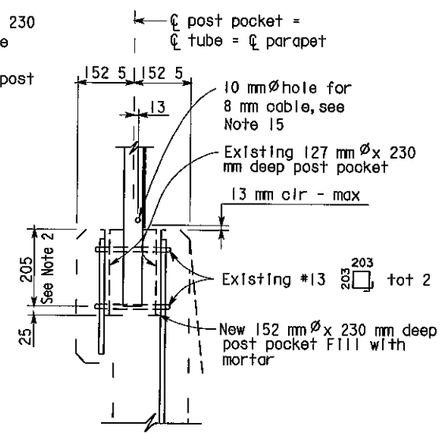
PLAN



SECTION

Detail omitted

POCKET DETAILS



POST ANCHORAGE DETAIL

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	130	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

DESIGN	BY D Acoba	5/00	CHECKED F Tannous	5/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY K Endow	5/00	CHECKED F Tannous	5/00	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE
QUANTITIES	BY D Acoba	5/00	CHECKED F Tannous	5/00	BRIDGE NO Various; KILOMETER POST Varies

ROUTE 99 BRIDGES

CHAIN LINK RAILING TYPE 6 MOD NO. 1

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV 10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE > nat61.dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/17/00 | 9/26/00 | 10/3/00

SHEET 8 OF 11

USERNAME mcarlson DATE PLOTTED > 03-JAN-2003 TIME PLOTTED => 12:11

ClibPDF - www.fastio.com

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	127	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

FRESNO STREET OC 42-0170
QUANTITIES

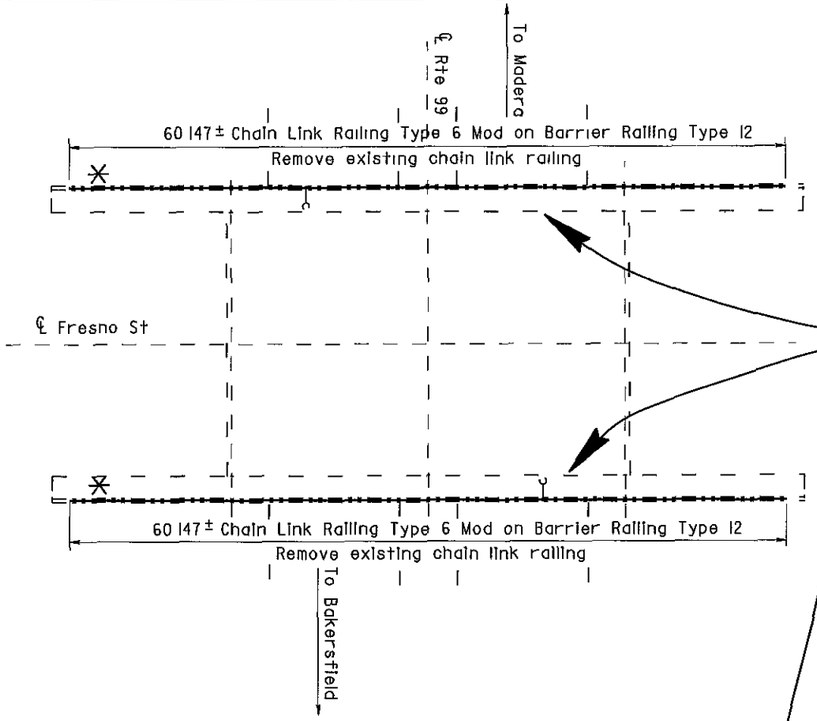
BRIDGE REMOVAL (PORTION), LOCATION J	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	120 m

EL DORADO STREET OC 42-0184
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION K	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	122 m

BELMONT AVENUE OC 42-0186
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION L	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	138 m



Handrail added to Fresno St. and Belmont Ave. OC

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

NOTES

— — Indicates existing

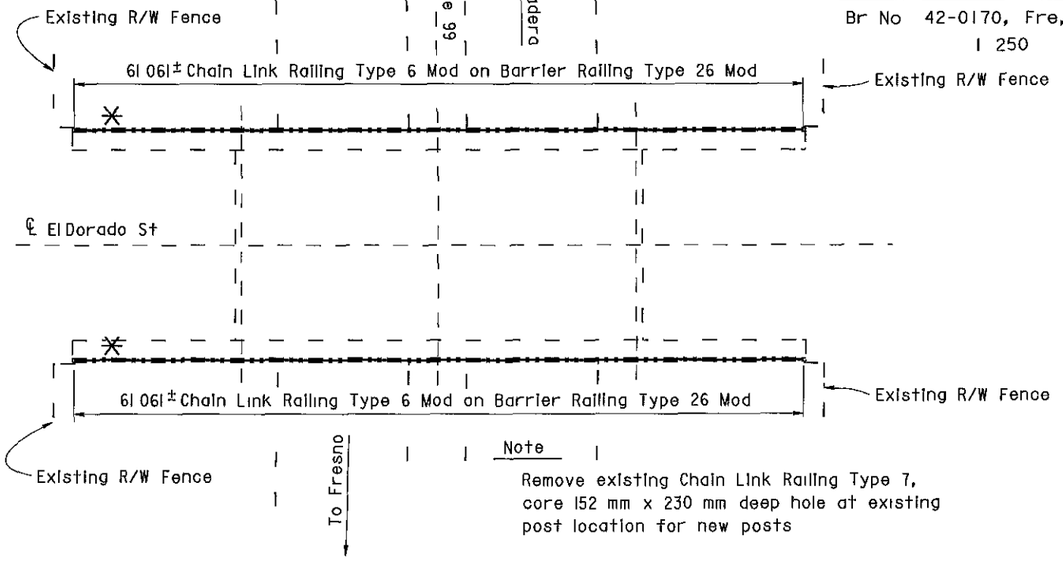
℄ Indicates approximate location of existing electrolier (To remain)

Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

FRESNO STREET OC

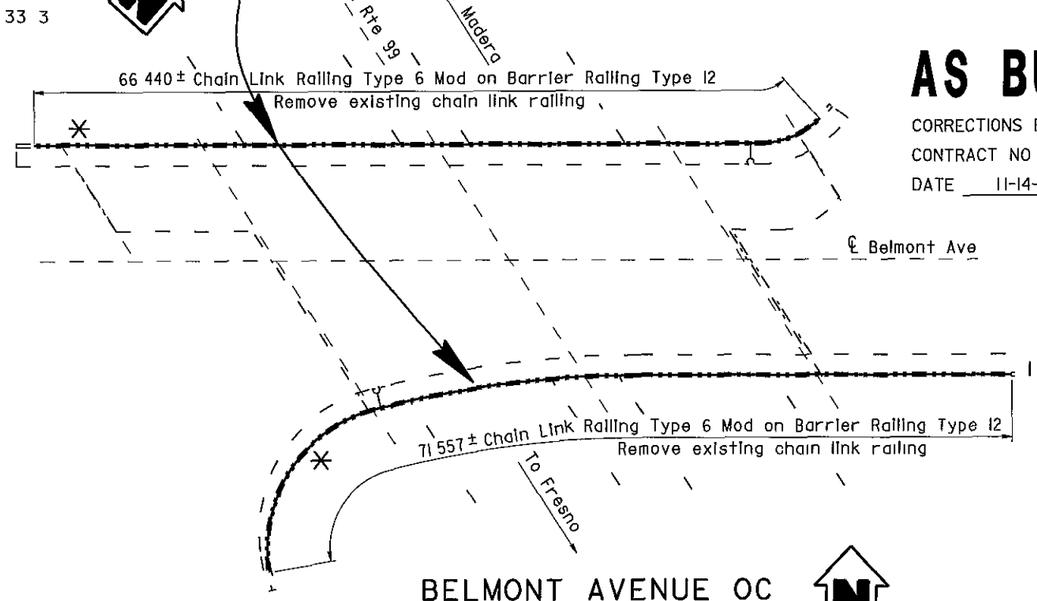
Br No 42-0170, Fre, KP 33 3
1 250



Note
Remove existing Chain Link Railing Type 7, core 152 mm x 230 mm deep hole at existing post location for new posts

EL DORADO STREET OC

Br No 42-0184, Fre, KP 34 6
1 250



BELMONT AVENUE OC

Br No 42-0186, Fre, KP 36 5
1 250

AS BUILT
MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED		LAYOUT	BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00		K Endow	4/00	D Acoba	4/00
DETAILS	K Endow	4/00	F Tannous	5/00				PLANS AND SPECS COMPARED	
QUANTITIES	D Acoba	5/00	F Tannous	5/00	SPECIFICATIONS	J Maroney	9/00	J Maroney	9/00

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

CU 06015
EA 440101

FILE => nogp5.dgn

BRIDGE NO	Various
KILOMETER POST	Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 5

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)									
5/15/00	7/17/00	9/26/00	10/3/00						

SHEET 5 OF 11

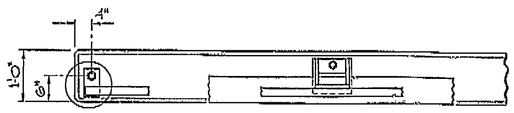
USERNAME => marison DATE PLOTTED => 03-JAN 2003 TIME PLOTTED => 06 50

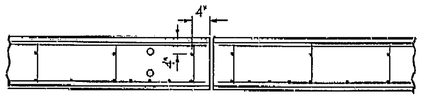
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	20.7/21.1	2	3

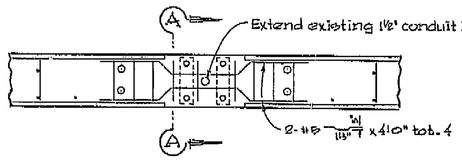
BRIDGE ENGINEER — REGISTERED CIVIL ENGINEER

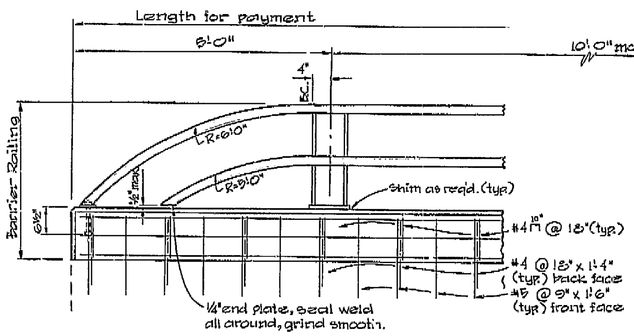
DATE APPROVED October 2, 1967



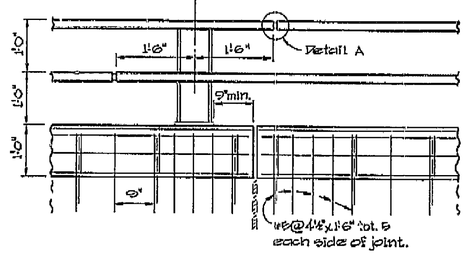


PLAN
Scale: 3/4"=1'0"

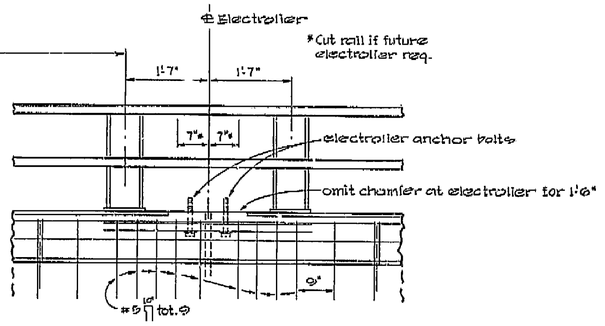




END POST



RAIL JOINT



ELECTROLIER

ELEVATION
Scale: 3/4"=1'0"

NOTES:

A. POSTS SHALL BE NORMAL TO RAILING.

B. RAIL JOINTS SHALL BE LOCATED AT ALL EXISTING SIDEWALK JOINTS. JOINT SIZE TO MATCH ACTUAL WIDTH OF SIDEWALK JOINT OPENING, SLEEVE IN RAILING JOINT TO BE LENGTHENED AS REQUIRED.

C. DIMENSION WILL VARY WITH CROSS SLOPE.

D. CLEARANCE TO REINFORCING STEEL IN CURB AND RAILING TO BE 1". LONGITUDINAL REINFORCEMENT TO STOP AT ALL JOINTS.

E. ANCHOR BOLTS SHALL BE HIGH STRENGTH CONFORMING TO ASTM DESIGNATION A325 (GALV.) HIGH STRENGTH RODS THREADED BOTH ENDS WITH 2 NUTS AND WASHERS (ALL GALV.) MAY BE SUBSTITUTED FOR HIGH STRENGTH ANCHOR BOLTS.

F. STUD BOLT STEEL SHALL BE ASTM A108.

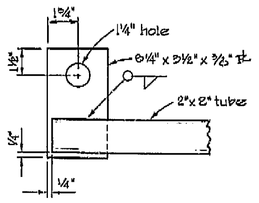
G. TORQUE RAIL TO POST NUTS TO 175 FT. LBS.

H. TUBING SHALL BE CONTINUOUS OVER NOT LESS THAN 2 INTERMEDIATE POSTS, WITH A MINIMUM LENGTH OF 2 PANELS, EXCEPT AS NOTED.

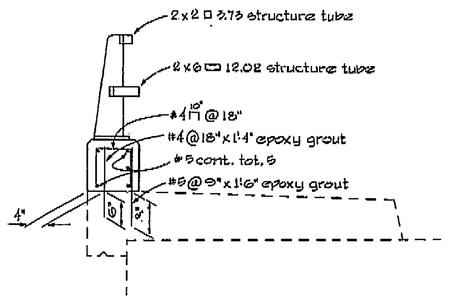
I. ALL EXPOSED CORNERS SHALL BE GROUND SMOOTH.

J. GALVANIZE RAIL ASSEMBLY AFTER FABRICATION.

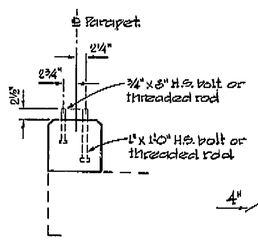
K. LENGTHEN EXISTING 1 1/2"ϕ CONDUIT AS REQUIRED AND PLACE NEW ELECTROLIER ANCHOR BOLTS AS SHOWN.



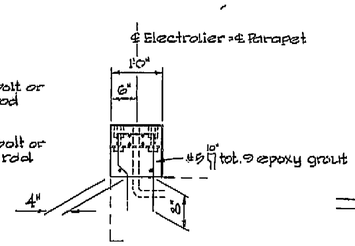
DETAIL "B"
Scale: 3"=1'-0"



TYPICAL SECTION
Scale: 3/4"=1'0"



RAIL POST ANCHOR BOLT DETAIL
Scale: 3/4"=1'0"



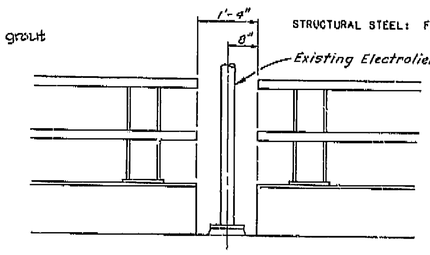
SECTION A-A
Scale: 3/4"=1'-0"

GENERAL NOTES

DESIGN: A.A.S.H.O. DATED 1965 WITH REVISIONS AND AS SUPPLEMENTED BY BRIDGE PLANNING AND DESIGN MANUAL.

REINFORCED CONCRETE: F_s = 20,000 P.S.I., N = 10
F_c = 1,200 P.S.I.

STRUCTURAL STEEL: F_s = 20,000 P.S.I.



AS BUILT
CORRECTIONS BY K & K Arte : KK-10-8-68
CONTRACT NO. 14-082404
DATE 3-29-68

RAIL DETAIL - CCO #2
(FRESNO ST. ONLY)

AS BUILT PLANS
Contract No. 14-082404
Date Completed 3-29-68
Document No. 60000070

BRIDGE DEPARTMENT DESIGN SECTION 3		
Section Supervisor	Roger D. Seabury	
DESIGN	By T.H. Dunphy	Checked REC
DETAILS	By S.S.S.	Checked REC
QUANTITIES	By REC	Checked SSS

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

FRESNO STREET SEPARATION, TUOLUMNE STREET OVERCROSSING & STANISLAUS STREET OVERCROSSING BRIDGE RAIL REPLACEMENT

BARRIER RAILING (TYPE 11) MODIFIED

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
See "Gen. Plan"		42170-2-	2	3

REVISION DATES (PRELIMINARY STAGE ONLY)

Disregard prints bearing earlier revision dates →

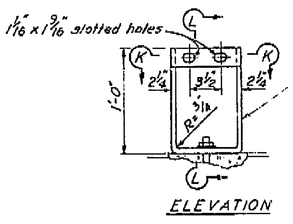
WO
CU

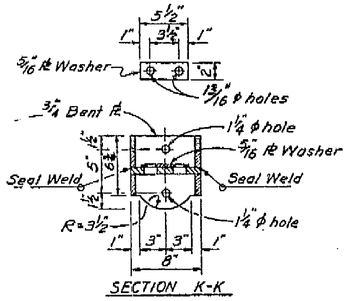
(A)

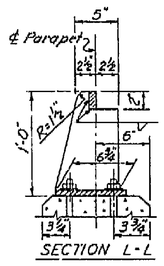
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	FRE	99	20.7/21.1	3	3

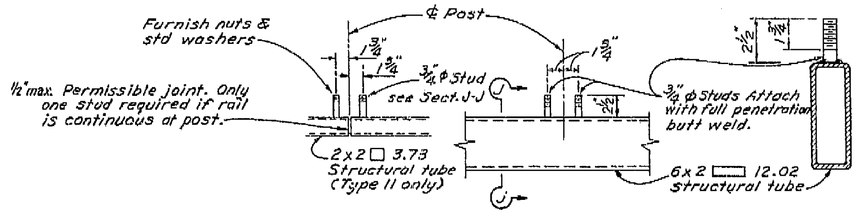
DATE APPROVED October 2, 1967



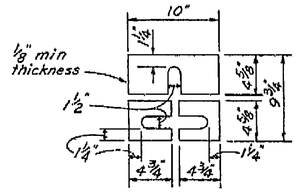




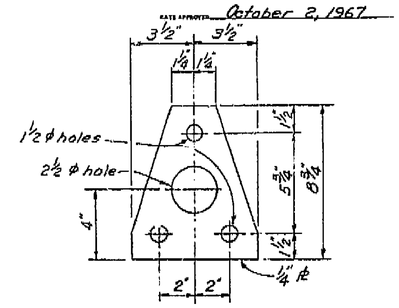
ALTERNATIVE RAIL POST DETAILS (TYPE 9 & 12)
1 1/2" = 1'-0"



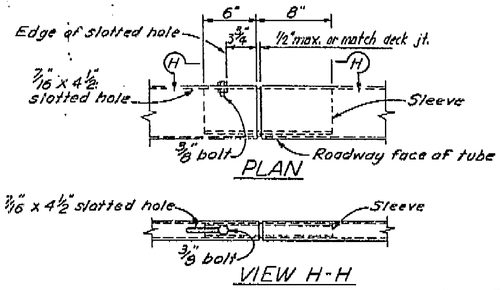
STUD BOLT DETAILS

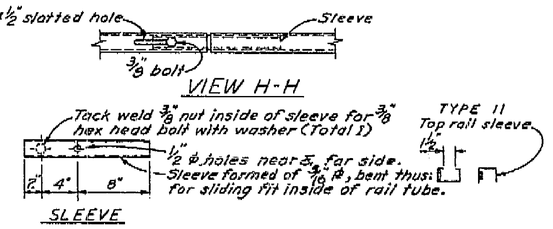


SHIM DETAILS (TYPE 10)
1 1/2" = 1'-0"

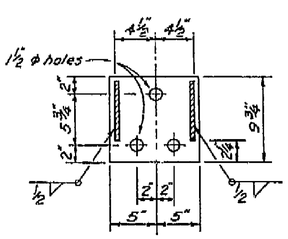


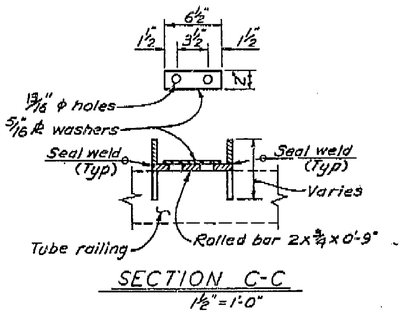
ANCHOR BOLT TEMPLATE
3" = 1'-0"
(TYPE 10)

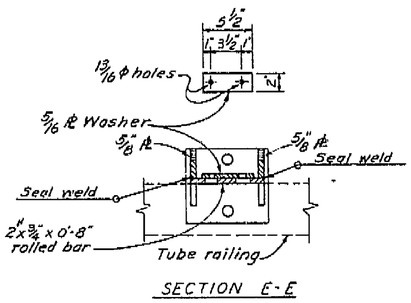


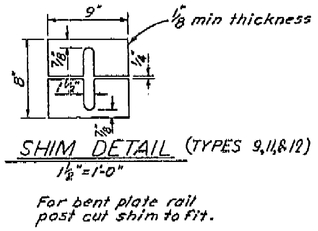


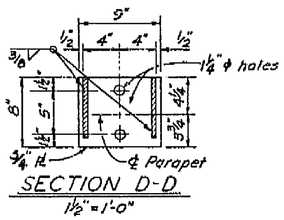
DETAIL A - TUBE SPLICE
1 1/2" = 1'-0"

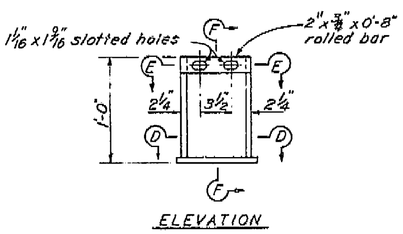


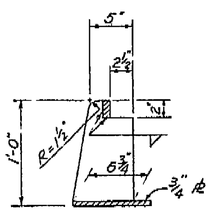


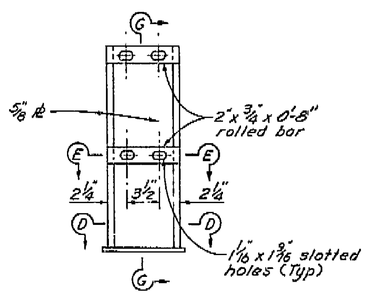


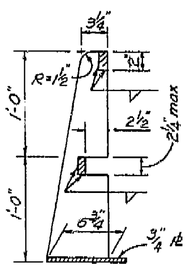






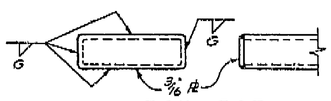






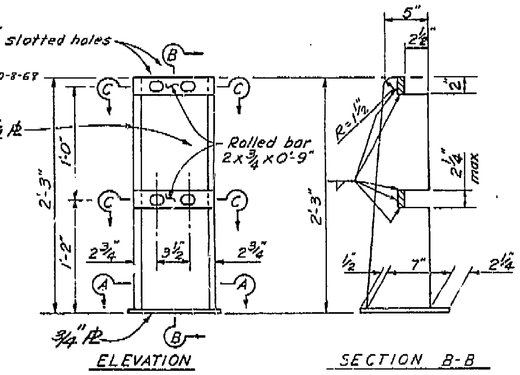
RAIL POST DETAILS (TYPE 9 & 12)
1 1/2" = 1'-0"

RAIL POST DETAILS (TYPE 11)
1 1/2" = 1'-0"



Note:
Contractor may submit alternative detail for approval.
Typical for 2" x 2" tube also.

No AS-BUILT changes 1 1/16" x 1 9/16" slotted holes
CORRECTIONS BY R.K. Arig KK 10-8-68
CONTRACT NO. 14-082404
DATE 3-29-68



RAIL POST DETAILS (TYPE 10)
1 1/2" = 1'-0"

AS BUILT PLANS
Contract No. 14-082404
Date Completed 3-29-68
Document No. 6000070

BRIDGE DEPARTMENT		
DESIGN SECTION		
Section Supervisor: Roger D. Sundberg		
DESIGN	by J.H. Dunphy	checked RFC
DETAILS	by S.S.S.	checked RFC
QUANTITIES	by RFC	checked SSS

5/67

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

XS-9-89

FRESNO STREET SEPARATION, TUOLUMNE STREET OVERCROSSING & STANISLAUS STREET OVERCROSSING BRIDGE RAIL REPLACEMENT

BARRIER RAILING DETAILS - TYPES 9, 10, 11 & 12

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
See "Gen. Plan"		42170-3	2	3

Disregard prints bearing earlier revision dates

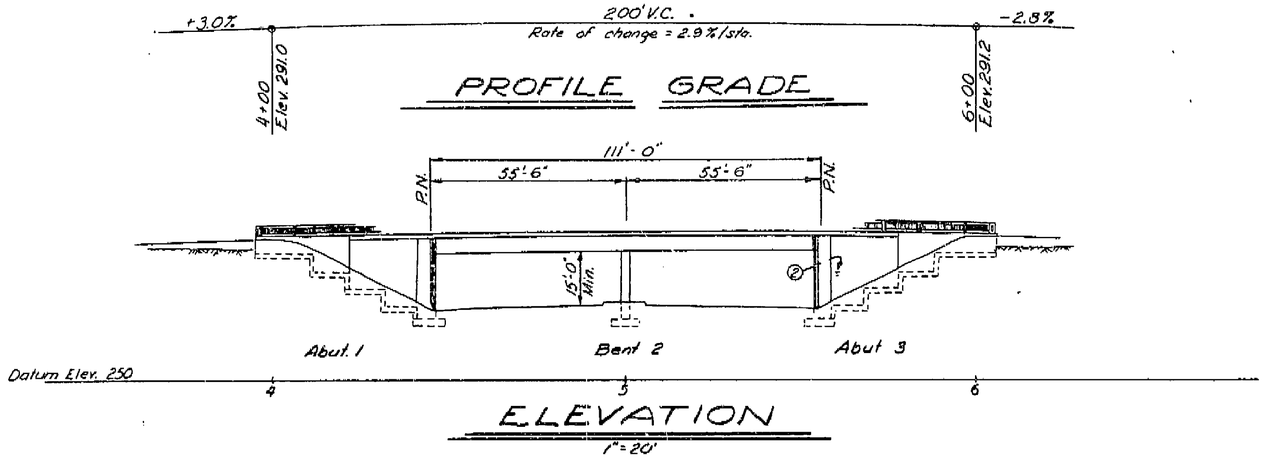
REVISION DATES (PRELIMINARY STAGE ONLY)
6/28

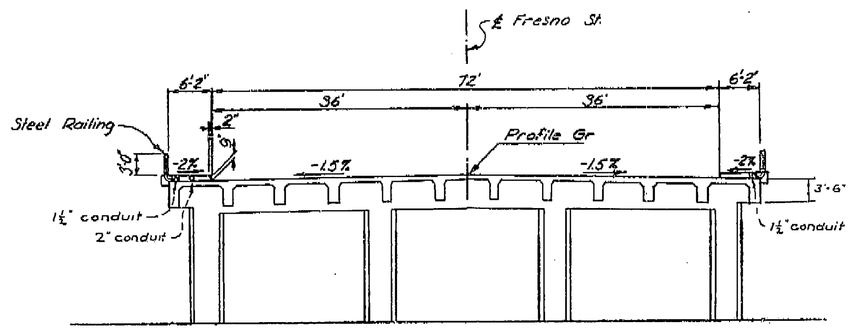
ClibPDF - www.fastio.com

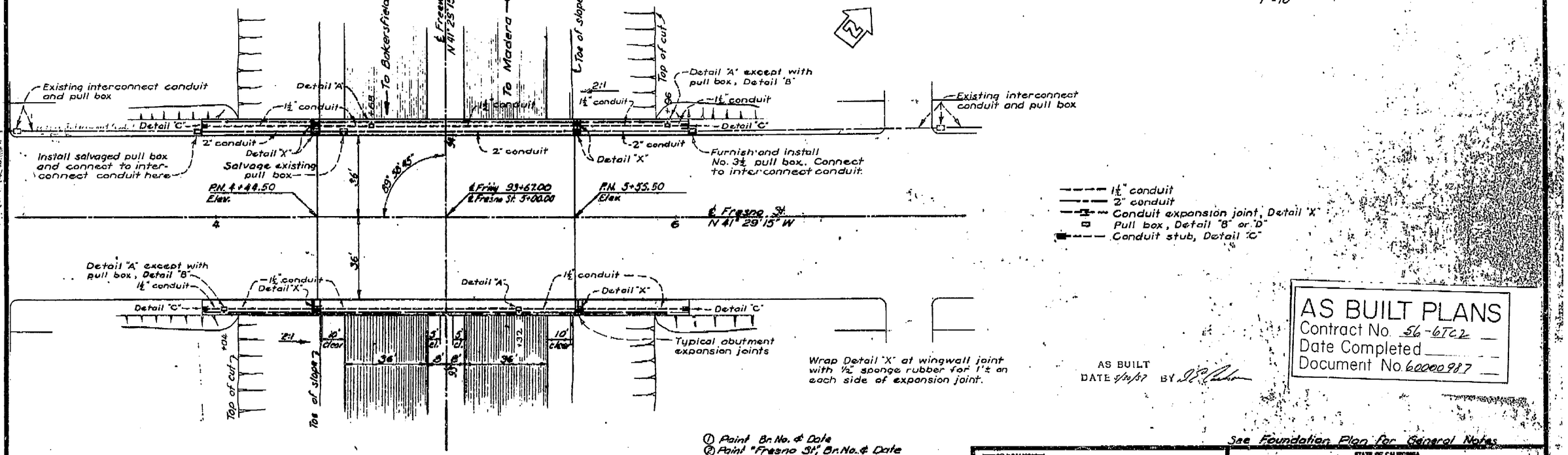
FED. ROAD DIV No.	STATE	PROJ No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
7	CALIF.			116	147

Dist.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	Fre	4-	Fre	-10-	-10-

C. T. Hewes
ASSISTANT DISTRICT ENGINEER
DATE APPROVED December 27, 1955
TRAFFIC ENGINEER
CIVIL ENGINEER LICENSE No. 5429







AS BUILT
DATE 5/10/57 BY J.S. Parker

AS BUILT PLANS
Contract No. 56-6TC2
Date Completed
Document No. 60000987

See Foundation Plan for General Notes

BRIDGE DEPARTMENT
DESIGN SECTION 8
Project Designer W. F. Johnson 3-55
Chief Designer
Detailed by Dist. Checked D.H.
Estimate by Checked
Quantities by Checked
Specifications by Checked
Approved Recommended by

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

FRESNO STREET SEPARATION

LOCATED AT THE EXISTING INTERSECTION OF "O" AND "FRESNO STREETS IN THE CITY AND COUNTY OF FRESNO

LIGHTING PLAN

SCALE As Noted | DESIGN 42-176 | FILE | DRAWN

PREL. DRAWING No. P-4099 | X

116

987

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE AS-BUILT PLANS AS DRAWN UNDER MY DIRECTION AND CONTROL OF THE DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

ClibPDF - www.fastio.com

FED. ROAD SYST. NO.	STATE	COUNTY	FISCAL YEAR	PROJECT NO.	TOTAL SHEETS
2	CAL.			114	147

DIST.	COUNTY	ROUTE	SECTION	POST MILE	TOTAL PROJECT
VI	FRE	-41-	FRE	-8-	1.0

December 27, 1955

AS BUILT PLANS
Contract No. 56-6TC2
Date Completed
Document No 600098Z7

STANDARD DWG

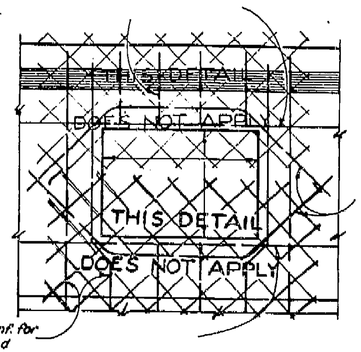
	Initial	Date
	R.A.	10-55

ervised:

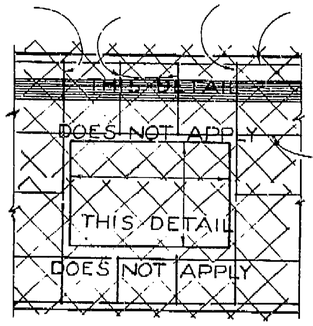
STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS
BRIDGE DEPARTMENT

Submitted: DESIGN, DETAILS, QUANTITIES, SPECIFICATIONS

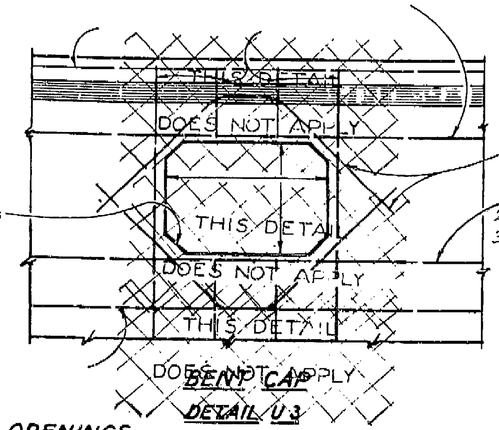
ABUTMENT BACKWALL DETAIL U1



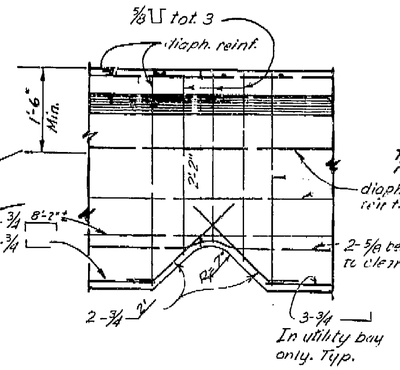
END DIAPHRAGM DETAIL U2



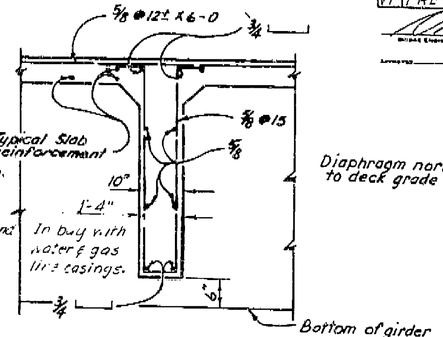
BENT CAP DETAIL U3



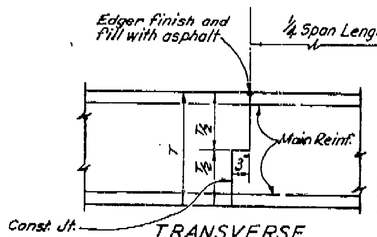
INTERMEDIATE DIAPHRAGM DETAIL U8



INTERMEDIATE DIAPHRAGM SECTION DETAIL D1

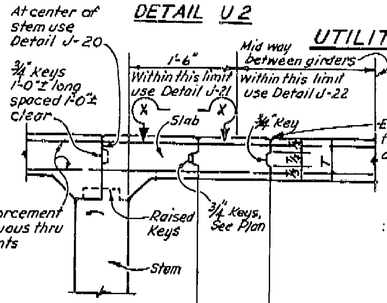


TRANSVERSE SLAB BRIDGE DETAIL J-1



UTILITY OPENINGS

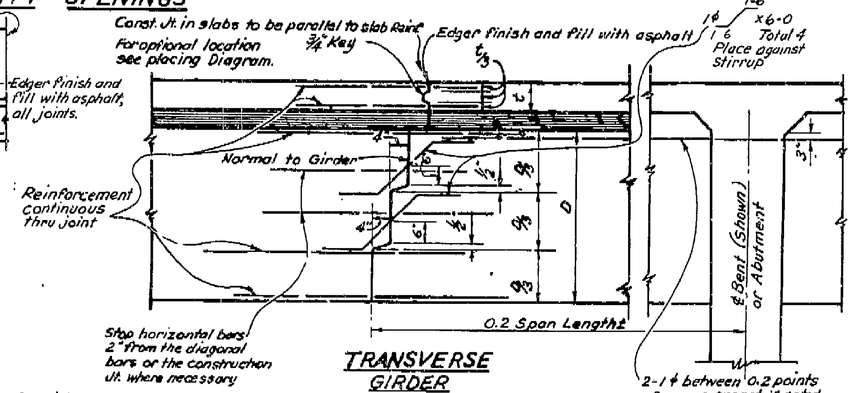
DETAIL J-20



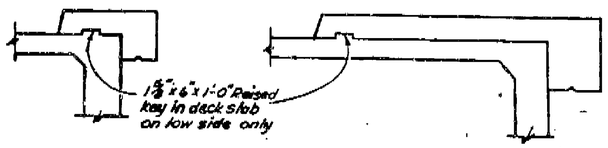
DETAIL J-21

DETAIL J-22

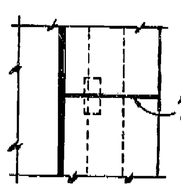
TRANSVERSE GIRDER DETAIL J-3



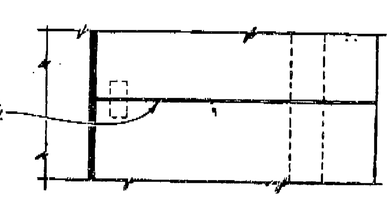
1 3/8" x 6" x 1'-0" Raised key in deck slab on low side only



CURB DETAIL C1



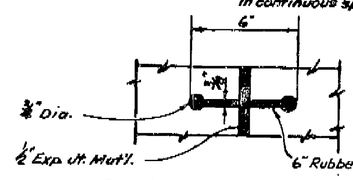
SIDEWALK DETAIL S1



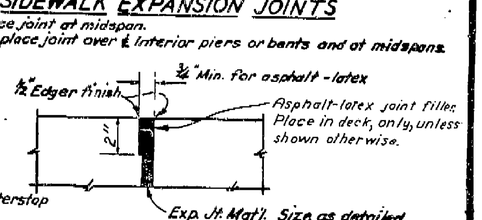
CURB AND SIDEWALK EXPANSION JOINTS

NOTE: In simple spans place joint at midspan.
In continuous spans place joint over ℄ interior piers or bents and at midspans.

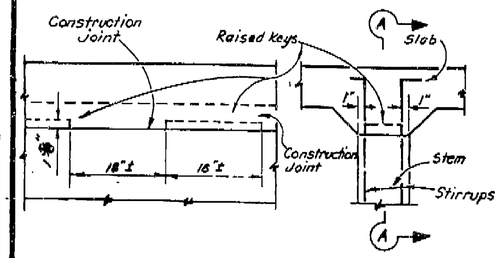
RUBBER WATERSTOP DETAIL W1



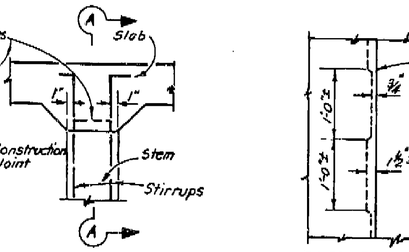
LATEX AT EXPANSION JOINT DETAIL L1



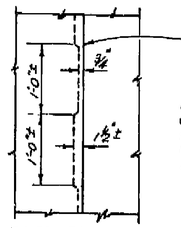
SECTION A-A



PART SECTION INTERIOR GIRDER



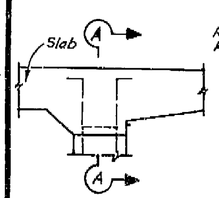
PART PLAN X-X



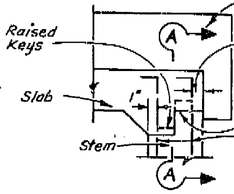
Note: Location of longitudinal construction joints in slabs to be at edge of traffic lanes except as approved by the Engineer

LONGITUDINAL DECK SLAB

PART SECTION EXTERIOR GIRDER WITH SLAB CANTILEVER



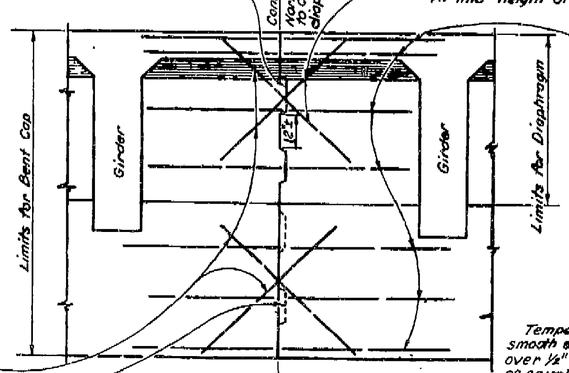
PART SECTION EXTERIOR GIRDER WITH CURB



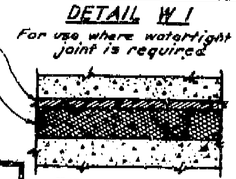
KEY - GIRDER STEM TO SLAB DETAIL J-5

CONSTRUCTION JOINTS

BENT CAP DIAPHRAGMS LONGITUDINAL DETAIL J-4



RUBBER WATERSTOP DETAIL W1



DETAIL M-1

AS BUILT
DATE 6/6/57 BY J.P. Wilson

DESIGN SECTION 8
W. F. Johnson 3-55
PROJECT DESIGNER

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

FRESNO STREET SEPARATION-

STANDARD DETAILS

SCALE None	BRIDGE 42-170	XS-16-21	C-4099-8 DRAWING

PREL. DRAWING NO. P-4099 10

T BEAM

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE June 29, 1971 SIGNATURE [illegible] TITLE Asst. Supervising Engineer

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DIST.	CO.	ROUTE	SHEET NO.
VI	FRE	4-FRE-4mm	1-0-

DIST.	COUNTY	ROUTE	SHEET NO.	TOTAL SHEETS
2	CAL			1110 147

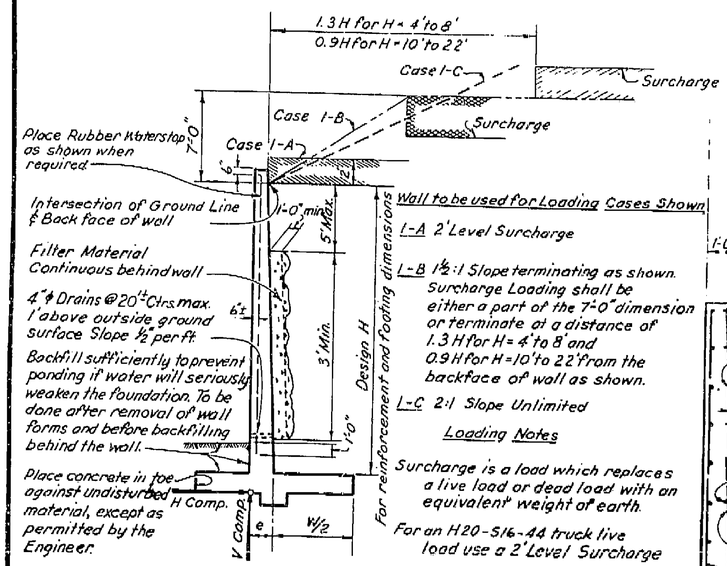
5585

September 1, 1953

State Highway Engineer
Civil Engineer License No 20884

To Accompany Plans Dated December 27, 1955

AS BUILT PLANS
Contract No. 56-6TC2
Date Completed
Document No. 60000987



DESIGN AND DRAINAGE

Wall to be used for Loading Cases Shown

I-A 2' Level Surcharge

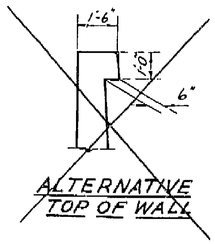
I-B 1½:1 Slope terminating as shown. Surcharge Loading shall be either a part of the 7'-0" dimension or terminate at a distance of 1.3H for H = 4' to 8' and 0.9H for H = 10' to 22' from the backface of wall as shown.

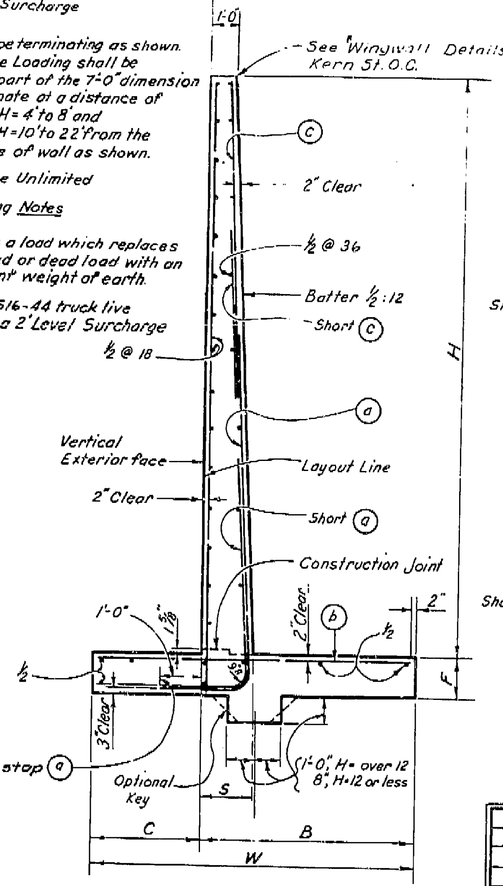
I-C 2:1 Slope Unlimited

Loading Notes

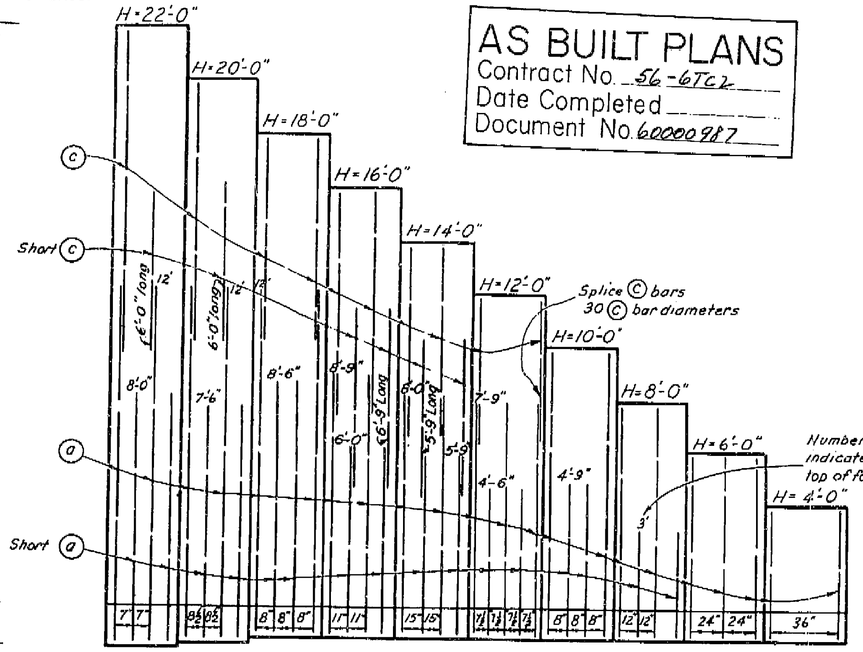
Surcharge is a load which replaces a live load or dead load with an equivalent weight of earth.

For an H20-S16-44 truck live load use a 2' Level Surcharge



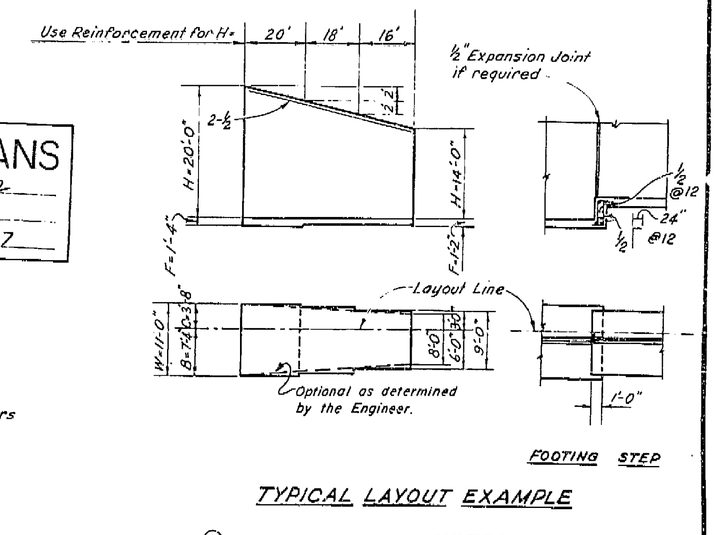


SECTION



ELEVATION

Note: Bar cut-offs may be varied in increments of 6"



FOOTING STEP

TYPICAL LAYOUT EXAMPLE

NOTES

Design Conditions:
Wall to be used for Loading Cases shown in Design and Drainage detail.
Design H may be exceeded by 6" before going to next size.
Footing Key is required except when found unnecessary by the Engineer.
Special footing design is required where foundation material is incapable of supporting toe pressure loads listed in table.

Design Data: fc = 1250 psi, fs = 20,000 psi, n = 10
earth = 120 pcf and equivalent fluid pressure = 36 psf per ft. of height

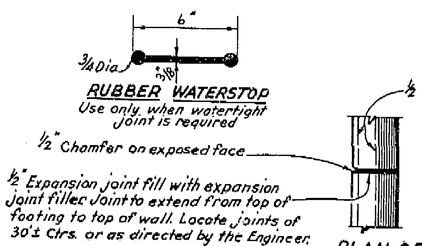
Reinforcement:
Intermediate Grade, Hard Grade or Rail Steel
Deformations shall conform to A.S.T.M. A 305.
Bars shall lap 20 diameters, where spliced, unless otherwise shown on the plans
Bends shall conform to the Manual of Standard Practice, A.C.I.
Backing for hooks is four diameters.
All bar embedments are clear distances to outside of bar.
Spacing for parallel bars is ctr. to ctr. of bars.
Bar areas are based on rounds for less than 1" and squares for over 1".

Omit or substitute for "Abutments" sheet supersede those in this table

TABLE OF REINFORCING STEEL DIMENSIONS AND DATA

H	22'	20'	18'	16'	14'	12'	10'	8'	6'	4'
W	12'-0"	11'-0"	10'-0"	9'-0"	8'-0"	7'-2"	6'-2"	5'-2"	4'-2"	3'-2"
C	4'-0"	3'-8"	3'-4"	3'-0"	2'-8"	2'-4"	2'-0"	1'-8"	1'-4"	1'-0"
B	8'-0"	7'-4"	6'-8"	6'-0"	5'-4"	4'-10"	4'-2"	3'-6"	2'-10"	2'-2"
F	1'-6"	1'-4"	1'-2"	1'-2"	1'-2"	1'-2"	1'-2"	1'-2"	1'-2"	1'-2"
S	1'-11"	1'-10"	1'-9"	1'-8"	1'-7"	1'-6"	1'-5"	1'-4"	1'-3"	1'-2"
© Bars	⅞@14	⅞@17	¾@24	⅝@11	⅝@15	⅝@30				
ⓐ Bars	1¼@7	1⅛@8½	1⅛@8	1⅛@11	1⅛@15	⅝@7½	⅝@8	⅝@12	⅝@24	⅝@36
ⓑ Bars	1⅛@7	1⅛@8½	1"@8	1"@11	1"@15	⅞@7½	½@8	½@12	⅜@24	⅜@36
Conc cf/ft	52.1	45.0	38.5	33.8	29.5	24.3	20.2	16.3	12.6	8.9
Steel lbs/ft	309	233	177	123	90	56	47	28	20	14
Toe Press.	4480	4000	3590	3290	2980	2640	2270	1930	1570	1240
H Comp. lbs	11630	9730	8000	6540	5240	4070	3050	2170	1440	850
V Comp. lbs	27070	22690	18670	15260	12180	9760	7340	5230	3460	2020
e ft.	1.90	1.72	1.54	1.41	1.28	1.07	.94	.79	.60	.50

WHERE DEVIATIONS IN FOOTING DIMENSIONS FROM TABULAR VALUES OCCUR, THIS DATA DOES NOT APPLY.



PLAN OF EXPANSION JOINT

AS BUILT
DATE 9-10-57 BY J. Stratton

DESIGN SECTION 8
W. F. Johnson 3-55
PROJECT DESIGNER

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

FRESNO STREET SEPARATION

TYPE I CANTILEVER RETAINING WALL

SCALE None	BRIDGE 42-170	XS-3-36 FILE	C-4099-6 DRAWING

4099 B V 12

A63

381

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-23-58 SIGNATURE [illegible] TITLE [illegible]

ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
7	CALIF.			107	147

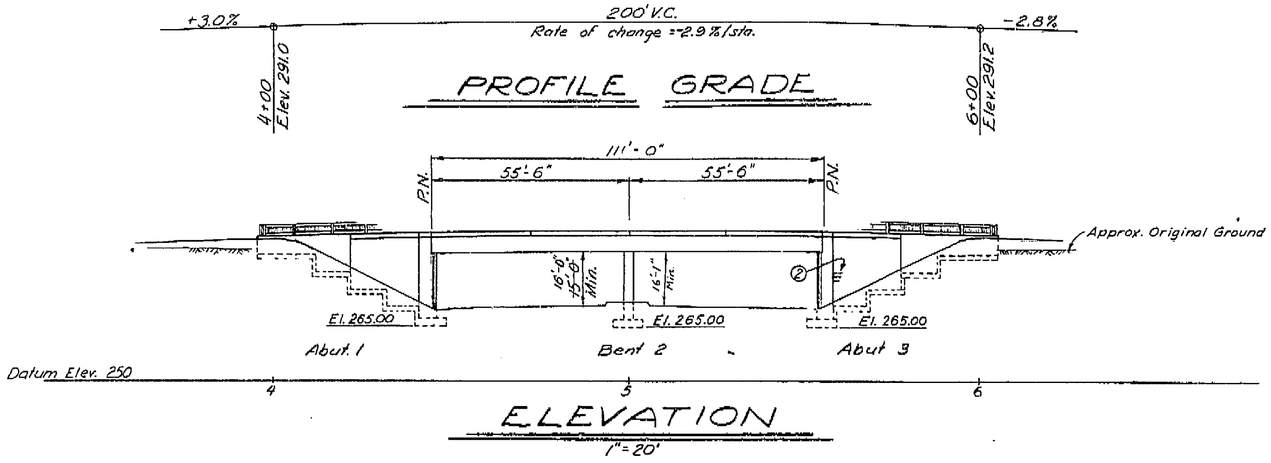
P.M. 20.7

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	Fre	41	Fre	-1-	-10-

Assistant State Highway Engineer — Civil Engineer License No.

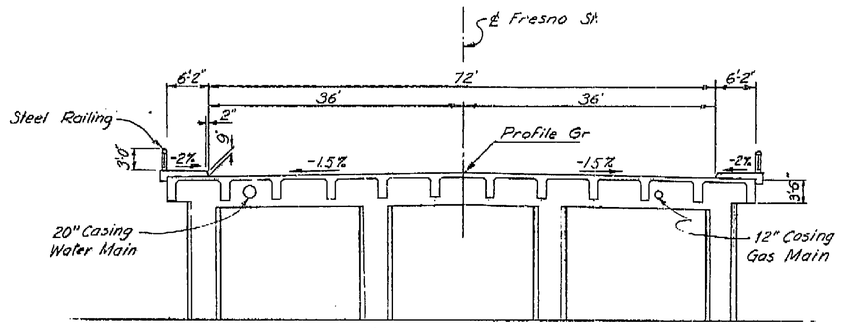
Date Approved: December 27 1955

State Highway Engineer — Civil Engineer—License Expires



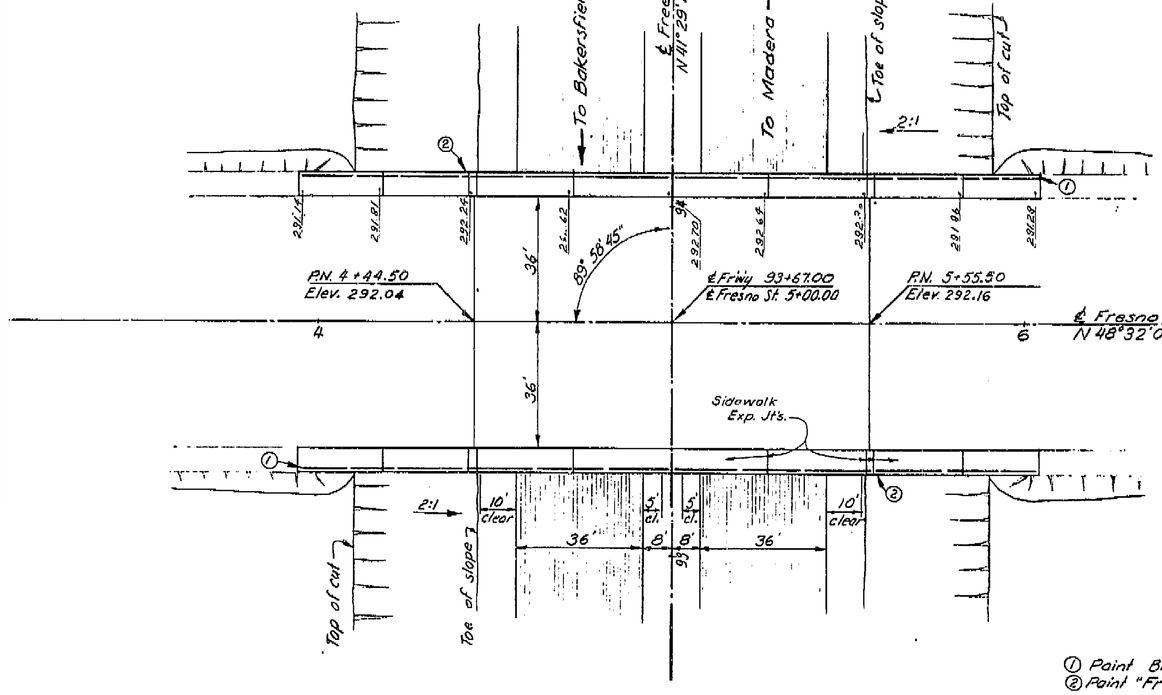
ELEVATION

1" = 20'



TYPICAL SECTION

1" = 10'



PLAN

1" = 20'

① Point Br. No. & Date
② Point "Fresno St." Br. No. & Date

AS BUILT PLANS
Contract No. 56-6TC2
Date Completed
Document No. 60000987

INDEX TO PLANS

Sheet No.	Title
1.	General Plan
2.	Foundation Plan
3.	Abutments
4.	Type 1 Cantilever Retaining Wall
5.	Bent 2
6.	Girder Layout and Reinforcement
7.	Typical Section
8.	Standard Details
9.	Log of Test Borings
10.	Lighting Plan

APPROXIMATE QUANTITIES

STRUCTURE EXCAVATION	1,250 C.Y.
STRUCTURE BACKFILL	1,700 C.Y.
CLASS A CONCRETE (BRIDGE)(1180 C.Y.)	LUMP SUM
RUBBER WATERSTOPS	155 L.F.
BAR REINFORCING STEEL (BRIDGE)(254,000 LBS.)	LUMP SUM
STEEL RAILING	411 L.F.

See "Kern St. Overcrossing" Br. No. 42-159 for:
Concrete Girder Placing Diagram, "Miscellaneous Details" sheet.
Railing Details - "Steel Railing" sheet

AS BUILT
DATE 5/30/57 BY D. P. Colson

56-6TC2
For General Notes see "Foundation Plan" sheet

BRIDGE DEPARTMENT
··· DESIGN SECTION ···
8
Project Designer W. F. Johnson 3-55
Chief Designer C. H. Symbol 4-55

DESIGN	By W. F. Johnson 3-55	Checked C. H. Symbol 4-55	
DETAILS	By C. H. Symbol 3-55	Checked C. H. Symbol 4-55	
QUANTITIES	By Chas. H. Emerson 4-55	Checked C. H. Symbol 4-55	
SPECIFICATIONS	By [illegible] 5/15/55	Plans and Tracer Compared	

Approval Recommended by: [illegible] Engineer of Design — Civil and Structural Engr. License No. 5437

L.L.: H20-S16-44

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

59-6 FC2 OC

FRESNO STREET SEPARATION

LOCATED AT THE EXISTING INTERSECTION OF "O" AND FRESNO STREETS IN THE CITY AND COUNTY OF FRESNO

GENERAL PLAN

SCALE	BRIDGE	FILE	DRAWING
As Noted	42-170		C-4099-1

PREL. DRAWING No. P-4099 X 2 3 12 14

107

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE June 2, 1971 SIGNATURE [illegible] TITLE Asst Supervising Bridge Engineer

ClibPDF - www.fastio.com

FED. ROAD DIV NO	STATE	PROJ. No.	FISCAL YEAR	SHEET NO	TOTAL SHEETS
7	CAL.			115	147

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	41	-FRE	9	10

DATE APPROVED December 27 1955

BRIDGE DEPARTMENT

FIELD STUDY	R. Hayer	Jan. 1955
DRAWN	M. Heaney	2-10-55
CHECKED	R. Hayer	2-18-55

Approved Recommended by: [illegible] Bridge Engineer

Distance: 22.96 ft
B-3
Distance: 58.74 ft
B-4
Distance: 35.39 ft
Distance: 55.13 ft
To Madera
℄ D Street VI-Fre-4-J
94
Sta. 93 + 67.00 P.O.T.
℄ Fresno Street
Distance: 29.09 ft
Distance: 59.55 ft
B-1
To Bakersfield
Distance: 66.93 ft
Distance: 28 ft
B-2

BM #93.4 · R.R. Spike in R.R. SW cor. Fresno & D St. Elev. 288.39

AS BUILT PLANS
Contract No. 56-6TC2
Date Completed
Document No. 60000987

AS BUILT
DATE 1/30/12 BY [illegible]

Drilled 23 Feet
Drilled 20 Feet
Existing ground line
B-1 El 287.4
B-4 El 287.4
B-3 El 287.4
B-2 El 287.3
Slightly compact coarse clean sand
Compact coarse clean sand
Dense buff fine to medium partially cemented sand
Dense lenses of brown coarse sand & fine buff sand
No ground water encountered
290
280
270
260
250
240

CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS

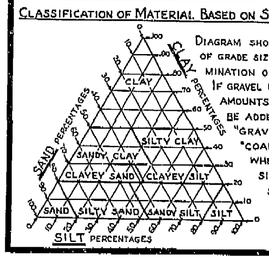


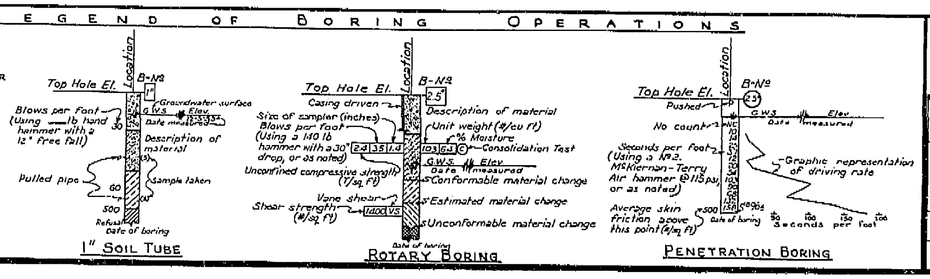
DIAGRAM SHOWING THE BASIS FOR ESTIMATES OF GRADE SIZE DISTRIBUTION USED IN DETERMINATION OF CLASS NAMES. IF GRAVEL IS PRESENT IN APPRECIABLE AMOUNTS THE TERM "GRAVELLY" MAY BE ADDED TO THE CLASS NAME, VIZ. "GRAVELLY SAND." THE TERMS "COARSE", "MEDIUM" AND "FINE" WHEN USED TO DESCRIBE SAND, SILT AND GRAVEL REFER TO STANDARD GRADE SIZE LIMITS.

LEGEND OF EARTH MATERIALS

- GRAVEL
- SAND
- SILT
- CLAY
- SANDY CLAY OR CLAYEY SAND
- SANDY SILT OR SILTY SAND
- SILTY CLAY OR CLAYEY SILT
- PEAT AND/OR ORGANIC MATTER
- FILL MATERIAL
- IGNEOUS ROCK
- SEDIMENTARY ROCK
- METAMORPHIC ROCK

LEGEND OF BORING OPERATIONS

- PLAN OF ANY BORING
- PENETROMETER
- 2½" CONE PENETROMETER
- SAMPLER BORING (DRY)
- ROTARY BORING (WET)
- AUGER BORING (DRY)
- JET BORING
- CORE BORING
- TEST PIT



NOTES

The contractor's attention is directed to Section 2, Article (c) of the Standard Specifications and to the Special Provisions accompanying this set of plans.
Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

FRESNO STREET SEPARATION

LOG OF TEST BORINGS

SCALE	BRIDGE	FILE	DRAWING
1" = 10'	42-170		C-4099-9

PREL. DRAWING NO. P- 4099 //

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE June 29, 1971 SIGNATURE [illegible] TITLE [illegible]

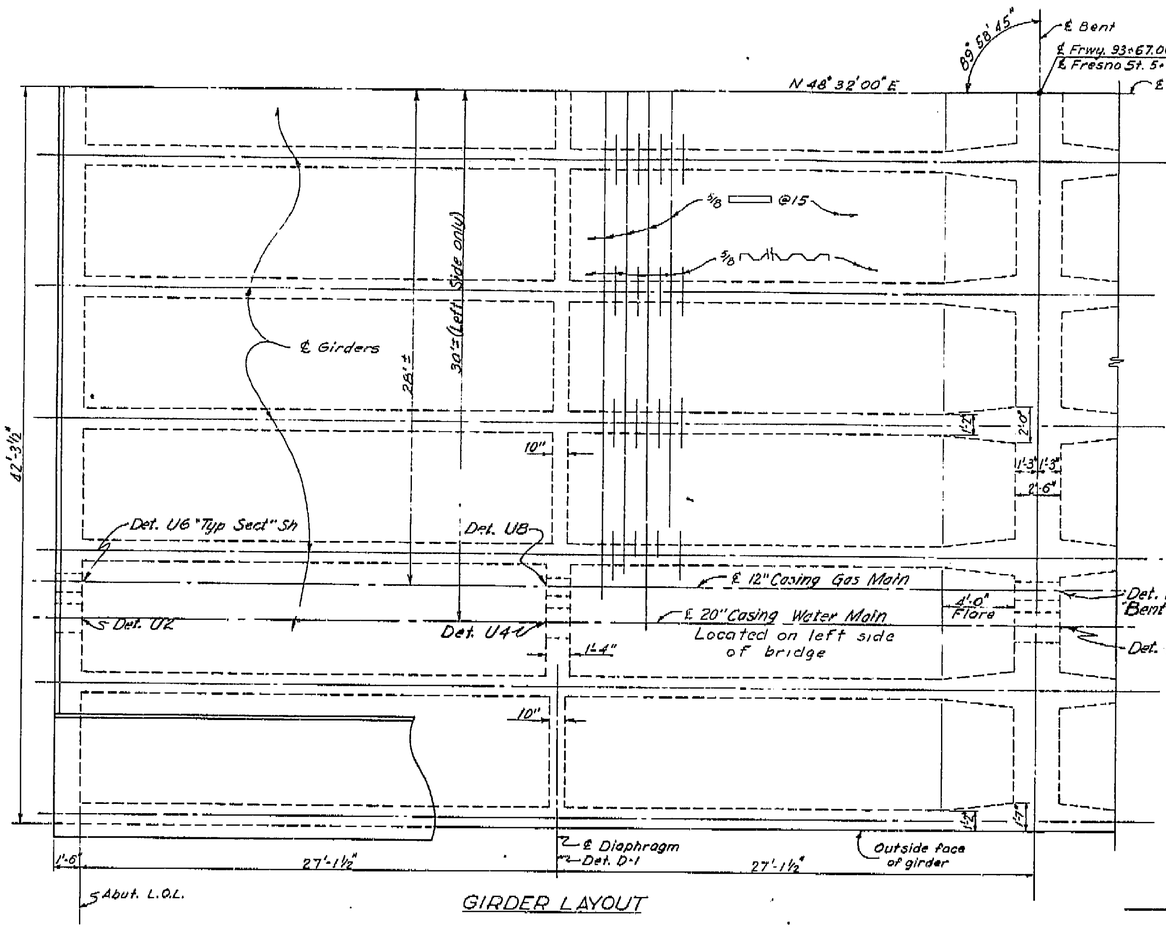
ClibPDF - www.fastio.com

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			112	147

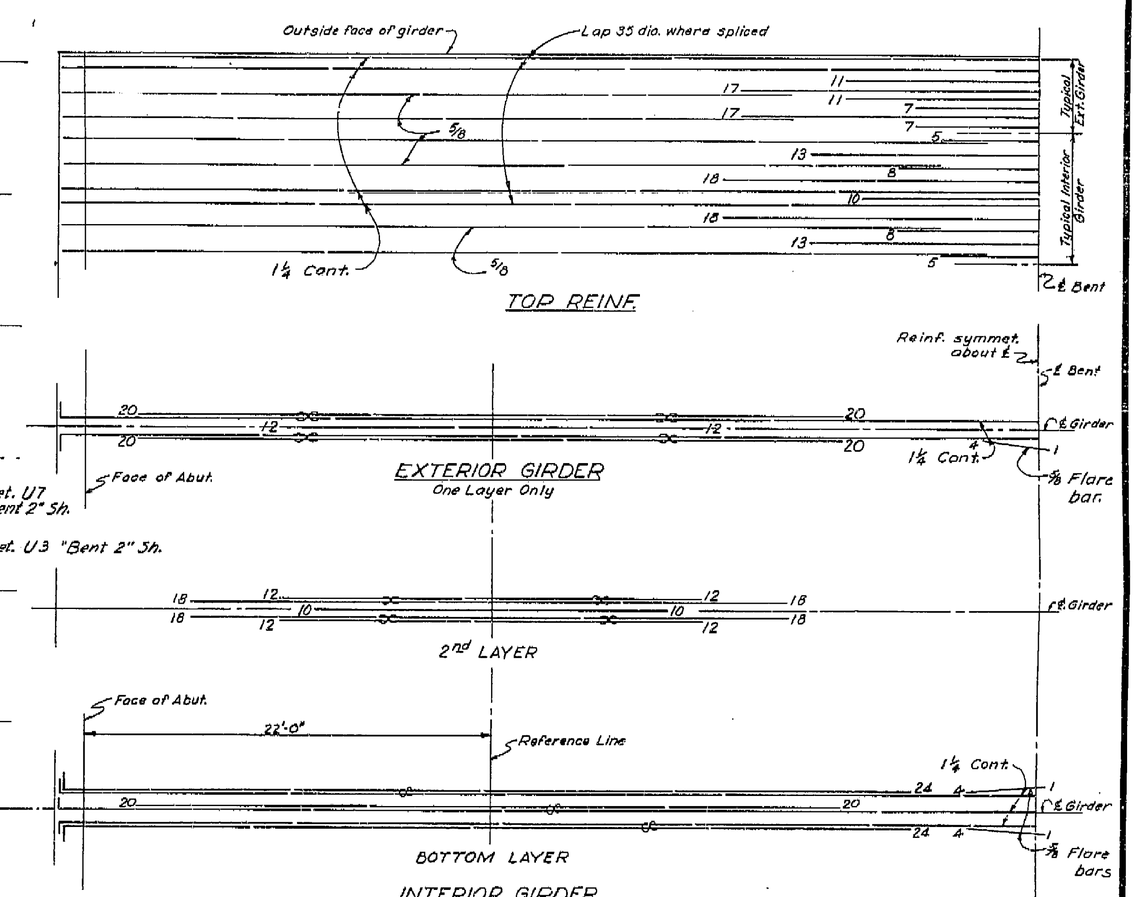
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	-41-	FRE	6-	-10-

DATE APPROVED: December 27, 1955

NOTE: Layout is symmetrical about ℄ Bent and ℄ Bridge except for skew



GIRDER LAYOUT



TOP REINF.

EXTERIOR GIRDER
One Layer Only

2nd LAYER

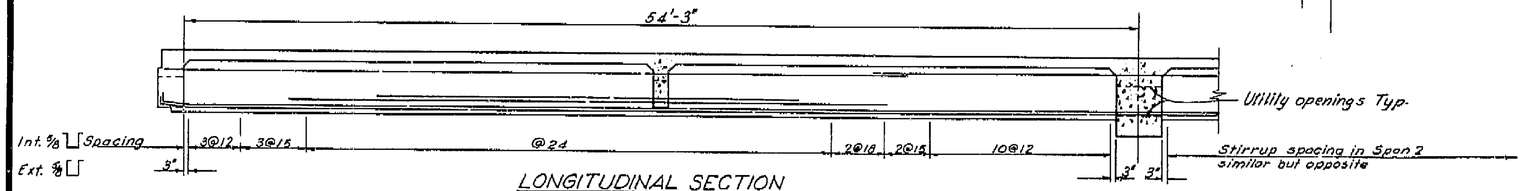
BOTTOM LAYER

INTERIOR GIRDER

BOTTOM REINF.

For location see "Sections" this sheet
For Bottom Reinf. lap all splices 35 dia. & stagger. No splices within middle ½ span.

NOTE:
All bars are 1¼ unless detailed otherwise. Numbers at ends of bars indicate length from ℄ Bent or from Reference Line.
=== Indicates bundle bars.

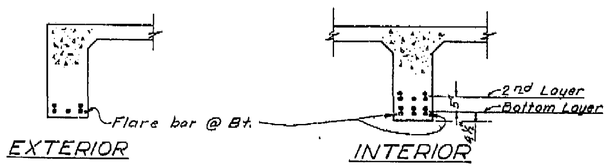


LONGITUDINAL SECTION

AS BUILT
DATE 5/10/57 BY [signature]

For Concrete Placing Diagram see Kern St. O.C. "Miscellaneous Details" sheet.

Note:
For Det's. U2 & U4 see Ventura St. O.C.



SECTIONS

AS BUILT PLANS
Contract No. 56-6TC2
Date Completed
Document No. 60000987

BRIDGE DEPARTMENT
DESIGN SECTION 8

Project Designer	W. F. Johnson 3-55		
Chief Designer	[signature]		
DESIGN	W. F. Johnson 3-55	Checked E. H. Pomeroy 4-55	
DETAILS	[signature] 4/29/55	Checked E. H. Pomeroy 4-55	
QUANTITIES	[signature] 4-55	Checked [signature] 4-57	
SPECIFICATIONS	[signature]	Plans and Specs. Compared	
Approval Recommended by	[signature]	Chief of Structural Design	5439

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

FRESNO STREET SEPARATION

GIRDER LAYOUT AND REINFORCEMENT

SCALE 1/2"=1'-0" | BRIDGE 42-170 | FILE | DRAWING C-4099-6

PREL. DRAWING No. P-4099 8 VI 24

112

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

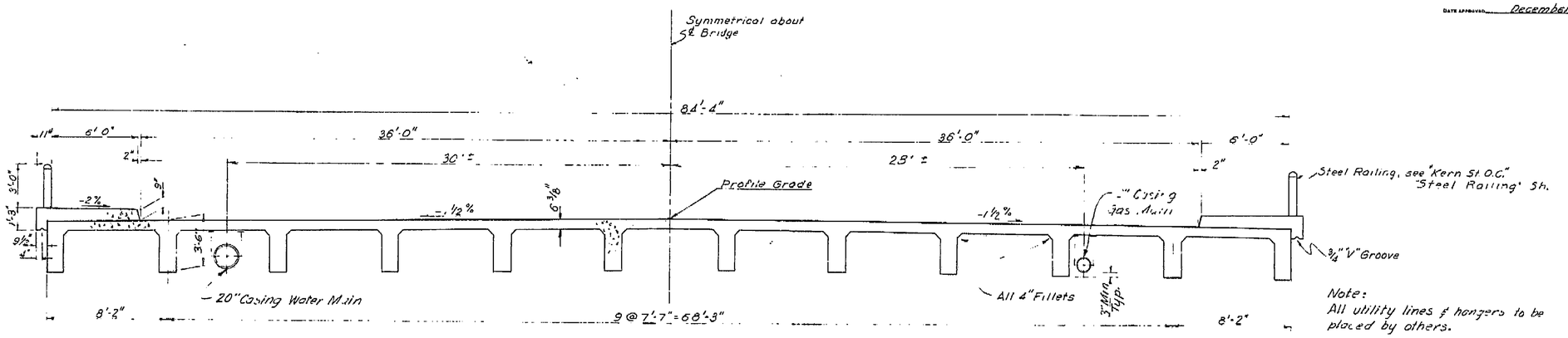
DATE June 21 1957 SIGNATURE [signature] TITLE [signature]

ClibPDF - www.fastio.com

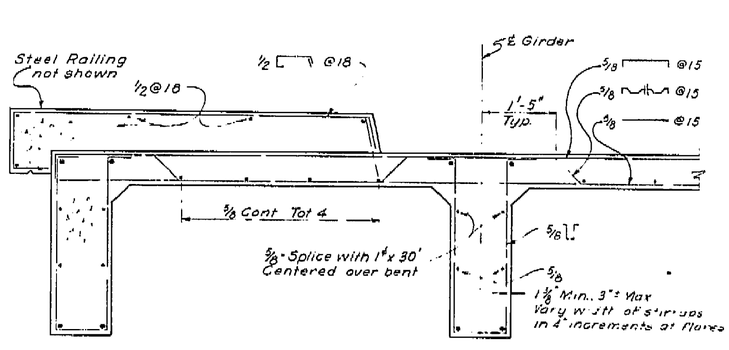
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7	CALIF.			113	147

DIST	COUNTY	ROUTE	SECTION	SHEET NO	TOTAL SHEETS
VI	FRE	4	FRE	7	10

DATE APPROVED December 27 1955

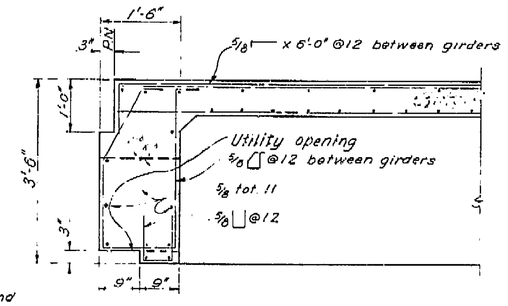


TYPICAL SECTION
Scale: ½"=1'-0"

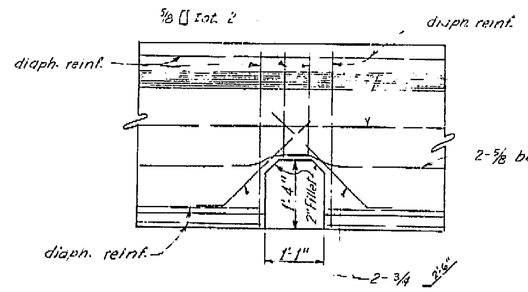


PART SECTION
Scale ¾"=1'-0"

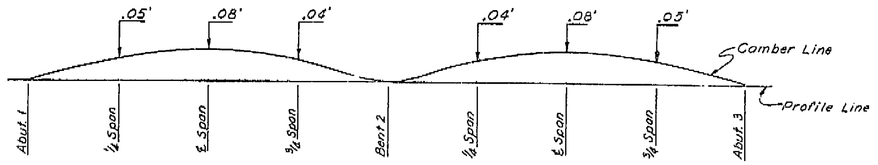
NOTE: All reinf. not shown. See "Girder Layout and Reinf." sheet.



END DIAPHRAGM
Scale: ¾"=1'-0"



END DIAPHGRAM
DETAIL U6
Scale: ¾"=1'-0"



CAMBER DIAGRAM FOR TOTAL GIRDER DEFLECTION DUE TO DEAD LOADS
- No Scale -

Note: The total deflection will be reached about 4 years after falsework removal. For values of time of falsework removal, divide those shown by 4.
The amount of camber for construction will be determined by the Engineer.

AS BUILT PLANS
Contract No. 56-67C2
Date Completed
Document No. 60000987

AS BUILT
DATE 5/30/57 BY J. P. Carlson

BRIDGE DEPARTMENT			
DESIGN SECTION 8			
Project Designer W. F. Johnson 3-55			
Chief Designer Civil Engineer			
DESIGN	By W. F. Johnson 3-55	Checked C. H. Powers 4-55	
DETAILS	By R. R. Parmley 2/55	Checked C. H. Powers 4-55	
QUANTITIES	By [illegible] 3-55	Checked [illegible] 3-55	
SPECIFICATIONS	By	Plans and Form Checked	
Approval Recommended by [illegible] Engineer of Design		Civil Engineer 5496	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

FRESNO STREET SEPARATION—

TYPICAL SECTION

SCALE As Noted	BRIDGE 42-170	FILE	DRAWING C-4099-7

PREL. DRAWING No. P- 4099 D 18 25

113

384

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE Jun 28 1971 SIGNATURE [illegible] TITLE Highway Transportation Engr

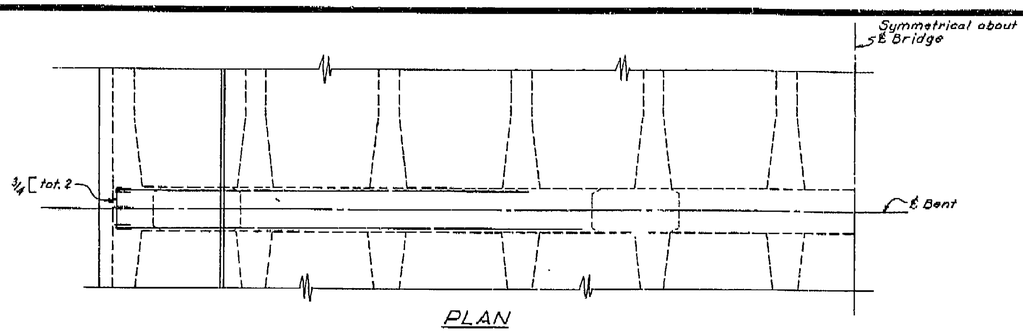
ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	PROJ. No	FISCAL YEAR	SHEET No.	TOTAL SHEETS
7	CALIF.			111	147

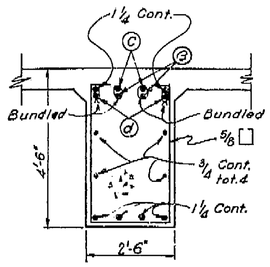
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	4	FRE	5	10

Bruce Johnson Chief Engineer—License 8088

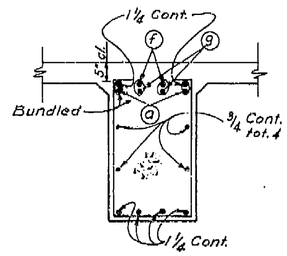
DATE APPROVED December 27 1955



PLAN

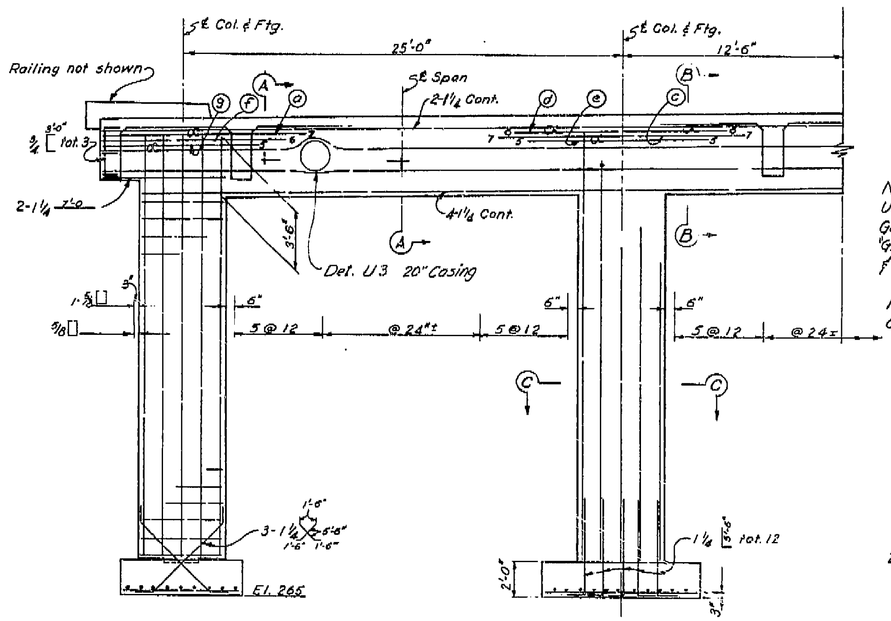


SECTION B-B
Scale: 1/2"=1'-0"



SECTION A-A
Scale: 1/2"=1'-0"

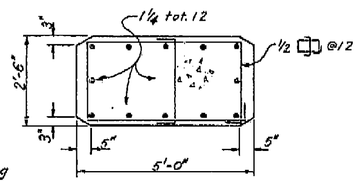
NOTE:
All bars 1¼ unless otherwise called for. Numbers at ends of bars indicate length from ℄ span or ℄ columns.
=== Indicates bundled bars



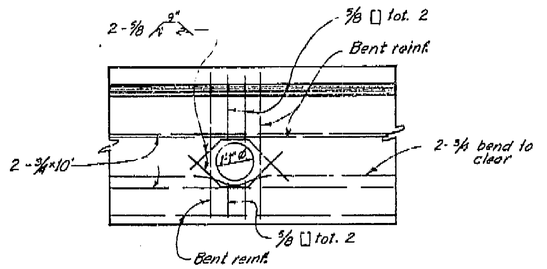
ELEVATION

Note:
Utility opening for 12" Casing Gas Main not shown. See "Girder Layout" Sh. for location & Det. U7.

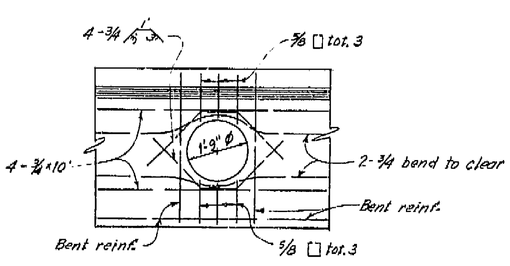
For stirrup spacing at utility openings see Det's U3 & U7.



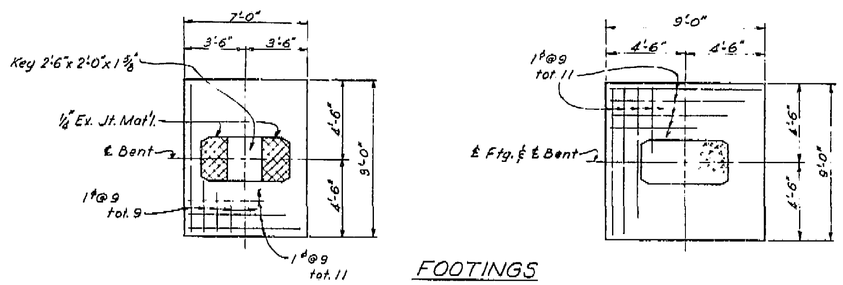
SECTION C-C
Scale: 1/2"=1'-0"



BENT CAP
DETAIL U7
Scale: 1/2"=1'-0"



BENT CAP
DETAIL U3
Scale: 1/2"=1'-0"



FOOTINGS

AS BUILT
DATE 6/30/57 BY [signature]

AS BUILT PLANS
Contract No. 56-6TC2
Date Completed
Document No. 60000987

BRIDGE DEPARTMENT			
*** DESIGN SECTION *** 8			
Project Designer W. T. Johnson 3-55			
Chief Designer [signature]			
DESIGN	By W. T. Johnson 3-55	Checked E. N. Pomeroy 4-55	
DETAILS	By A. H. Harris 3-55	Checked E. N. Pomeroy 4-55	
QUANTITIES	By [signature] 4-55	Checked [signature] 4-55	
SPECIFICATIONS	By	Plans and Blocks Compared	
Approval Recommended by [signature] Engineer of Design		Field and Monument Data Entered 5-4-57	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

FRESNO STREET SEPARATION

BENT 2

As Noted and SCALE 1/4"=1'-0"	BRIDGE 42-170	FILE	DRAWING C-4099-5. F.

PREL. DRAWING No. P-4099 X 6 73

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE Jun 29 1971 SIGNATURE [signature] TITLE Asst. Supervising Civil Engr.

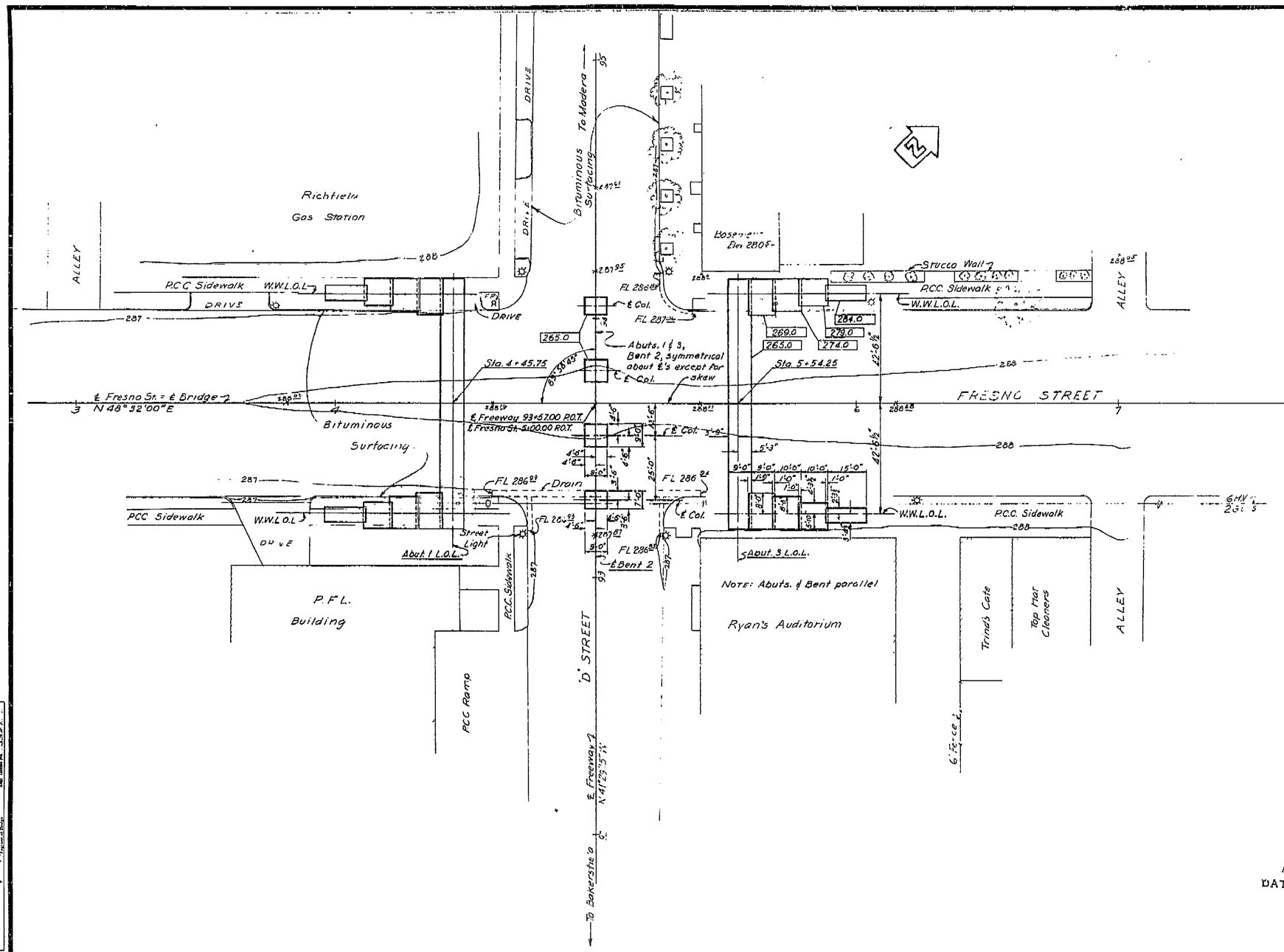
ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
7	CAL.			108	147

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	FRE.	4-	FRE	2-	110

DATE APPROVED December 27, 1955

BRIDGE DEPARTMENT



GENERAL NOTES

SPECIFICATIONS:
DESIGN: A.A.S.H.O. DATED 1953 WITH SUBSEQUENT REVISIONS, AND BRIDGE DEPARTMENT SUPPLEMENT DATED 1953.

CONSTRUCTION: STANDARD SPECIFICATIONS, DIVISION OF HIGHWAYS, DATED AUGUST 1954 AND THE SPECIAL PROVISIONS.

LIVE LOADING: H20-S16-44

UNIT STRESSES:
REINFORCED CONCRETE: f_s = 20,000 P.S.I., f_c = 1250 P.S.I., N = 10

FOOTING PRESSURE:

ELEV.	DESIGN LOAD
205-278	1.5 TONS P.S.F.
250-205	2.5 TONS P.S.F.
AT OR BELOW 200	4.5 TONS P.S.F.

REINFORCEMENT: EMBEDMENT IS CLEAR TO OUTSIDE OF BAR AND IS 2" TO MAIN REINFORCEMENT, EXCEPT AS NOTED. PACKING FOR HOOKS IS FOUR DIAMETERS, EXCEPT AS NOTED.
BAR AREAS ARE BASED ON ROUNDS FOR LESS THAN 1" AND SQUARES FOR OVER 1".
WHERE REINFORCING BARS ARE SPLICED THEY SHALL HAVE A 20 DIAMETER LAP UNLESS OTHERWISE CALLED FOR ON THE PLANS.

	Submitted by	Engineer	Date
DESIGN	W.F. Johnson 3-55	Engineer	Dec. 27, 1955
DETAILS	W.F. Johnson 3-55	Checked C.H. Howard 4-55	
QUANTITIES	W.F. Johnson 9-55	Checked C.H. Howard 4-55	
SPECIFICATIONS	By	Checked	
	Approved & recommended by	Chief, Bridge Dept.	Date

Surveyed by RCL '54
Drawn by JSM 1-55
Traced by JGG 11/18/54

108

BM A	BM B	BM C
1"-I.P. Flush in oil in Alley	1"-I.P. Flush in oil in Alley	1"-I.P. Flush in oil in Alley
55' Lt. ℄ Fresno St. 7+00	55' Rt. ℄ Fresno St. 7+00	55' Lt ℄ Fresno St. 3+00
Elev. 288.06	Elev. 288.03	Elev. 287.56

Bench Marks based on City of Fresno datum

AS BUILT PLANS
Contract No. 56-6TC2
Date Completed
Document No. 60000987

AS BUILT
DATE 6/30/72 BY J.P. Tibbon

000.00 Indicates El @ Bottom of Ftg
Contours as of Nov. 1954

DESIGN SECTION 8
W.F. Johnson 3-55
PROJECT DESIGNER

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

FRESNO STREET ~~SEPARATION~~

FOUNDATION PLAN

SCALE 1"=20' | BRIDGE 42-170 | FILE E-42 | DRAWING C-4099-2 (R)

PREL. DRAWING No. P-4099 A 18 20

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

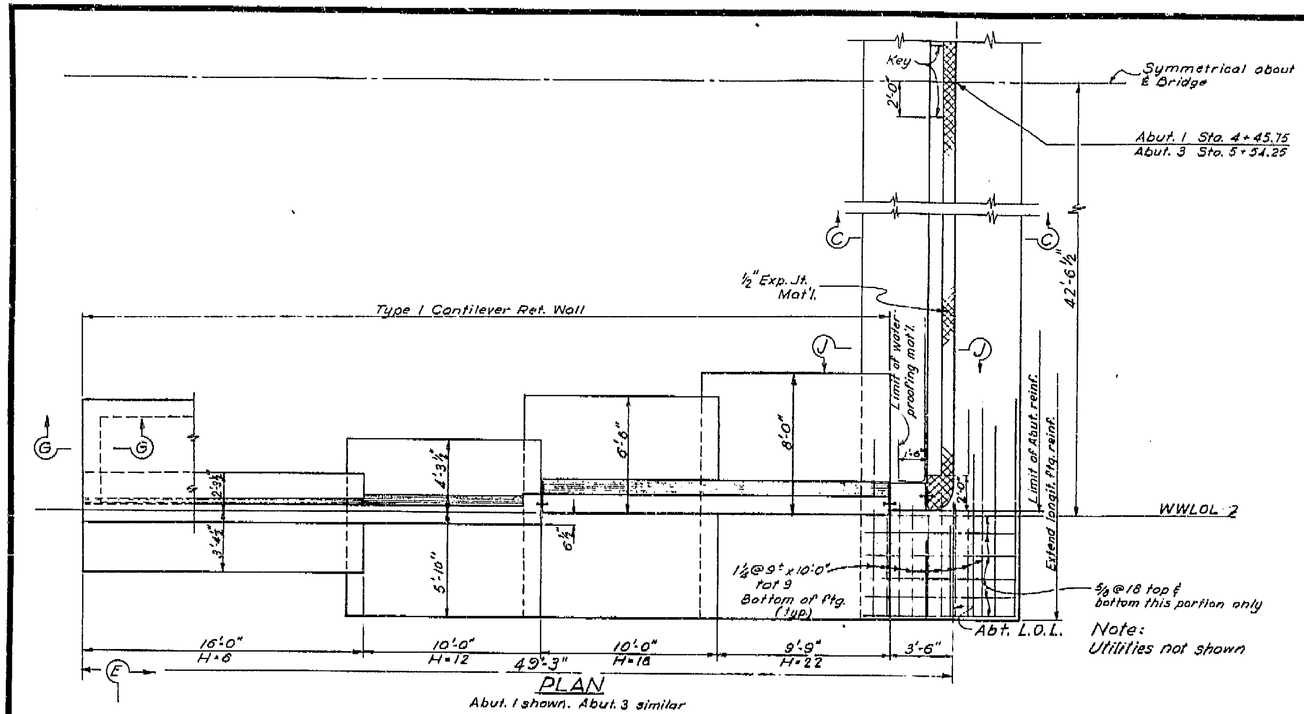
DATE June 29 1971 SIGNATURE [illegible] TITLE Chief Engineering Aide

ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			109	197

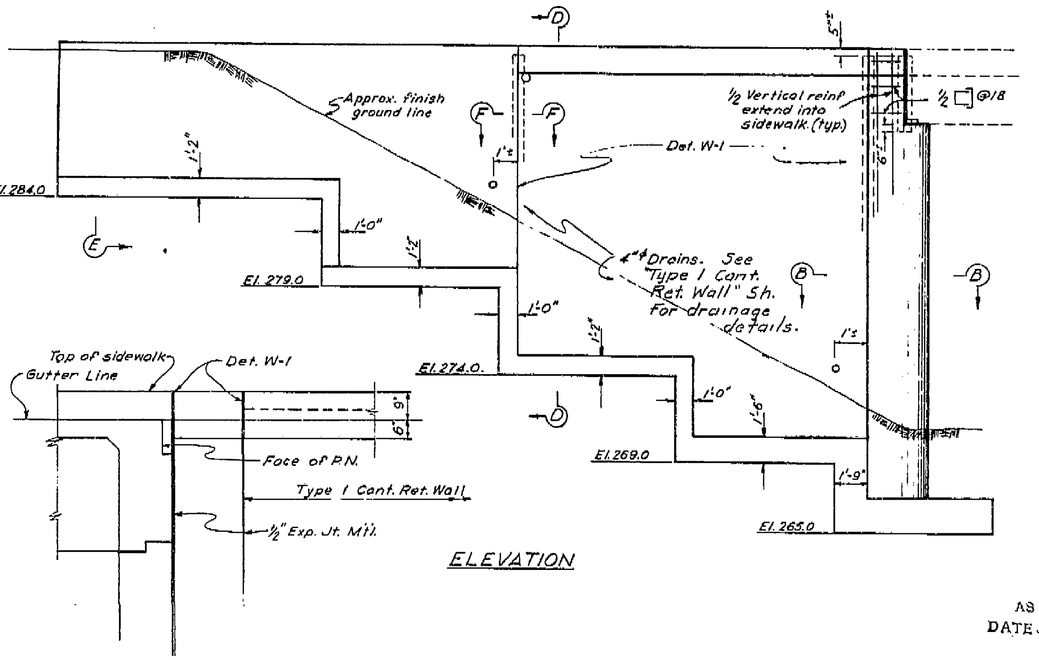
DIST.	COUNTY	ROUTE	SECTION	P.M. OR POST MILE	TOTAL SHEETS
VI	FRE	-A-	FRE	3-10-	

DATE APPROVED December 27, 1955



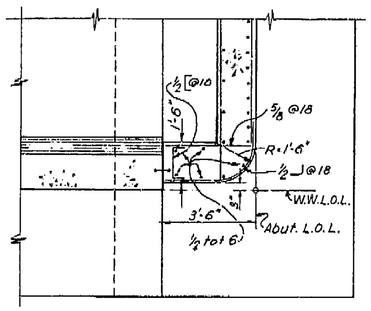
PLAN

Abut. 1 shown. Abut. 3 similar

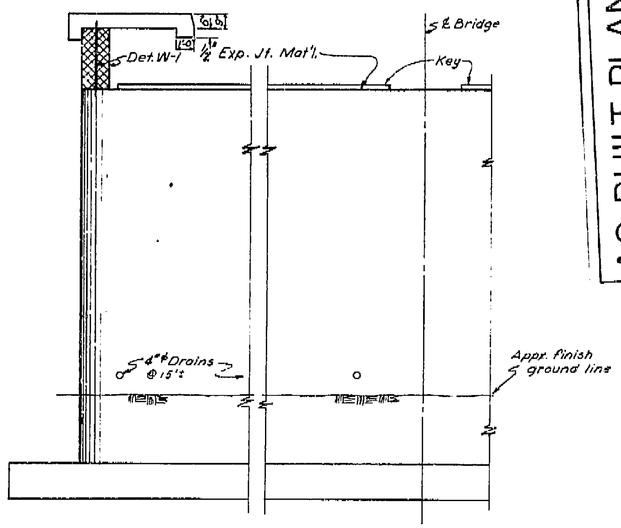


ELEVATION

SECTION J-J
Scale: ½"=1'-0"



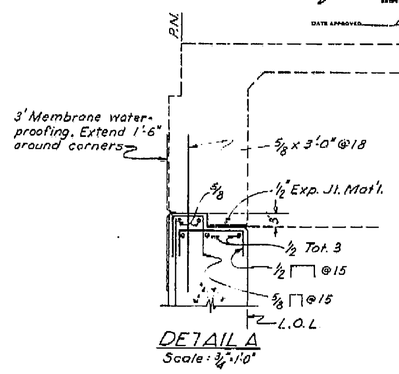
SECTION B-B
Scale: ⅜"=1'-0"



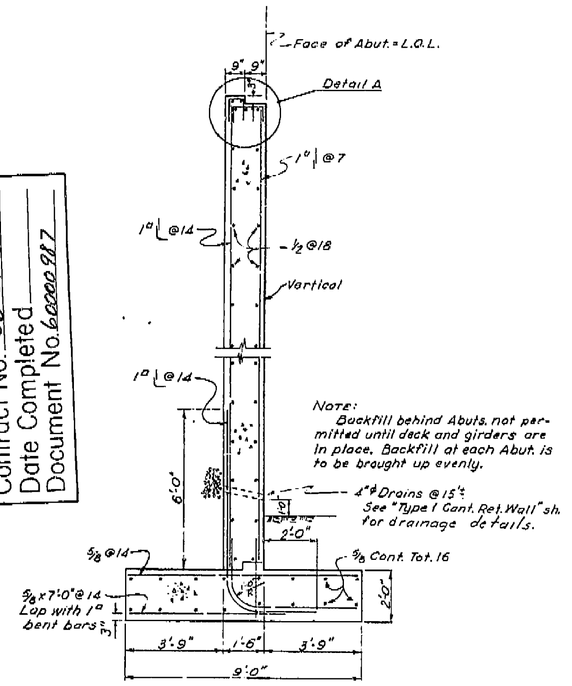
FRONT ELEVATION

AS BUILT
DATE 5/20/57 BY J.E. Anderson

For Sects. D-D, E-E, F-F, G-G see Kern St. O.C. "Wingwall Details" sheet.



DETAIL A
Scale: ¾"=1'-0"



SECTION C-C
Scale: ⅜"=1'-0"

AS BUILT PLANS
Contract No. 56-6TC2
Date Completed
Document No. 6000987

BRIDGE DEPARTMENT			
DESIGN SECTION 8			
Project Designer W. F. Johnson 3-55			
Chief Designer [illegible]			
DESIGN	by W. F. Johnson 3-55	checked C. W. Emery 4-55	
DETAILS	by W. A. Barnby 3-55	checked C. W. Emery 4-55	
QUANTITIES	by Jos. H. Krepps 3-55	checked [illegible]	
SPECIFICATIONS	by	Plans and Specs. Translated	
Approval Recommended by Paul Hutchinson, Engineer of Design		1955 Estimate Prep. Estimate No.	5427

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

FRESNO STREET SEPARATION

ABUTMENTS

SCALE As Noted and ½"=1'-0" | BRIDGE 42-170 | FILE | DRAWING C-4099-3

PREL. DRAWING NO. P-4099 8 11 21

109

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE June 28, 1971 SIGNATURE [illegible] TITLE Asst. Supervising Bridge Engineer

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California Department of Transportation
Division of Maintenance

Structure Maintenance and Investigations

BRIDGE

INSPECTION

RECORDS

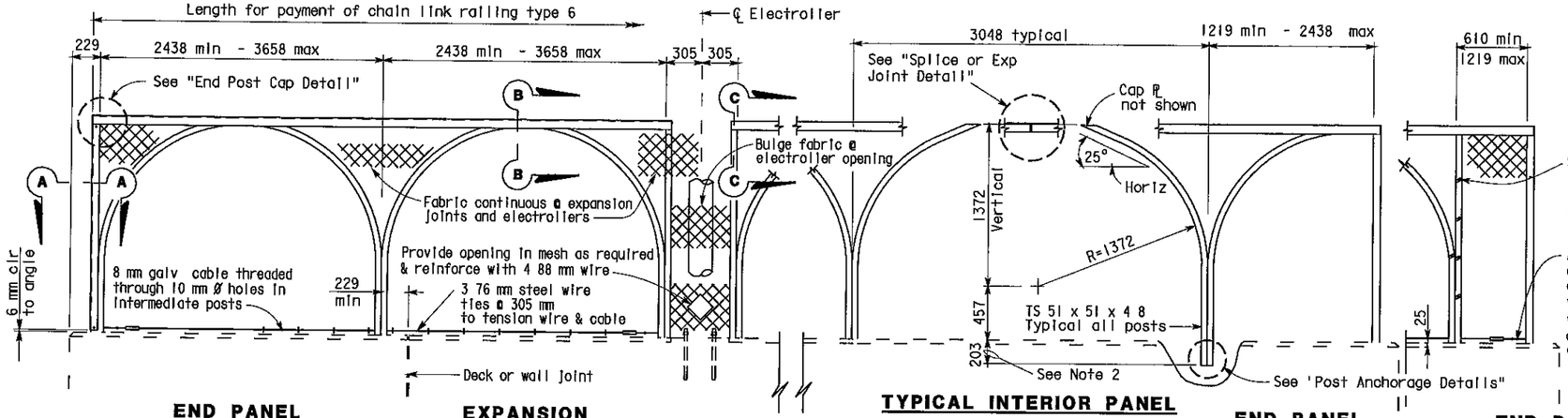
INFORMATION

SYSTEM

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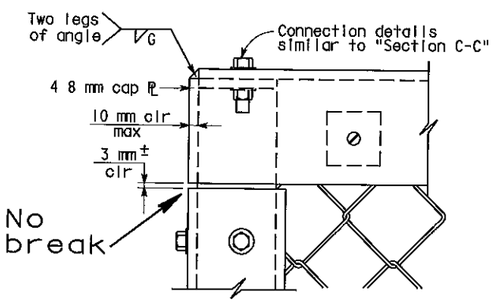
These documents are the property of the California Department of Transportation and should be handled in accordance with Deputy Directive 55 and the State Administrative Manual.

Records for “Confidential” bridges may only be released outside the Department of Transportation upon execution of a confidentiality agreement.

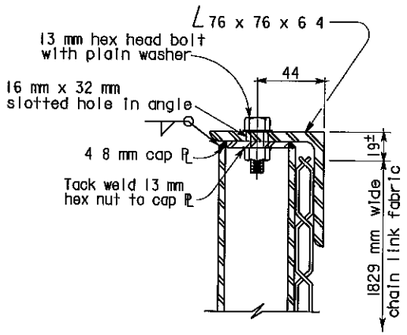


END PANEL 2438 mm - 3658 mm | **EXPANSION PANEL AT ELECTROLIER** | **TYPICAL INTERIOR PANEL** | **END PANEL 1219 mm - 2438 mm** | **END PANEL 610 mm - 1219 mm**

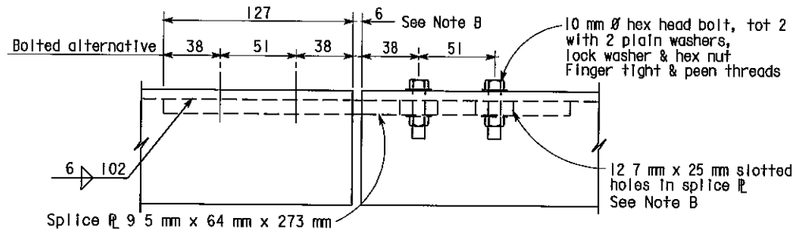
ELEVATION



END POST CAP DETAIL

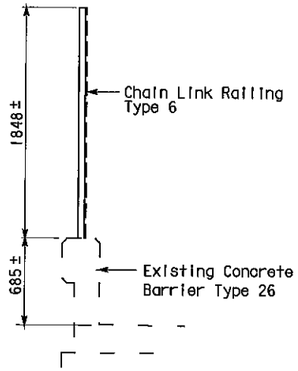


SECTION C-C

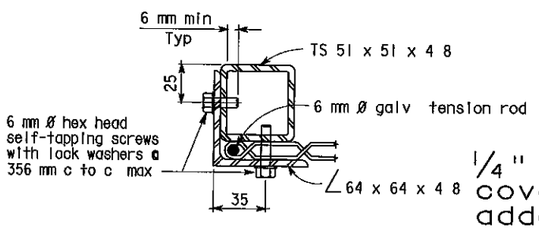


SPLICE OR EXPANSION JOINT DETAIL

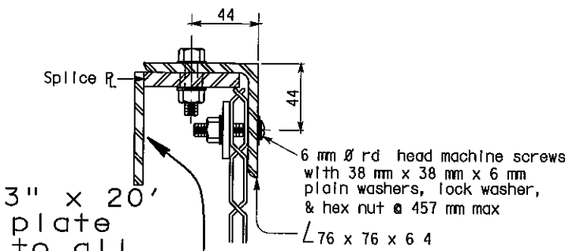
Note B Expansion joint same dimension as expansion joint in deck or wall Increase slotted hole length and splice ℙ length correspondingly



TYPICAL SECTIONS



SECTION A-A



SECTION B-B

NOTES

1. Horizontal angle shall be continuous over not less than two intermediate posts except that a shorter length is permitted at expansion joints, electrollers and other rail discontinuities
2. One post may be embedded 152 mm minimum to accomodate grade changes, otherwise fabricate post lengths as required
3. Curved posts may be rotated in plan within its post pocket to accomodate curved horizontal alignment
4. Straight posts and straight portions of curved posts shall be installed normal to bridge profile grade
5. Top horizontal angle shall be parallel to bridge profile grade and shall be shop bent to fit horizontal curves
6. When railing is on slope, fabric shall be placed parallel to slope
7. Alternative details may be submitted by Contractor for Engineer's approval
8. Railing assembly except chain link fabric shall be galvanized after fabrication
9. For details and reinforcement not shown, see "Concrete Barrier Type 25 or 26" sheet
10. See Bridge Plans for limits of Chain Link Railing Type 6 Mod
11. Provide thimbles at all cable loops
12. Chain link fabric to be 1829 mm wide with 25 mm mesh and with knuckled selvage top and bottom
13. When railing is placed on a horizontal alignment with a radius of 45 72 m or less, thread 8 mm cable through 10 mm Ø welded eye rods embedded 102 mm into the top of the concrete parapet and equally spaced to limit the middle ordinate distance between the 8 mm cable and the curve to 25 mm max
14. Splices and expansion joints shall be located at ℄ panel
15. Holes in posts for 8 mm cable and its anchorage may be field drilled and painted with zinc rich paint

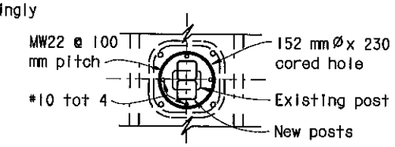
AS BUILT

MRC 1-3-03

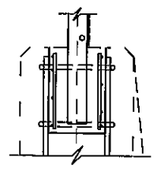
CORRECTIONS BY John Borquez

CONTRACT NO 06-440104

DATE 11-14-02



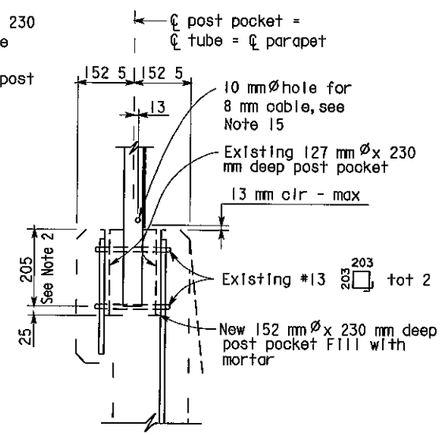
PLAN



SECTION

Detail omitted

POCKET DETAILS



POST ANCHORAGE DETAIL

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	130	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

DESIGN	BY D Acoba	5/00	CHECKED F Tannous	5/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY K Endow	5/00	CHECKED F Tannous	5/00	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE
QUANTITIES	BY D Acoba	5/00	CHECKED F Tannous	5/00	BRIDGE NO Various; KILOMETER POST Varies

ROUTE 99 BRIDGES

CHAIN LINK RAILING TYPE 6 MOD NO. 1

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV 10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE > nat61.dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/17/00 | 9/26/00 | 10/3/00

SHEET 8 OF 11

USERNAME mcarlson DATE PLOTTED > 03-JAN-2003 TIME PLOTTED => 12:11

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	131	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

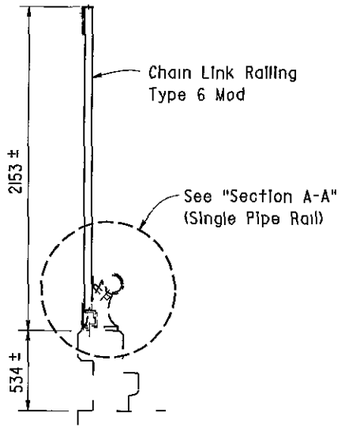
REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

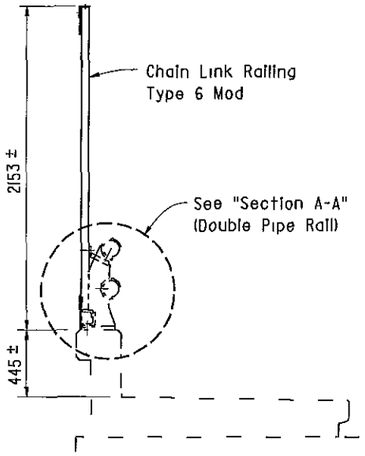
NO CORRECTIONS
AS BUILT

MRC 1-3-03

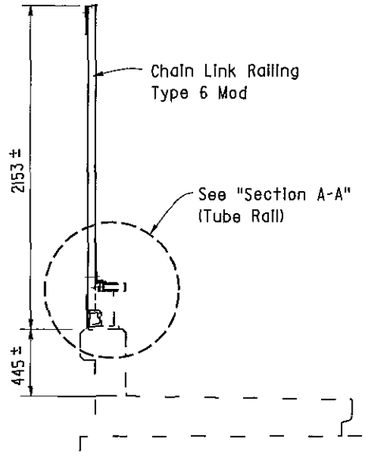
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02



TYPE 1



TYPE 5



TYPE 12

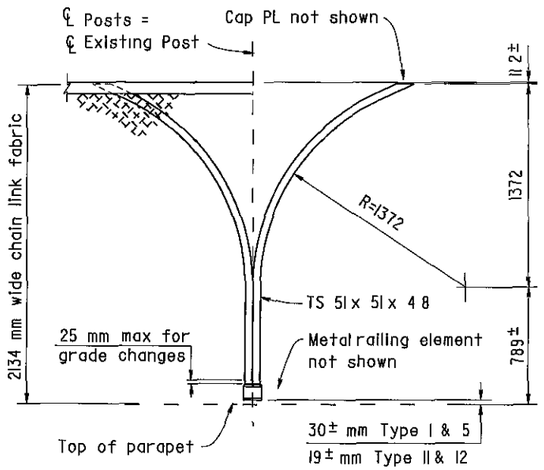
BARRIER RAILING SECTIONS

Existing chain link railing not shown

I 20

TYPE A
- NORTH AVE OC - 2 Locations
- CHURCH AVE OC - 4 Locations
- CALIFORNIA AVE OC - 4 Locations
- VENTURA ST OC - 4 Locations

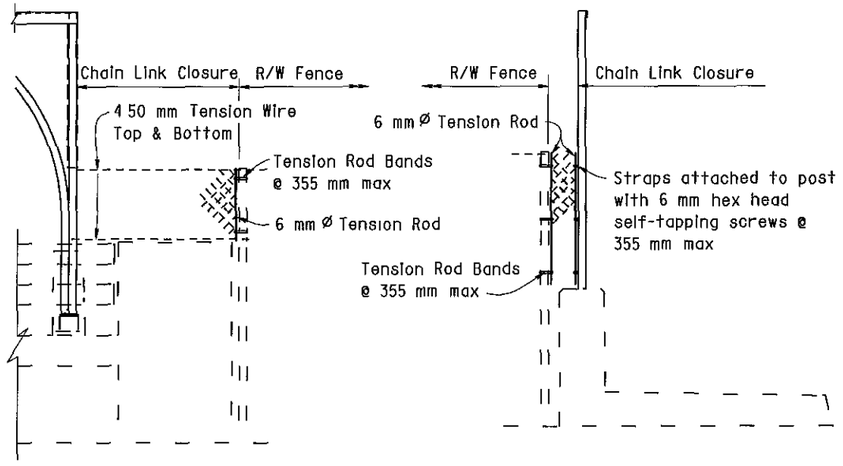
TYPE B
- KERN ST OC - 4 Locations
- TULARE ST OC - 4 Locations
- EL DORADO ST OC - 4 Locations



PART OUTSIDE ELEVATION

Note For details and notes not shown, see "Chain Link Railing Type 6 Mod No 1" sheet

I 10

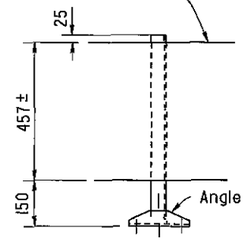


TYPE A TYPE B

R/W FENCE CONNECTION

I 10

Remove existing sign panels and reinstall on new post



TULARE ST OC

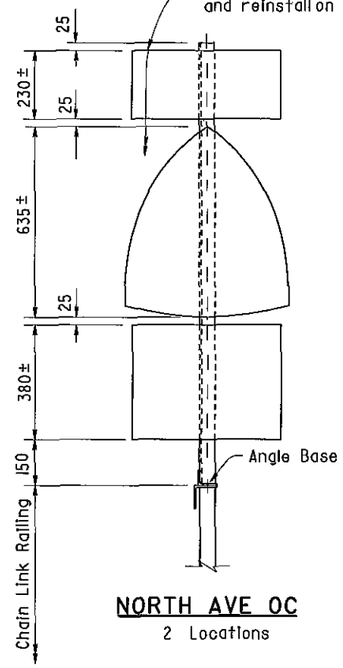
4 Loactions

Note

Reinstall signs at approximately the same location on chain link railing as existing

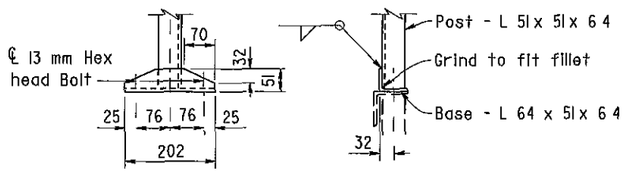
NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Remove existing sign panels and reinstall on new post



NORTH AVE OC

2 Locations



ANGLE BASE

Note

Hot dip galvanize sign post after fabrication
Field drilled holes to be painted with zinc rich paint

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

	BY		CHECKED	
DESIGN	D Acoba	5/00	F Tannous	5/00
DETAILS	K Endow	5/00	F Tannous	5/00
QUANTITIES	D Acoba	5/00	F Tannous	5/00

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
CHAIN LINK RAILING TYPE 6 MOD NO. 2

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE > nat62.dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/17/00 | 9/26/00 | 10/3/00

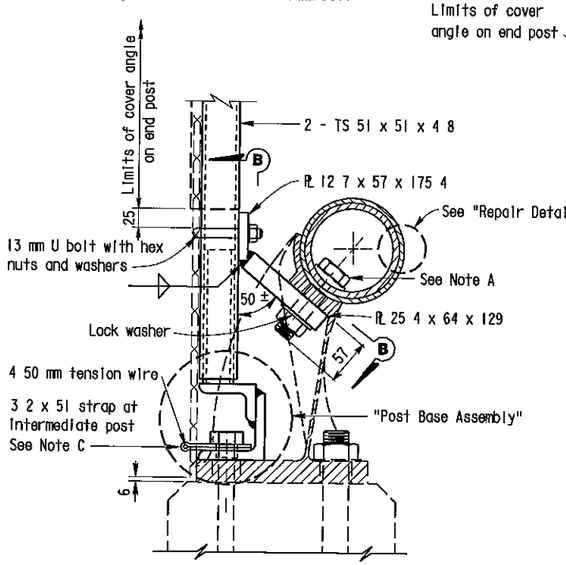
SHEET 9 OF 11

USERNAME => mcarlson DATE PLOTTED > 03-JAN-2003 TIME PLOTTED > 13:23

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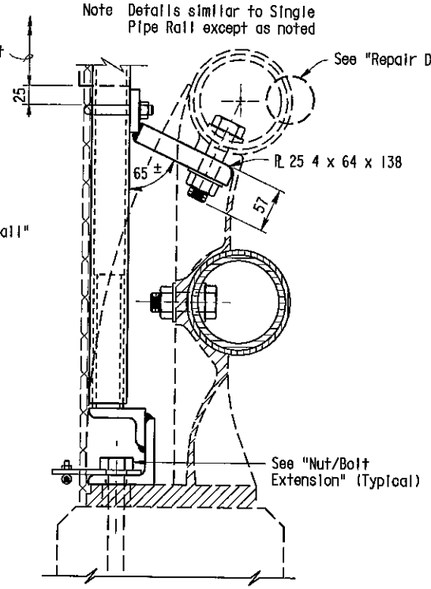
Note A

Replace existing bolt with 25 mm x 102 mm bolt



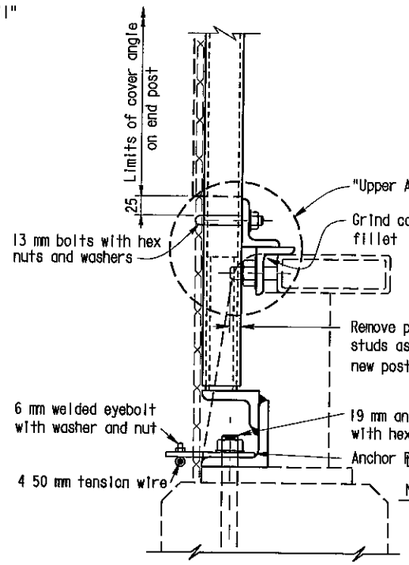
SECTION A-A (SINGLE PIPE RAIL)

Note Details similar to Single Pipe Rail except as noted



SECTION A-A (DOUBLE PIPE RAIL)

Note Details for Type 9 and Type 11 Metal Railing are similar, Type 11 not shown



SECTION A-A (TUBE RAIL)

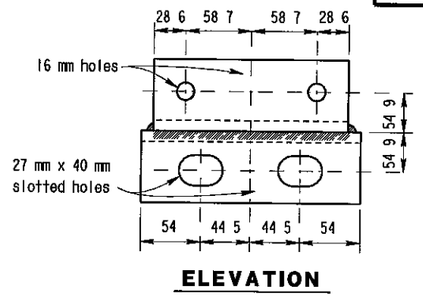
NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Note B

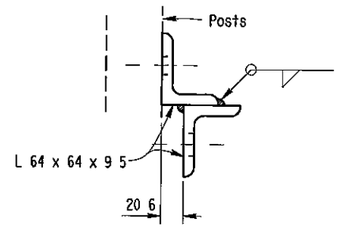
Paint all cut and ground surfaces with zinc rich paint

Note C

At intermediate posts only contractor has an alternate of 3 mm x 51 mm strap or 6 4 mm anchor plate with eyebolt



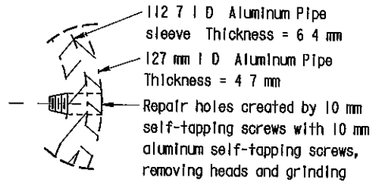
ELEVATION



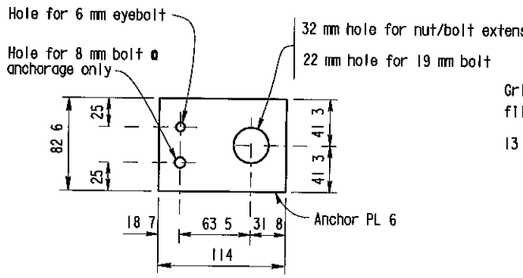
SIDE VIEW

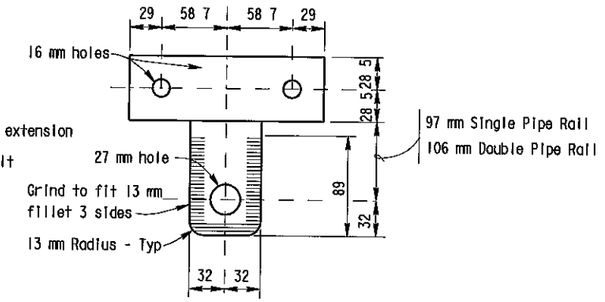
UPPER ANGLE BRACKET

ATTACHMENT DETAILS



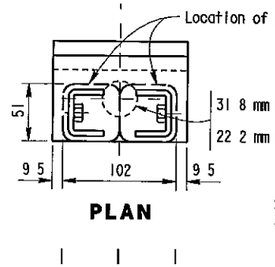
REPAIR DETAIL



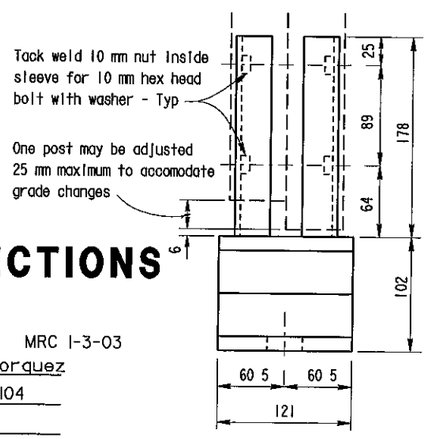


VIEW B-B

(Developed view of upper bracket)

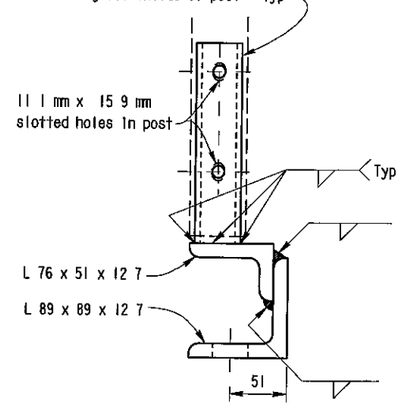


PLAN



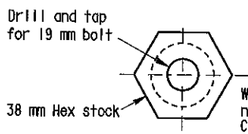
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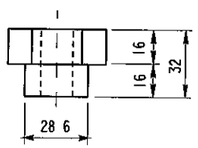
Sleeve formed from PL 4 7, bent thus ⊔ for sliding fit inside of post - Typ



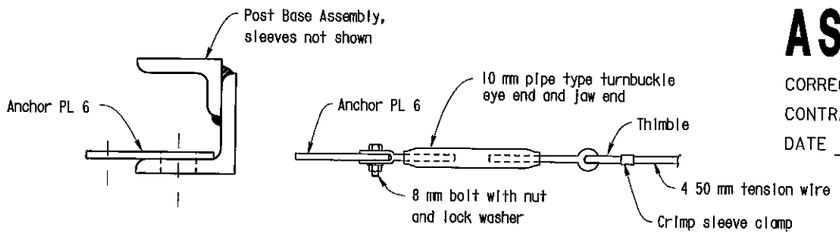
SIDE VIEW

POST BASE ASSEMBLY





NUT/BOLT EXTENSION



BOTTOM ANCHORAGE DETAIL

NO CORRECTIONS AS BUILT

MRC 1-3-03

CORRECTIONS BY John Borquez

CONTRACT NO 06-440104

DATE 11-14-02

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	132	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DIOSDADO ACOBA No 52003 Exp 12-31 02 CIVIL STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

DESIGN	BY D Acoba	5/00	CHECKED F Tannous	5/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY K Endow	5/00	CHECKED F Tannous	5/00	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE
QUANTITIES	BY D Acoba	5/00	CHECKED F Tannous	5/00	CU 06015 EA 440101

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
CHAIN LINK RAILING TYPE 6 MOD NO. 3

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

FILE > nat63 dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

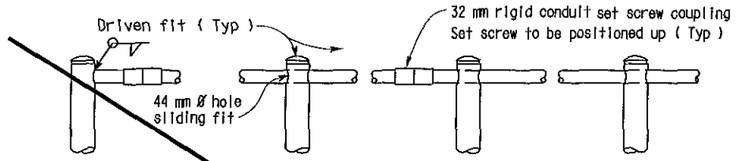
REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 7/17/00 9/26/00 10/3/00

SHEET 10 OF 11

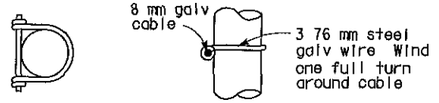
USERNAME > mgarlson DATE PLOTTED > 03 JAN 2003 TIME PLOTTED > 13:26

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RELEASED 6-9-98



END POST **INTERMEDIATE POSTS**



PLAN **ELEVATION**

DETAIL H

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
06	Fre	99	23 3/50 7	133	133

10-3-00
REGISTERED ENGINEER - CIVIL

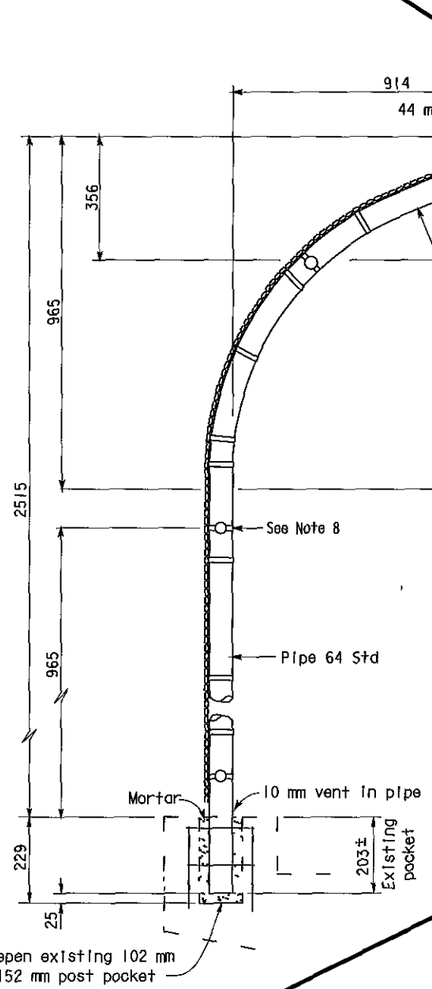
11-13-00
PLANS APPROVAL DATE

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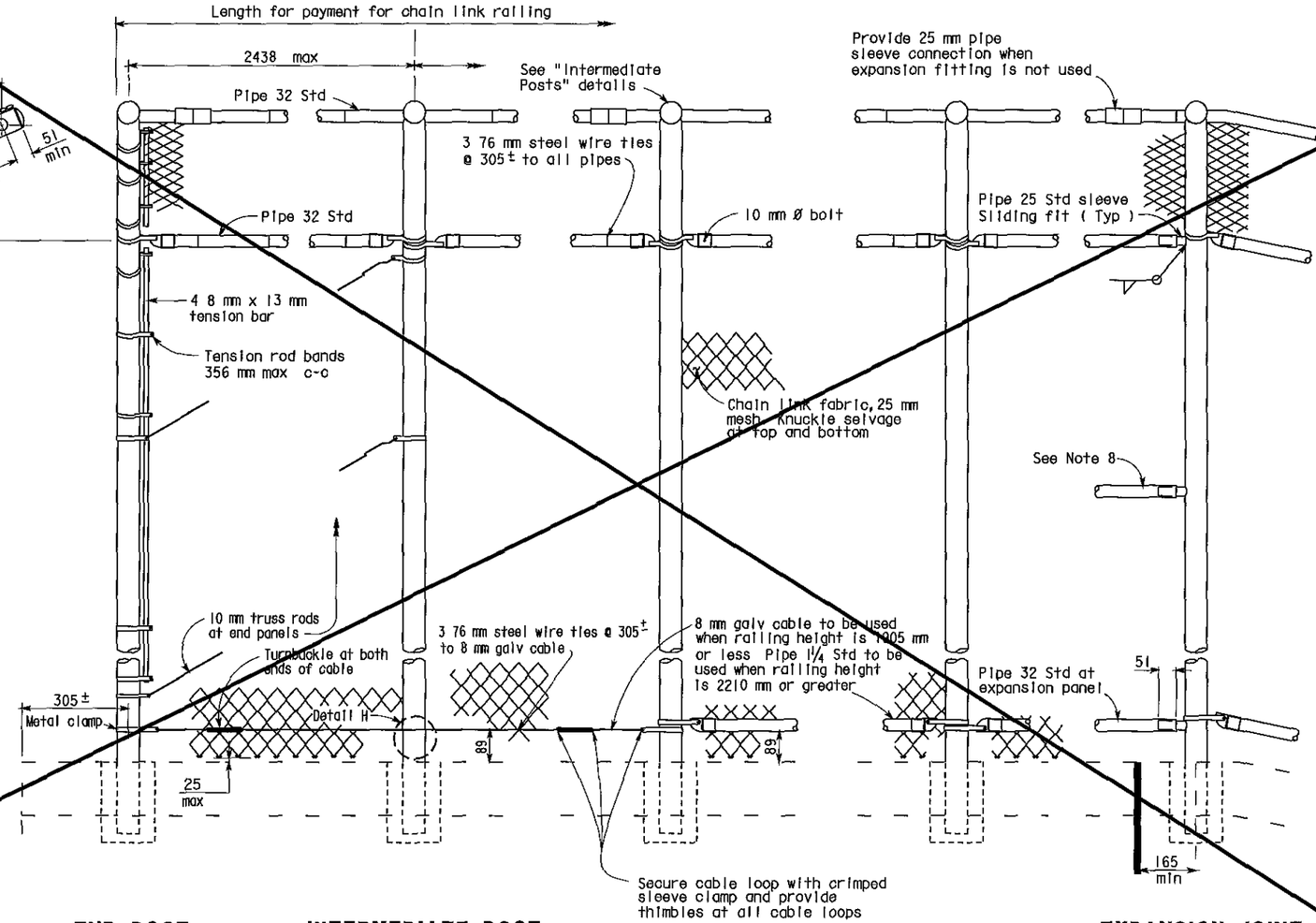
REGISTERED PROFESSIONAL ENGINEER
DIOSDADO ACOBA
No 52003
Exp 12 31 02
CIVIL
STATE OF CALIFORNIA

NOTES:

1 Railing assembly except chain link fabric to be galvanized after fabrication
2 Railing shall conform to horizontal and vertical alignment Posts shall be vertical Horizontal pipes shall be bent if radius is 45 72 m or less may be on 2 438 m chords If radius is over 45 72 m
3 Peen all 10 mm Ø bolts
4 When railing is on slope fabric shall parallel to slope
5 Alternative details may be submitted by Contractor for Engineer's approval
6 Additional pipe 32 std required on radius less than 45 72 m



TYPICAL POST DETAIL



END POST **INTERMEDIATE POST** **EXPANSION JOINT**

ELEVATION

Sheet Deleted

No Type 3 Modified Railing was used on this contract

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

SPECIAL DETAIL

NO SCALE
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

STANDARD DRAWING				
FILE NO XS 9 81	DESIGN BY R W BISHOP	CHECKED J HAMAGUCHI	APPROVAL RECOMMENDED BY	
DRAWING DATE Revised	DETAILS BY R YEE	CHECKED J HAMAGUCHI		
	SUBMITTED BY R W BISHOP		DESIGN SUPERVISOR	

DS OSD 2147A (METRIC) (REV 2/25/97)

1 Revised sheet - removed handrailing and electrical details and notes

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

CU 06105
EA 452001

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
CHAIN LINK RAILING TYPE 3 MOD 1

DISREGARD PRINTS BEARING EARLIER REVISION DATES
REVISION DATES (PRELIMINARY STAGE ONLY) 5/30/00 7/17/00 9/28/00 10/3/00

SHEET 11 OF 11

USERNAME > mgarlson
x5981 dgn
XS981 DGN

DATE PLOTTED > 03-JAN-2003 TIME PLOTTED > 13 32

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NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Caltrans Metric

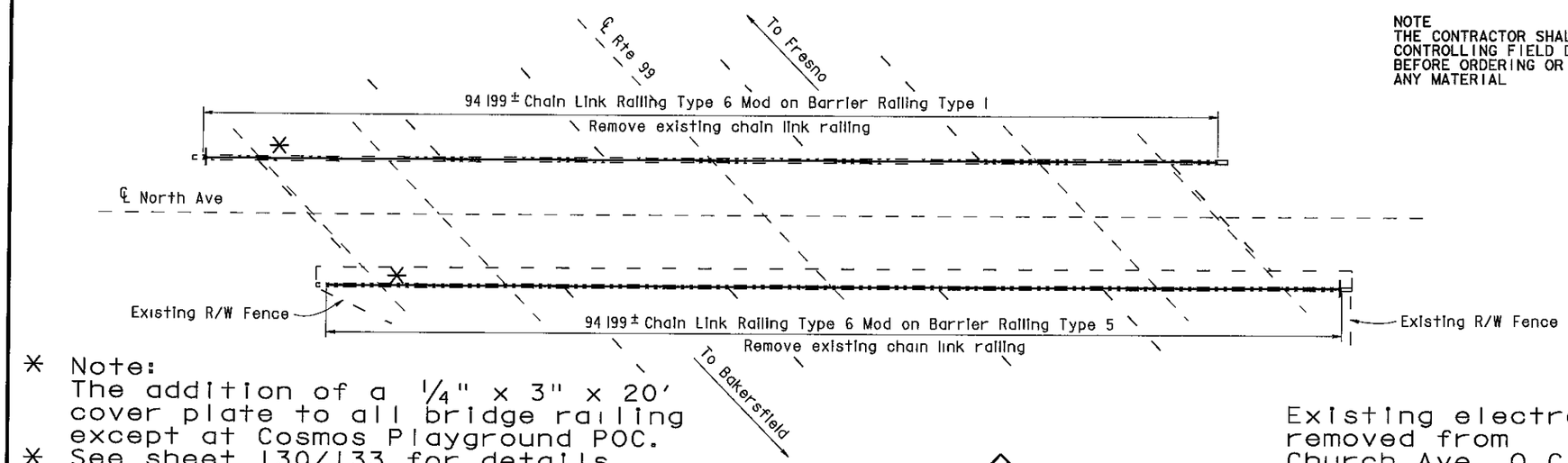
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06	Fre	99	23 3/50 7	123	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DIOSDADO ACOBA
No 52003
Exp 12-31-02
CIVIL
STATE OF CALIFORNIA

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* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

NORTH AVENUE OC

Br No 42-0210, Fre, KP 27 8
1 250

Existing electroliers removed from Church Ave. O.C.

NOTES

— — Indicates existing

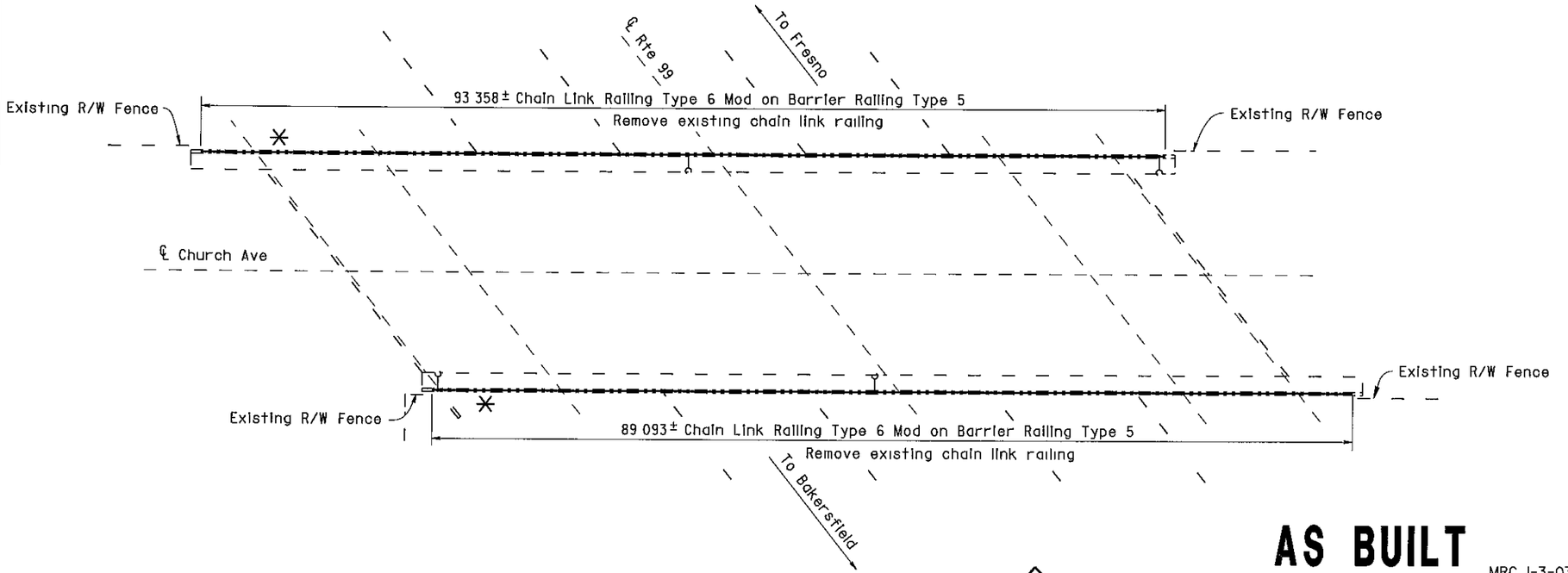
℄ Indicates approximate location of existing electrolier (To remain)

Indicates approximate location of remove and reinstall sign on new post

Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details

INDEX TO PLANS

SHEET NO	TITLE
1	GENERAL PLAN NO 1
2	GENERAL PLAN NO 2
3	GENERAL PLAN NO 3
4	GENERAL PLAN NO 4
5	GENERAL PLAN NO 5
6	GENERAL PLAN NO 6
7	GENERAL PLAN NO 7
8	CHAIN LINK RAILING TYPE 6 MOD NO 1
9	CHAIN LINK RAILING TYPE 6 MOD NO 2
10	CHAIN LINK RAILING TYPE 6 MOD NO 3
11	CHAIN LINK RAILING TYPE 3 MOD



CHURCH AVENUE OC

Br No 42-0214, Fre, KP 30 9
1 250

AS BUILT MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

NORTH AVENUE OC 42-0210
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION A	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	189 m

CHURCH AVENUE OC 42-0214
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION B	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	183 m

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED		BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00	LAYOUT	K Endow	4/00	D Acoba	4/00
DETAILS	K Endow	4/00	F Tannous	5/00				PLANS AND SPECS COMPARED	
QUANTITIES	D Acoba	5/00	F Tannous	5/00	SPECIFICATIONS	J Maroney	9/00	J Maroney	9/00

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 1

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 5/15/00 7/17/00 9/26/00 10/3/00

SHEET 1 OF 11

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USERNAME -> mgarson DATE PLOTTED -> 02 JAN 2003 TIME PLOTTED -> 16:55

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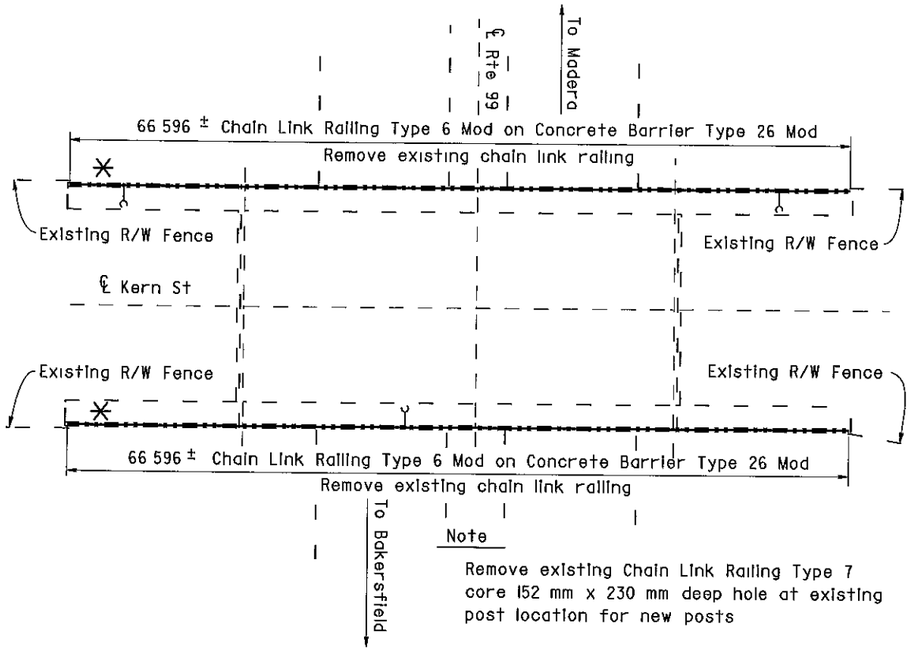
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	126	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

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Note

Remove existing Chain Link Railing Type 7 core 152 mm x 230 mm deep hole at existing post location for new posts

KERN STREET OC

Br No 42-0159, Fre, KP 33 0
1 250

KERN STREET OC 42-0159
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION H	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	133 m

TULARE STREET OC 42-0169
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION I	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	166 m

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

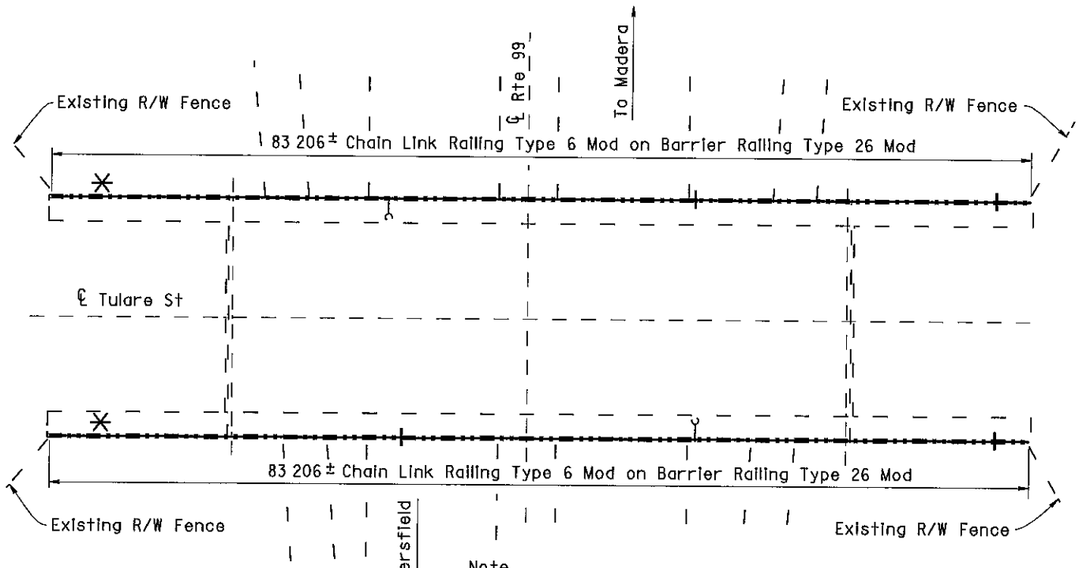
NOTES

— — Indicates existing

℄ Indicates approximate location of existing electrolier (To remain)

Indicates approximate location of remove and reinstall sign on new post

Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details



Note

Remove existing Chain Link Railing Type 7 core 152 mm x 230 mm deep hole at existing post location for new posts

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

TULARE STREET OC

Br No 42-0169, Fre, KP 33 2
1 250

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00 DESIGN ENGINEER	DESIGN	BY D Acoba 4/00	CHECKED F Tannous 5/00	LAYOUT	BY K Endow 4/00	CHECKED D Acoba 4/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE	BRIDGE NO Various
	DETAILS	BY K Endow 4/00	CHECKED F Tannous 5/00						KILOMETER POST Varies
	QUANTITIES	BY D Acoba 5/00	CHECKED F Tannous 5/00	SPECIFICATIONS	BY J Maroney 9/00	PLANS AND SPECS COMPARED J Maroney 9/00		CU 06015 EA 440101	DISREGARD PRINTS BEARING EARLIER REVISION DATES

ROUTE 99 BRIDGES
GENERAL PLAN NO. 4

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 7/17/00 9/26/00 10/3/00

SHEET 4 OF 11

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

FILE > nagp4 dgn

USERNAME > mcarlson DATE PLOTTED > 03-JAN-2003 TIME PLOTTED => 08:38

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	99	23 3/50 7	125	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

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VENTURA STREET OC 42-0158K
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION E	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	78 m

VENTURA STREET OC 42-0158E
QUANTITIES

BRIDGE REMOVAL (PORTION) LOCATION F	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	122 m

VENTURA STREET OC 42-0158S
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION G	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	74 m

NOTES

— — Indicates existing

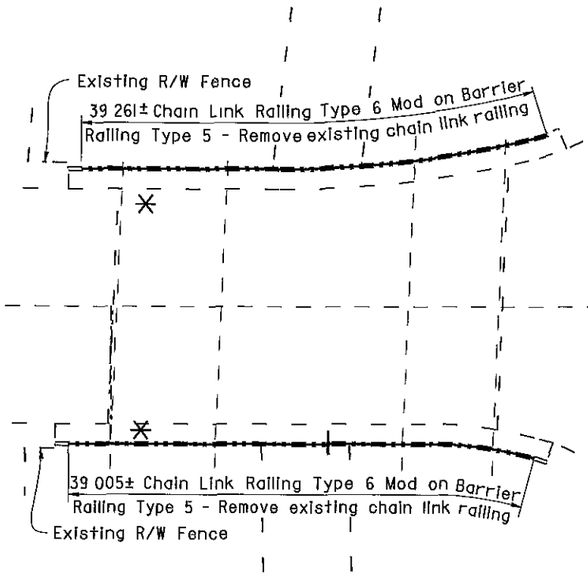
℄ Indicates approximate location of existing electroller (To remain)

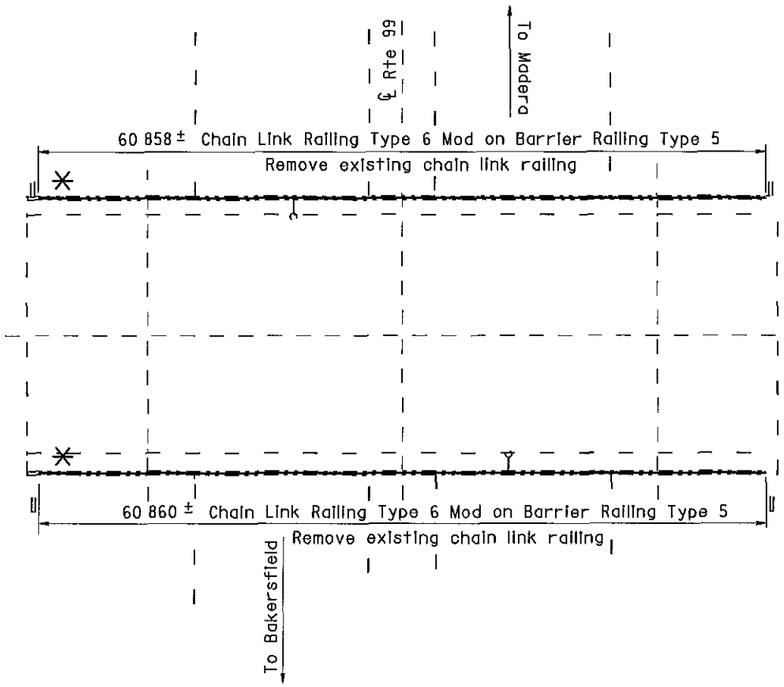
Indicates approximate location of remove and reinstall sign on new post

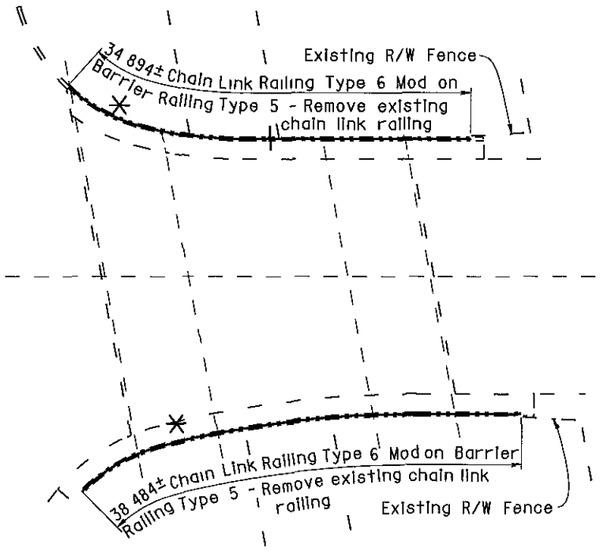
Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.







Br No 42-0158K

Bridges 42-0158K and 42-0158S were both painted with Color No. 20109 - "Deep red".

Br No. 42-0158E

VENTURA STREET OC

Fre, KP 32 5
I 250

AS BUILT
MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

Br No 42-0158S

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

	BY		CHECKED			BY		CHECKED			
DESIGN	D Acoba	4/00	F Tannous	5/00	LAYOUT	K Endow	4/00	D Acoba	4/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE
DETAILS	K Endow	4/00	F Tannous	5/00				PLANS AND SPECS COMPARED			
QUANTITIES	D Acoba	5/00	F Tannous	5/00	SPECIFICATIONS	J Maroney	9/00	J Maroney	9/00		

Michael J Lee 10/3/00
DESIGN ENGINEER

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE => nagp3.dgn

BRIDGE NO Various
KILOMETER POST Varies

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/17/00 | 9/28/00 | 10/1/00

ROUTE 99 BRIDGES
GENERAL PLAN NO. 3

SHEET 3 OF 11

USERNAME => mcarlson DATE PLOTTED => 03 JAN 2003 TIME PLOTTED => 08 32

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	129	133

10/3/00
REGISTERED CIVIL ENGINEER

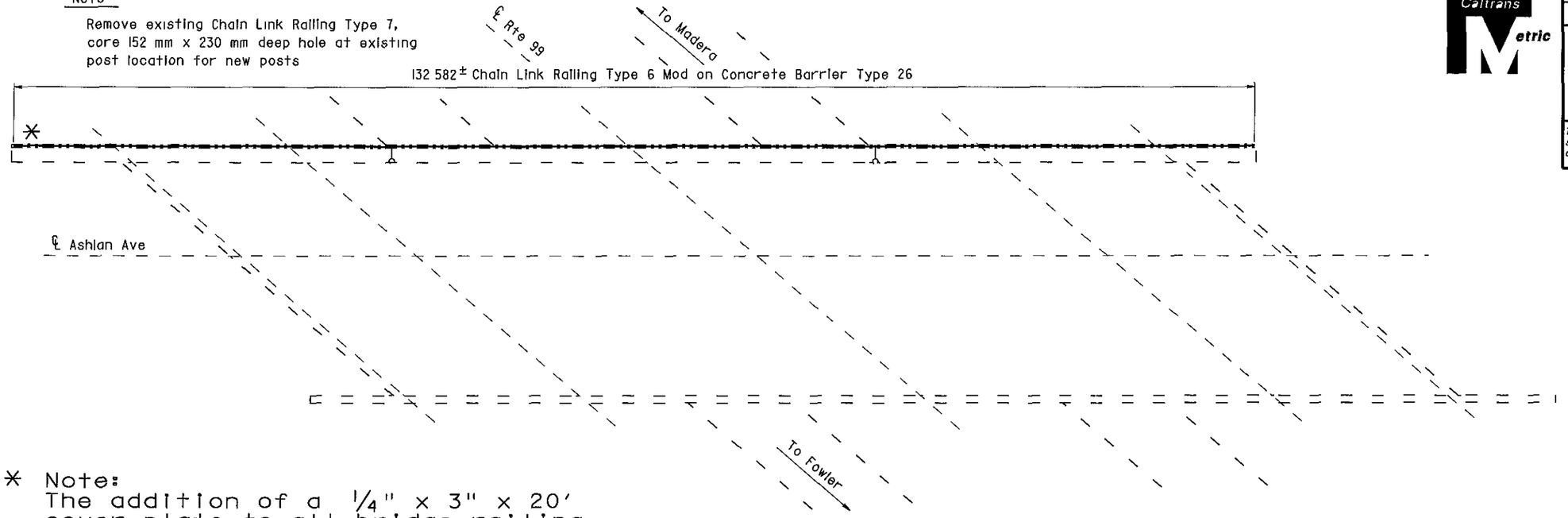
11-13-00
PLANS APPROVAL DATE

DIOSDADO ACOBA No 52003 Exp 12-31-02 CIVIL STATE OF CALIFORNIA

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Note

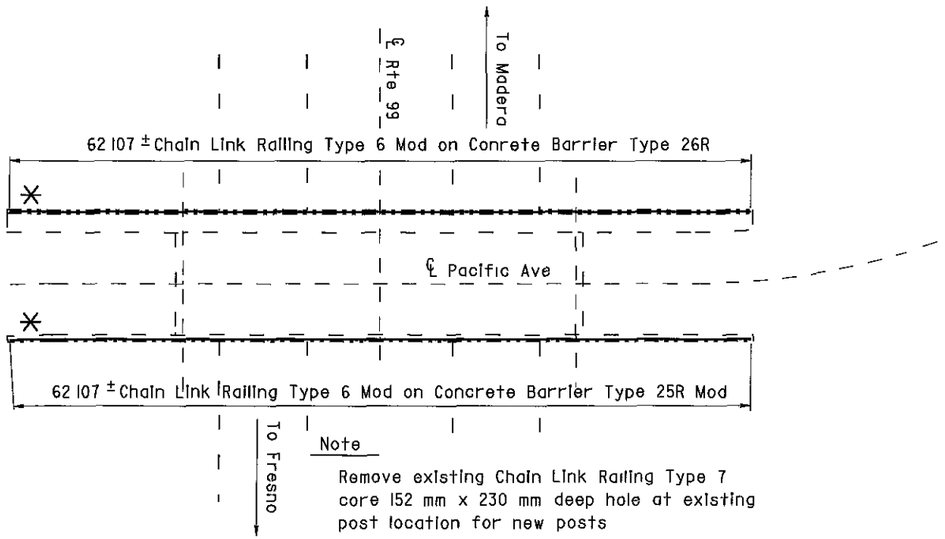
Remove existing Chain Link Railing Type 7, core 152 mm x 230 mm deep hole at existing post location for new posts



* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

ASHLAN AVENUE OC

Br No 42-0140, Fre, KP 42 8
1 250



Note

Remove existing Chain Link Railing Type 7 core 152 mm x 230 mm deep hole at existing post location for new posts

PACIFIC AVENUE OC

Br No 42-0189, Fre, KP 36 0
1 250

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

NOTES

— — Indicates existing

℄ ↓ Indicates approximate location of existing electrolier (To remain)

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

ASHLAN AVENUE OC 42-0140
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION O	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	133 m

PACIFIC AVENUE OC 42-0189
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION P	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	124 m

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

DESIGN	BY D Acoba 4/00	CHECKED F Tannous 5/00	LAYOUT	BY K Endow 4/00	CHECKED D Acoba 4/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE
DETAILS	BY K Endow 4/00	CHECKED F Tannous 5/00					
QUANTITIES	BY D Acoba 5/00	CHECKED F Tannous 5/00	SPECIFICATIONS	BY J Maroney 9/00	PLANS AND SPECS COMPARED J Maroney 9/00		

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 7

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE => nagp7.dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 5/15/00 7/17/00 9/26/00 10/3/00

SHEET 7 OF 11

USERNAME -> mgarrison DATE PLOTTED => 03 JAN 2003 TIME PLOTTED => 11:45

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	128	133

10/3/00
REGISTERED CIVIL ENGINEER

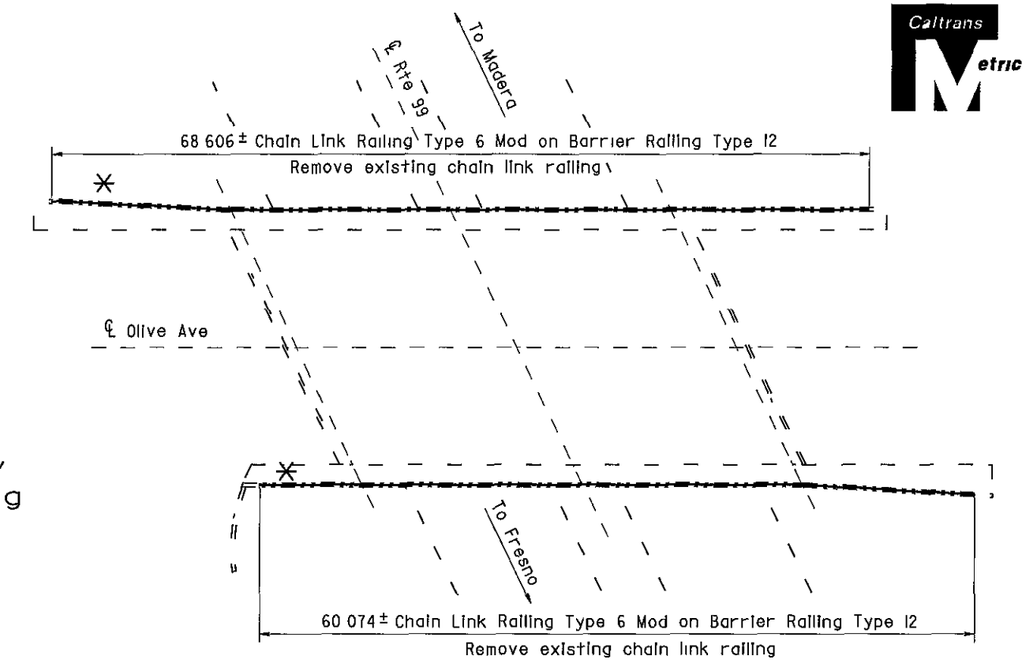
11-13-00
PLANS APPROVAL DATE

DIOSDADO ACOBA No 52003 Exp 12-31 02 CIVIL STATE OF CALIFORNIA REGISTERED PROFESSIONAL ENGINEER

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.



OLIVE AVENUE OC

Br No 42-0187, Fre, KP 37 5
1 250

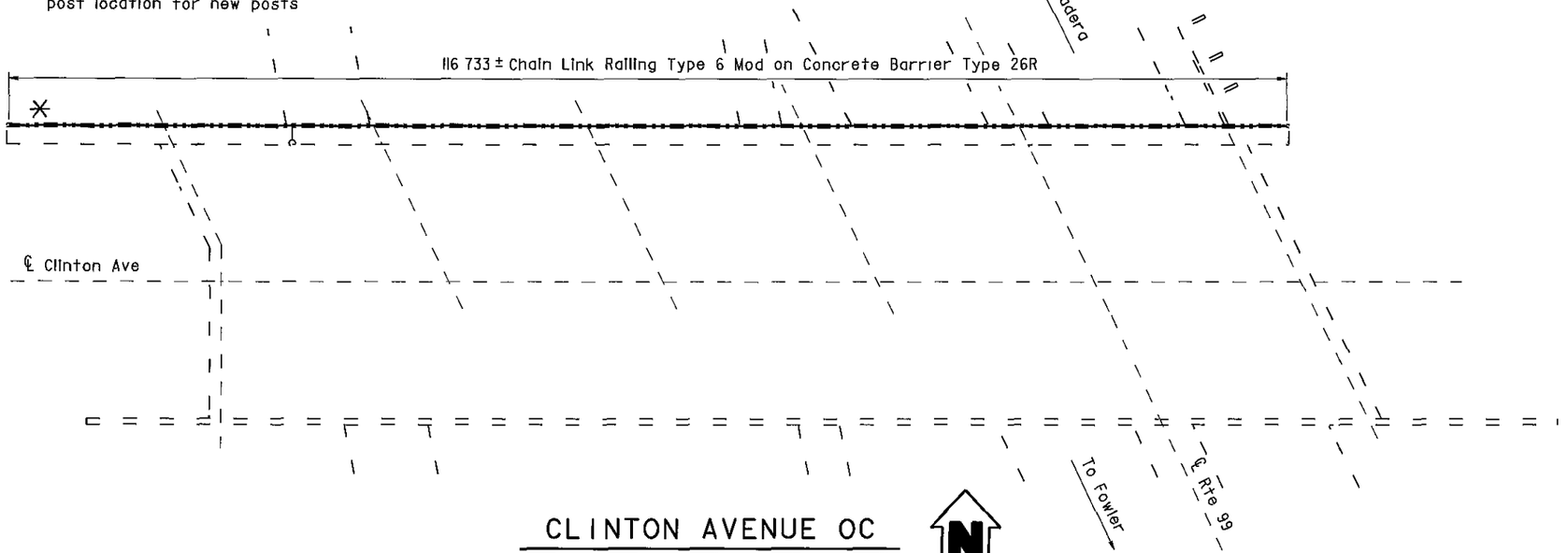
NOTES

— — Indicates existing

℄ Indicates approximate location of existing electrolier (To remain)

Note

Remove existing Chain Link Railing Type 7 core 152 mm x 230 mm deep hole at existing post location for new posts



CLINTON AVENUE OC

Br No 42-0183, Fre, KP 39 3
1 250

OLIVE AVENUE OC 42-0187
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION M	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	129 m

CLINTON AVENUE OC 42-0183
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION N	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	116 m

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED		BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00	LAYOUT	K Endow	4/00	D Acoba 4/00
DETAILS	K Endow	4/00	F Tannous	5/00				
QUANTITIES	D Acoba	5/00	F Tannous	5/00	SPECIFICATIONS	J Maroney	9/00	PLANS AND SPECS COMPARED J Maroney 9/00

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 6

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE => nagp6.dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/17/00 | 9/26/00 | 10/3/00

SHEET 6 OF 11

USERNAME => mcarlson DATE PLOTTED => 03 JAN-2003 TIME PLOTTED => 08 53

ClibPDF - www.fastio.com

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	127	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

FRESNO STREET OC 42-0170
QUANTITIES

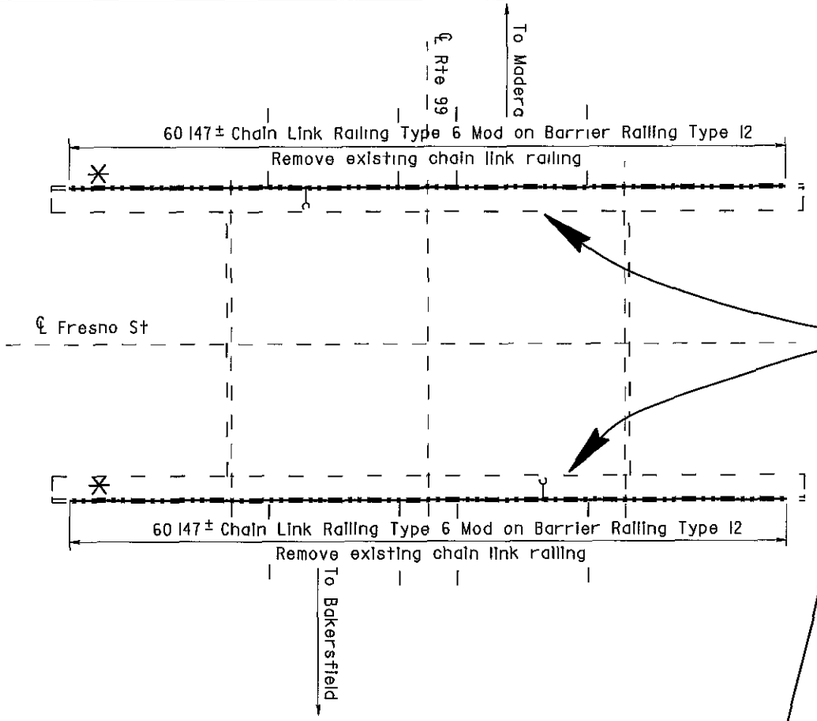
BRIDGE REMOVAL (PORTION), LOCATION J	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	120 m

EL DORADO STREET OC 42-0184
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION K	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	122 m

BELMONT AVENUE OC 42-0186
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION L	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	138 m



Handrail added to Fresno St. and Belmont Ave. OC

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

NOTES

— — Indicates existing

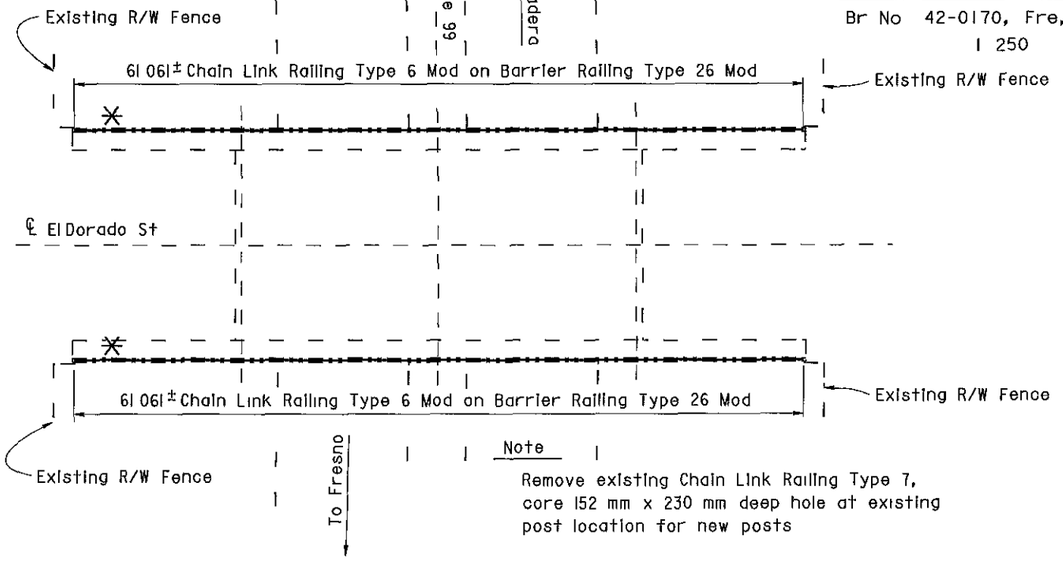
℄ Indicates approximate location of existing electrolier (To remain)

Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

FRESNO STREET OC

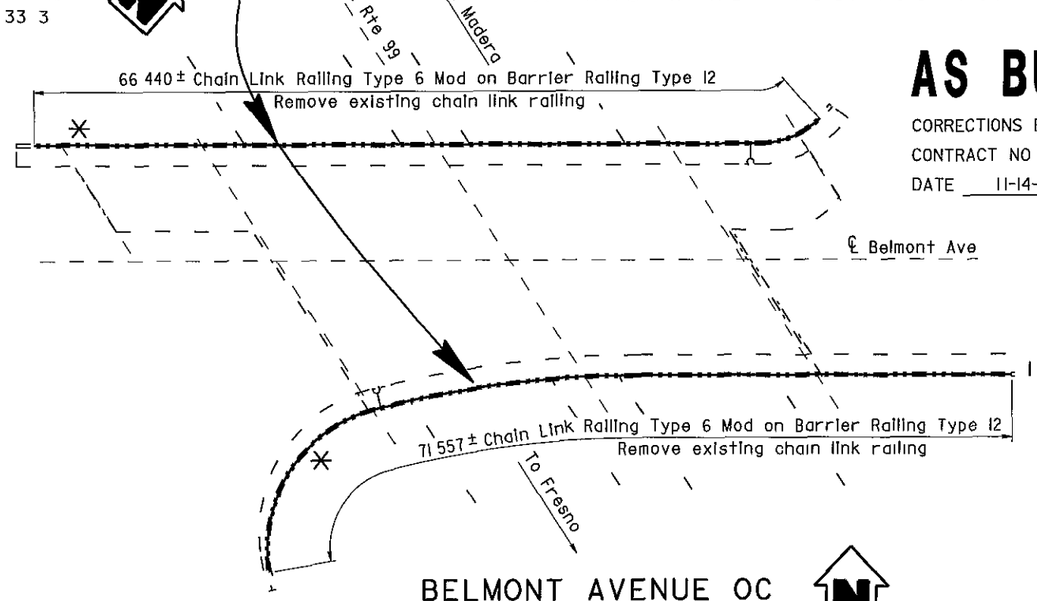
Br No 42-0170, Fre, KP 33 3
1 250



Note
Remove existing Chain Link Railing Type 7, core 152 mm x 230 mm deep hole at existing post location for new posts

EL DORADO STREET OC

Br No 42-0184, Fre, KP 34 6
1 250



BELMONT AVENUE OC

Br No 42-0186, Fre, KP 36 5
1 250

AS BUILT
MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED		LAYOUT	BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00		K Endow	4/00	D Acoba	4/00
DETAILS	K Endow	4/00	F Tannous	5/00				PLANS AND SPECS COMPARED	
QUANTITIES	D Acoba	5/00	F Tannous	5/00	SPECIFICATIONS	J Maroney	9/00	J Maroney	9/00

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

CU 06015
EA 440101

FILE => nogp5.dgn

BRIDGE NO	Various
KILOMETER POST	Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 5

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)									
5/15/00	7/17/00	9/26/00	10/3/00						

SHEET 5 OF 11

USERNAME => marison DATE PLOTTED => 03-JAN 2003 TIME PLOTTED => 06 50

ClibPDF - www.fastio.com

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	124	133

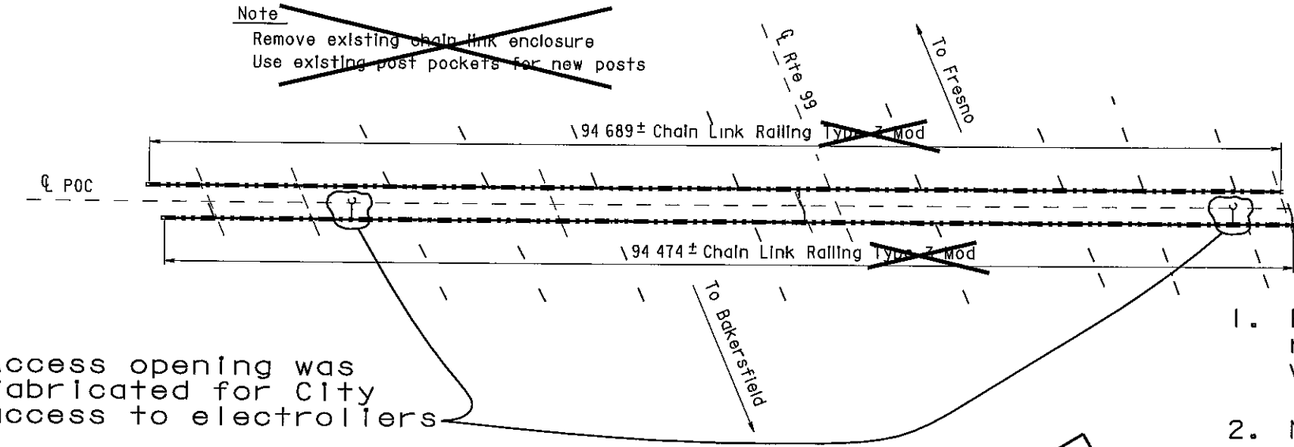
10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

Note
Remove existing chain link enclosure
Use existing post pockets for new posts



COSMOS PLAYGROUND POC

Br No 42-0215, Fre, KP 31 2
1 250

1. Existing chain link railing remained and was painted.
2. New 1" mesh was installed and replaced the old 2" mesh.
3. Existing electroliers remained.

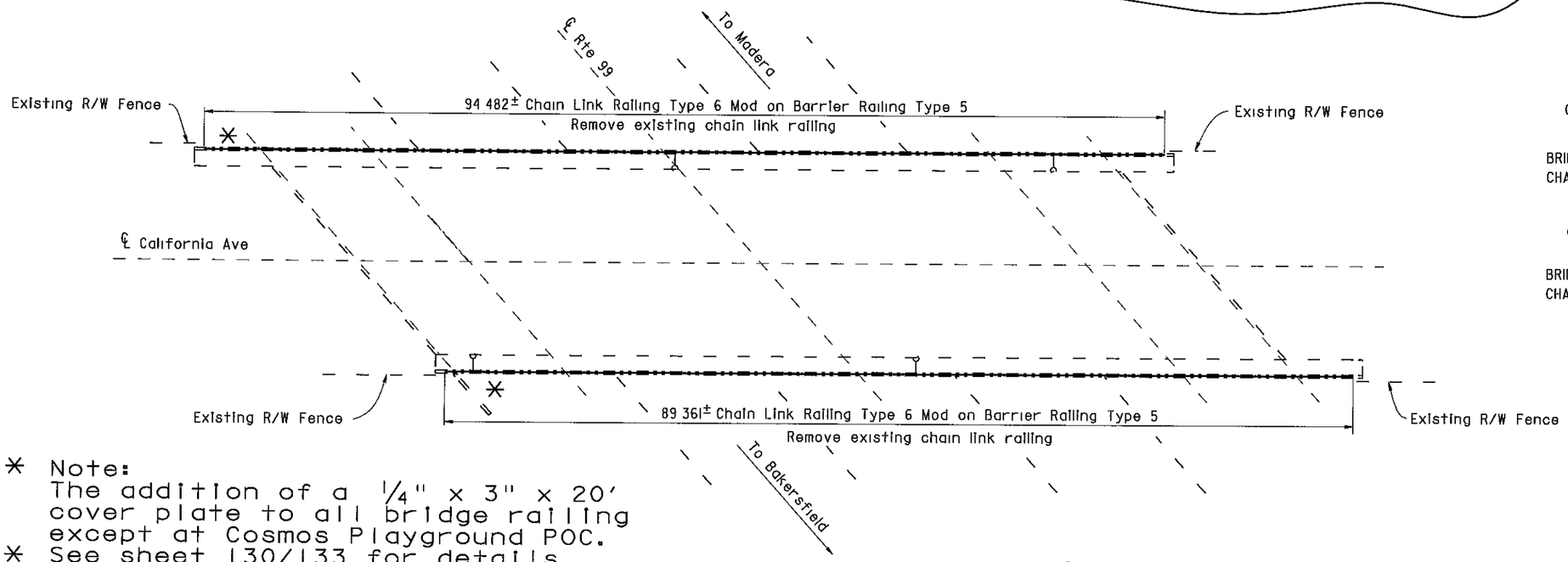
NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

NOTES

— — Indicates existing

℄ Indicates approximate location of existing electroliter (To remain)

Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details



COSMOS PLAYGROUND POC 42-0215
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION C	LUMP SUM
CHAIN LINK RAILING (TYPE 3 MODIFIED)	209 m

CALIFORNIA AVENUE OC 42-0217
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION D	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	184 m

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

CALIFORNIA AVENUE OC

Br No 42-0217, Fre, KP 32 0
1 250

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borguez
CONTRACT NO 06-440104
DATE 11-14-02

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00
DETAILS	K Endow	4/00	F Tannous	5/00
QUANTITIES	D Acoba	5/00	F Tannous	5/00
LAYOUT	K Endow	4/00	D Acoba	4/00
SPECIFICATIONS	J Maroney	9/00	J Maroney (PLANS AND SPECS COMPARED)	9/00

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

CU 06015
EA 440101

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 2

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/12/00 | 9/26/00 | 10/3/00

SHEET 2 OF 11

FILE -> nagp2.dgn

USERNAME -> morrison DATE PLOTTED -> 03 JAN 2003 TIME PLOTTED -> 08:15

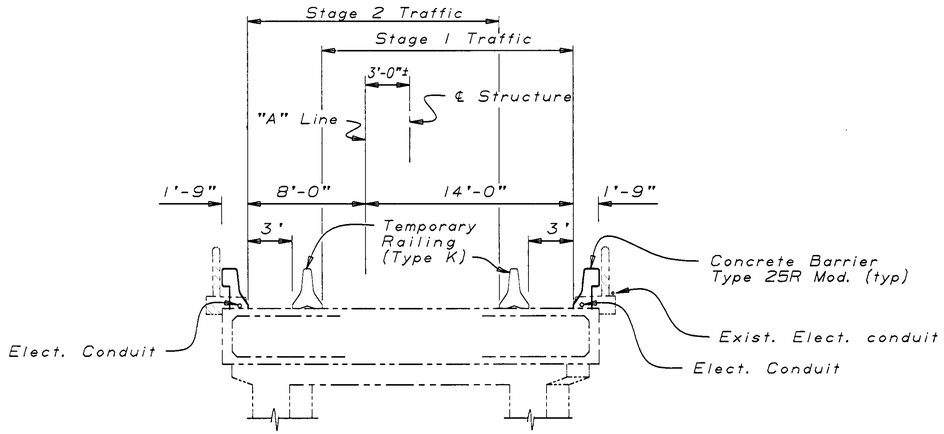
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	16	39

REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — Gary Joe — No. 36852 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE



TYPICAL SECTION

1"=5'

PLAN

1" = 20'

Notes:

1. Paint "South Madera Overcrossing" and year constructed.
2. Paint "Br. No. 41-46K".
3. Remove sign structure prior to construction and reinstall after barrier rail is complete.
4. Provide anchorage for existing MBGR. See Road Plans.
5. Temporary Crash Cushion Modules, see "Road Plans."

Indicates limits of existing Structure removal.

Indicates existing structure.

6. Reference nails based on Assumed Elev. 10.000 (NE Corner)

GENERAL NOTES
WORKING STRESS DESIGN

DESIGN: BRIDGE DESIGN SPECIFICATIONS (1983 AASHTO with Interims and Revisions by CALTRANS).

REINFORCED CONCRETE: f_s = 24,000 psi

f_c = 1,300 psi

n = 10

APPROXIMATE QUANTITIES

TEMPORARY RAILING (TYPE K)	620 LF
MODIFY SIGN STRUCTURE	1 EA
BRIDGE REMOVAL (PORTION), LOCATION A	LUMP SUM
REFINISH BRIDGE DECK	226 SQFT

FINAL PAY QUANTITIES

CONCRETE BARRIER (TYPE 25R MODIFIED)	488 LF

INDEX TO PLANS

SHEET NO.	TITLE
1.	GENERAL PLAN NO. 1
2.	GENERAL PLAN NO. 2
3.	GENERAL PLAN NO. 3
4.	GENERAL PLAN NO. 4
5.	GENERAL PLAN NO. 5
6.	GENERAL PLAN NO. 6
7.	GENERAL PLAN NO. 7
8.	GENERAL PLAN NO. 8
9.	BARRIER DETAILS NO. 1
10.	BARRIER DETAILS NO. 2
11.	BARRIER DETAILS NO. 3
12.	BARRIER DETAILS NO. 4
13.	BARRIER DETAILS NO. 5
14.	BARRIER DETAILS NO. 6
15.	BARRIER DETAILS NO. 7
16.	BARRIER DETAILS NO. 8
17.	BARRIER DETAILS NO. 9
18.	BARRIER DETAILS NO. 10
19.	BARRIER DETAILS NO. 11
20.	BARRIER DETAILS NO. 12
21.	SIGN DETAILS NO. 1
22.	SIGN DETAILS NO. 2
23.	SIGN DETAILS NO. 3
24.	CONCRETE BARRIER TYPE 25R

STANDARD PLANS DATED JANUARY 1988

B11-30	TEMPORARY RAILING (TYPE K)
B11-52	CHAIN LINK RAILING TYPE 7
B11-54	CONCRETE BARRIER TYPE 26
S9-12	OVERHEAD SIGNS, WALKWAY DETAILS NO. 1
S10-9	OVERHEAD SIGNS, WALKWAY DETAILS NO. 2
S11-10	OVERHEAD SIGNS, WALKWAY RAILING DETAILS

AS BUILT
DAS 12-8-92
CORRECTIONS BY J. Abercrombie
CONTRACT NO. 06-282204
DATE 8-3-92

Standard Plan Sheet No.
Detail No.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

SOUTH MADERA OVERCROSSING

L m Stokes 12-90
DESIGN ENGINEER

DESIGN	BY D. Ross 9-90	CHECKED G. Joe 9-90	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
DETAILS	BY Flo Calkins 5-90	CHECKED G. Joe 9-90	LAYOUT	BY D. Ross 9-90	CHECKED G. Joe 9-90
QUANTITIES	BY D. Ross 9-90	CHECKED S. Moan 9-90	SPECIFICATIONS	BY	PLANS AND SPECS COMPARED

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 9

CU 06200
EA 282201

BRIDGE NO. 41-46K
POST MILE 9.7

CONCRETE BARRIER REPLACEMENT
GENERAL PLAN NO. 1

DS 050 2138 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 10-18-90 | 11-26-90 | 9-7-90 | 9-13-90 | 9-14-90 | 9-27-90 | 10-1-90 | 10-5-90

SHEET 1 OF 24

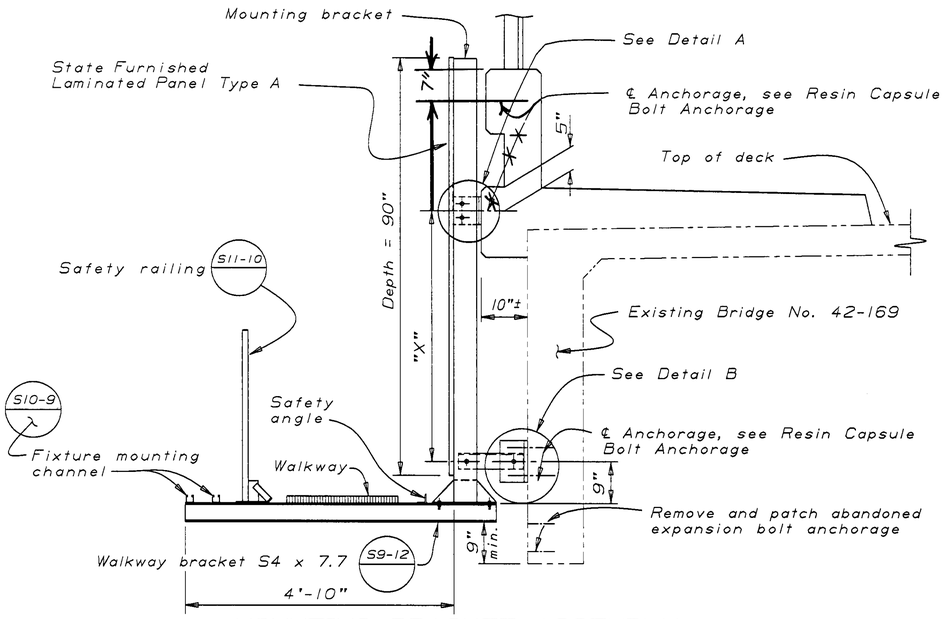
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	37	39

REGISTERED ENGINEER - CIVIL

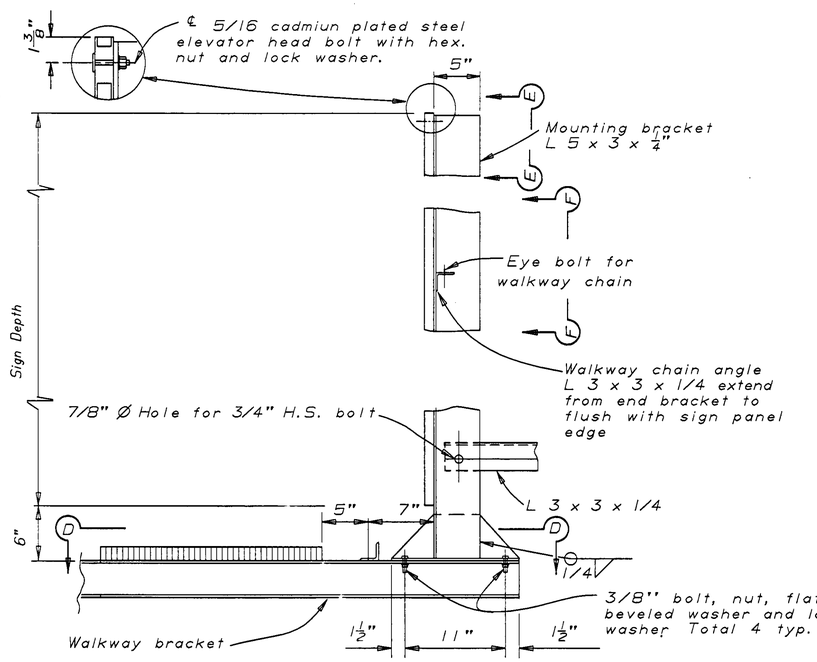
REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE

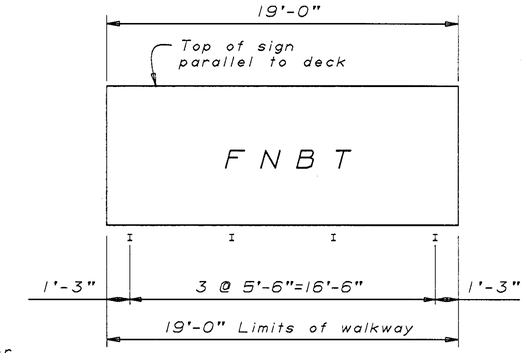


MOUNTING BRACKET ASSEMBLY

$\frac{3}{4}$"=1'-0"



MOUNTING BRACKET ANGLE DETAIL



MOUNTING BRACKET ASSEMBLY SPACING

Notes:

1. For details not shown see "Standard Plans".
2. The exterior mounting bracket to face outward to accomodate the walkway chain angle.
3. Contractor to provide anchor bolt layout before anchor bolts are placed.
4. For "X", "Y" and "Z" dimensions see table on "Sign Details No. 1" sheet.

---------- Denotes existing structure

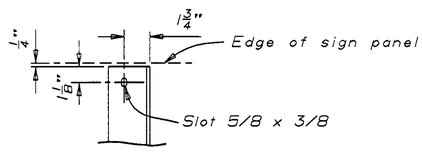
W.A.R 3-11-93
CORRECTED: J. ABERCROMBIE
CONTRACT NO. 06-282204
DATE 8-3-92

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

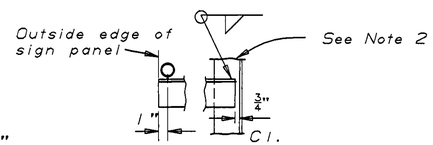
DETAIL A

DETAIL B

SECTION D-D



VIEW E-E

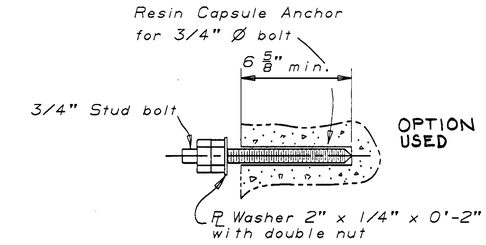


VIEW F-F

PLATE WASHER

For all slotted holes

ALTERNATIVE CIP BOLT ANCHORAGE



RESIN CAPSULE BOLT ANCHORAGE

Note: Resin capsule anchorage is subject to approval of Engineer. Installation procedures shall comply with manufacturer's instructions.

TULARE ST. OVERCROSSING

DESIGN	BY D. Ross 9-90	CHECKED G. Joe 9-90	STATE OF CALIFCRNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9	BRIDGE NO. 42-169
DETAILS	BY D.A. SANDERSON 7-90	CHECKED G. Joe 9-90			POST MILE 20.6
QUANTITIES	BY D. Ross 9-90	CHECKED S. Maan 9-90		CU 06200 EA 282201	

CONCRETE BARRIER REPLACEMENT
SIGN DETAILS NO. 2

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)									SHEET	OF
7-5-90	8-14-90	9-12-90	9-14-90	9-28-90	10-16-90				22	24

ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	38	39

REGISTERED ENGINEER - CIVIL

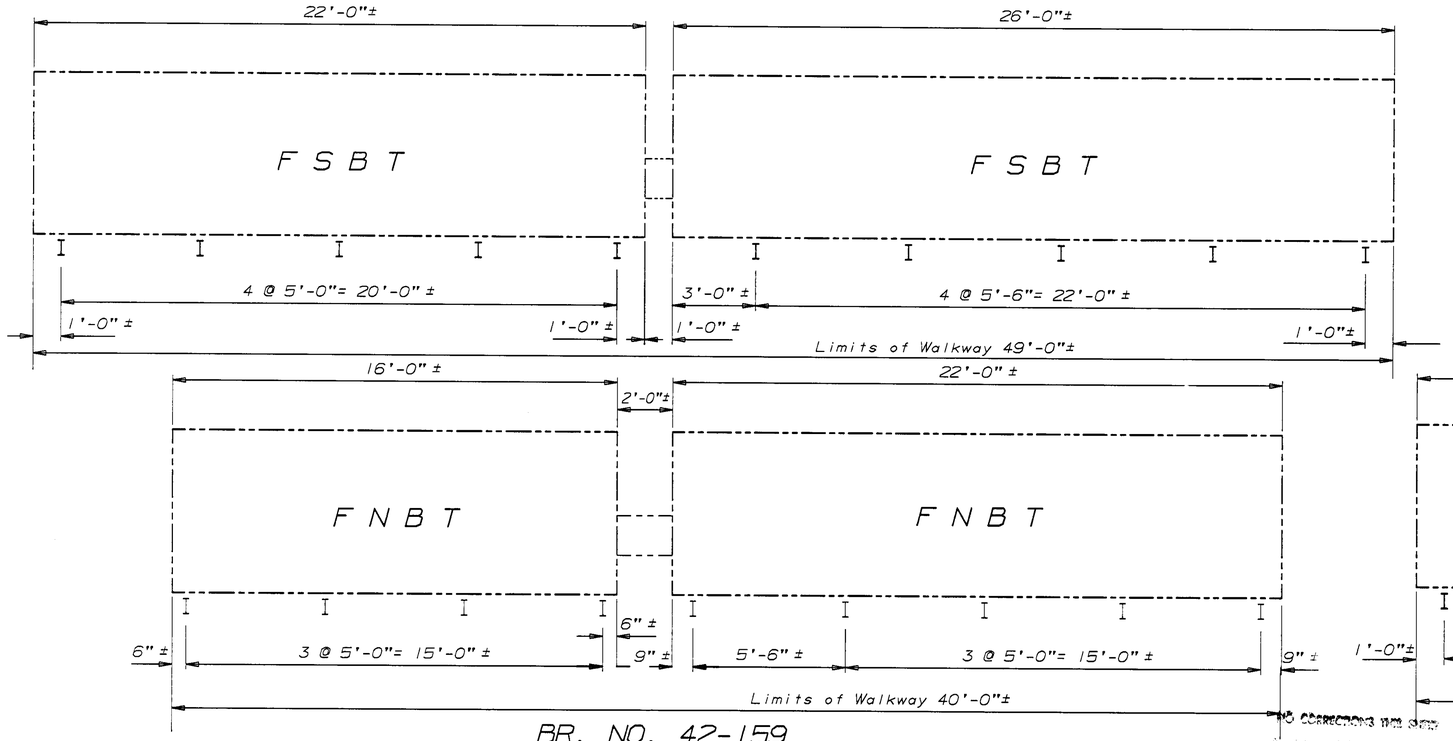
REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

Note: Top of signs parallel to deck.

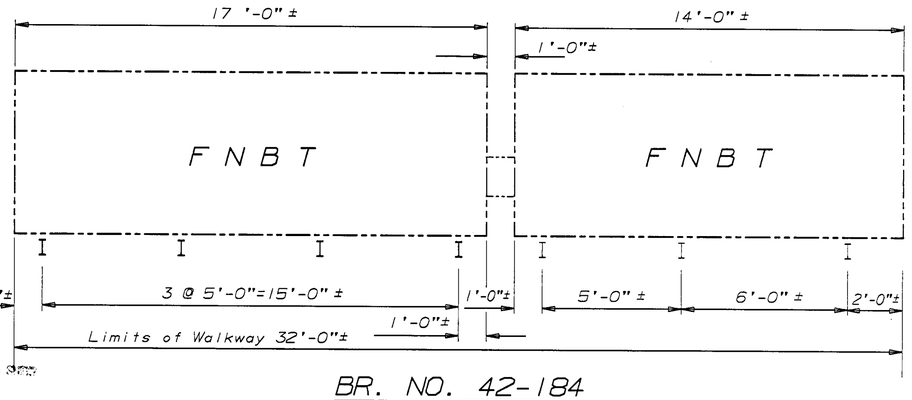
— — — — Indicates existing structure.



BR. NO. 42-159

KERN ST. OVERCROSSING

$\frac{3}{8}$"= 1'-0"



BR. NO. 42-184

EL DORADO ST. OVERCROSSING

$\frac{3}{8}$"= 1'-0"

NO CORRECTIONS WITH STAMP

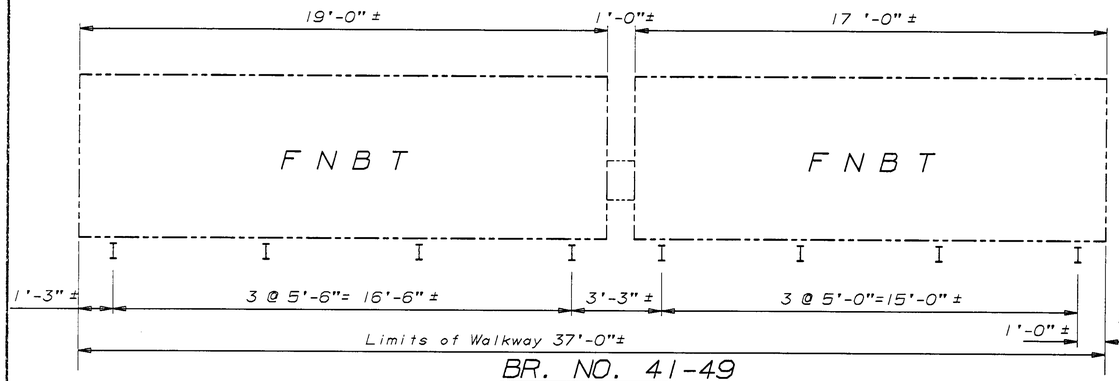
AS BUILT

W.A.O.R. 3-11-93

CORRECTED J. ABERCROMBIE

CONTRACT NO. 06-282204

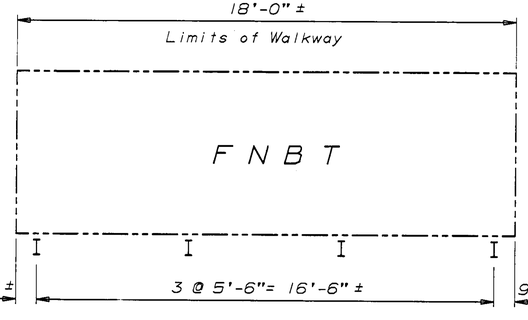
DATE 8-3-92



BR. NO. 41-49

WEST YOSEMITE AVE. OVERCROSSING

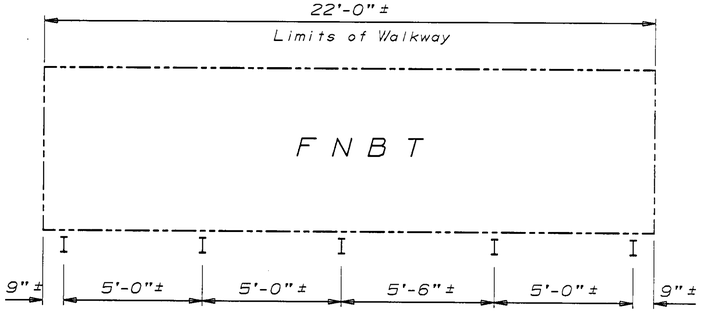
$\frac{3}{8}$"= 1'-0"



BR. NO. 41-46

SOUTH MADERA OVERCROSSING

$\frac{3}{8}$"= 1'-0"



BR. NO. 42-189

PACIFIC AVE. OVERCROSSING

$\frac{3}{8}$"= 1'-0"

DESIGN	BY D. Ross 9-90	CHECKED G. Joe 9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9	BRIDGE NO. Various / POST MILE
DETAILS	BY Mus D. Pagalla 9-90	CHECKED G. Joe 9-90			
QUANTITIES	BY D. Ross 9-90	CHECKED S. Maan 9-90			

CONCRETE BARRIER REPLACEMENT

SIGN DETAILS NO. 3

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 9-5-90 | 9-27-90 | 10-5-90

SHEET 23 OF 24

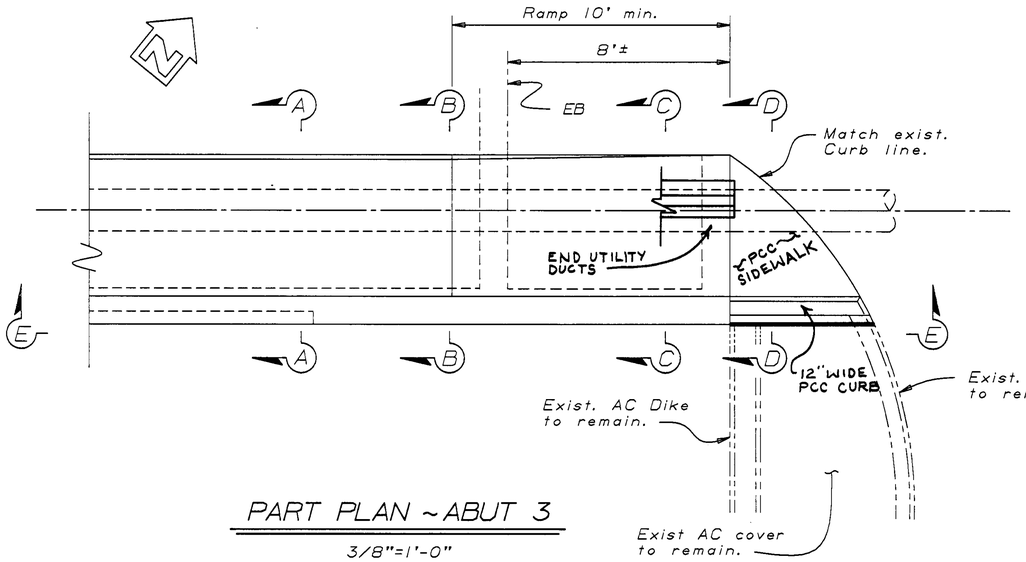
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	31	39

REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

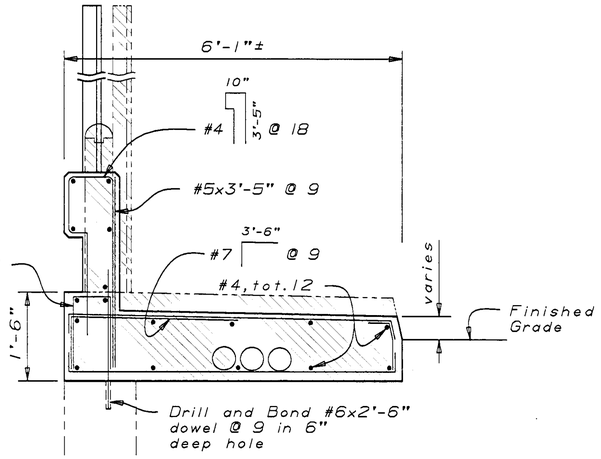
2-4-91
PLANS APPROVAL DATE



PART PLAN ~ ABUT 3

3/8"=1'-0"

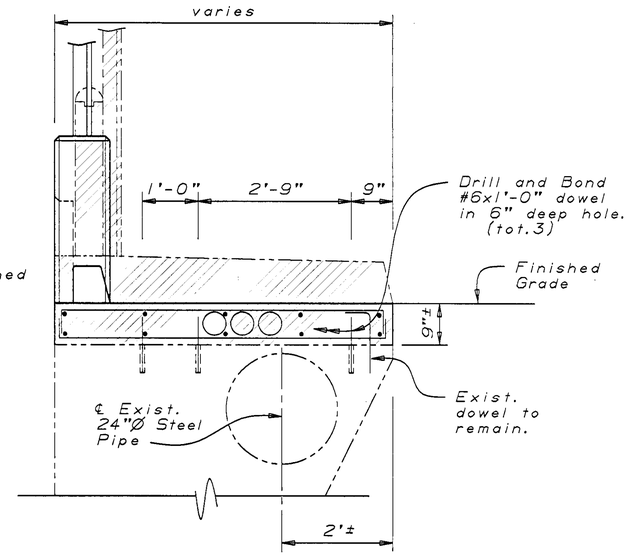
For Sections A-A and B-B, see "Barrier Details No. 7 " sheet.



SECTION C-C

3/4"=1'-0"

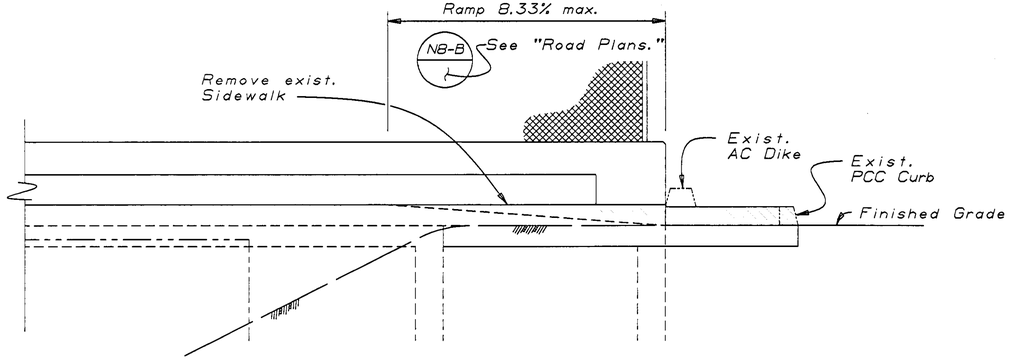
For details not shown, see "Typical Section" on "Barrier Details No. 7 " sheet.



VIEW D-D

3/4"=1'-0"

For details not shown see Section C-C



ELEVATION E-E

3/8"=1'-0"

W.A.R. 3-11-93
CORRECT J. ABERCROMBIE
CONTRACT NO. 06-282204
DATE 8-3-92

Notes:

Indicates limits of existing Structure removal.

---——--- Indicates existing structure.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

WEST FOURTH STREET OVERCROSSING

	BY		CHECKED	
DESIGN	D. Ross	9-90	G. Joe	9-90
DETAILS	L. Good	9-90	G. Joe	9-90
QUANTITIES	D. Ross	9-90	S. Maan	9-90

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 9

BRIDGE NO.	CONCRETE BARRIER REPLACEMENT
41-50	
POST MILE	BARRIER DETAILS NO. 8
11.0	

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): ~~9-28-90~~ ~~9-28-90~~ 10-1-90 10-16-90

SHEET 16 OF 24

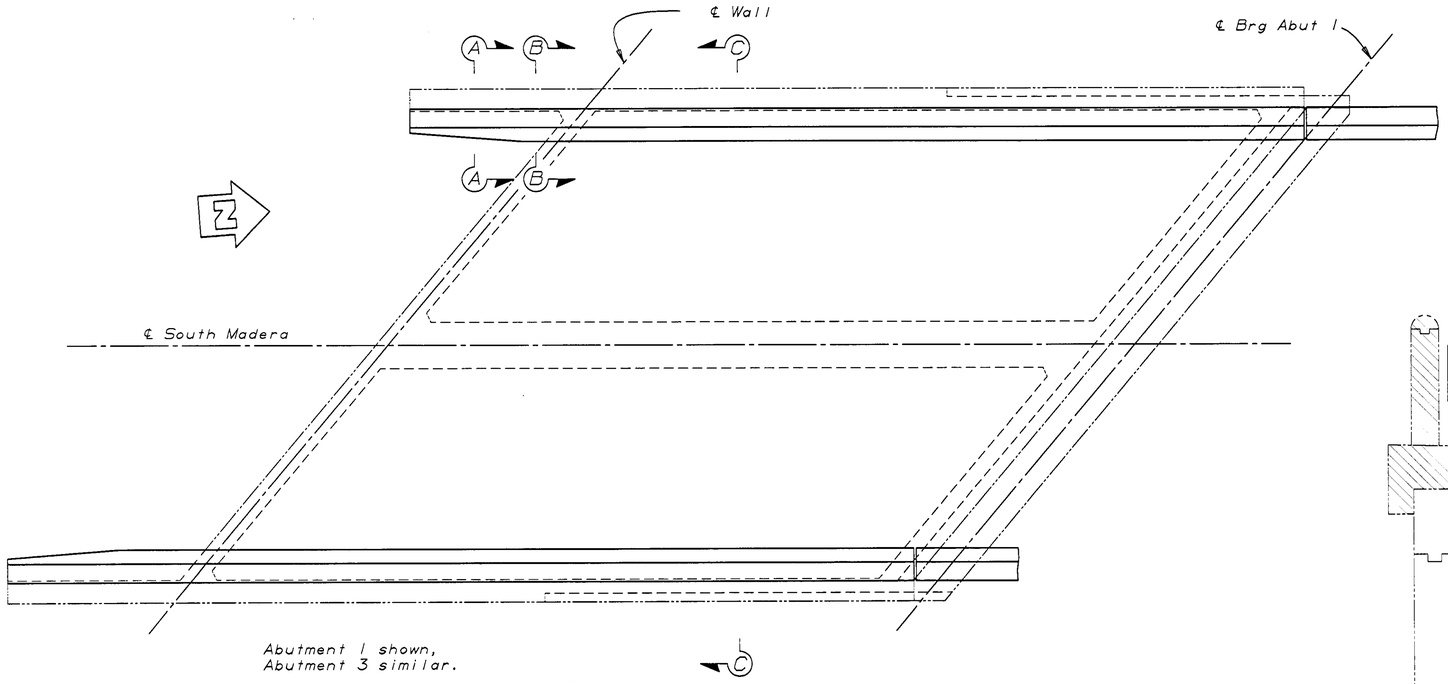
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	24	39

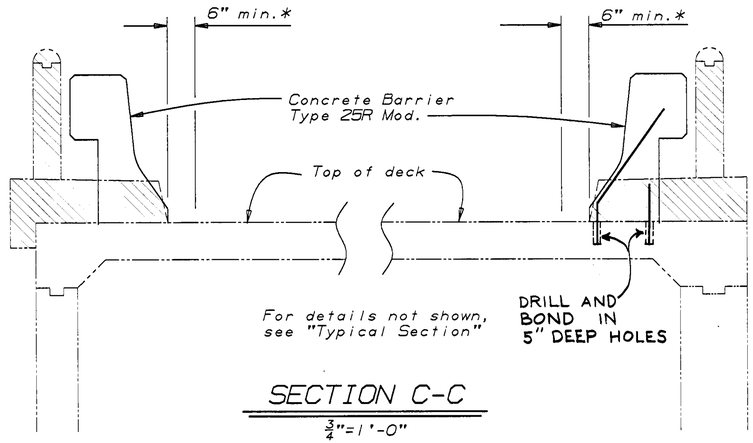
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

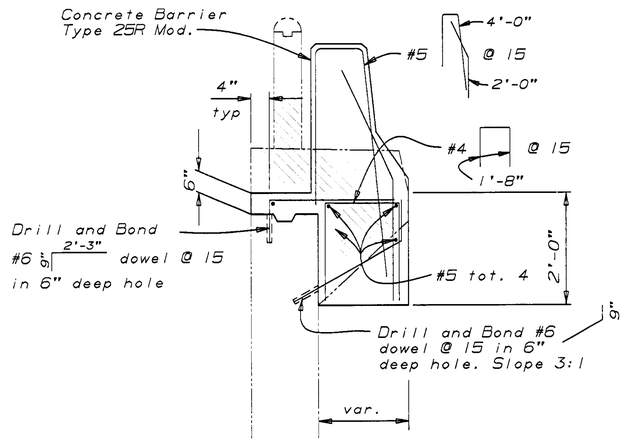
2-4-91
PLANS APPROVAL DATE



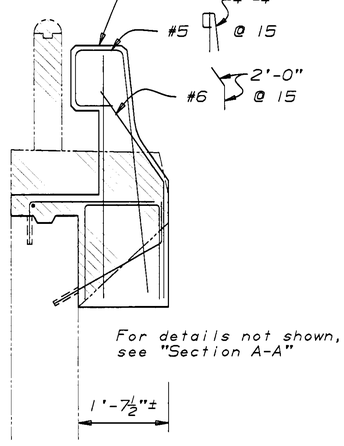
PLAN
1/4"=1'-0"



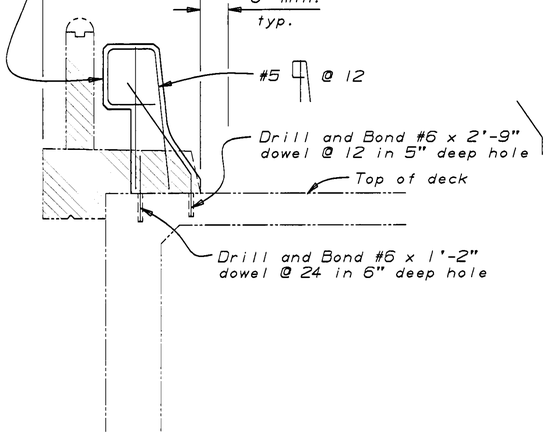
SECTION C-C
3/4"=1'-0"



SECTION A-A
3/4"=1'-0"



SECTION B-B
3/4"=1'-0"



TYPICAL SECTION
3/4"=1'-0"

AS BUILT
W.A.R 3-11-93
CORRECTED BY J. ABERCROMBIE

CONTRACT NO. 06-282204

DATE 8-3-92

Notes:

* Limits of refinishing bridge deck.

For details and reinf. not shown see "Concrete Barrier Type 25R" sheet.

Indicates limits of existing Structure removal.

Indicates existing structure.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

SOUTH MADERA OVERCROSSING

DESIGN	BY D. ROSS 9-90	CHECKED G. JOE 9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9	BRIDGE NO. 41-46K
DETAILS	BY D.A. SANDERSON 9-90	CHECKED G. JOE 9-90			POST MILE 9.7
QUANTITIES	BY D. ROSS 9-90	CHECKED S. MAAN 9-90			

CONCRETE BARRIER REPLACEMENT
BARRIER DETAILS NO. 1

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 5-8-90 | 9-7-90 | 10-3-90 | 10-4-90 | 10-8-90 | 11-28-90

SHEET 9 OF 24

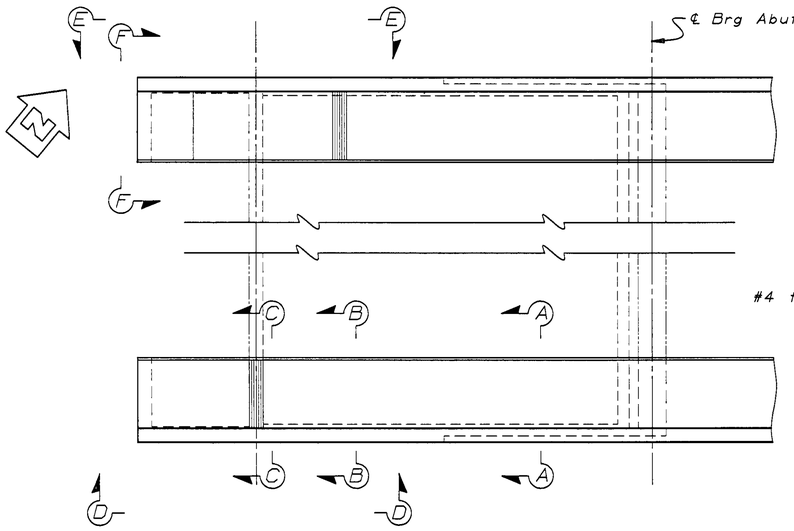
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	25	39

REGISTERED ENGINEER - CIVIL

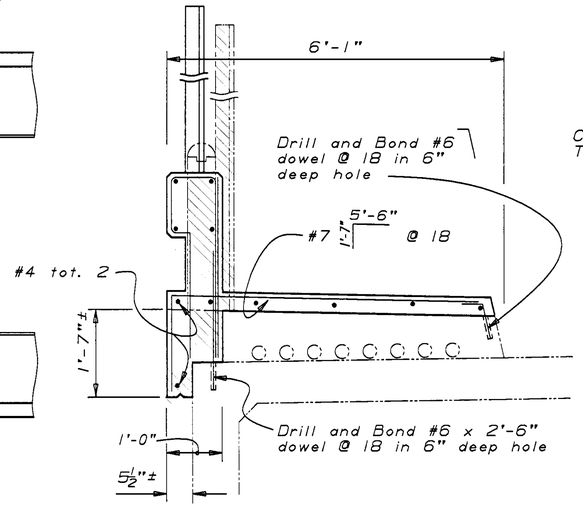
REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE



PLAN - ABUTMENT 1

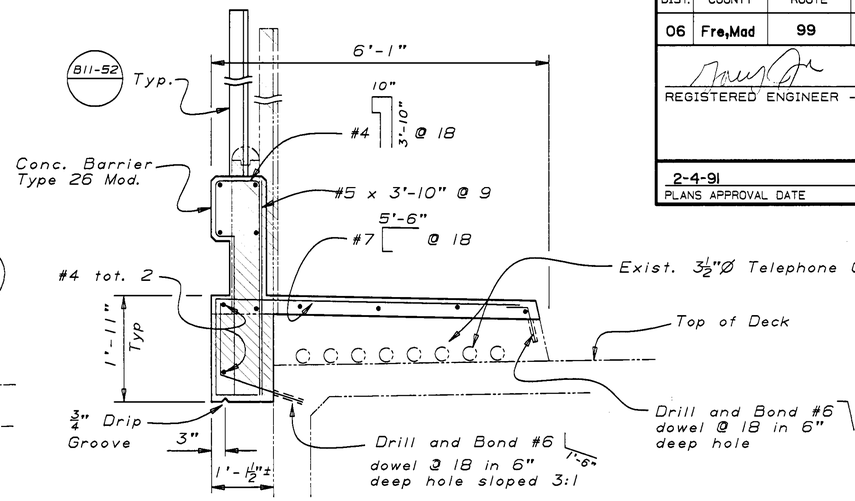
$\frac{3}{16}$"=1'-0"



SECTION A-A

$\frac{3}{4}$"=1'-0"

For details not shown see "Typical Section - Rt. Side"



TYPICAL SECTION - RT. SIDE

B11-54

$\frac{3}{4}$"=1'-0"

(LOOKING BACK ON STATION)

Notes:

For Elevations D-D & E-E see "Barrier Details No. 4" sheet

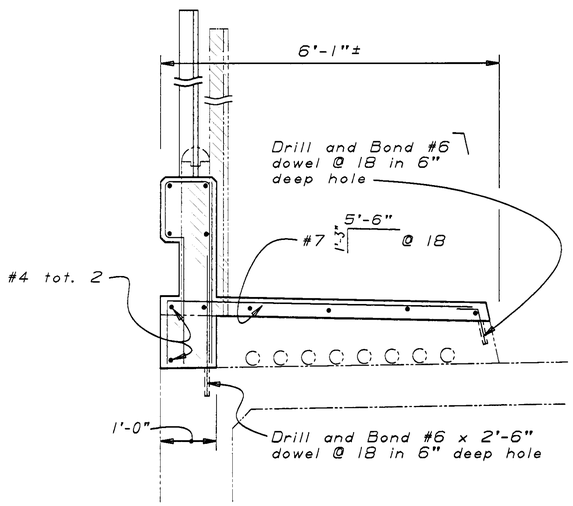
For Elevation F-F see "Barrier Details No. 3" sheet.

* Limits of refinishing bridge deck.

—·—·— Indicates existing structure.

▨ Indicates limits of existing Structure removal

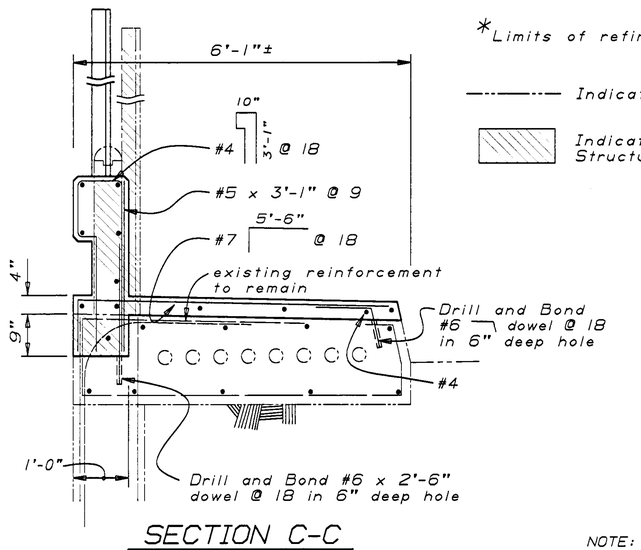
NO CORRECTIONS NEEDED
AS BUILT
W.A.R 3-11-93
CORRECTED BY J. ABERCROMBIE
CONTRACT NO. 06-282204
DATE 8-3-92



SECTION B-B

$\frac{3}{4}$"=1'-0"

For details not shown see "Typical Section - Rt. Side"

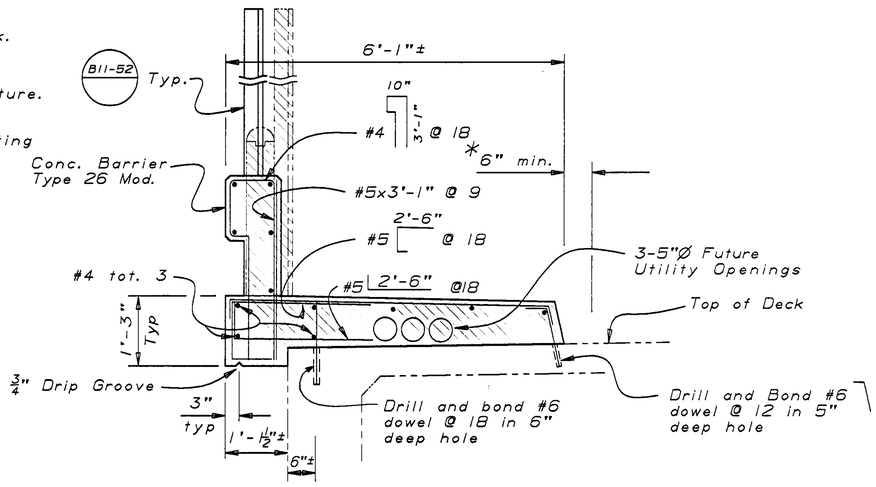


SECTION C-C

$\frac{3}{4}$"=1'-0"

For details not shown see "Typical Section - Rt. Side"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



TYPICAL SECTION - LT. SIDE

$\frac{3}{4}$"=1'-0"

WEST SIXTH STREET OVERCROSSING

DESIGN	BY D. ROSS	9-90	CHECKED G. JOE	9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9	BRIDGE NO. 41-48
DETAILS	BY D.A. SANDERSON	9-90	CHECKED G. JOE	9-90			POST MILE 10.3
QUANTITIES	BY D. ROSS	9-90	CHECKED S. MAAN	9-90			

CONCRETE BARRIER REPLACEMENT
BARRIER DETAILS NO. 2

DS 05D 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 9-28-90 | 10-1-90 | 10-2-90 | 10-4-90 | 12-3-90

SHEET 10 OF 24

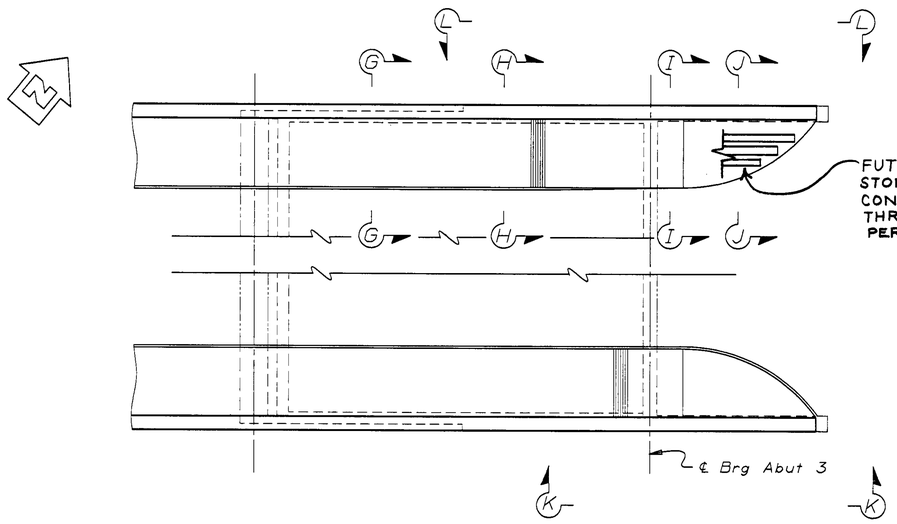
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	26	39

REGISTERED ENGINEER - CIVIL

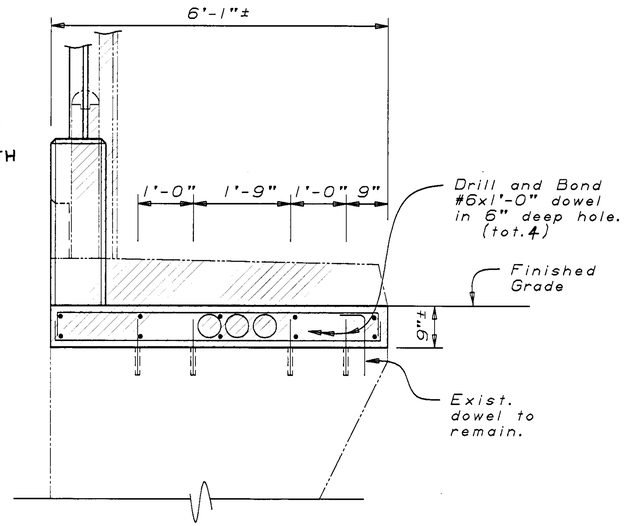
REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE



PLAN - ABUTMENT 3

$\frac{3}{16}$"=1'-0"



For details not shown see "Section I-I"

ELEVATION F-F

$\frac{3}{4}$"=1'-0"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

For Elevations K-K & L-L see "Barrier Details No. 4" sheet

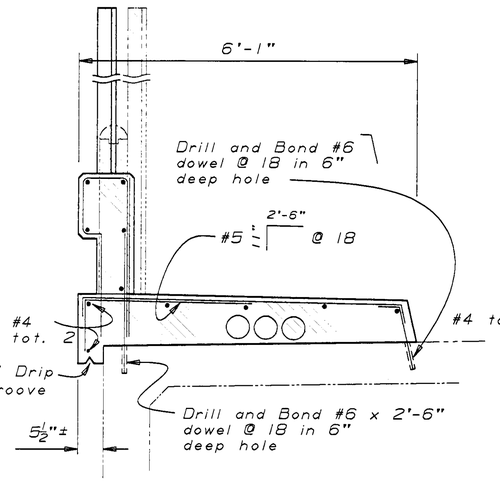
Indicates limits of existing Structure removal.

Indicates existing structure

AS BUILT
W.A.R 3-10-93
CORRECTED BY J. ABERCROMBIE

CONTRACT NO. 06-282204

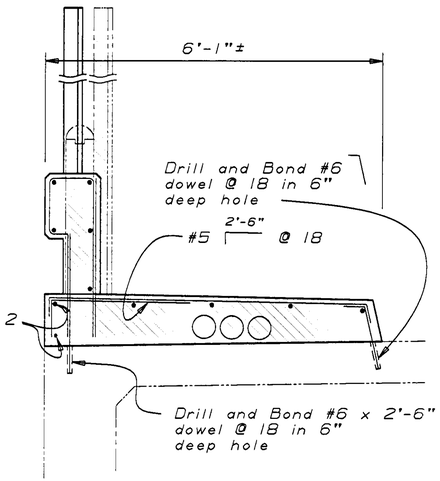
DATE 8-3-92



SECTION G-G

$\frac{3}{4}$"=1'-0"

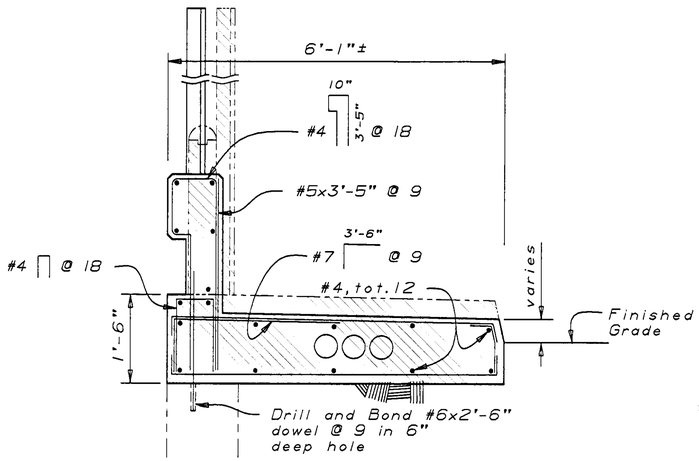
For details not shown see "Typical Section - Lt. Side" on "Barrier Details No. 2" sheet



SECTION H-H

$\frac{3}{4}$"=1'-0"

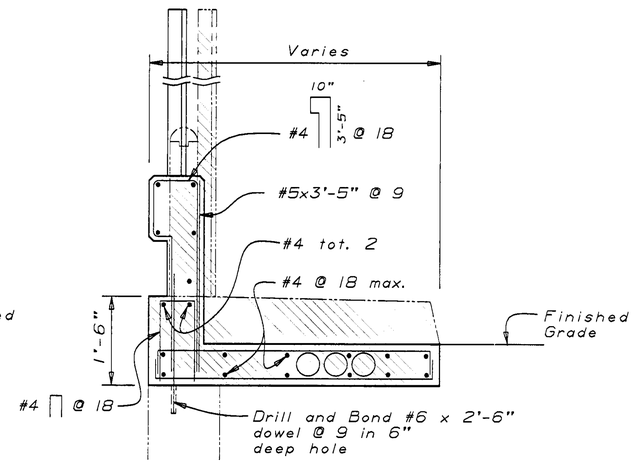
For details not shown see "Typical Section - Lt. Side" on "Barrier Details No. 2" sheet



SECTION I-I

$\frac{3}{4}$"=1'-0"

For details not shown see "Typical Section - Lt. Side" on "Barrier Details No. 2" sheet



SECTION J-J

$\frac{3}{4}$"=1'-0"

For details not shown see "Section I-I"

WEST SIXTH STREET OVERCROSSING

DESIGN	BY D. ROSS 9-90	CHECKED G. JOE 9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9	BRIDGE NO. 41-48 / POST MILE 10.3
DETAILS	BY D.A. SANDERSON 9-90	CHECKED G. JOE 9-90			CONCRETE BARRIER REPLACEMENT
QUANTITIES	BY D. ROSS 9-90	CHECKED S. MAAN 9-90			BARRIER DETAILS NO. 3

DS OSD 2:39 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): ~~9-28-90~~ | 10-1-90 | 10-2-90 | 10-3-90 | 10-4-90

SHEET 11 OF 24

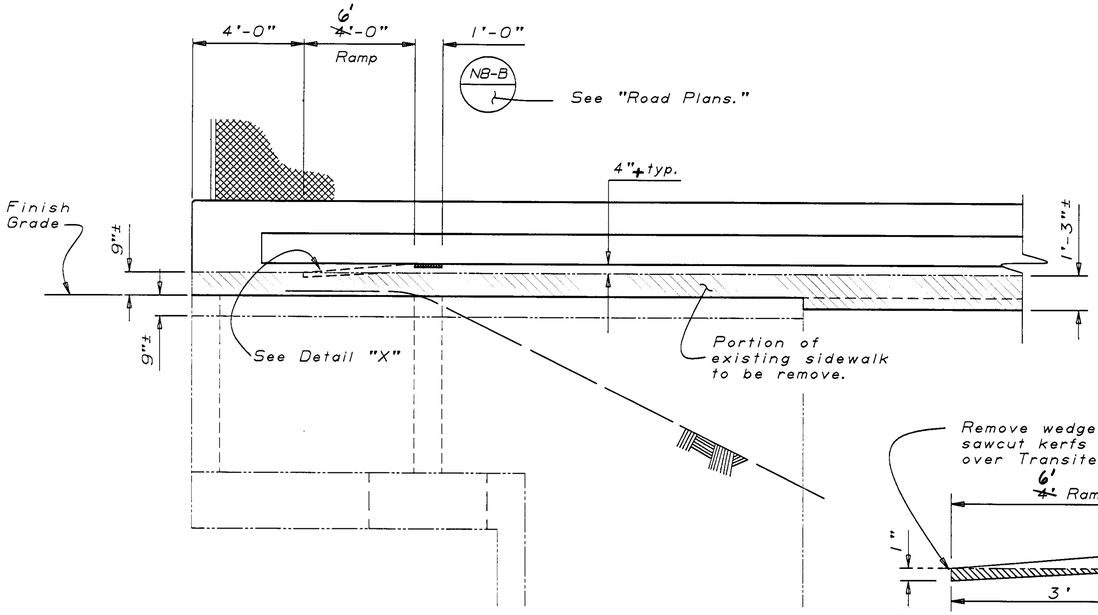
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	27	39

REGISTERED ENGINEER - CIVIL

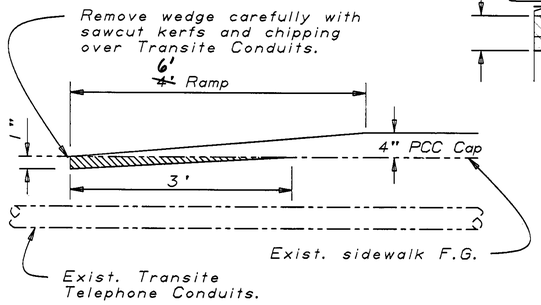
REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE



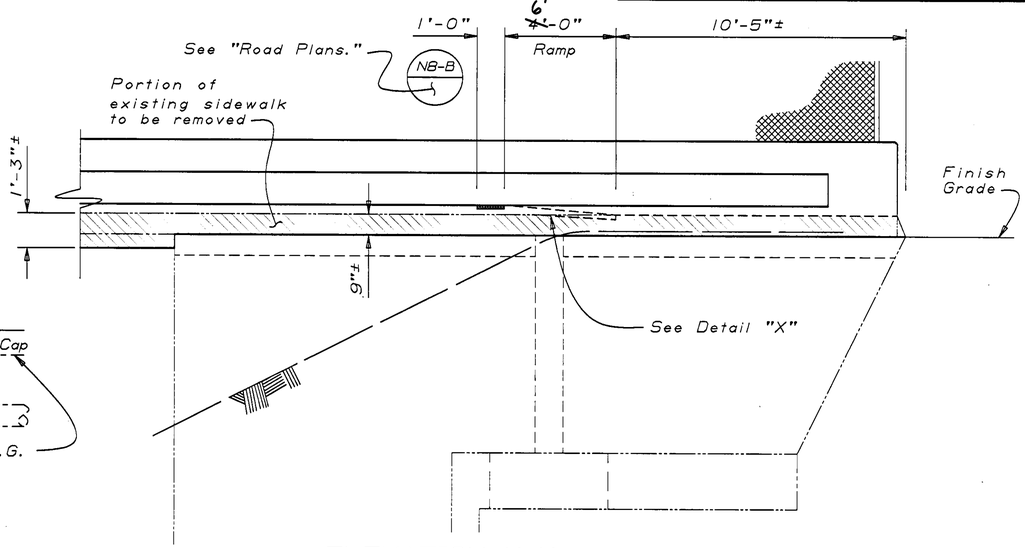
ELEVATION D-D

$\frac{3}{8}$"= 1'-0"



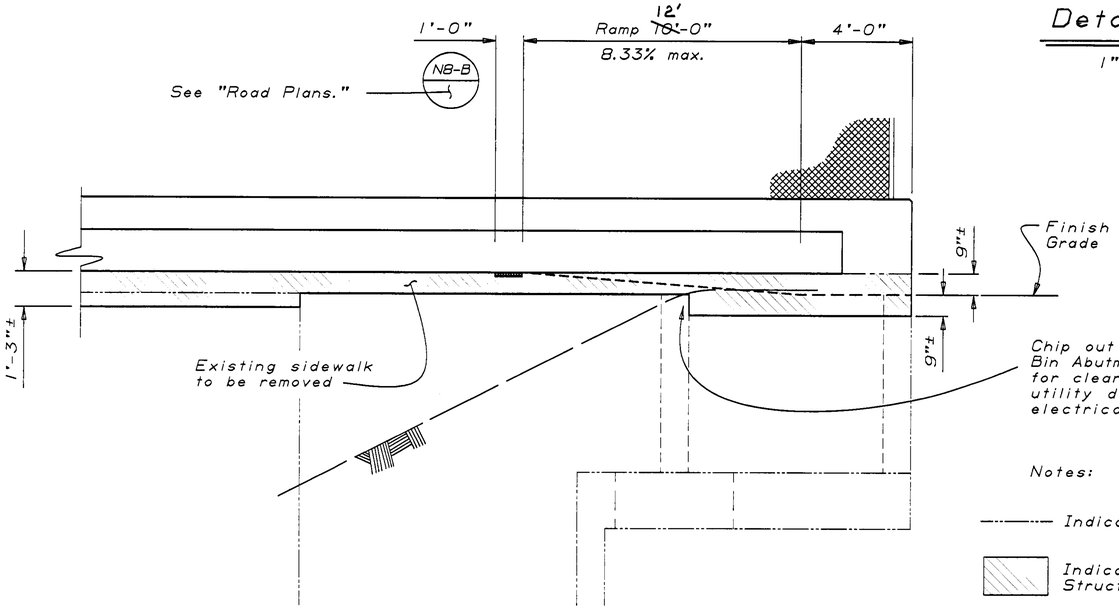
Detail "X"

1"=1'-0"



ELEVATION K-K

$\frac{3}{8}$"= 1'-0"



ELEVATION E-E

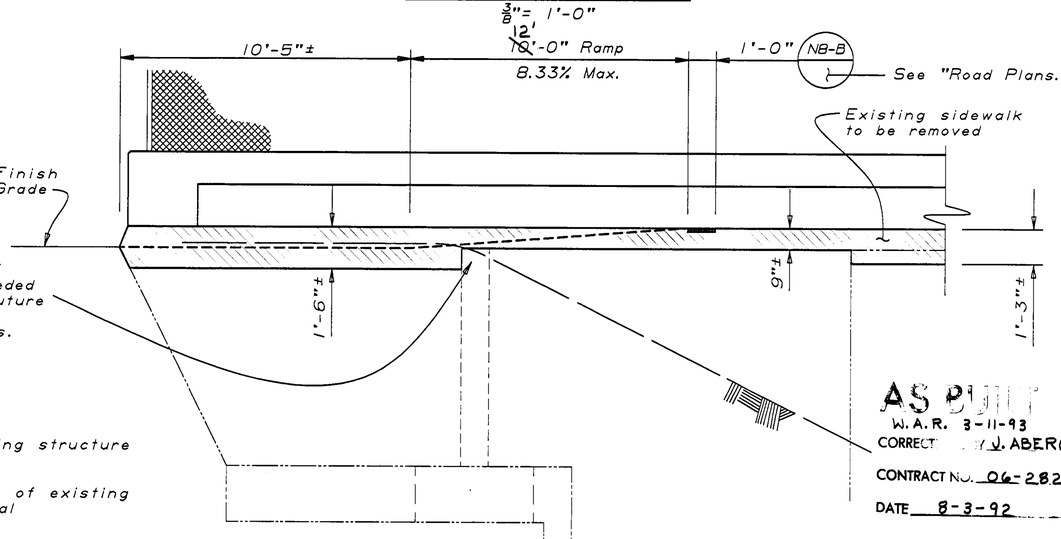
$\frac{3}{8}$"= 1'-0"

Notes:

Indicates existing structure

Indicates limits of existing Structure removal

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



ELEVATION L-L

$\frac{3}{8}$"= 1'-0"

AS BUILT
W.A.R. 3-11-93
CORRECTED BY J. ABERCROMBIE
CONTRACT NO. 06-282204
DATE 8-3-92

WEST SIXTH STREET OVERCROSSING

DESIGN	BY D. ROSS 9-90	CHECKED G. JOE 9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9	BRIDGE NO. 41-48
DETAILS	BY D.A. SANDERSON 9-90	CHECKED G. JOE 9-90			POST MILE 10.3
QUANTITIES	BY D. ROSS 9-90	CHECKED S. MAAN 9-90			

CONCRETE BARRIER REPLACEMENT
BARRIER DETAILS NO. 4

OS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): ~~9-28-90~~ | 10-2-90 | 10-4-90 | 10-18-90 | 11-5-90 | 11-28-90 | 12-3-90

SHEET 12 OF 24

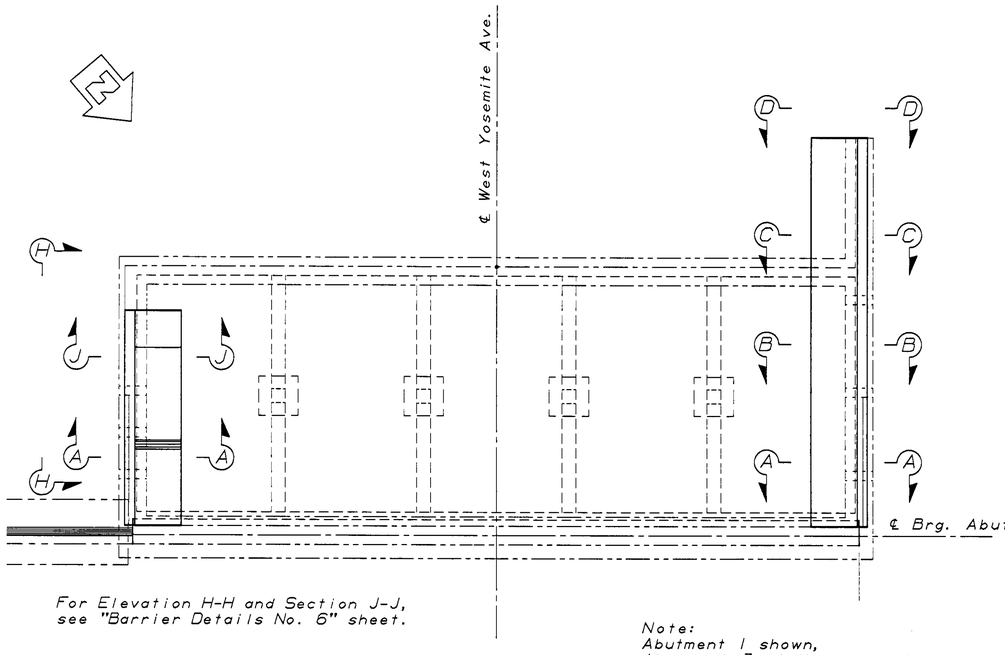
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	28	39

REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

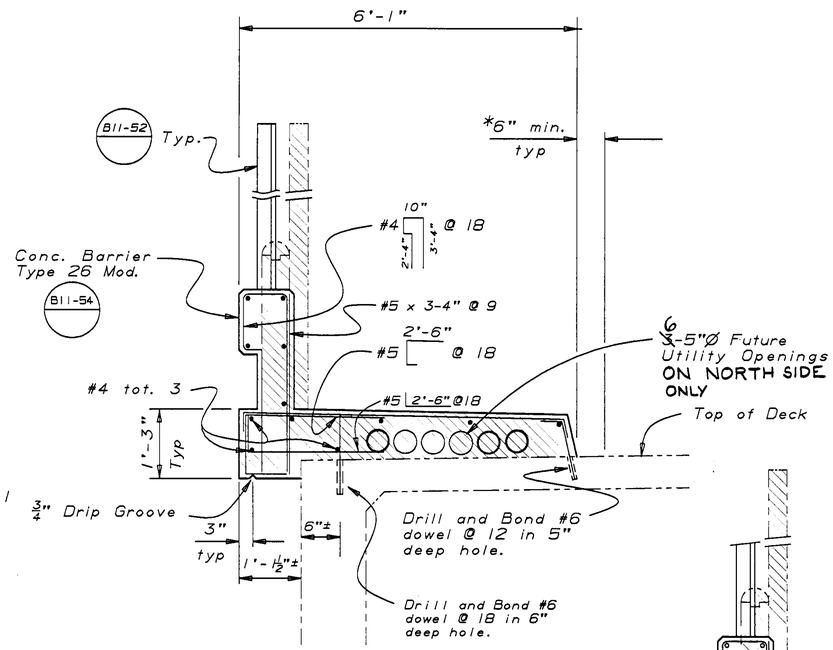
2-4-91
PLANS APPROVAL DATE



For Elevation H-H and Section J-J, see "Barrier Details No. 6" sheet.

Note:
Abutment 1 shown,
Abutment 3 similar, except as noted.
See "Barrier Details No. 6."

PLAN
1/8"=1'-0"



TYPICAL SECTION
3/4"=1'-0"

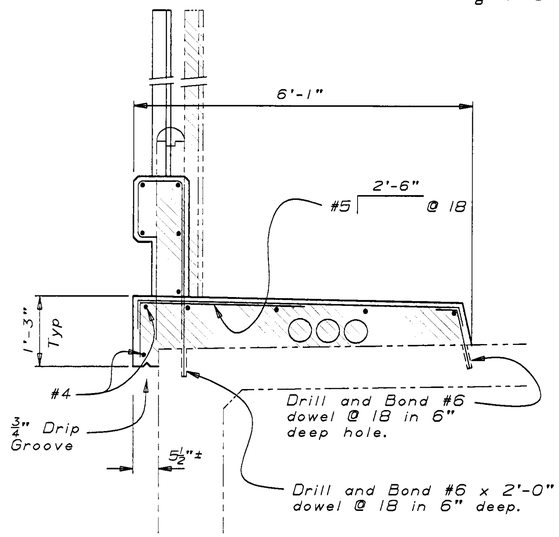
Notes:

* Limits of refinishing bridge deck.

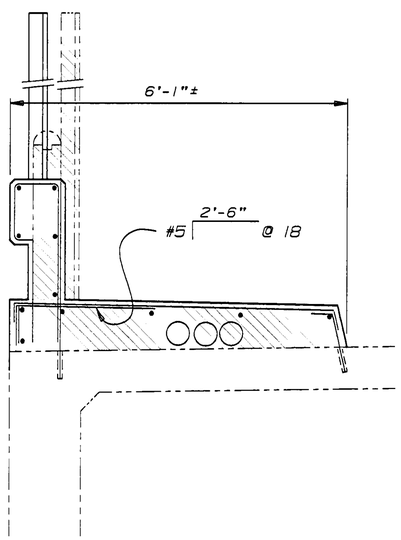
Indicates limits of existing Structure removal.

Indicates existing structure.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

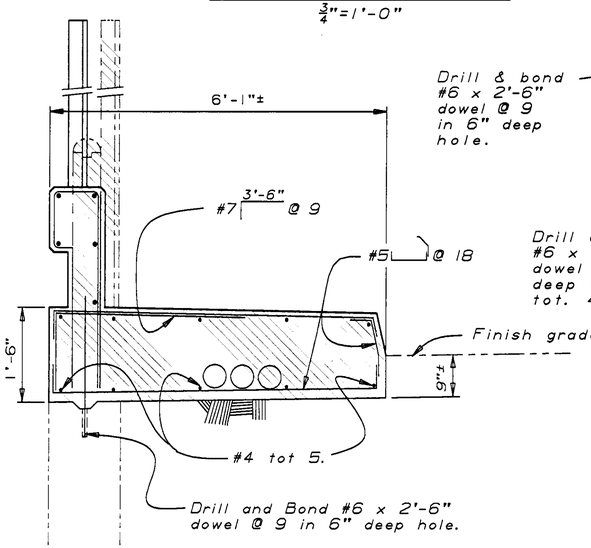


SECTION A-A
3/4"= 1'-0"



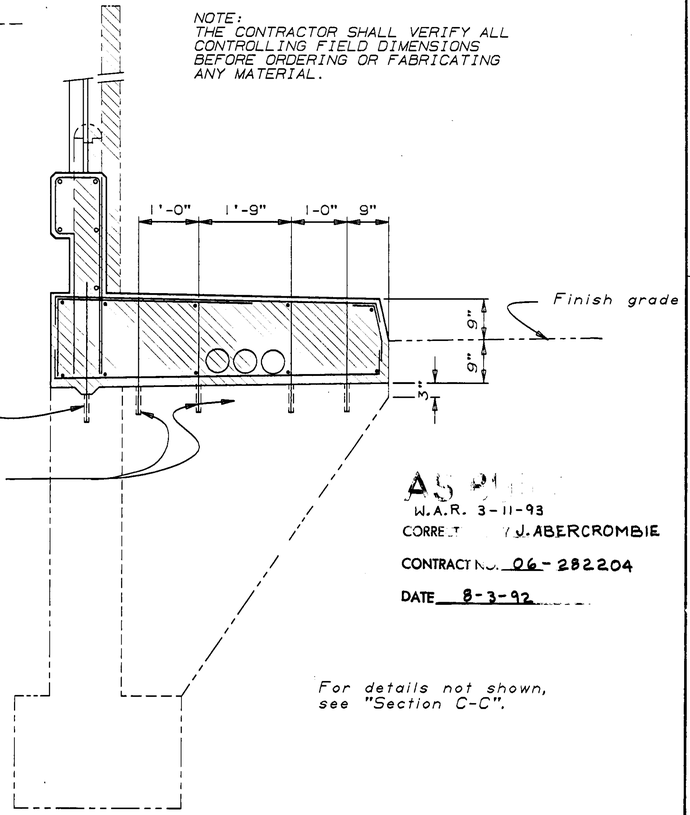
SECTION B-B
3/4"= 1'-0"

For details not shown, see "Section A-A".



SECTION C-C
3/4"= 1'-0"

For details not shown, see "Section A-A".



AS BUILT
W.A.R. 3-11-93
CORRECTED J. ABERCROMBIE
CONTRACT NO. 06-282204
DATE 8-3-92

For details not shown, see "Section C-C".

ELEVATION D-D
3/4"= 1'-0"

WEST YOSEMITE AVE. OVERCROSSING

DESIGN	BY Don Ross	CHECKED G. Joe	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9	BRIDGE NO. 41-49
DETAILS	BY D.A. SANDERSON 7-90	CHECKED G. Joe			POST MILE 10.8
QUANTITIES	BY Don Ross	CHECKED S. Maan			

CONCRETE BARRIER REPLACEMENT
BARRIER DETAILS NO. 5

DS 050 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 7-1-90 | 8-31-90 | 9-28-90 | 9-28-90 | 10-4-90 | 10-15-90 | 12-3-90

SHEET 13 OF 24

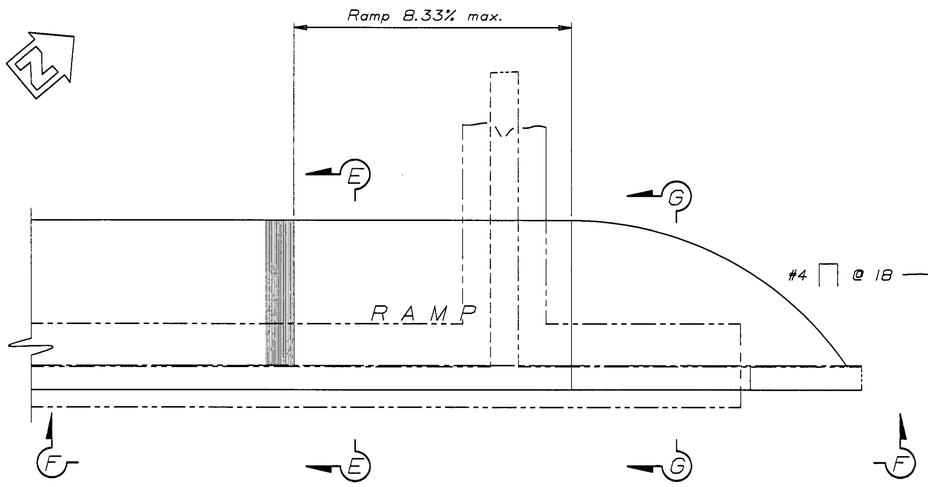
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06.	Fre,Mad	99	20.5/22.4, 9.7/11.0	29	39

REGISTERED ENGINEER - CIVIL

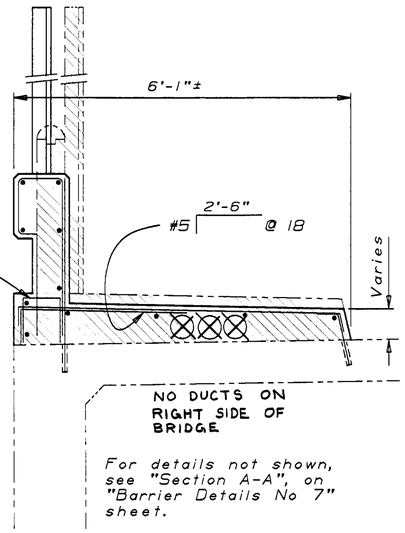
REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE



HALF PLAN - ABUT. 3 RT. SIDE

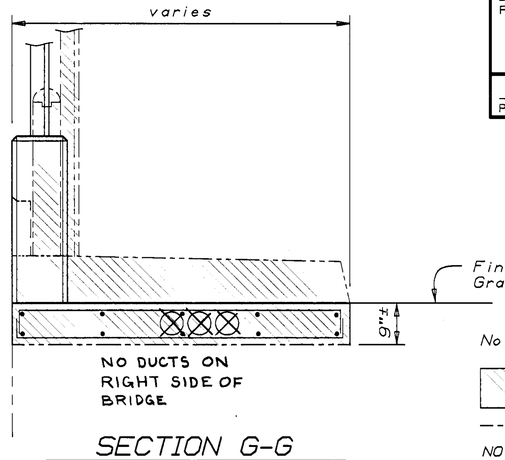
$\frac{3}{8}$"= 1'-0"



For details not shown, see "Section A-A", on "Barrier Details No 7" sheet.

SECTION E-E

$\frac{3}{4}$"= 1'-0"



SECTION G-G

$\frac{3}{4}$"=1'-0"

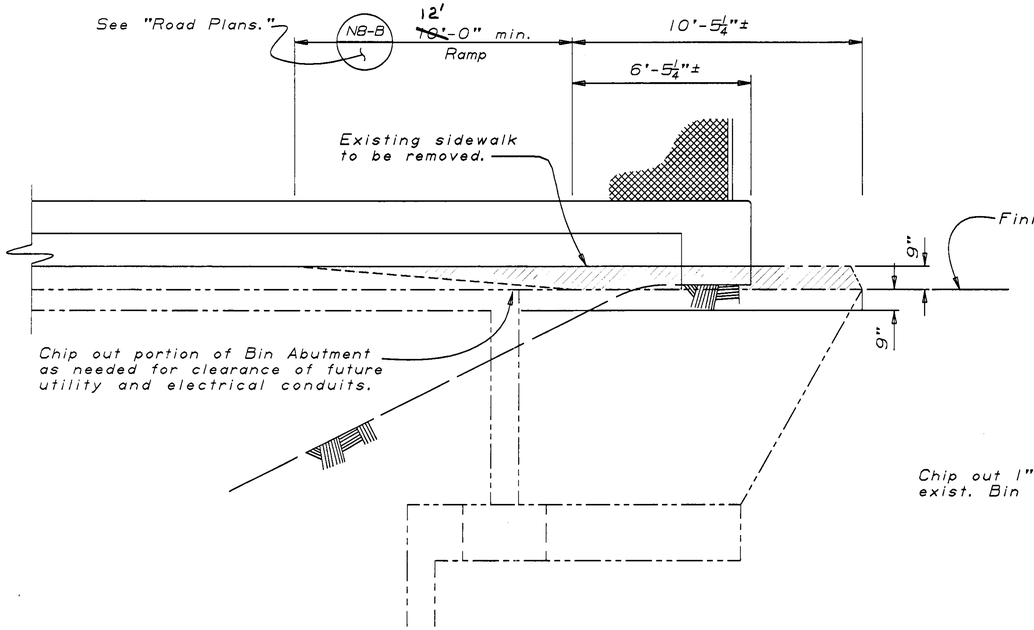
For details not shown, see "Typical Section" on "Barrier Details No.5" sheet.

Notes:

Indicates limits of existing Structure removal.

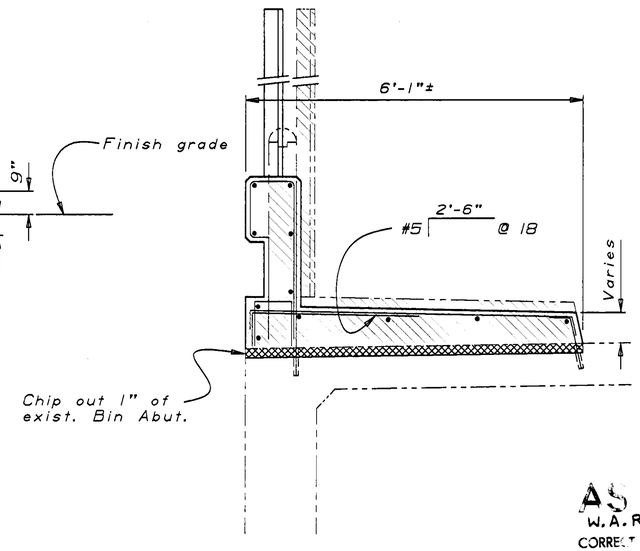
Indicates existing structure.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



ELEVATION F-F

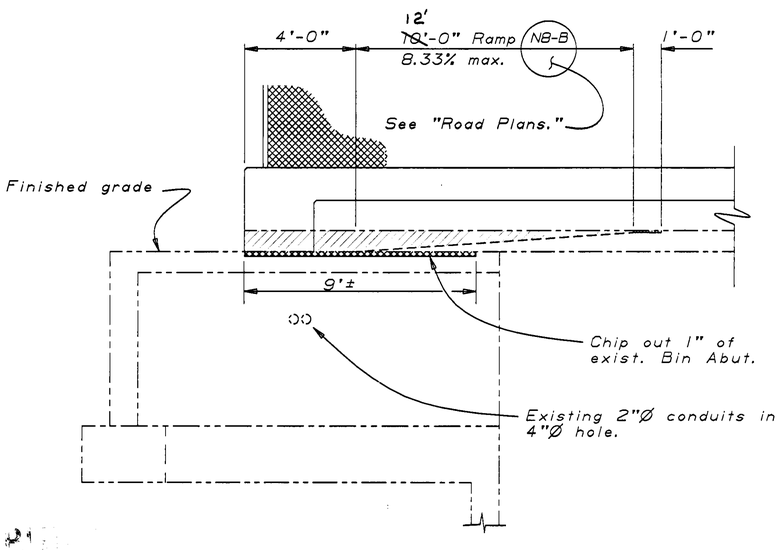
$\frac{3}{8}$"= 1'-0"



SECTION J-J

$\frac{3}{4}$"= 1'-0"

For details not shown, see "Section A-A", on "Barrier Details No 7" sheet.



ELEVATION H-H

$\frac{3}{8}$"= 1'-0"

W.A.R. 3-11-93
CORRECT J. ABERCROMBIE
CONTRACT NO. 06-282204
DATE 8-3-92

WEST YOSEMITE AVE. OVERCROSSING

DESIGN	BY D. ROSS	CHECKED G. JOE	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9	BRIDGE NO. 41-49
DETAILS	BY 9-90	CHECKED G. JOE			POST MILE 10.8
QUANTITIES	BY D. ROSS	CHECKED S. MAAN			

CONCRETE BARRIER REPLACEMENT
BARRIER DETAILS NO. 6

DS 050 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 9-7-90; 9-28-90; 10-3-90; 10-4-90; 10-17-90; 12-3-90

SHEET 14 OF 24

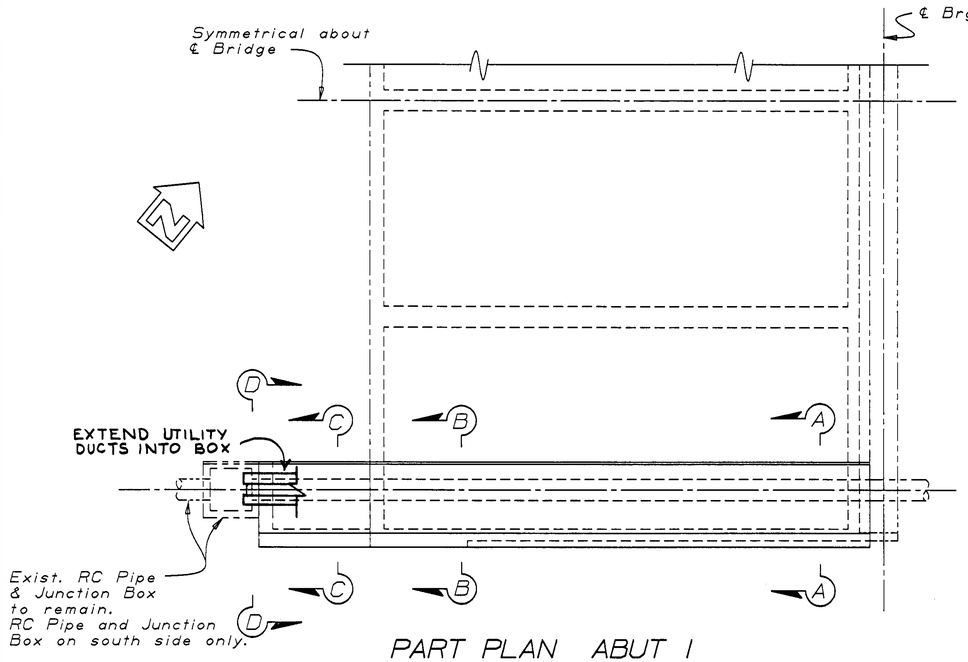
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	30	39

REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

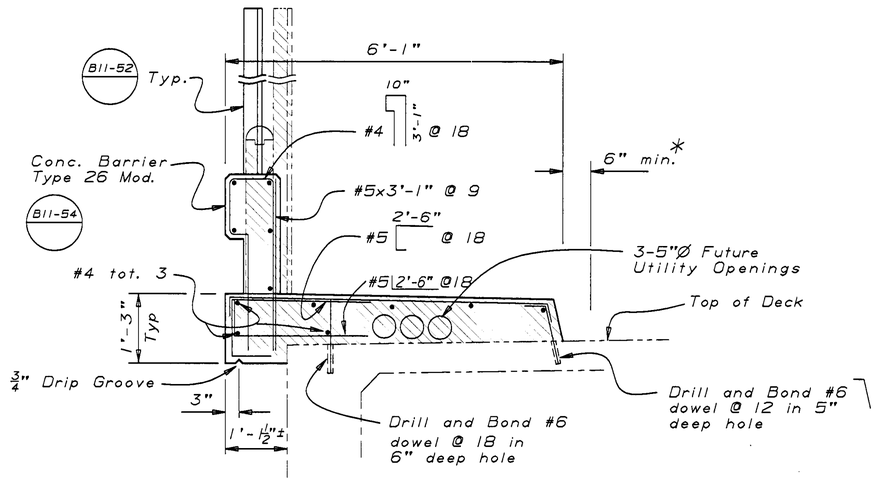
2-4-91
PLANS APPROVAL DATE



PART PLAN ABUT 1

$\frac{3}{16}$"=1'-0"

Abutment 3 similar except as noted, see Barrier Details No. 8 sheet.



TYPICAL SECTION

$\frac{3}{4}$"=1'-0"

(LOOKING BACK ON STATION)

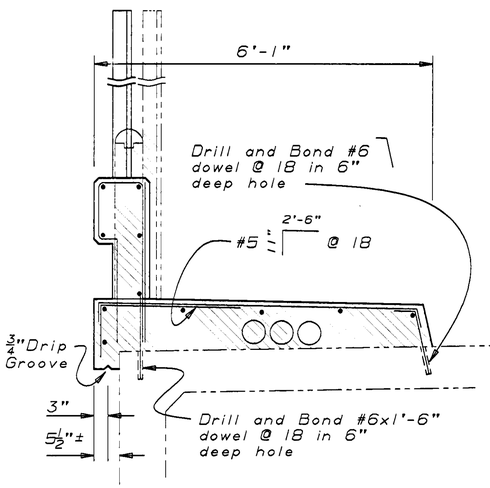
Notes:

* Limits of refinishing bridge deck.

Indicates limits of existing Structure removal.

Indicates existing structure.

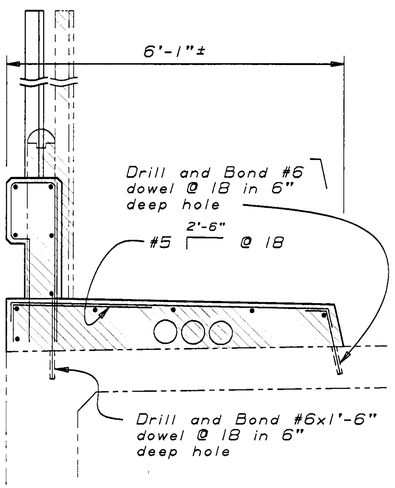
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



SECTION A-A

$\frac{3}{4}$"=1'-0"

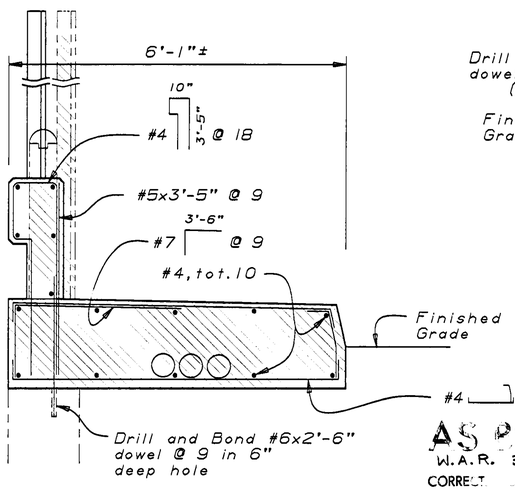
For details not shown see Typical Section



SECTION B-B

$\frac{3}{4}$"=1'-0"

For details not shown see Typical Section

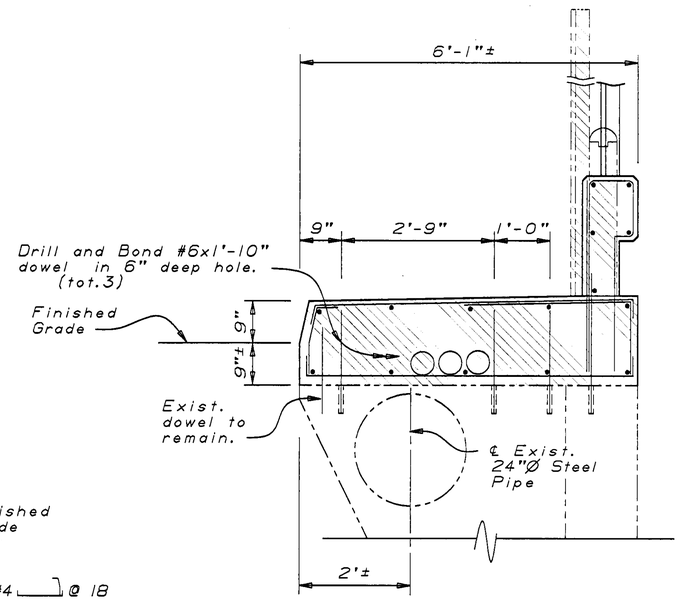


SECTION C-C

$\frac{3}{4}$"=1'-0"

For details not shown see Typical Section

AS PLOTTED
W.A.R. 3-10-93
CORRECTED J. ABERCROMBIE
CONTRACT NO. 06-282204
DATE 8-3-92



VIEW D-D

$\frac{3}{4}$"=1'-0"

For details not shown see Section C-C

WEST FOURTH STREET OVERCROSSING

DESIGN	BY D. Ross 9-90	CHECKED G. Joe 9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9	BRIDGE NO. 41-50
DETAILS	BY L. Good 9-90	CHECKED G. Joe 9-90			POST MILE 11.0
QUANTITIES	BY D. Ross 9-90	CHECKED S. Maan 9-90		CU 06200 EA 282201	

CONCRETE BARRIER REPLACEMENT
BARRIER DETAILS NO. 7

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 9-21-90 | 9-26-90 | 9-28-90 | 10-1-90 | 10-8-90 | 12-3-90

SHEET 15 OF 24

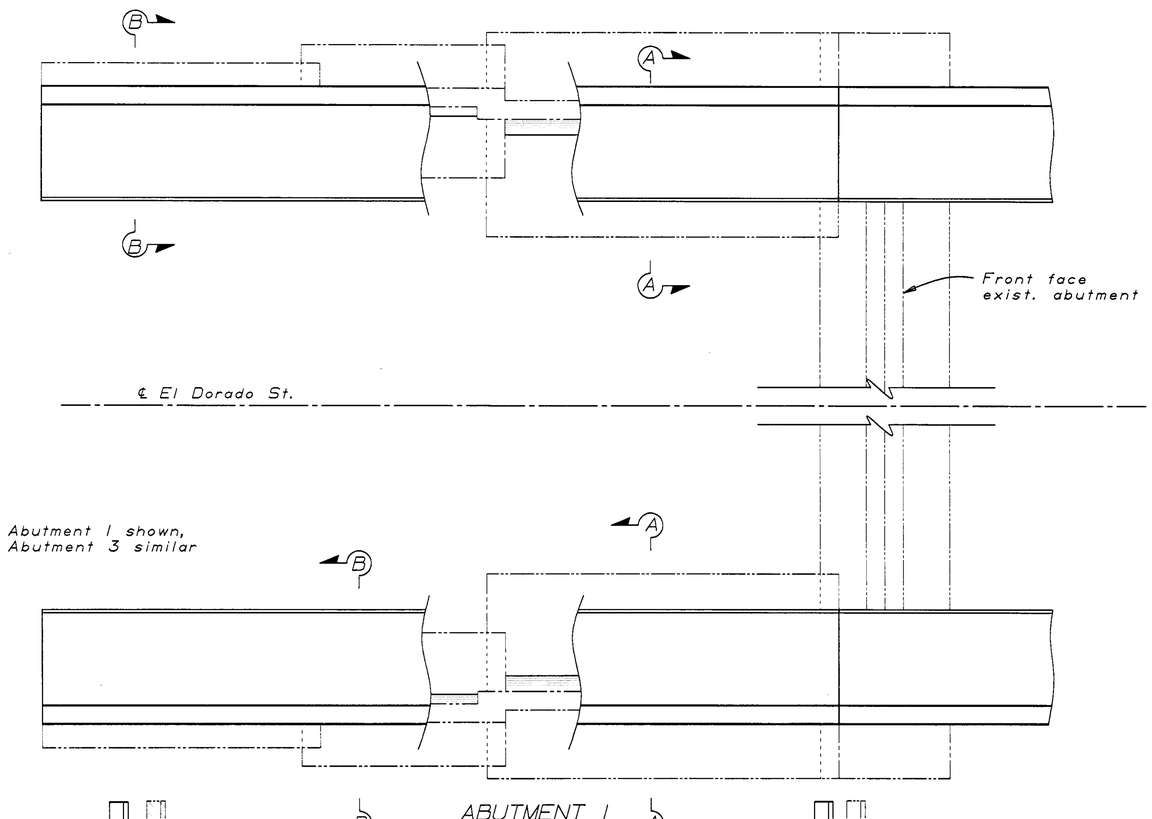
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	33	39

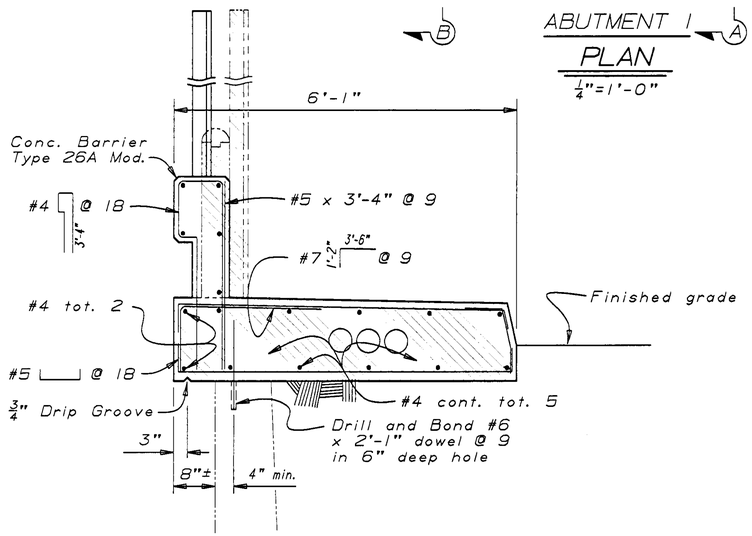
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

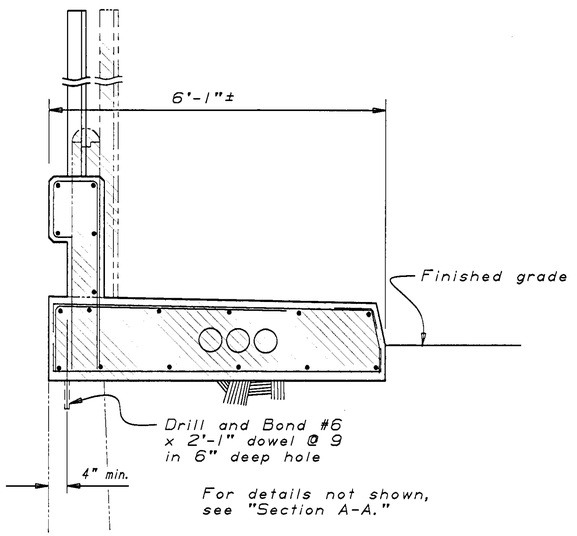
2-4-91
PLANS APPROVAL DATE



ABUTMENT 1
PLAN
1/4"=1'-0"

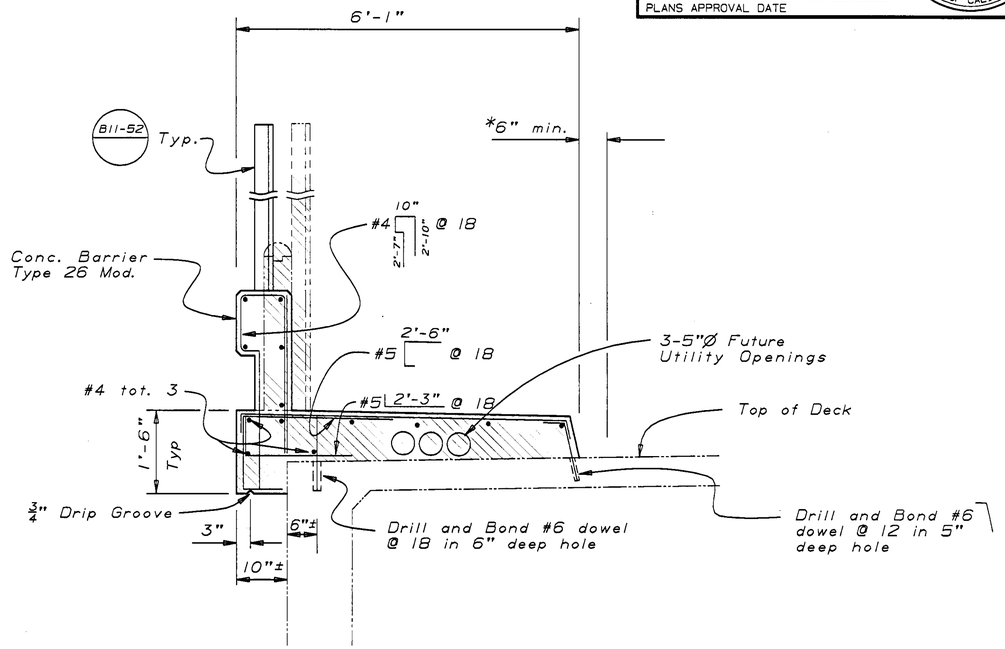


SECTION A-A
3/4"=1'-0"



For details not shown, see "Section A-A."

SECTION B-B
3/4"=1'-0"



TYPICAL SECTION (B11-54)
3/4"=1'-0"

NO CORRECTIONS THIS SHEET

W.A.R. 3-11-93
CORRECTED J. ABERCROMBIE
CONTRACT NO. 06-282204
DATE 8-3-92

Notes:

* Limits of refinishing bridge deck.

Indicates limits of existing Structure removal.

Indicates existing structure.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

EL DORADO STREET OVERCROSSING

DESIGN	BY D. ROSS 9-90	CHECKED G. JOE 9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9
DETAILS	BY D.A. SANDERSON 9-90	CHECKED G. JOE 9-90		
QUANTITIES	BY D. ROSS 9-90	CHECKED S. MAAN 9-90		

BRIDGE NO. 42-184
POST MILE 21.5

CONCRETE BARRIER REPLACEMENT
BARRIER DETAILS NO. 10

DS 050 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 9-11-90 | 9-28-90 | 10-1-90 | 10-4-90 | 10-8-90 | 12-3-90

SHEET 18 OF 24

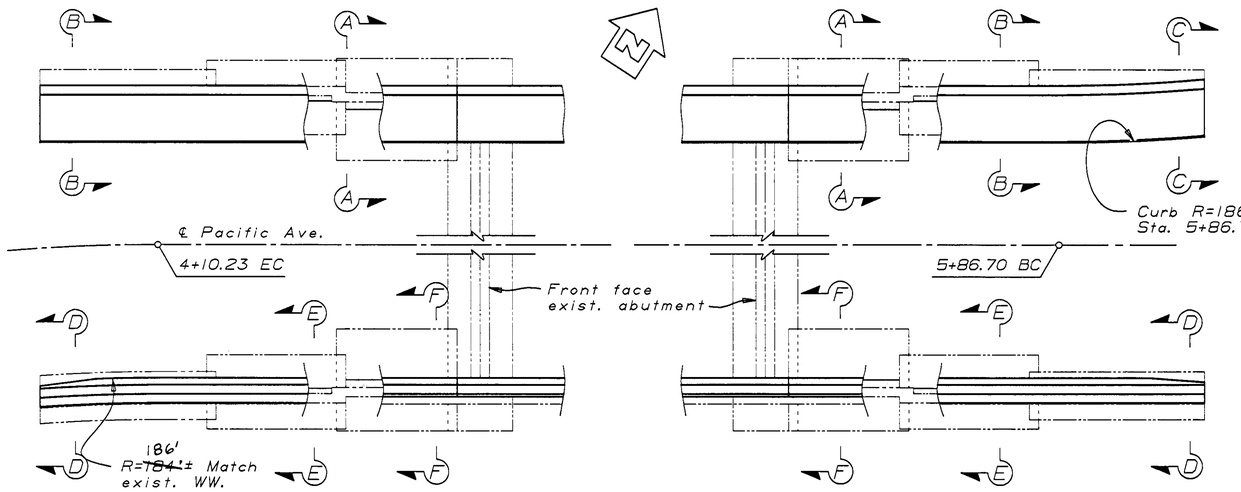
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	34	39

REGISTERED ENGINEER - CIVIL

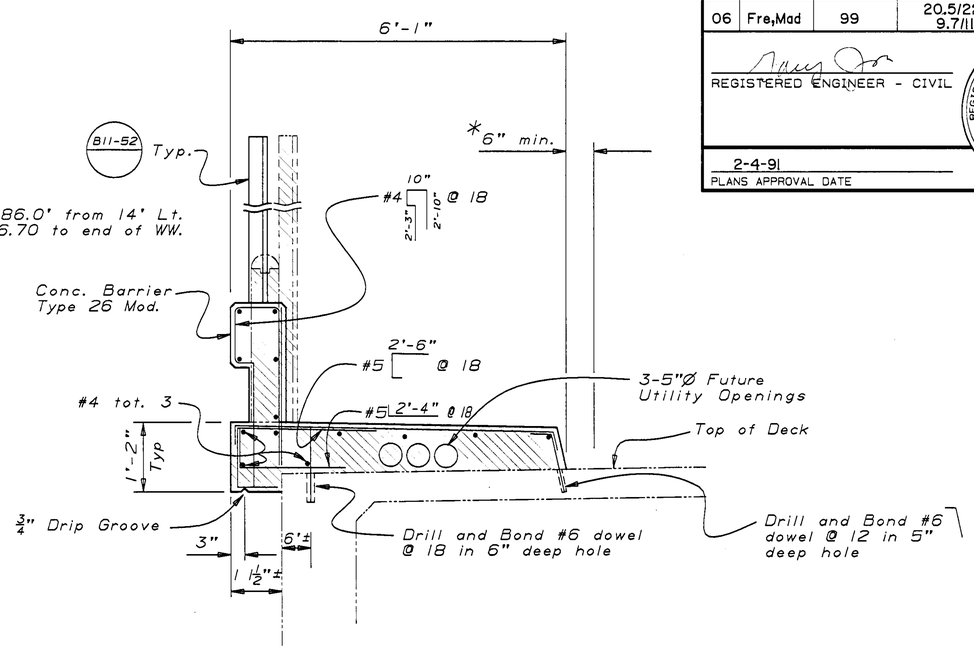
REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE

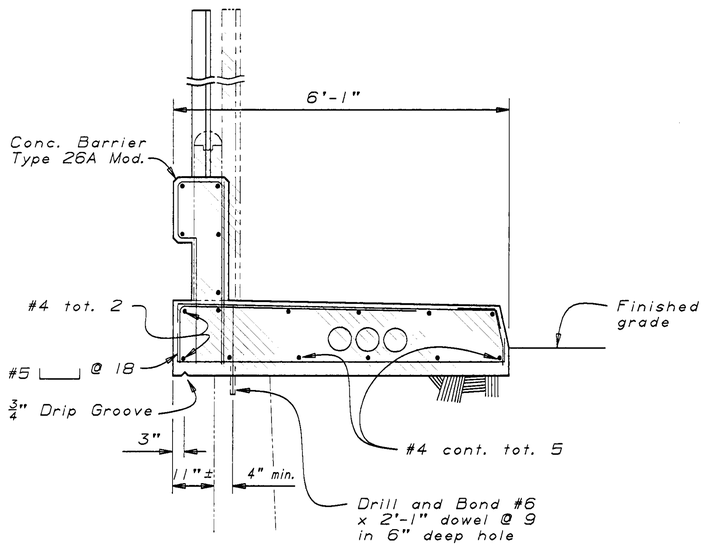


PLAN
1/8"=1'-0"

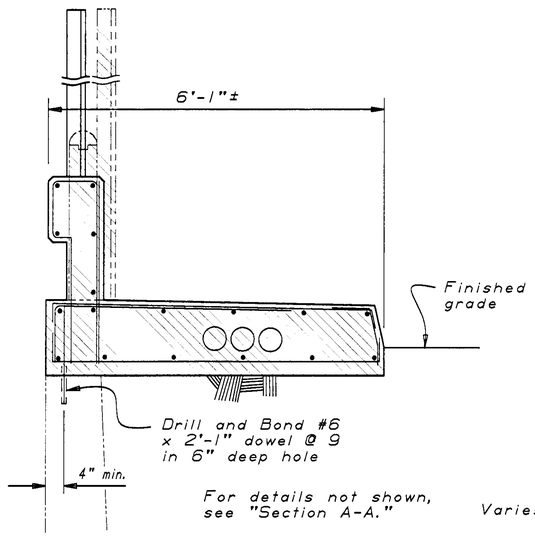
Note:
For Sections D-D, E-E, F-F and Typical Section - Rt. Edge of Deck, see "Barrier Details No. 12" sheet.



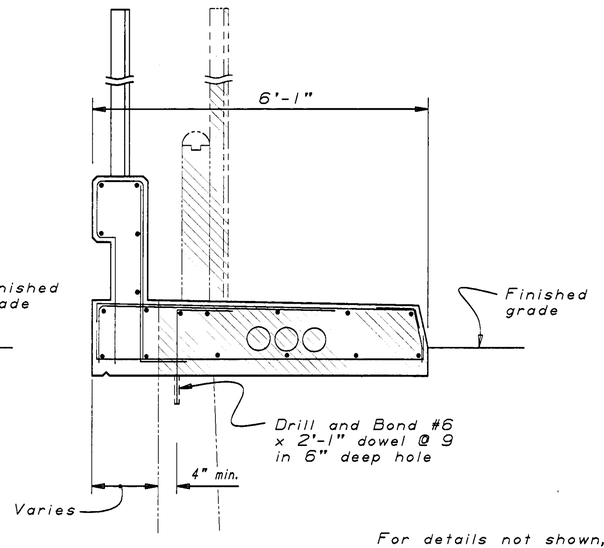
TYPICAL SECTION - LT. EDGE OF DECK B11-54
¾"=1'-0"



SECTION A-A B11-54
¾"=1'-0"



SECTION B-B
¾"=1'-0"



SECTION C-C
¾"=1'-0"

W.A.R 3-11-93
CORRE[illegible] J. ABERCROMBIE
CONTRACT NO. 06-282204
DATE 8-3-92

Notes:

* Limits of refinishing bridge deck.

Indicates limits of existing Structure removal.

Indicates existing structure.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

PACIFIC AVENUE OVERCROSSING

DESIGN	BY D. ROSS 9-90	CHECKED G. JOE 9-90	
DETAILS	BY D.A. SANDERSON 9-90	CHECKED G. JOE 9-90	
QUANTITIES	BY D. ROSS	CHECKED S. MAAN	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 9

CU 06200
EA 282201

BRIDGE NO.	CONCRETE BARRIER REPLACEMENT
42-189	BARRIER DETAILS NO. 11
POST MILE 22.4	

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 9-11-90 | 10-1-90 | 10-8-90 | 10-15-90 | 10-18-90 | 12-3-90

SHEET 19 OF 24

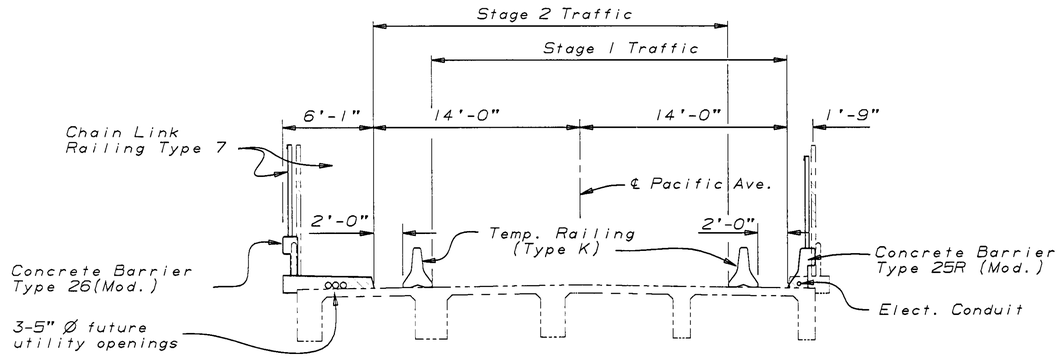
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	23	39

REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE



TYPICAL SECTION

1" = 5'

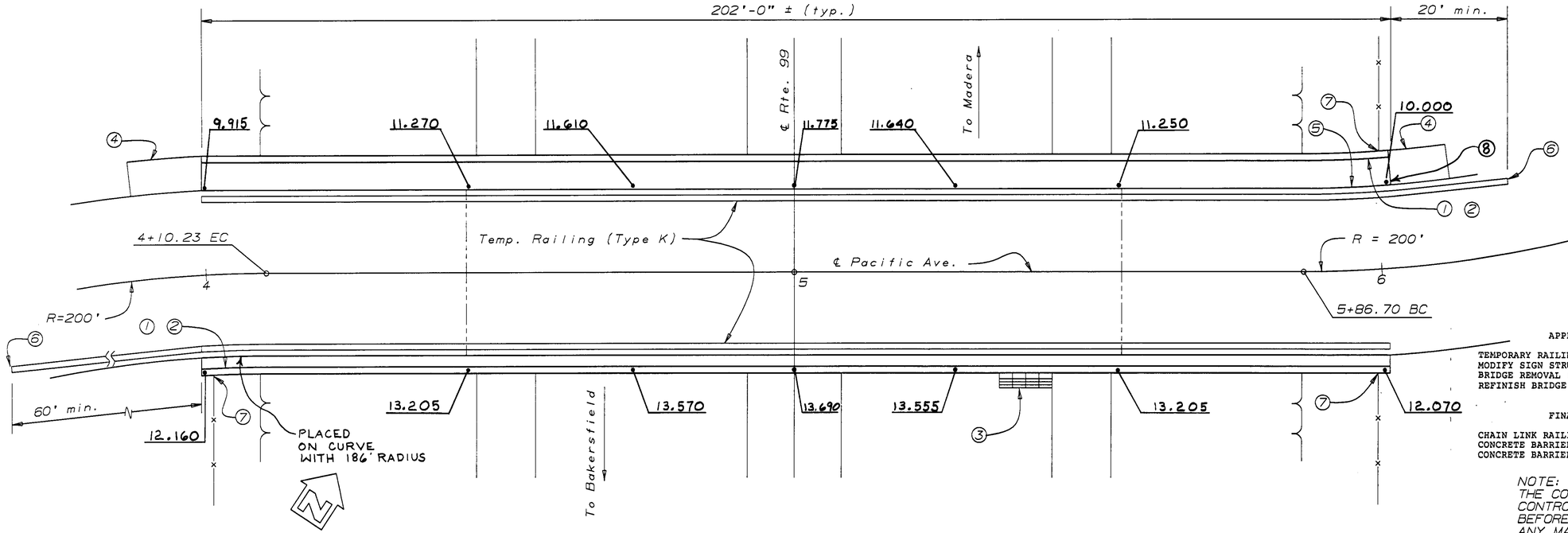
Notes:

1. Paint "Pacific Avenue Overcrossing" and year constructed.
2. Paint "Br. No. 42-189".
3. Remove sign structure prior to construction and reinstall after barrier rails are completed.
4. Construct 6' wide AC ramps at 8.33%, see "Road Plans."
5. Existing sidewalk curb is curved on a radius of 186'± from sta. 5+86.70 to end of wingwall.
6. Temporary Crash Cushion Modules, see "Road Plans."
7. Remove end post of existing Right of Way Fence prior to construction. Replace and reconnect end post and Fence after Barrier Rail is complete.

▨ Indicates limits of existing Structure removal.

– – – – Indicates existing structure.

8. REFERENCE NAILS BASED ON ASSUMED ELEV 10.000 (NE CORNER)



PLAN

1" = 10'

AS BUILT
W.A.R. 3-11-93
CORRECTED BY J. ABERCROMBIE
CONTRACT NO. 06-282204
DATE 8-3-92

APPROXIMATE QUANTITIES

TEMPORARY RAILING (TYPE K)	500 LF
MODIFY SIGN STRUCTURE	1 EA
BRIDGE REMOVAL (PORTION), LOCATION H	LUMP SUM
REFINISH BRIDGE DECK	112 SQFT

FINAL PAY QUANTITIES

CHAIN LINK RAILING (TYPE 7)	406 LF
CONCRETE BARRIER (TYPE 25R MODIFIED)	203 LF
CONCRETE BARRIER (TYPE 26 MODIFIED)	203 LF

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

PACIFIC AVENUE OVERCROSSING

L M Stoke 12-90
DESIGN ENGINEER

DESIGN	BY D. Ross 9-90	CHECKED G. Joe 9-90	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
DETAILS	BY D.A. SANDERSON 7-90	CHECKED G. Joe 9-90	LAYOUT	BY D. Ross 9-90	CHECKED G. Joe 9-90
QUANTITIES	BY D. Ross 9-90	CHECKED S. Maan 9-90	SPECIFICATIONS	BY	PLANS AND SPECS COMPARED

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 9

CU 06200
EA 282201

BRIDGE NO. 42-189
POST MILE 22.4

CONCRETE BARRIER REPLACEMENT
GENERAL PLAN NO. 8

DS OSD 2138 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 7-2-90 | 8-30-90 | 9-11-90 | 9-28-90 | 10-3-90 | 10-5-90 | 10-8-90 | 11-28-90

SHEET 8 OF 24

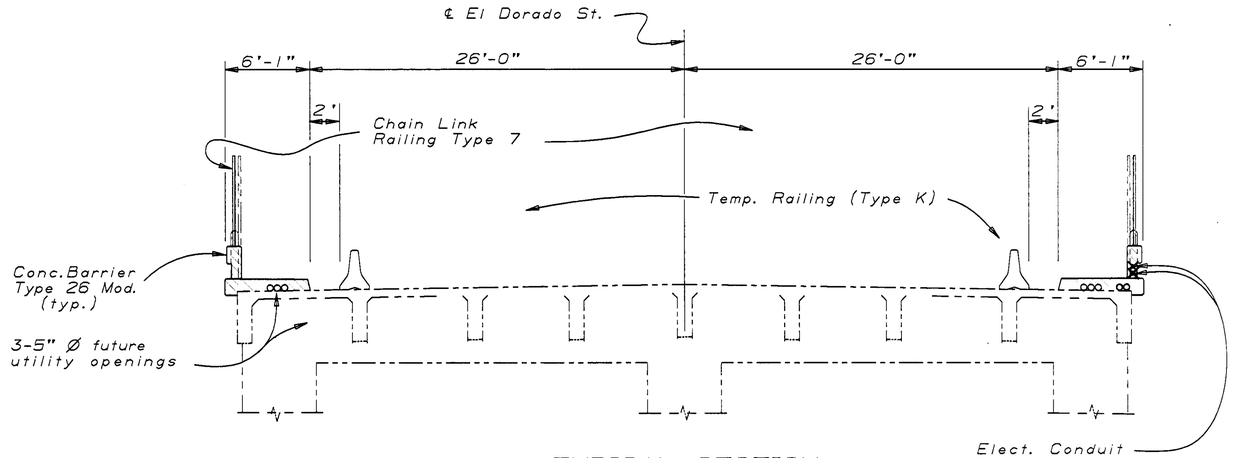
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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	22	39

REGISTERED ENGINEER - CIVIL

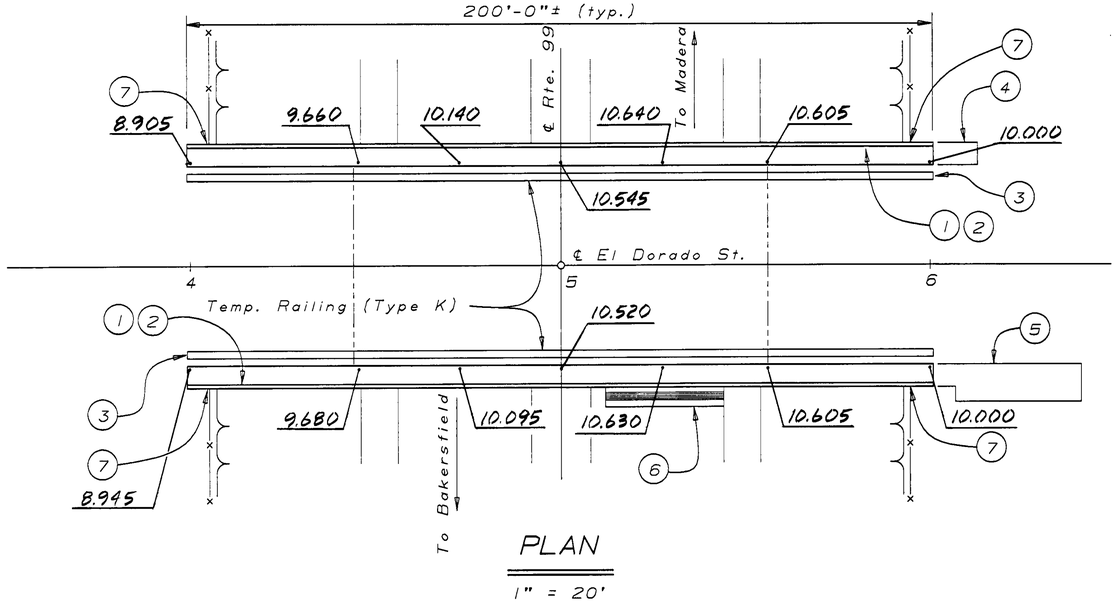
REGISTERED PROFESSIONAL ENGINEER — Gary Joe, No. 36652, Exp. 6-30-92, CIVIL, STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE



TYPICAL SECTION

1" = 5'



PLAN

1" = 20'

AS BUILT
CORRECTED BY D.A.S. 1-15-93 J. Abercrombie
CONTRACT NO. 06-282204
DATE 8-3-92

Notes:

(1) Paint "El Dorado Street Overcrossing" and year constructed.

(2) Paint "Br. No. 42-184".

(3) Temporary Crash Cushion Modules, see "Road Plans."

(4) Construct 6' wide AC ramp at 8.33%, see "Road Plans."

(5) Construct PCC sidewalk, see "Road Plans."

(6) Remove sign structure prior to construction and reinstall after barrier rails are completed.

(7) Remove end post of Right of Way Fence prior to construction. Replace and reconnect end post and Fence after Barrier Rail is complete.

▨ Indicates limits of existing Structure removal.

– – – – Indicates existing structure.

(8) Reference nails based on Assumed Elev. 10.000 (NE Corner)

APPROXIMATE QUANTITIES

TEMPORARY RAILING (TYPE K)	400 LF
MODIFY SIGN STRUCTURE	1 EA
BRIDGE REMOVAL (PORTION), LOCATION G	LUMP SUM
REFINISH BRIDGE DECK	112 SQFT

FINAL PAY QUANTITIES

CHAIN LINK RAILING (TYPE 7)	399 LF
CONCRETE BARRIER (TYPE 26 MODIFIED)	399 LF

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

EL DORADO STREET OVERCROSSING

L M Storke 12-90
DESIGN ENGINEER

	BY		CHECKED	
DESIGN	D. Ross	9-90	G. Jos	9-90
DETAILS	Flo Callum	5-90	G. Joe	9-90
QUANTITIES	D. Ross	9-90	S. Maan	9-90

LOAD FACTOR DESIGN — LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD

	BY		CHECKED	
LAYOUT	D. Ross	9-90	G. Joe	9-90
SPECIFICATIONS	R.J. Cochrane		PLANS AND SPECS COMPARED	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 9

BRIDGE NO. 42-184
POST MILE 21.5

CONCRETE BARRIER REPLACEMENT
GENERAL PLAN NO. 7

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 5-24-90 | 6-1-90 | 8-30-90 | 9-11-90 | 9-14-90 | 9-27-90 | 10-1-90 | 10-9-90 | 11-27-90

SHEET 7 OF 24

DS OSD 2138 (CADD 4/89)

ClibPDF - www.fastio.com

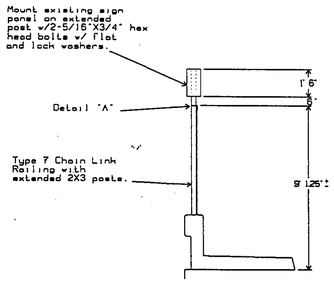
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	21	39

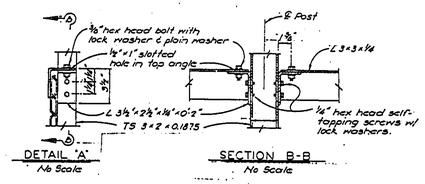
REGISTERED ENGINEER - CIVIL

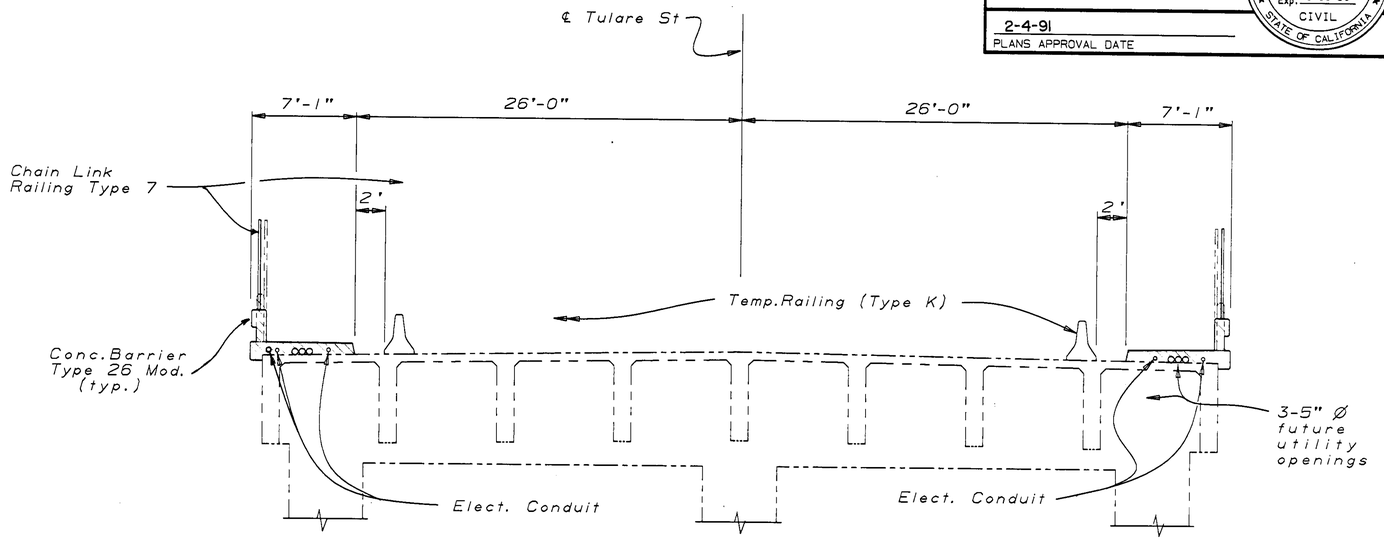
Gary Joe
No. 36652
Exp. 6-30-90
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE

CCO #3

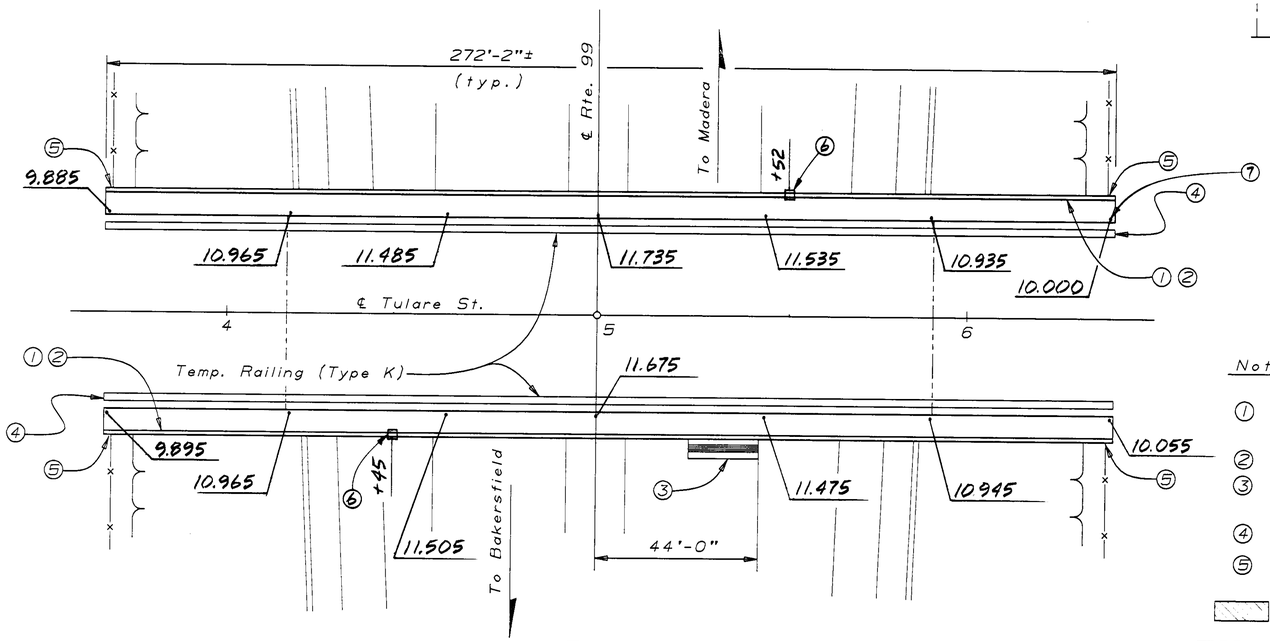






TYPICAL SECTION

1" = 5'



PLAN

1" = 20'

AS BUILT
CORRECTED BY D.A.S. 1-15-93 J Abercrombie
CONTRACT NO. 06-282204
DATE 8-3-92

APPROXIMATE QUANTITIES

TEMPORARY RAILING (TYPE K)	560	LF
REMOVE SIGN STRUCTURE	1	EA
BRIDGE REMOVAL (PORTION), LOCATION F	LUMP	SUM
REFINISH BRIDGE DECK	175	SQFT
FURNISH SIGN STRUCTURE (BRIDGE MOUNTED WITH WALKWAY)	1,205	LB
INSTALL SIGN STRUCTURE (BRIDGE MOUNTED WITH WALKWAY)	1,205	LB

FINAL PAY QUANTITIES

CHAIN LINK RAILING (TYPE 7)	546	LF
CONCRETE BARRIER (TYPE 26 MODIFIED)	546	LF

Notes:

1. Paint "Tulare Street Overcrossing" and year constructed.
2. Paint "Br. No. 42-169".
3. Remove existing sign structure prior to construction. Install new sign structure after Barrier Rail is completed.
4. Temporary Crash Cushion Modules, see "Road Plans."
5. Remove end post of existing Right of Way Fence prior to construction. Replace and reconnect end post and Fence after Barrier Rail is complete.

▨ Indicates limits of existing Structure removal.

– – – – Indicates existing structure.

6. Road sign mounted on 2x3 steel post of Type 7 fencing See details above. CCO #3 (No Parking Signs)
7. Reference nails based on Assumed Elev. 10.000 (NE Corner)

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

TULARE STREET OVERCROSSING

L M Stolis 12-30
DESIGN ENGINEER

DESIGN	BY D. Ross 9-90	CHECKED G. Joe 9-90	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
DETAILS	BY Flo Collum 5-90	CHECKED G. Joe 9-90	LAYOUT	BY D. Ross 9-90	CHECKED G. Joe 9-90
QUANTITIES	BY D. Ross 9-90	CHECKED S. Maan 9-90	SPECIFICATIONS	BY R. J. Abercrombie	PLANS AND SPECS COMPARED R. L. Baker

DS OSD 2138 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 9

CU 06200
EA 282201

BRIDGE NO. 42-169
POST MILE 20.6

CONCRETE BARRIER REPLACEMENT
GENERAL PLAN NO. 6

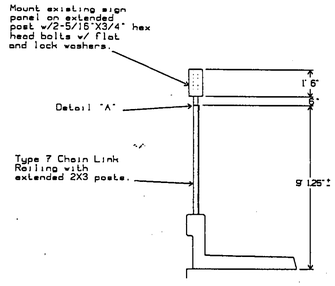
DISREGARD PRINTS BEARING EARLIER REVISION DATES →

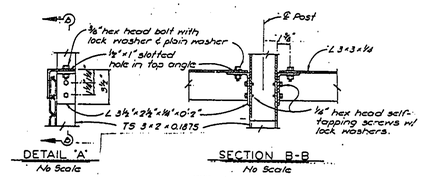
REVISION DATES (PRELIMINARY STAGE ONLY): 5-21-90 | 6-13-90 | 8-30-90 | 9-10-90 | 9-13-90 | 9-27-90 | 10-5-90 | 11-27-90

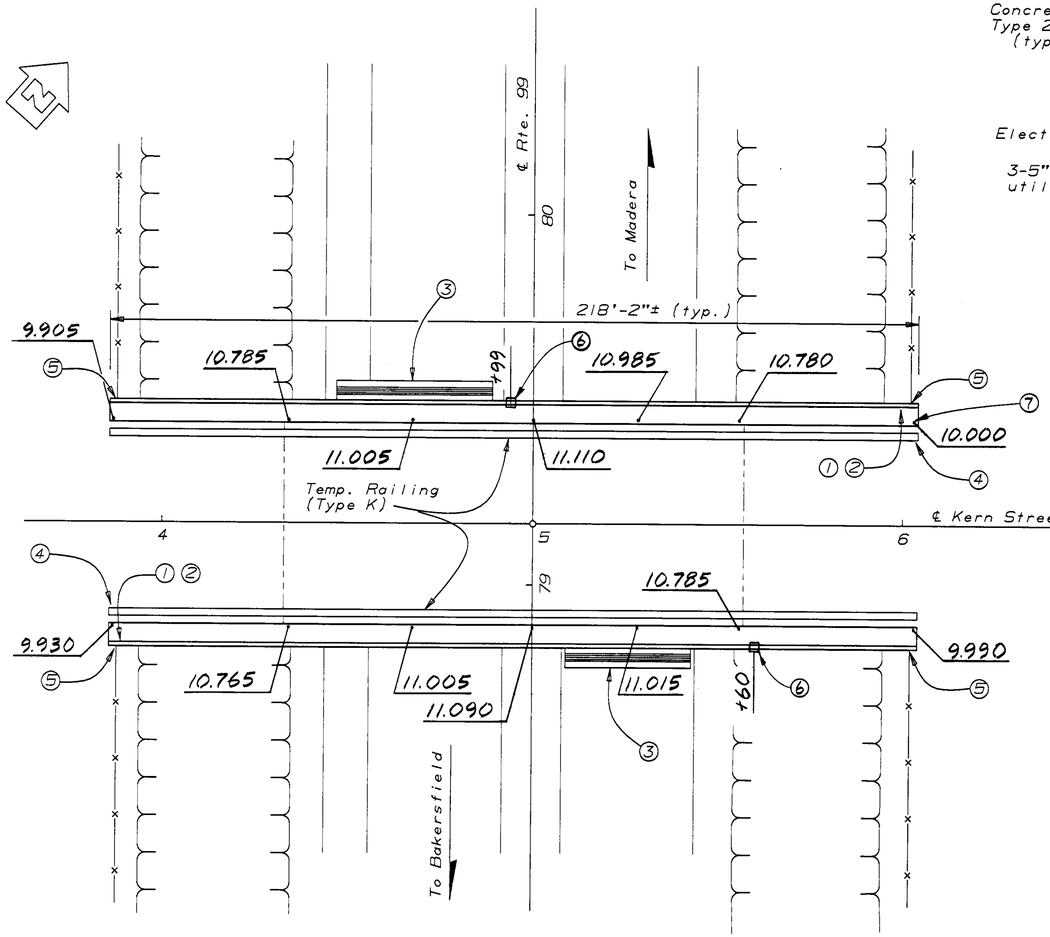
SHEET 6 OF 24

ClibPDF - www.fastio.com

CCO #3

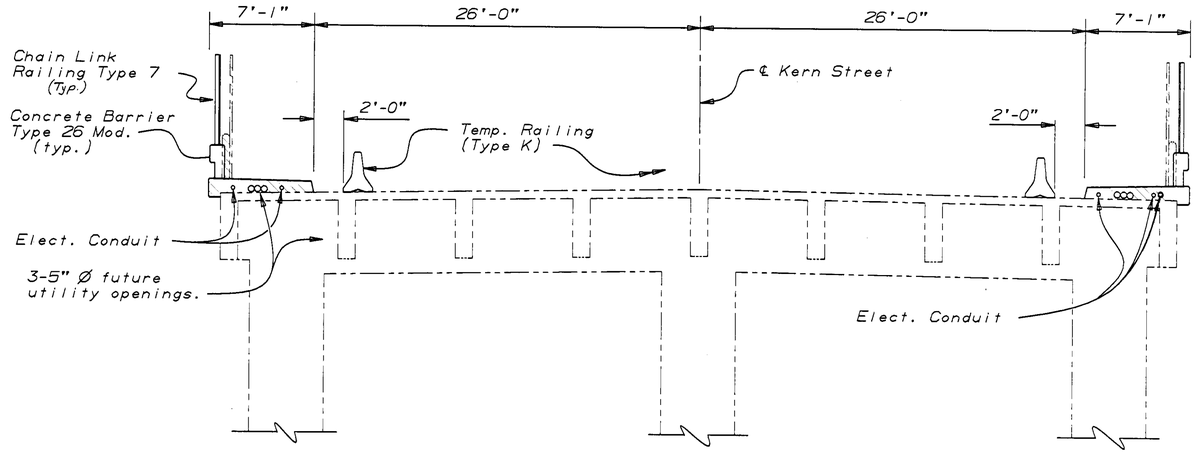






PLAN

1"=20'



TYPICAL SECTION

1"=5'

AS BUILT
D.A.S. 1-15-92
CORRECTED BY J. Abercrombie
CONTRACT NO. 06-282204
DATE 8-3-92

Notes:

1. Paint "Kern Street Overcrossing" and year constructed.
2. Paint "Br. No. 42-159".
3. Remove sign structures prior to construction and reinstall after barrier rails are completed.
4. Temporary Crash Cushion Modules, see "Road Plans."
5. Remove end post of existing Right of Way Fence prior to construction. Replace and reconnect end post and Fence after Barrier Rail is completed.

▨ Indicates limits of existing Structure removal.

– – – – Indicates existing structure.

6. Road sign mounted on 2x3 steel post of Type 7 fencing See details above. CCO #3 (No Parking Signs)
7. Reference nails based on Assumed Elev. 10.000 (NE Corner)

APPROXIMATE QUANTITIES

TEMPORARY RAILING (TYPE K)	440 LF
MODIFY SIGN STRUCTURE	2 EA
BRIDGE REMOVAL (PORTION), LOCATION E	LUMP SUM
REFINISH BRIDGE DECK	125 SQFT

FINAL PAY QUANTITIES

CHAIN LINK RAILING (TYPE 7)	437 LF
CONCRETE BARRIER (TYPE 26 MODIFIED)	437 LF

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

KERN STREET OVERCROSSING

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	20	39

REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE

J. M. Stolin 12-90
DESIGN ENGINEER

DESIGN	BY D. Ross 9-90	CHECKED G. Joe 9-90	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
DETAILS	BY D.A. SANDERSON 7-90	CHECKED G. Joe 9-90	LAYOUT	BY D. Ross 9-90	CHECKED G. Joe 9-90
QUANTITIES	BY D. Ross 9-90	CHECKED S. Maan 9-90	SPECIFICATIONS	BY R. J. Anderson	PLANS AND SPECS COMPARED R. J. Anderson

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 9

BRIDGE NO. 42-159
POST MILE 20.5

CONCRETE BARRIER REPLACEMENT
GENERAL PLAN NO. 5

DS OSD 2138 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 7-5-90 | 8-10-90 | 9-7-90 | 9-14-90 | 9-27-90 | 10-5-90 | 10-15-90 | 10-25-90 | 11-27-90

SHEET 5 OF 24

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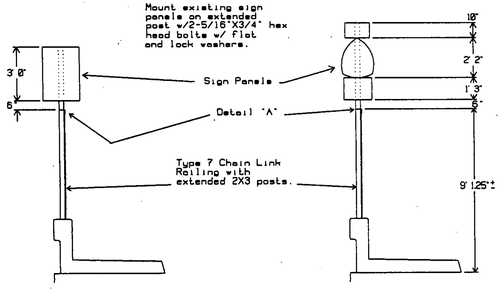
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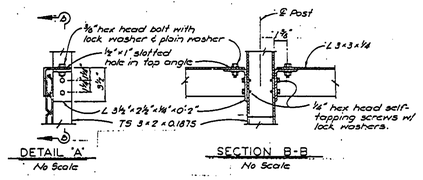
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	19	39

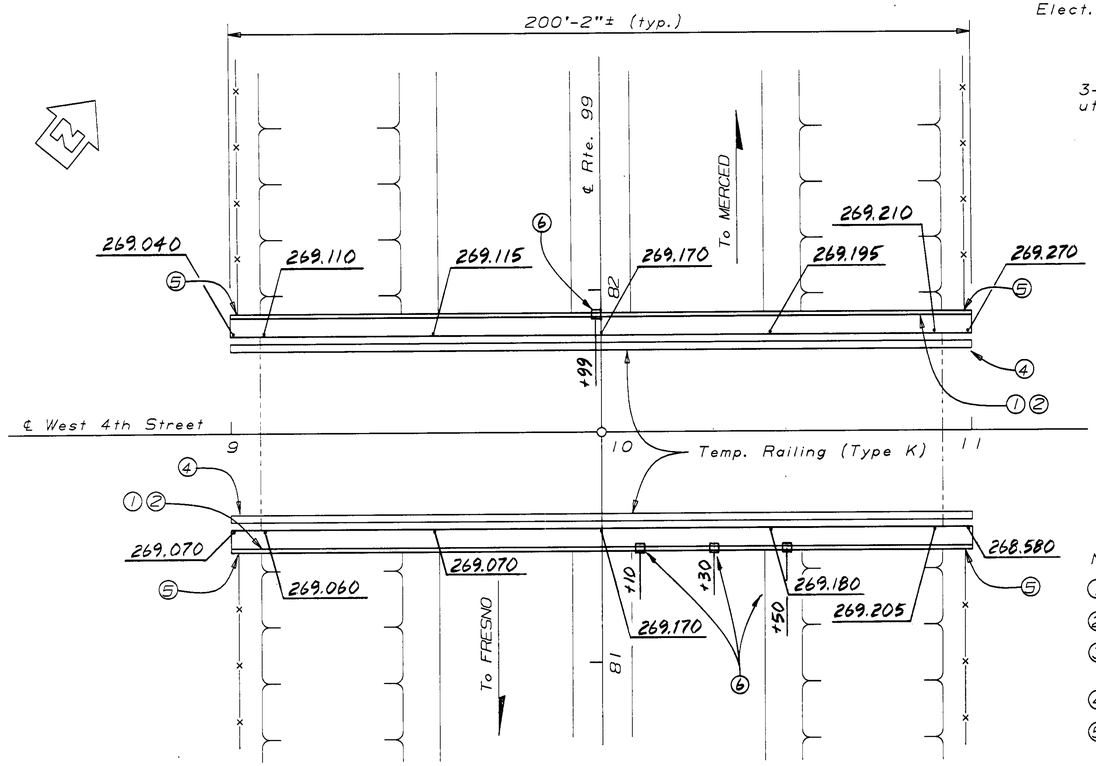
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036852 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

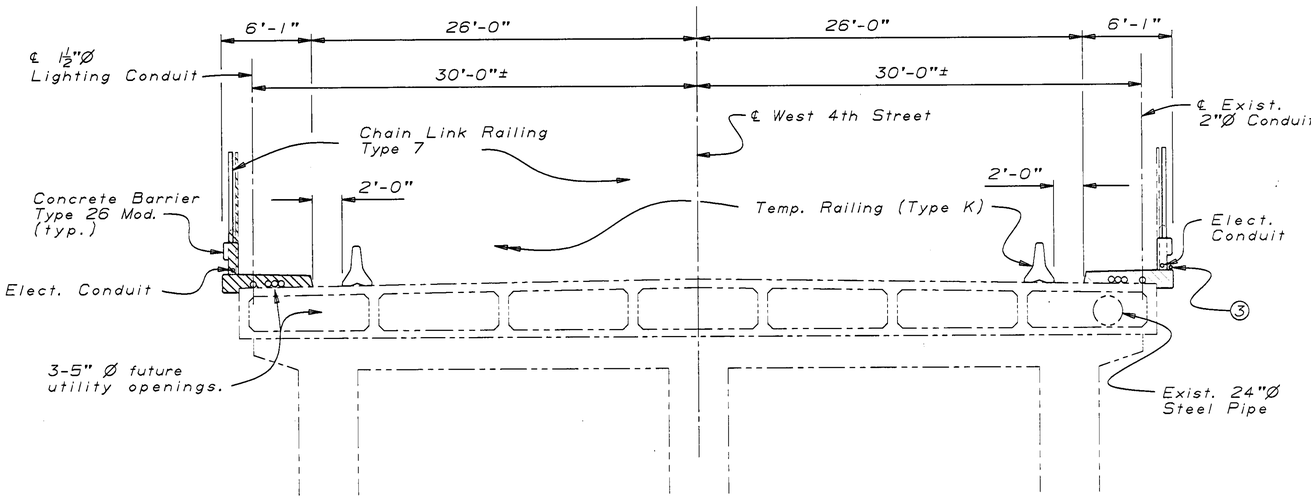
2-4-91
PLANS APPROVAL DATE







PLAN
1"=20'



TYPICAL SECTION
1"=5'

AS BUILT DAS. 1-14-93
CORRECTIONS BY J. Abercrombie
CONTRACT NO. 06-282204
DATE 8-3-92

APPROXIMATE QUANTITIES

TEMPORARY RAILING (TYPE K)	400 LF
BRIDGE REMOVAL (PORTION), LOCATION D	LUMP SUM
REFINISH BRIDGE DECK	185 SQFT

FINAL PAY QUANTITIES

CHAIN LINK RAILING (TYPE 7)	401 LF
CONCRETE BARRIER (TYPE 26 MODIFIED)	401 LF

Notes:

① Paint "West 4th Street Overcrossing" and year constructed.

② Paint "Br. No. 41-50".

③ Remove existing electrical conduit prior to construction. Provide temporary electrical conduit during construction.

④ Temporary Crash Cushion Modules, see "Road Plans."

⑤ Remove end post of existing Right of Way Fence prior to construction. Replace and reconnect end post and Fence after Barrier Rail is complete.

▭ Indicates limits of existing Structure removal.

---- Indicates existing structure.

⑥ Road sign mounted on 2x3 steel post of Type 7 fencing
See details above
Sign at 9+97: "TO 99 SOUTH ←"
10+10: "TO 99 NORTH →"
Sign at 10+30 "Trucks over 60.00 Gross No Left Turn"
10+50: "No Right Turn"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

WEST FOURTH STREET OVERCROSSING

DESIGN	BY D. Ross 9-90	CHECKED G. Joe 9-90	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9
DETAILS	BY D.A. SANDERSON 7-90	CHECKED G. Joe 9-90	LAYOUT	BY D. Ross 9-90	CHECKED G. Joe 9-90		
QUANTITIES	BY D. Ross 9-90	CHECKED S. Maan 9-90	SPECIFICATIONS	BY	PLANS AND SPECS COMPARED		

I M Stoelin 12-90
DESIGN ENGINEER

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

BRIDGE NO. 41-50
POST MILE 11.0

CONCRETE BARRIER REPLACEMENT
GENERAL PLAN NO. 4

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 7-12-90 | 9-7-90 | 9-14-90 | 9-27-90 | 10-1-90 | 10-5-90 | 10-15-90 | 11-5-90 | 11-27-90

SHEET 4 OF 24

DS OSD 2138 (CADD 4/89)

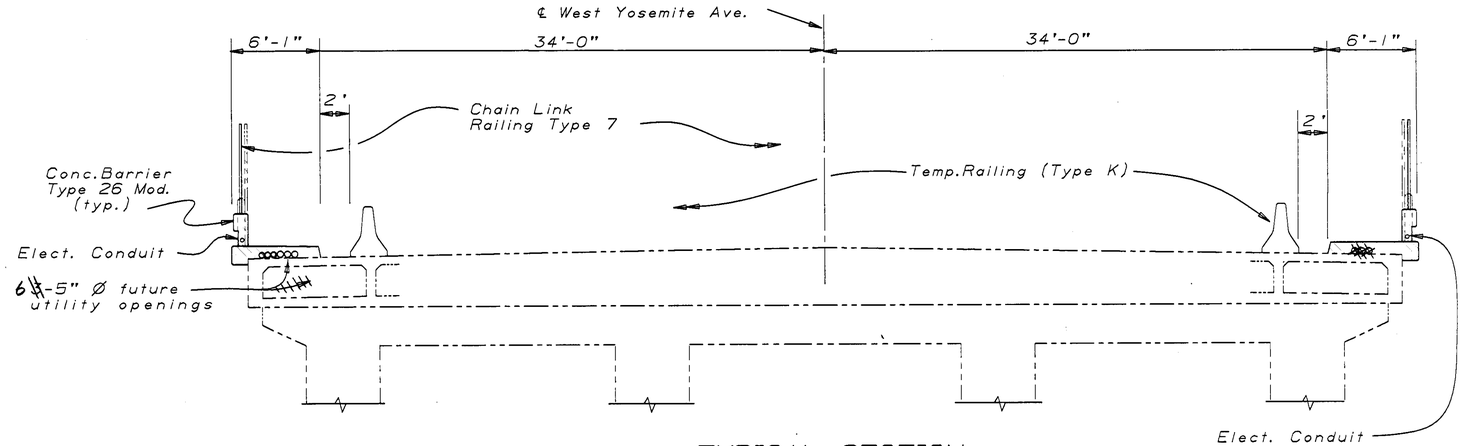
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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	18	39

REGISTERED ENGINEER - CIVIL

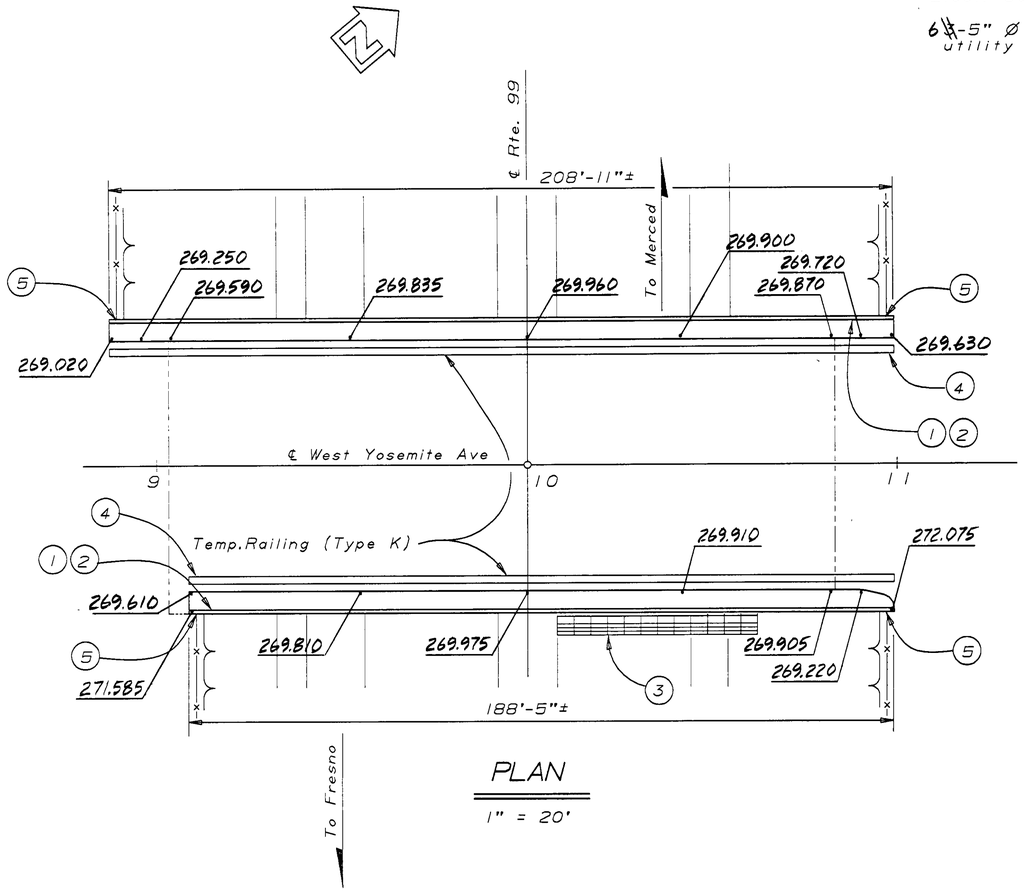
REGISTERED PROFESSIONAL ENGINEER — Gary Joe, No. 36652, Exp. 6-30-92, CIVIL, STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE



TYPICAL SECTION

1" = 5'



PLAN

1" = 20'

AS BUILT
CORRECTED BY J. Abercrombie DAS 12-8-92
CONTRACT NO. 06-282204
DATE 8-3-92

Notes:

1. Paint "West Yosemite Ave. Overcrossing" and year constructed.
2. Paint "Br. No. 41-49".
3. Remove sign structure prior to construction and reinstall after barrier rails are completed.
4. Temporary Crash Cushion Modules, see "Road Plans."
5. Remove end post of existing Right of Way Fence prior to construction. Replace and reconnect end post and Fence after Barrier Rail is complete.

▨ Indicates limits of existing Structure removal.

– – – – Indicates existing structure.

APPROXIMATE QUANTITIES

TEMPORARY RAILING (TYPE K)	420 LF
MODIFY SIGN STRUCTURE	1 EA
BRIDGE REMOVAL (PORTION), LOCATION C	LUMP SUM
REFINISH BRIDGE DECK	181 SQFT

FINAL PAY QUANTITIES

CHAIN LINK RAILING (TYPE 7)	398 LF
CONCRETE BARRIER (TYPE 26 MODIFIED)	398 LF

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

WEST YOSEMITE AVENUE OVERCROSSING

I m Stahl 12-90
DESIGN ENGINEER

DESIGN	BY D. Ross 9-90	CHECKED G. Joe 9-90	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD			
DETAILS	BY Flo Callen 5-90	CHECKED G. Joe 9-90	LAYOUT	BY D. Ross 9-90	CHECKED G. Joe 9-90		
QUANTITIES	BY D. Ross 9-90	CHECKED S. Maan 9-90	SPECIFICATIONS	BY R. J. Parkinson	PLANS AND SPECS COMPARED R. J. Parkinson		

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 9

CU 06200
EA 282201

BRIDGE NO. 41-49
POST MILE 10.8

CONCRETE BARRIER REPLACEMENT
GENERAL PLAN NO. 3

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)										SHEET	OF
5-21-90	6-1-90	6-13-90	8-10-90	9-7-90	9-13-90	9-27-90	10-1-90	10-5-90	11-27-90	3	24

DS OSD 2138 (CADD 4/89)

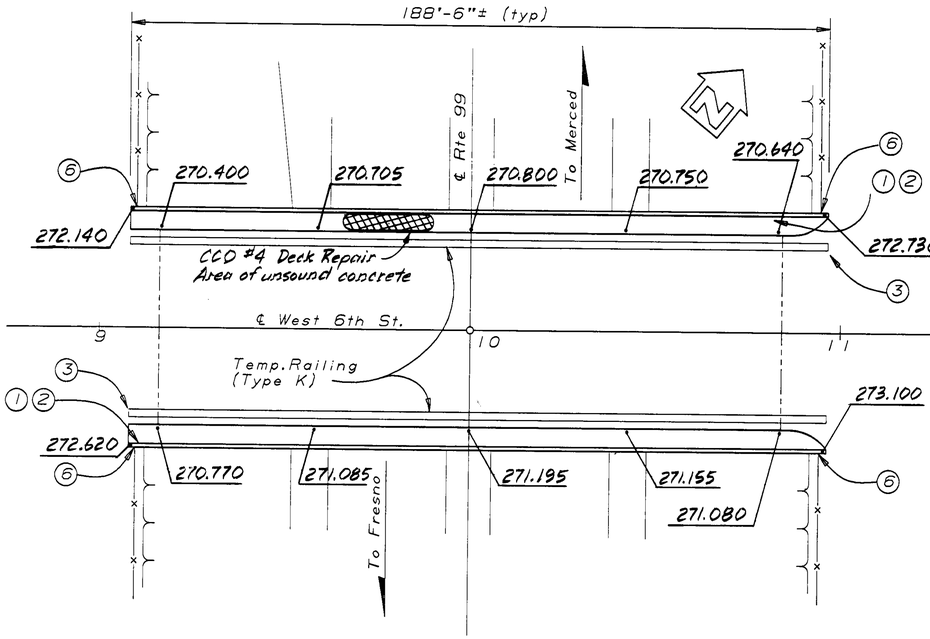
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	17	39

REGISTERED ENGINEER - CIVIL

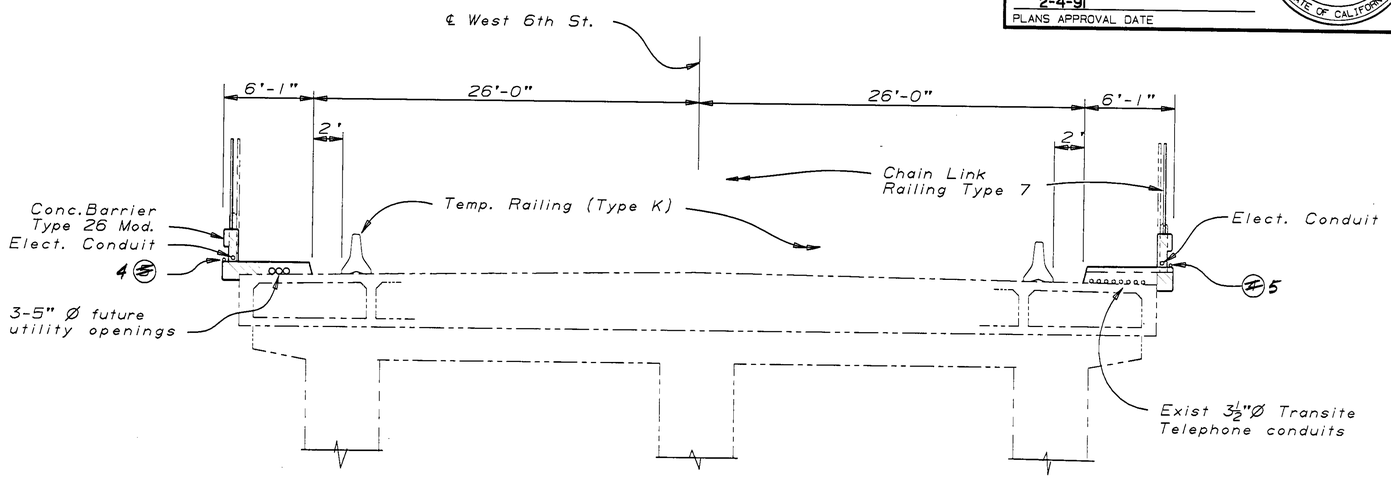
REGISTERED PROFESSIONAL ENGINEER
GARY JOE
No. 36652
Exp. 6-30-90
CIVIL
STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE



PLAN

1" = 20'



TYPICAL SECTION

1"=5'

AS BUILT
DOS 12/8/92
CORRECTIONS BY J. Abercrombie
CONTRACT NO. 06-282204
DATE 8-3-92

APPROXIMATE QUANTITIES

TEMPORARY RAILING (TYPE K)	400 LF
RESET 2 ~~1½"~~ SUPPLY LINE (BRIDGE)	LUMP SUM
BRIDGE REMOVAL (PORTION), LOCATION B	LUMP SUM
REFINISH BRIDGE DECK	169 SQFT

FINAL PAY QUANTITIES

CHAIN LINK RAILING (TYPE 7)	377 LF
CONCRETE BARRIER (TYPE 26 MODIFIED)	377 LF

Notes:

1. Paint "West 6th Street Overcrossing", and year constructed.
2. Paint "Br. No. 41-48".
3. Temporary Crash Cushion Modules, see "Road Plans."
4. Remove existing 2½"Ø water supply line prior to construction and reinstall after barrier rail is complete. Provide temporary water supply line during construction.
5. Remove existing electrical conduit prior to construction. Provide temporary electrical conduit during construction.
6. Remove end post of existing Right of Way Fence prior to construction. Replace and reconnect end post and Fence after Barrier Rail is complete.

Indicates limits of existing Structure removal.

Indicates existing structure.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

WEST SIXTH STREET OVERCROSSING

I M Stoki 12-90
DESIGN ENGINEER

DESIGN	BY D. Ross 9-90	CHECKED G. Joe 9-90	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
DETAILS	BY Flo Callen 5-90	CHECKED G. Joe 9-90	LAYOUT	BY D. Ross 9-90	CHECKED G. Joe 9-90
QUANTITIES	BY D. Ross 9-90	CHECKED S. Maan 9-90	SPECIFICATIONS	BY R. J. Cochrane	PLANS AND SPECS COMPARED R. J. Cochrane

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 9

CU 06200
EA 282201

BRIDGE NO.	41-48
POST MILE	10.3

CONCRETE BARRIER REPLACEMENT
GENERAL PLAN NO. 2

DS OSD 2138 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 5-15-90 | 8-10-90 | 9-7-90 | 9-13-90 | 9-27-90 | 10-1-90 | 10-3-90 | 11-5-90 | 11-26-90

SHEET	OF
2	24

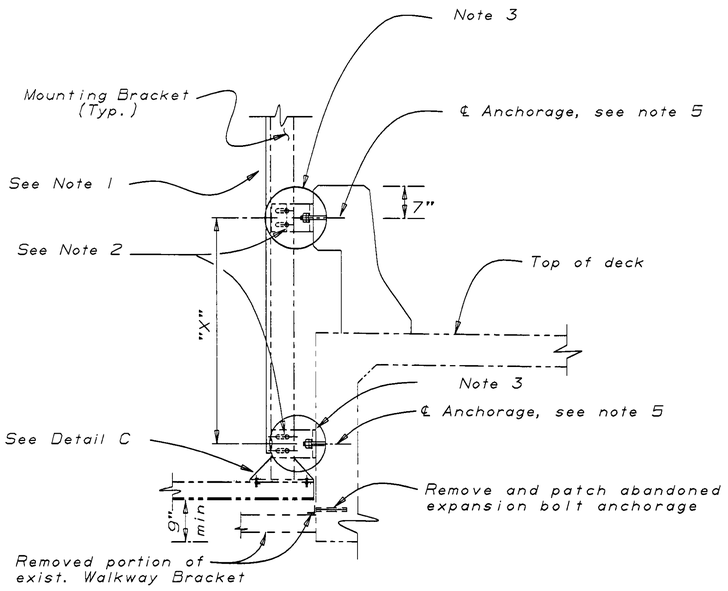
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	36	39

REGISTERED ENGINEER - CIVIL

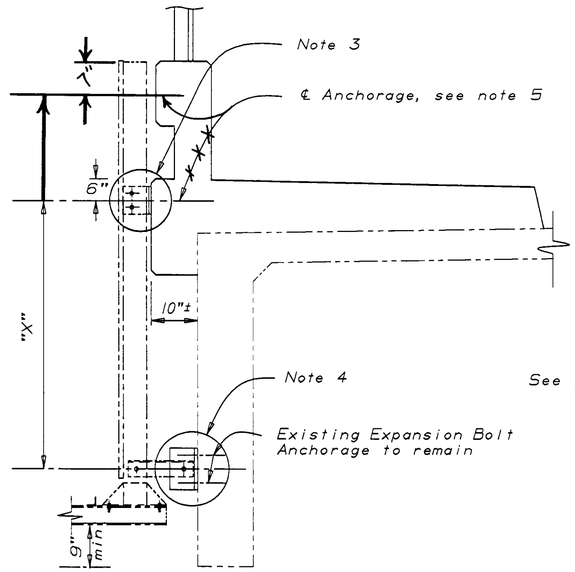
REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE



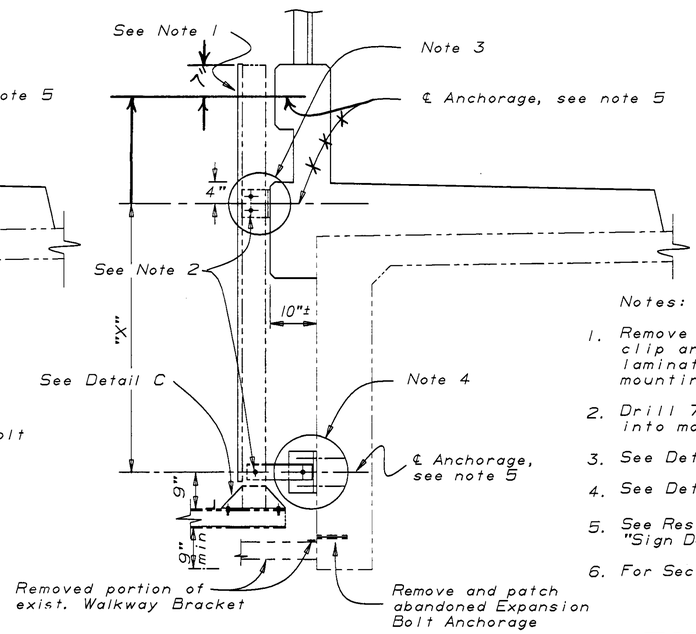
SOUTH MADERA OC. FNBT
PACIFIC AVE. OC. FNBT

$\frac{3}{4}$"=1'-0"



KERN ST. OC. FSBT

$\frac{3}{4}$"=1'-0"



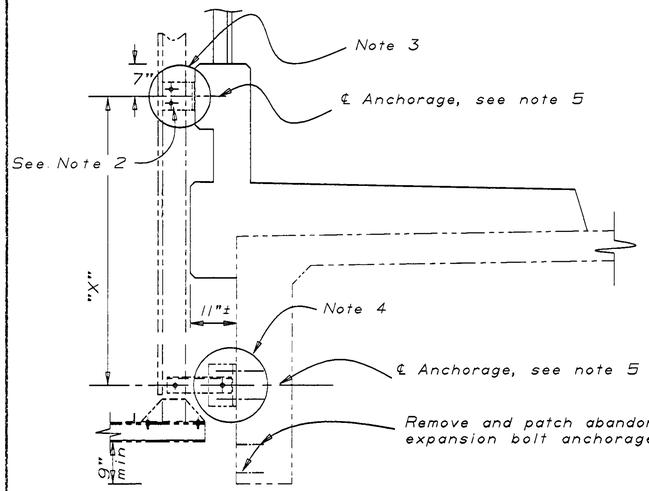
KERN ST. OC. FNBT

$\frac{3}{4}$"=1'-0"

Notes:

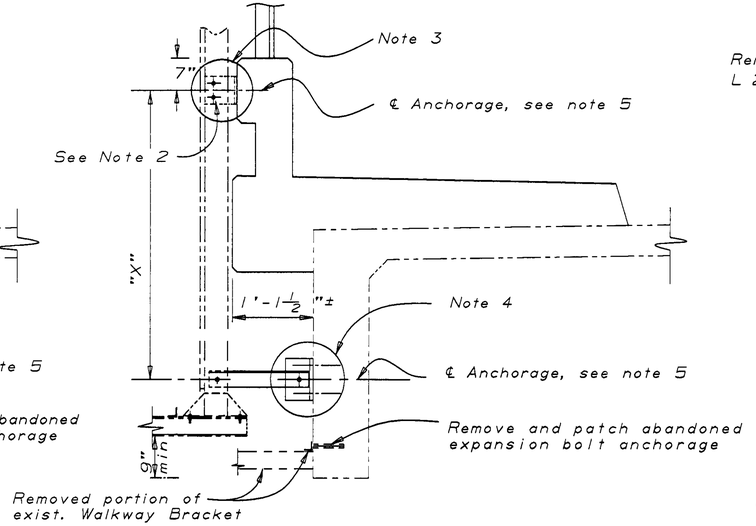
1. Remove existing sign panel and mounting clip angle. Replace with State furnished laminated panel type "A". Drill holes into mounting bracket as needed.
2. Drill 7/8" dia. holes for 3/4" H.S. bolts into mounting bracket.
3. See Detail "A" on "Sign Details No. 2" sheet.
4. See Detail "B" on "Sign Details No. 2" sheet.
5. See Resin Capsule Bolt Anchorage on "Sign Details No. 2" sheet.
6. For Section D-D see "Sign Details No. 2" sheet.

———— Indicates existing structure.



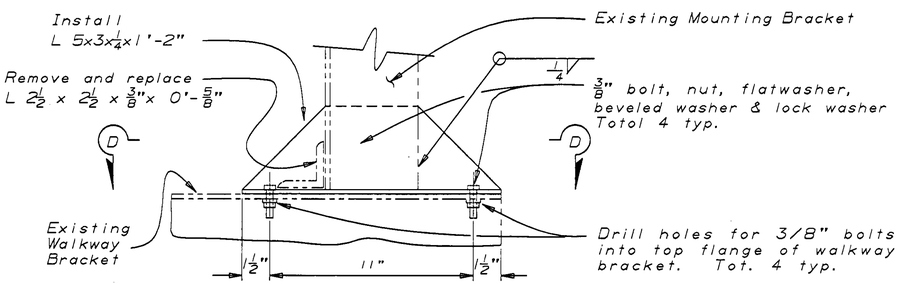
EL DORADO ST. OC. FNBT

$\frac{3}{4}$"=1'0"



W. YOSEMITE AVE. OC. FNBT

$\frac{3}{4}$"=1'-0"



DETAIL C

3"= 1'-0"

W.A.R 3-11-93
CORRECTED J. ABERCROMBIE
CONTRACT NO. 06-282204
DATE 8-3-92

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

	Detail A		Detail B
	"X"	"Y" Top	"Y" Btm	"Z"
S. MADERA ST. OC.	4'-1"	9½"	10"	N/A
PACIFIC AVE. OC.	3'-10"	11½"	10"	N/A
W. YOSEMITE AV. OC.	~~3'-10½"~~ 3'-9"	Existing		1'-5¾"
KERN ST. OC. FNBT	~~3'-1"~~ 5'-4"	Existing		1'-2¼"
KERN ST. OC. FSBT	~~Existing~~ 5'-4"	Existing		Existing
TULARE ST. OC.	~~5'-8"~~ 4'-6"	5¼"		1'-2¼"
EL DORADO ST. OC.	4'-~~7~~ 4"	Existing		Existing

DESIGN	BY D.ROSS 9-90	CHECKED G. Joe 9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9	BRIDGE NO. Various
DETAILS	BY [signature] 9-90	CHECKED G. Joe 9-90			POST MILE
QUANTITIES	BY D.ROSS 9-90	CHECKED S. Maan 9-90			

CONCRETE BARRIER REPLACEMENT
SIGN DETAILS NO. 1

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 9-21-90 | 9-24-90 | 9-14-90 | 9-25-90

SHEET 21 OF 24

ClibPDF - www.fastio.com

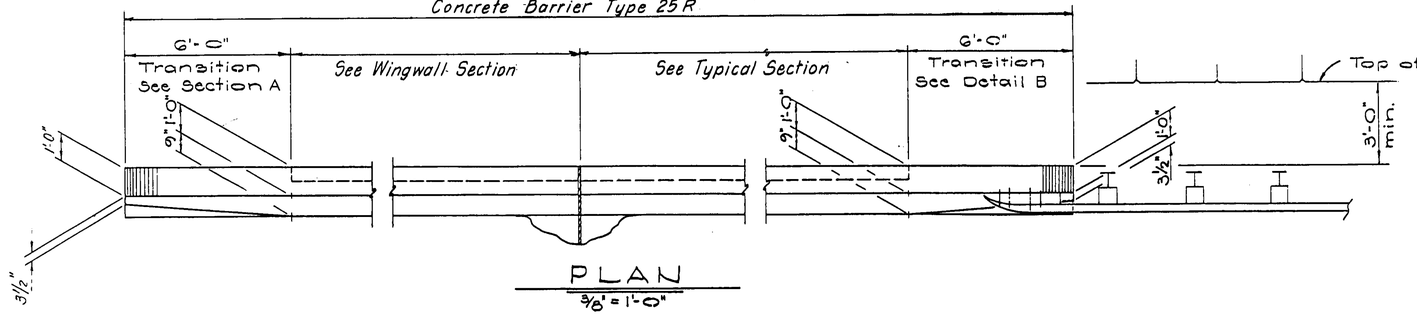
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	39	39

REGISTERED ENGINEER - CIVIL

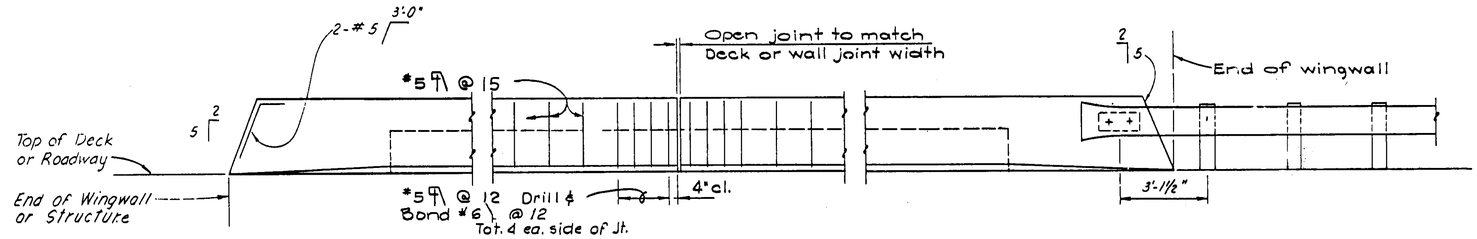
2-4-91
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — G. Joe — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

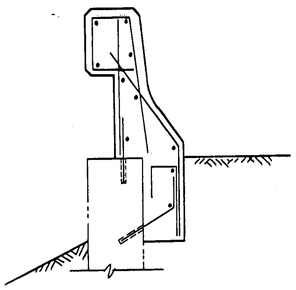
Concrete Barrier Type 25R



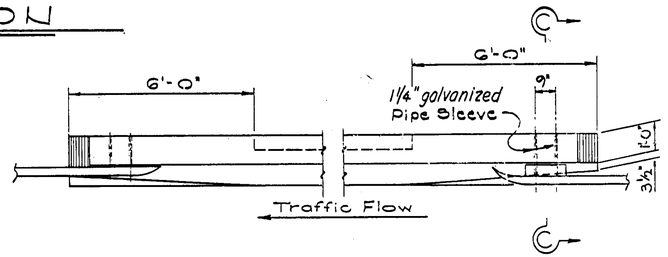
PLAN
3/8" = 1'-0"



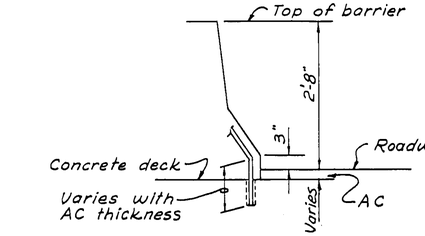
ELEVATION
3/8" = 1'-0"



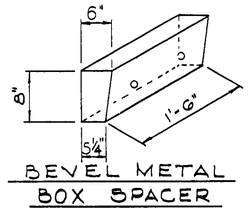
WINGWALL SECTION
3/4" = 1'-0"



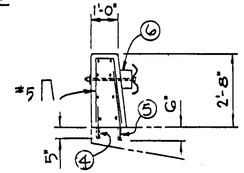
PLAN



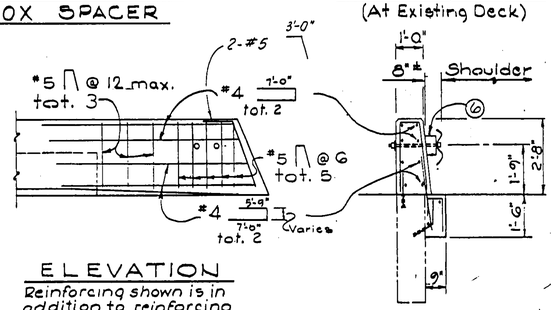
AC DETAIL



BEVEL METAL
BOX SPACER



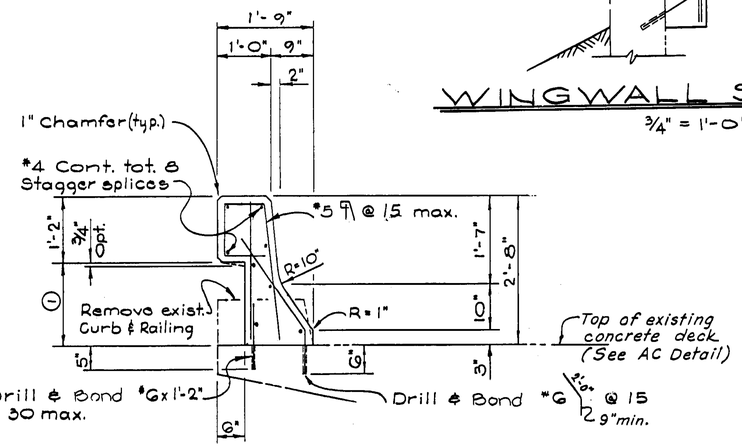
SECTION C-C
(At Existing Deck)



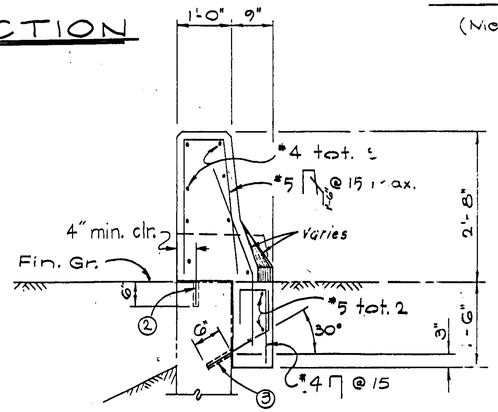
ELEVATION
Reinforcing shown is in addition to reinforcing in Typical Section

SECTION C-C
(At Wingwall)
For Details not shown, see "Section A".

DETAIL B
(Metal Beam Guard Rail Anchorage)



TYPICAL SECTION
3/4" = 1'-0"



SECTION A
3/4" = 1'-0"

Notes:
① - Dimension may vary with cross-slope and with certain thicknesses of surfacing.
② - Drill & Bond #6 x 1'-2" @ 30 max.

③ - Drill & Bond #6 @ 30 max.
④ - Drill & Bond #6 x 1'-2" @ 15
⑤ - Drill & Bond #6 x 2'-6" @ 15
⑥ - Bevel Metal Box Spacer, for anchorage details see Std. Plans A79-C.

Clearance to reinforcing steel in barrier to be 1" except as noted. Longitudinal reinforcement to stop at all expansion joints.
All reinforcing dowels or bolts which will be exposed after Barrier Modification shall be cut off 1" below finish surface and the hole filled with cement mortar.
For Metal Beam Guard Rail details not shown see Standard Plans A77-C, A77-D, A79-A, A79-B and A79-C.

For Drill and Bond, use Magnesium Phosphate Concrete.

NO CORRECTIONS THIS SHEET
AS BUILT
CORRECTED J. ABERCROMBIE
CONTRACT NO. 06-282204
DATE 8-3-93

FILE NO.	DESIGN By G. Joe	Checked D. Ross	Approval Recommended By
DRAWING	DETAILS By	Checked	DESIGN SUPERVISOR
DATE	SUBMITTED BY		REGISTERED CIVIL ENGINEER NUMBER

State of CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN

PROJECT ENGINEER — REGISTERED CIVIL ENGINEER NO.

BRIDGE NO. Various
POST MILE Various

CONCRETE BARRIER REPLACEMENT
CONCRETE BARRIER TYPE 25R

DS 050 2147A (2/86)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

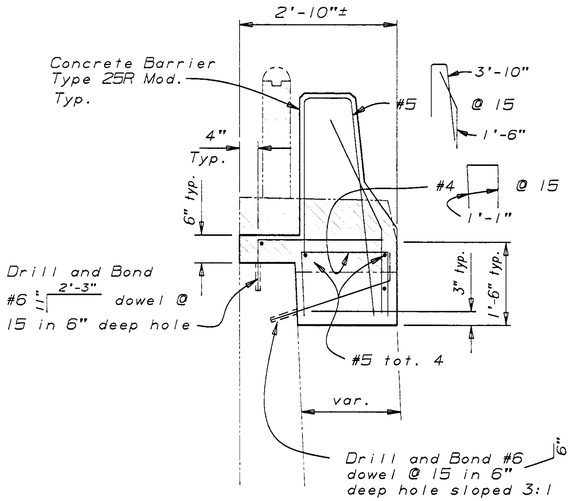
CU 06200
EA 282201

Disregard prints bearing earlier revision dates →

REVISION DATES (PRELIMINARY STAGE ONLY): 8/86 9/87

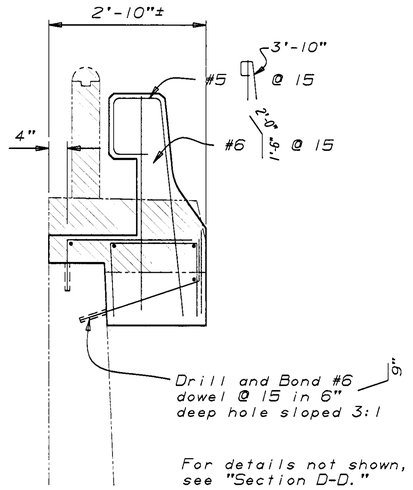
SHEET 24 OF 24

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SECTION D-D

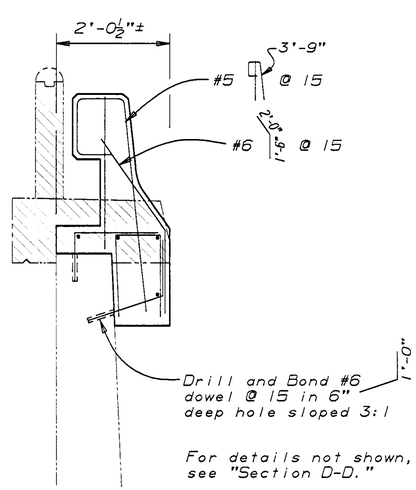
$\frac{3}{4}$"=1'-0"



For details not shown, see "Section D-D."

SECTION E-E

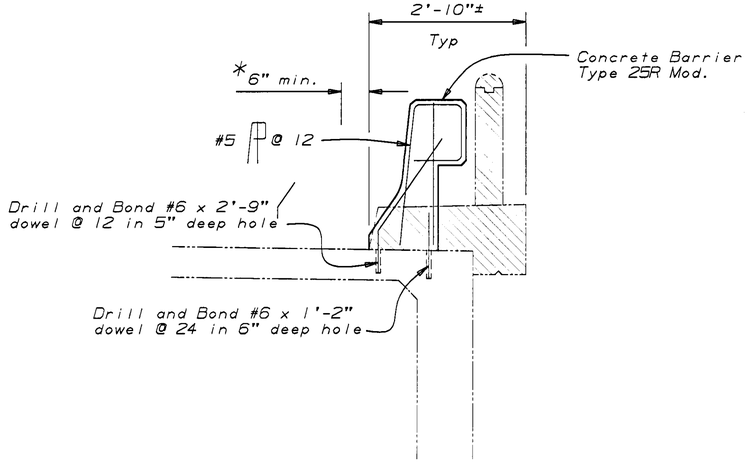
$\frac{3}{4}$"=1'-0"



For details not shown, see "Section D-D."

SECTION F-F

$\frac{3}{4}$"=1'-0"



TYPICAL SECTION - RT. EDGE OF DECK

$\frac{3}{4}$"=1'-0"

Notes:

* Limits of refinishing bridge deck.

For locations of "Section D-D, E-E & F-F," see "Barrier Details No. 4" sheet.

For details and reinf. not shown see "Concrete Barrier Type 25R" sheet.

Indicates limits of existing Structure removal.

Indicates existing structure.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

NO CORRECTIONS THIS SHEET

AS BUILT

W. A. R. 3-11-93

CORRECTED BY J. ABERCROMBIE

CONTRACT NO. 06-282204

DATE 8-3-92

PACIFIC AVENUE OVERCROSSING

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	35	39

REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE

DESIGN	BY D. ROSS 9-90	CHECKED G. JOE 9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9	BRIDGE NO. 42-189 / POST MILE 22.4
DETAILS	BY D.A. SANDERSON 9-90	CHECKED G. JOE 9-90			
QUANTITIES	BY D. ROSS 9-90	CHECKED S. MAAN 9-90			

CONCRETE BARRIER REPLACEMENT
BARRIER DETAILS NO. 12

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 9-14-90 | 9-18-90 | 10-1-90 | 10-8-90 | 11-28-90

SHEET 20 OF 24

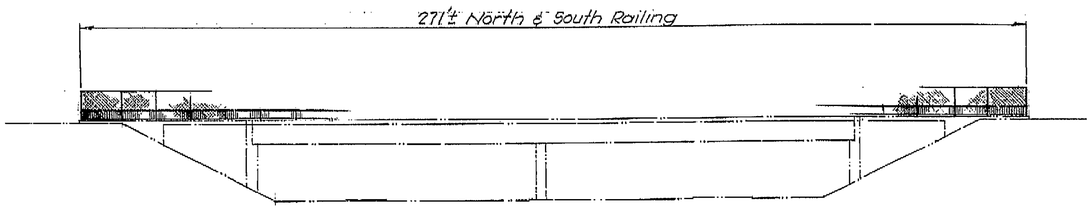
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	FRE	99	20.5, 20.6	4	5

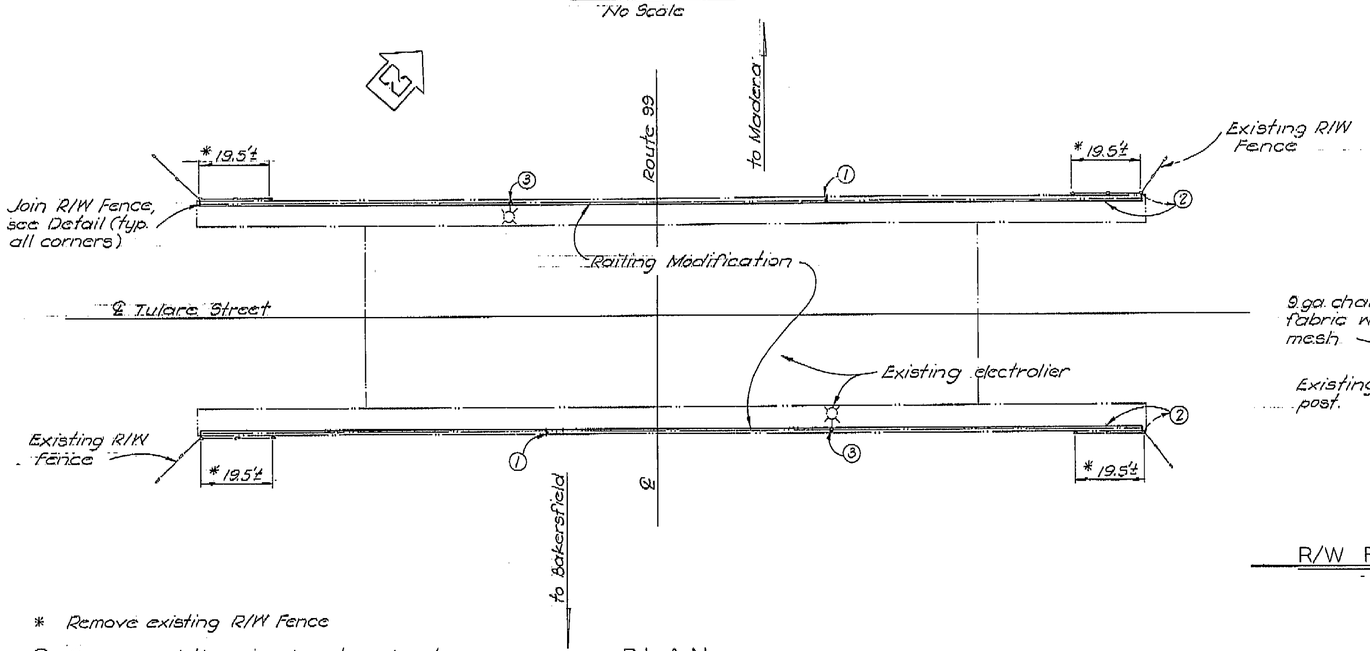
R.C. Caswell 6/75 9013
CHIEF ENGINEER - PLANNING BRANCH — REGISTERED CIVIL ENGINEER NUMBER

John J. Kaneko 4/75 7738
CHIEF OFFICE OF STRUCTURES — REGISTERED CIVIL ENGINEER NUMBER

DATE APPROVED June 20, 1977



ELEVATION
No Scale



PLAN
No Scale

* Remove existing R/W Fence

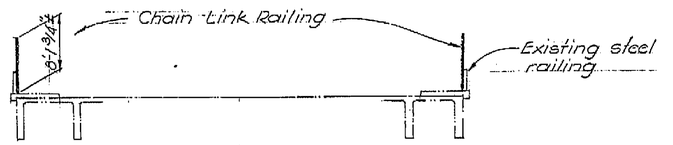
① Remove existing sign & post & relocate sign, see "Sign Mounting Detail."

② Remove existing sign & post & relocate sign to nearest intermediate post, see "Sign Mounting Detail."

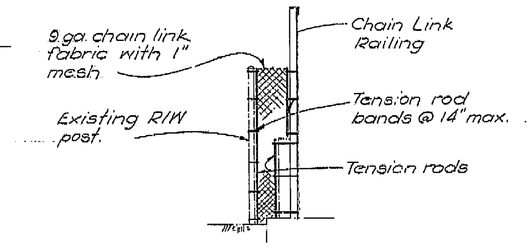
③ Reset existing sign & strap & saddle bracket 6" above chain link railing

—— —— Indicates existing

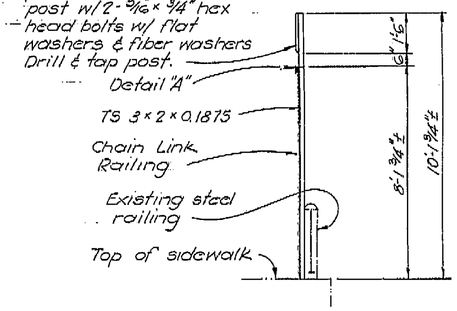
NOTE:
THE CONTRACTOR SHALL VERIFY ALL DEPENDENT DIMENSIONS IN THE FIELD BEFORE ORDERING OR FABRICATING ANY MATERIAL.



TYPICAL SECTION
No Scale



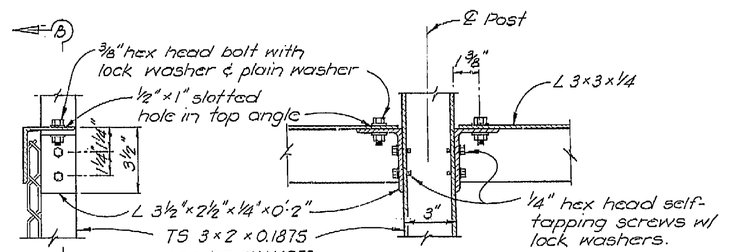
R/W FENCE CONNECTION DETAILS
No Scale



SIGN MOUNTING DETAIL
No Scale

INDEX TO PLANS

Sheet No.	Title
1	General Plan
2	Chain Link Railing Details



DETAIL "A"
No Scale

SECTION B-B
No Scale

NO AS BUILT CHANGES
BY E. Kellogg
06-153504
DATE 1-16-79

AS BUILT PLANS
Contract No. 06-153504
Date Completed
Document No. 6000 6964

RAILING MODIFICATION

Submitted by: George C. Almaraz 4/75 14216 — DESIGN ENGINEER — REGISTERED CIVIL ENGINEER NUMBER	DESIGN	By G. Moriguchi 3-75	Checked J. Pomeroy 4/75	LIVE LOADING: HS 20-44 AND ALTERNATIVE			
Approval Recommended By: Lyman C. Hood Jr. 7989 — DISTRICT ENGINEER — REGISTERED CIVIL ENGINEER NUMBER	DETAILS	By G. Moriguchi 3-75	Checked J. Pomeroy 4/75	LAYOUT	By G. Moriguchi 3-75	Checked J. Pomeroy	
	QUANTITIES	By G. Moriguchi 4-75	Checked J. Pomeroy 4/75	SPECIFICATIONS	By [illegible]	Plans and Specs Compared [illegible] 6/75	

State of CALIFORNIA
DEPARTMENT OF TRANSPORTATION

OFFICE OF STRUCTURES
DESIGN GROUP 2
PROJECT ENGINEER Joe Pomeroy

BRIDGE NO. 42-169
POST MILE 20.6

TULARE STREET OVERCROSSING
GENERAL PLAN

CU 06351
WO 153501

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

Disregard prints bearing earlier revision dates →

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 1 OF 2

4

OH-08 D139

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

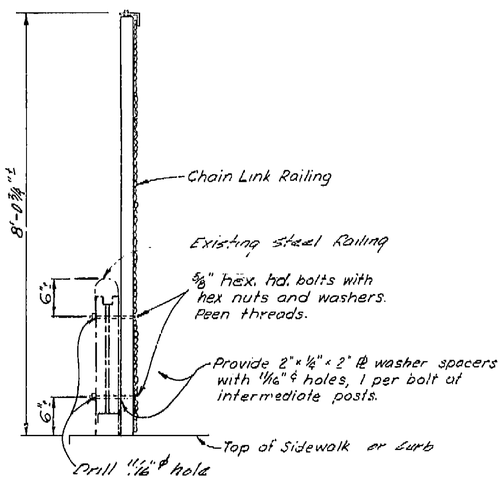
DATE 6/21/79 SIGNATURE Joseph W. Roth TITLE Supervising Engineer of Microfilm

ClibPDF - www.fastio.com

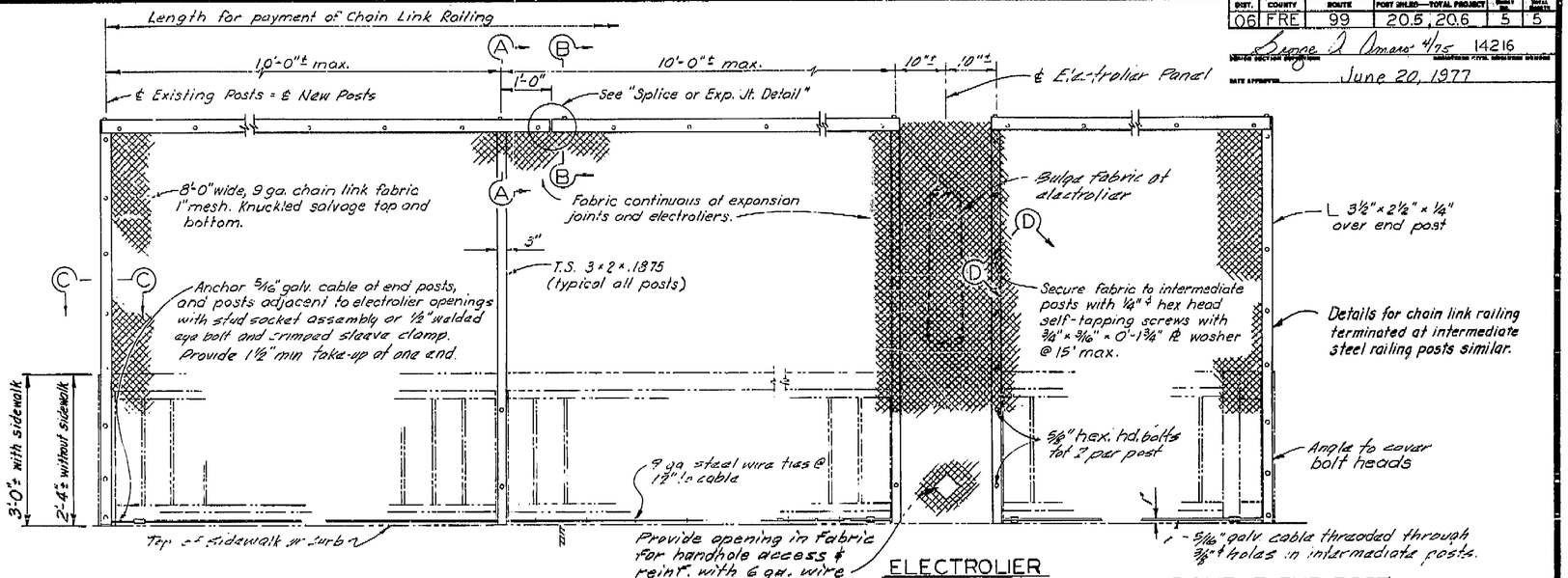
DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	FRE	99	20.5, 20.6	5	5

Bridge Dept. Approved 4/75 14216

DATE APPROVED June 20, 1977



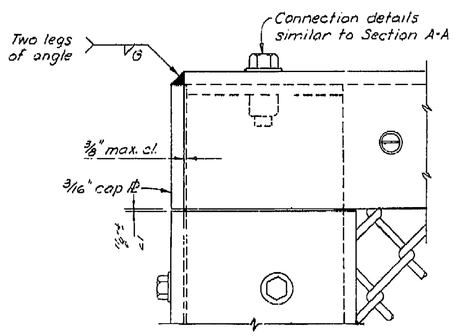
TYPICAL SECTION



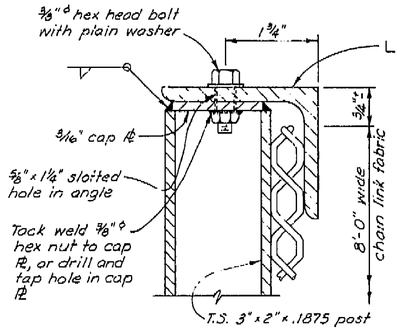
SINGLE END POST — INTERMEDIATE PANEL — ELECTROLIER PANEL — DOUBLE END POST

ELEVATION

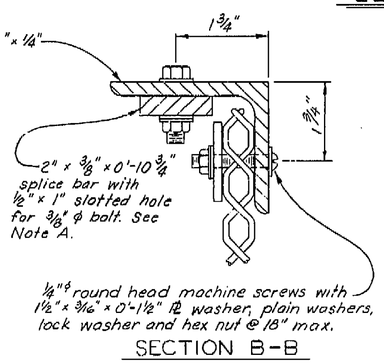
Details for future and existing electrolier similar.



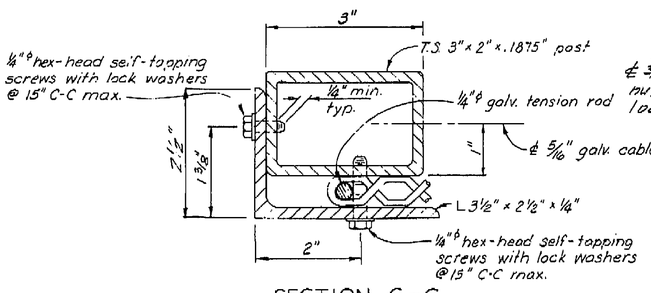
END POST ELEVATION



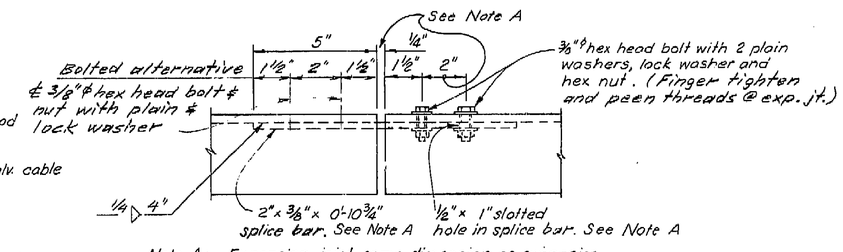
SECTION A-A



SECTION B-B



SECTION C-C



Note A: Expansion joint same dimension as expansion joint in deck or wall. Increase slotted hole length & splice bar length correspondingly.

SPLICE OR EXPANSION JOINT DETAIL

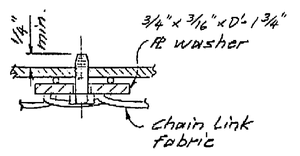
NO AS BUILT CHANGES

AS BUILT

SECTIONS BY E Kaleoga

CONTRACT NO. 06-153504

DATE 1-16-78



SECTION D-D

NOTES:

1. Railing assembly except chain link fabric to be galvanized after fabrication.
2. Posts shall be vertical.
3. Railing shall conform to horizontal and vertical alignment. Horizontal angle shall be bent to conform to horizontal alignment if radius is 150 ft. or less and may be on 10 ft. chords if radius is over 150 ft.
4. Horizontal angle shall be continuous over not less than two intermediate posts, except that a shorter length is permitted at expansion joints, electroliers and other rail discontinuities.
5. When rail is on slope, place fabric parallel to slope.
6. Alternative details may be submitted by Contractor for Engineer's approval.
7. Provide thimbles at all cable loops.
8. The Contractor shall verify all dependent dimensions in the field before ordering or fabricating any material.
9. When railing is placed on a curved horizontal alignment with radius of 150 ft or less, thread 5/16" cable through 3/8" ϕ welded eye bolts set in epoxy adhesive in ½" ϕ x 3" deep drilled holes in concrete curb or sidewalk equally spaced to limit the midordinate distance between the 5/16" cable and the curve to 1" max.
10. Peen all exposed bolts.

RAILING MODIFICATION

① Existing Steel Baluster (7-25-73)

DESIGN	By M. Pohll 7-72	Checked E Lee 8-72	
DETAILS	By K. Endow 7-72	Checked E Lee 8-72	
QUANTITIES	By G. Moriguchi 4-75	Checked J Ponte 4/75	

State of CALIFORNIA DEPARTMENT OF TRANSPORTATION

BRIDGE DEPARTMENT DESIGN SECTION 2

PROJECT ENGINEER Joe Ponte

CU WO

BRIDGE NO. 42-169

POST MILE 20.6

TULARE STREET OVERCROSSING

CHAIN LINK RAILING DETAILS

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

Disregard prints bearing earlier revision dates

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 2 OF 2

5

AS BUILT PLANS
Contract No. 06-153504
Date Completed
Document No. 6000 6964

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

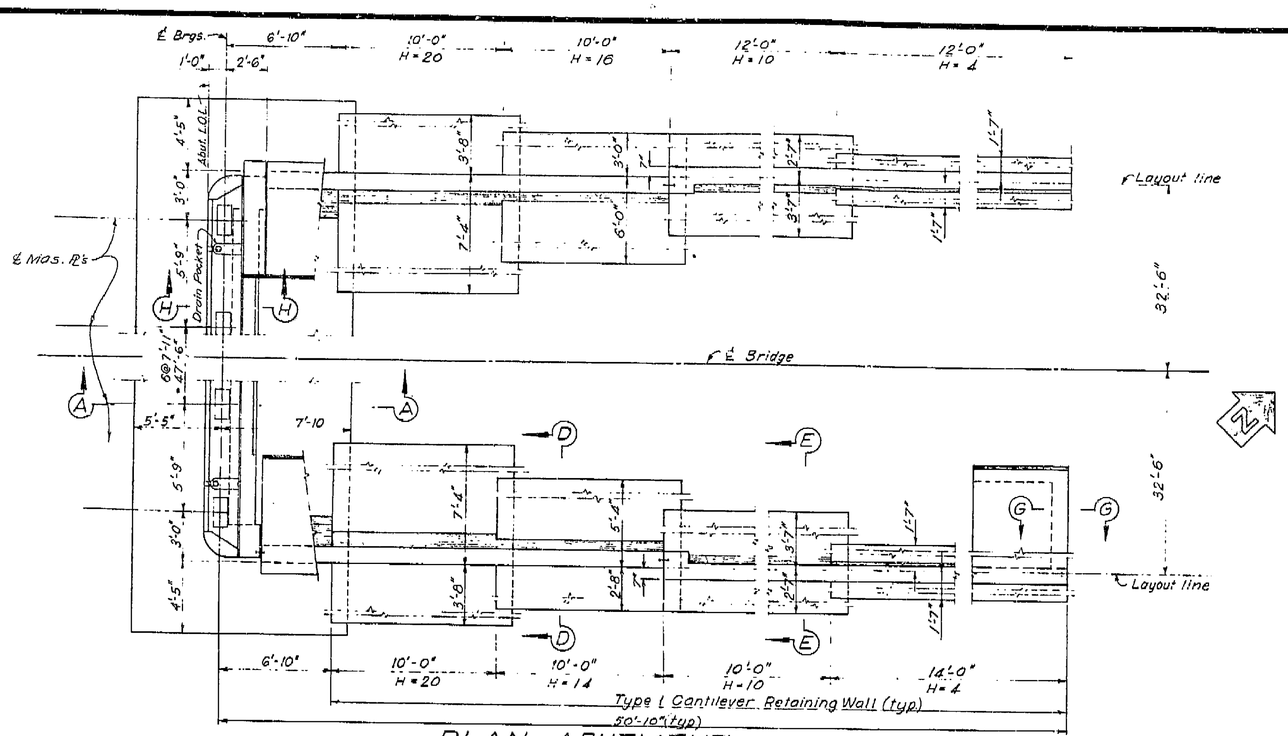
DATE 1/25/79 SIGNATURE Joseph M. Testa TITLE Supervising Engineer III

ClibPDF - www.fastio.com

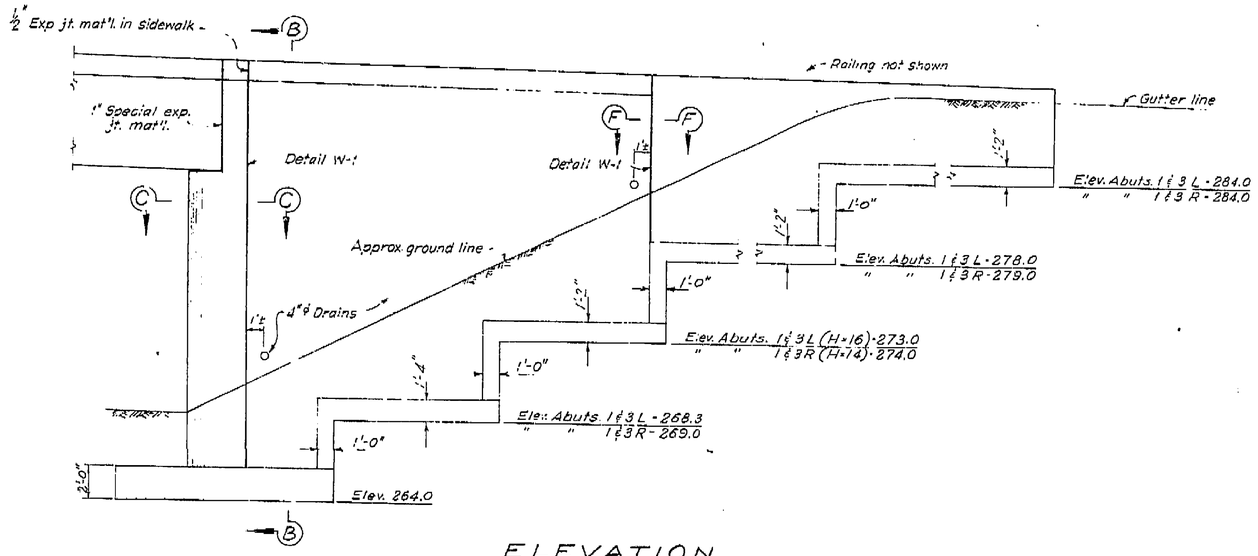
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7	CALIF			96	147

Dist.	County	Route	Section	Sheet No.	Total Sheets
VI	FRE	4	FRE	5--	11

Date Approved December 27, 1955

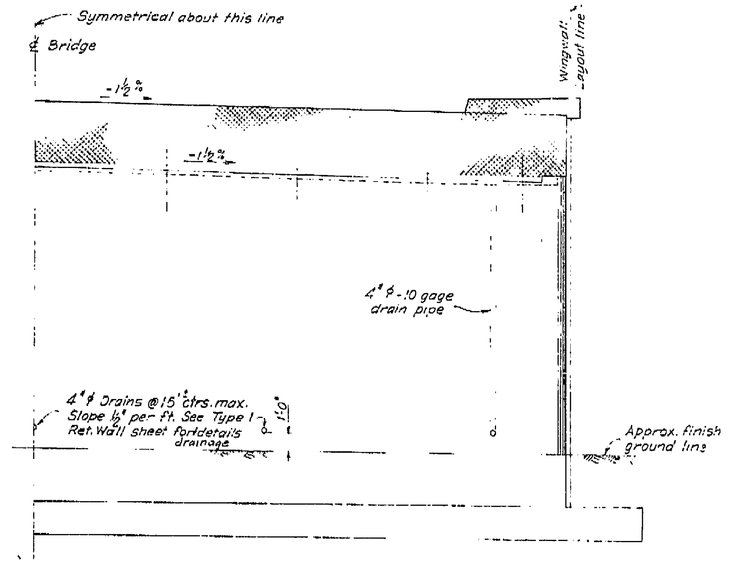


PLAN - ABUTMENT



ELEVATION

ABUT. 3 SHOWN
ABUT. 1 SAME BUT OPP. HAND



HALF FRONT ELEVATION

AS BUILT PLANS
Contract No. 56-6TC2
Date Completed
Document No. 60000987

AS BUILT
DATE 6/29/71 BY L.E.P. Nelson

NOTES:

For Sections A-A, B-B, C-C, H-H refer to "Abutment Details" sheet.
For Sections D-D, E-E, F-F, G-G see Kern St. O.C. "Wingwall Details" sheet.
See Special Provisions for 1" Special exp. jt. mat'l.
For Bearing details see Kern Street O.C. "Misc. Details" sheet.

BRIDGE DEPARTMENT
DESIGN SECTION 8
Project Designer M. E. Johnson 3-55
Chief Designer Asst. Bridge Engr.

DESIGN	By M. E. Johnson 3-55	Checked	Chief Bridge Engr.
DETAILS	By A.M. Snyder 3-55	Checked	Chief Bridge Engr.
QUANTITIES	By	Checked	
SPECIFICATIONS	By	Plans and Specs. Checked	
Approval Recommended by	Asst. Chief of Design	1955 Std. Specifications Page & Section No.	5939

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

TULARE STREET OVERCROSSING

ABUTMENT LAYOUT

Scale	Bridge	File	Drawing
½"=1'-0"	42-169		C-4096-3 F

PREL. DRAWING NO. P-4096 | 1 | 18

367

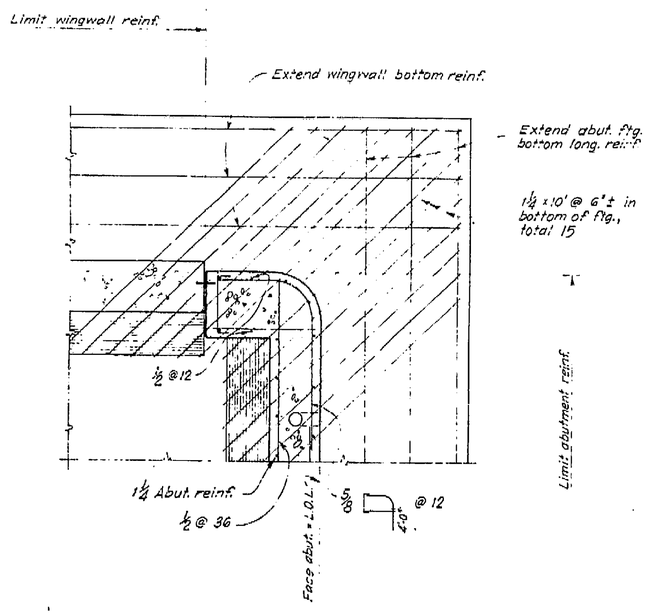
I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

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7	CALIF.			97	147

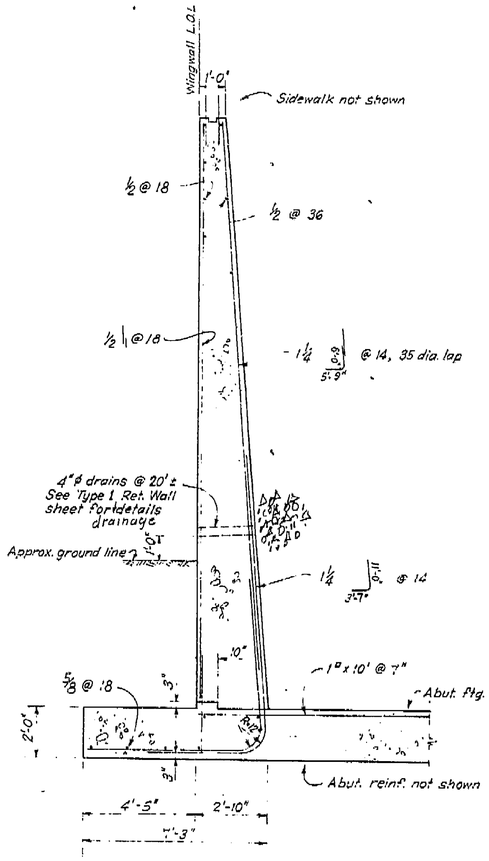
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
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DATE APPROVED December 27, 1956

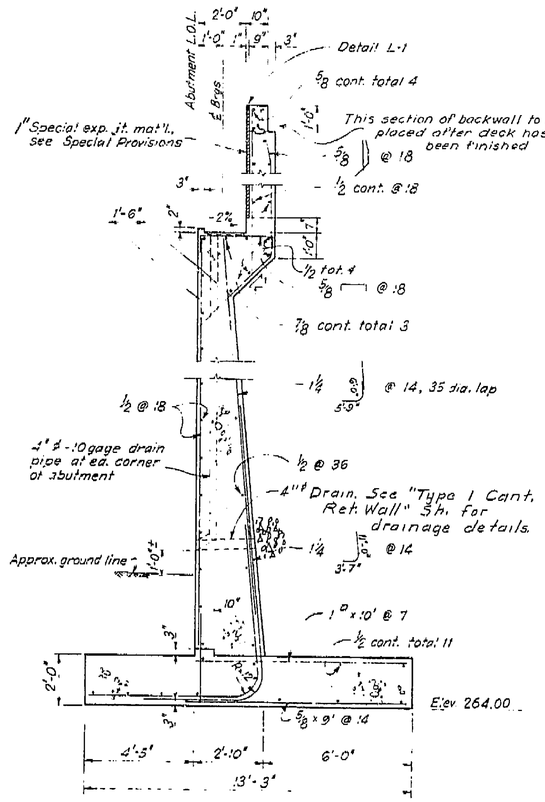


SECTION C-C
PART SEC. THROUGH ABUT. WALL
Scale: ½" = 1'-0"

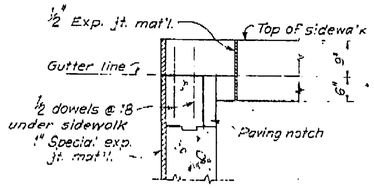
PART PLAN-ABUTMENT
DETAIL TOP OF ABUT. CORNER
Scale: ½" = 1'-0"



SECTION B-B
Scale: ⅜" = 1'-0"



SECTION A-A
Scale: ⅜" = 1'-0"



SECTION H-H
Scale: ¾" = 1'-0"

AS BUILT
DATE 4/4/7 BY J. E. Carlson

AS BUILT PLANS
Contract No. 56-67C2
Date Completed
Document No. 60000917

BRIDGE DEPARTMENT
DESIGN SECTION 8
Project Designer W. F. Johnson 3-55
Chief Designer Calvin H. Dayton

DESIGN	By W. F. Johnson 3-55	Checked	
DETAILS	By A. HANGGEEK 3-55	Checked	
QUANTITIES	By	Checked	
SPECIFICATIONS	By	Prices and Estimate Prepared	

Approval Recommended by Paul H. Hutchinson, Engineer of Design. Field and Structural Plans Checked by JWJ

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

TULARE STREET OVERCROSSING

ABUTMENT DETAILS

SCALE As noted | BRIDGE 42-169 | FILE | DRAWING C-4096-A

PREL. DRAWING No. P-4096 | 6 4 35

97

KERN, STAN, TUO, TUL

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

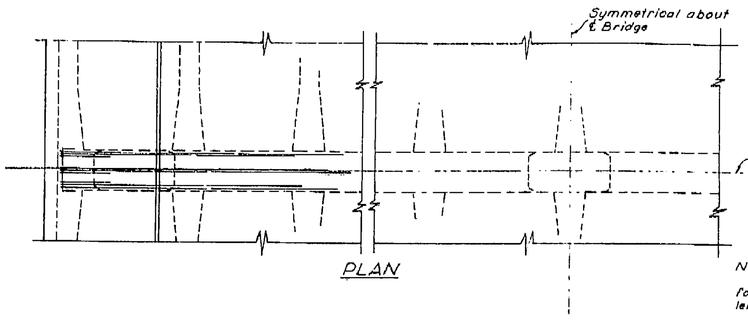
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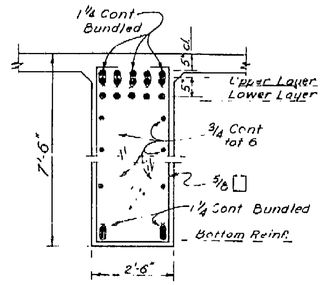
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7	CALIF.			99	147

DIST	COUNTY	ROUTE	SECTION	SHEET NO	TOTAL SHEETS
VI	FRE	4	F-FRE	6	11

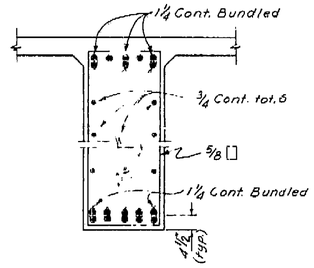
DATE APPROVED December 27, 1955



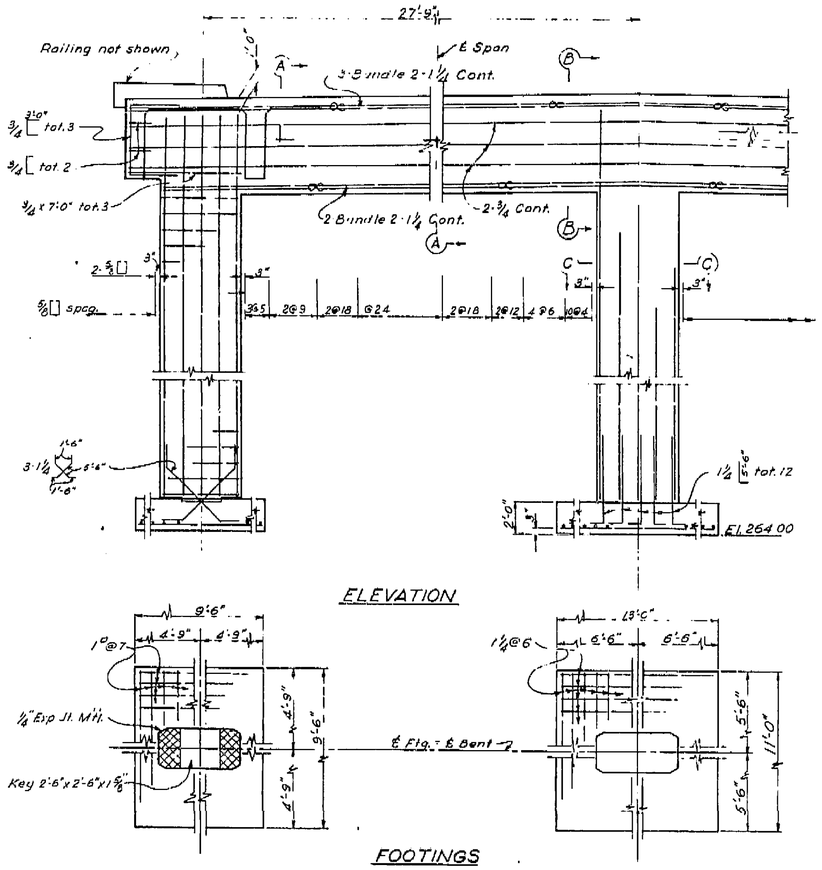
Note:
All bars 1½ unless otherwise called for. Numbers at ends of bars indicate length from ℄ span or ℄ column.
⊂⊃ Indicates bundled bars.



SECTION B-B
Scale: ½"=1'-0"

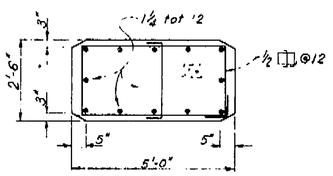


SECTION A-A
Scale: ½"=1'-0"

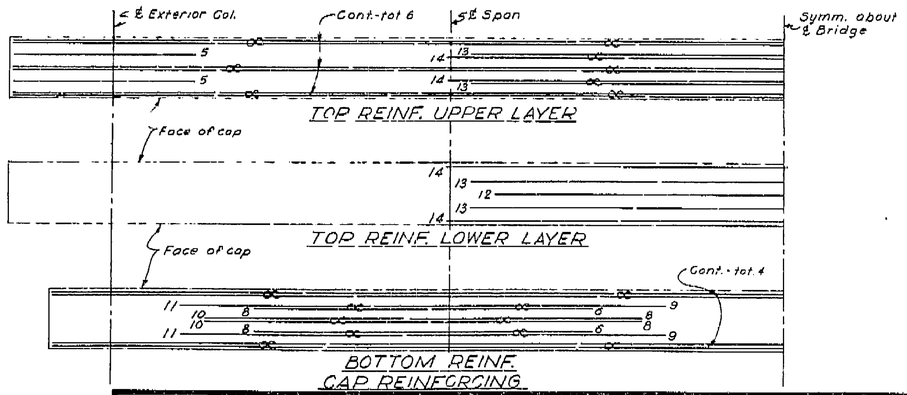


ELEVATION

FOOTINGS



SECTION C-C
Scale: ½"=1'-0"



AS BUILT PLANS
Contract No. 56-67C2
Date Completed
Document No. 60000987

AS BUILT
DATE 5/10/17 BY J.P. Calderon

BRIDGE DEPARTMENT
DESIGN SECTION 8
Project Designer W. T. Johnson 3-55
Chief Designer

DESIGN	W. T. Johnson 3-55	Checked	
DETAILS		Checked	
QUANTITIES		Checked	
SPECIFICATIONS		Plans and Specs Engineer	

Approved & Recommended for Approval
Bridge Engineer
FHWA approved 5-7-59

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

TULARE STREET OVERCROSSING

BENT 2

SCALE	BRIDGE	FILE	DRAWING
As Noted and 1¼"=1'-0"	42-169		C-4096-B

PREL. DRAWING No. P-4096-8 97

Std sheet - Stan., Tuo., Tul., Kern: VI Fre 4 F-e)

99

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE June 23, 1971 SIGNATURE [illegible] TITLE Asst. Chief Bridge Engineer

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FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.			103	147

DIST.	COUNTY	ROUTE	SECTION	MILES NO.	TOTAL SHEETS
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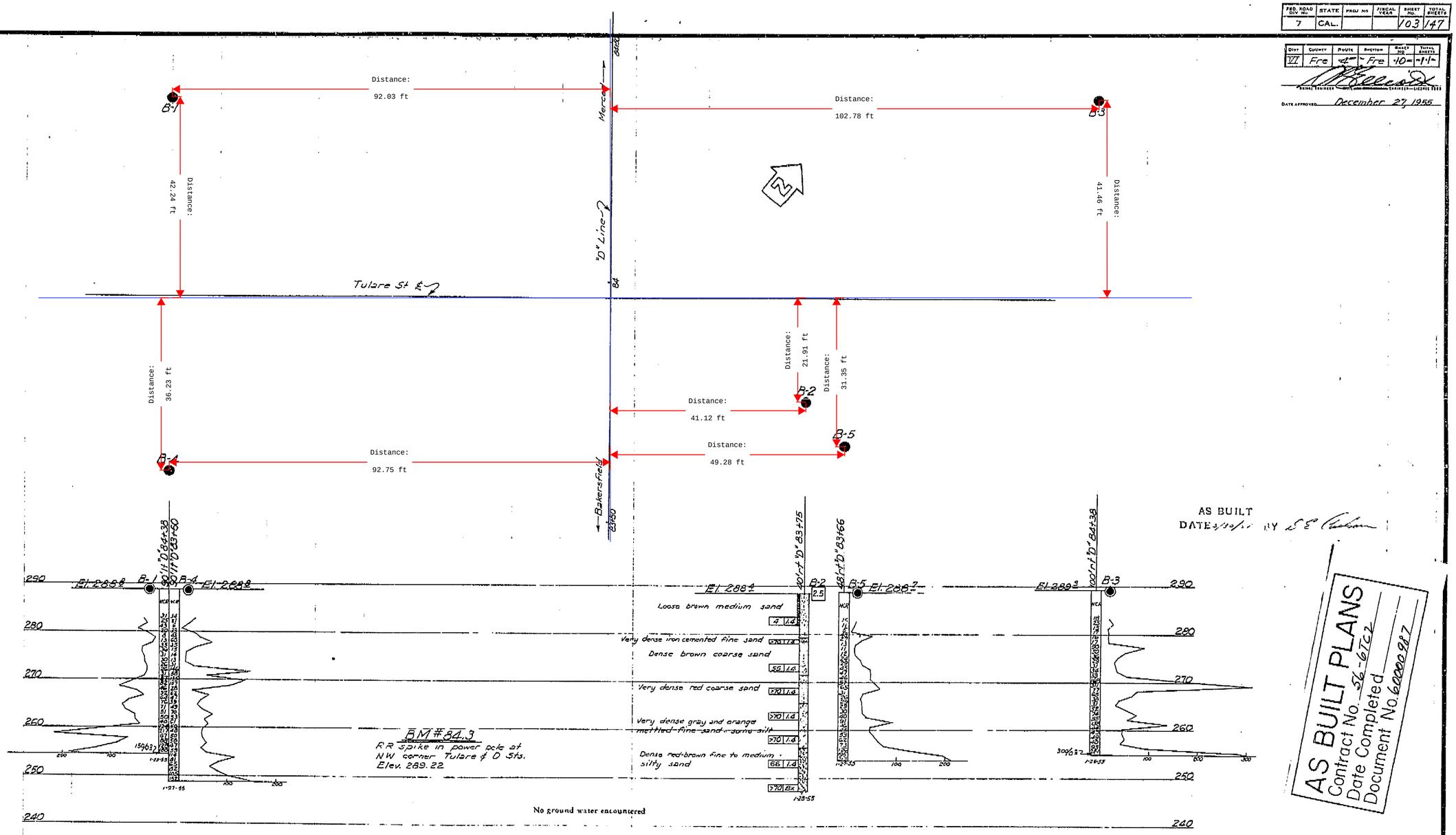
DATE APPROVED December 27, 1955

BRIDGE DEPARTMENT

DRAWN	J.O. Barr	2-55
CHECKED	R. Hoper	2-55

Approval Recommended by: [signature] Bridge Engineer

[signature] State Bridge Engineer



AS BUILT PLANS
Contract No. 56-6762
Date Completed
Document No. 6000987

CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS

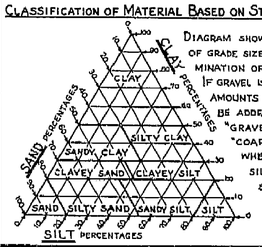


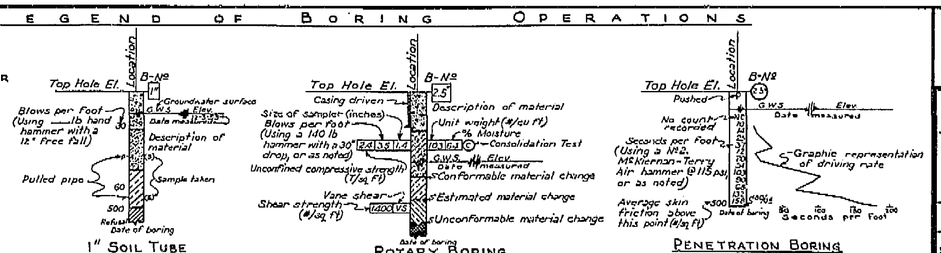
DIAGRAM SHOWING THE BASIS FOR ESTIMATES OF GRADE SIZE DISTRIBUTION USED IN DETERMINATION OF CLASS NAMES. IF GRAVEL IS PRESENT IN APPRECIABLE AMOUNTS THE TERM "GRAVELLY" MAY BE ADDED TO THE CLASS NAME, VIZ. "GRAVELLY SAND". THE TERMS "COARSE", "MEDIUM" AND "FINE" WHEN USED TO DESCRIBE SAND, SILT AND GRAVEL REFER TO STANDARD GRADE SIZE LIMITS.

LEGEND OF EARTH MATERIALS

- GRAVEL
- SAND
- SILT
- CLAY
- SANDY CLAY OR CLAYEY SAND
- SANDY SILT OR SILTY SAND
- SILTY CLAY OR CLAYEY SILT
- PEAT AND/OR ORGANIC MATTER
- FILL MATERIAL
- IGNEOUS ROCK
- SEDIMENTARY ROCK
- METAMORPHIC ROCK

LEGEND OF BORING OPERATIONS

- PLAN OF ANY BORING
- PENETROMETER
- 2½" CONE PENETROMETER
- SAMPLER BORING (DRY)
- ROTARY BORING (WET)
- AUGER BORING (DRY)
- JET BORING
- CORE BORING
- TEST PIT



NOTES

The contractor's attention is directed to Section 2, Article (c) of the Standard Specifications and to the Special Provisions accompanying this set of plans.

Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

TULARE STREET OVERCROSSING

LOG OF TEST BORINGS

SCALE	BRIDGE	FILE	DRAWING
1"=10'	42-169		B-4096-11

PREL. DRAWING NO. P-4096 2

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DATE June 27, 1971 SIGNATURE [signature] TITLE Supervising Engineer

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FED. ROAD DIST. NO.	STATE	PROJ. NO.	F. AID SEQ. NO.	SHEET NO.	TOTAL SHEETS
2	CAL				98 147

DIST.	COUNTY	ROUTE	POST MILE	SHEET NO.	TOTAL SHEETS
VI	FRE	4-FRE	5-77		

5565

September 1, 1953

State Highway Engineer
Civil Engineer License No 2084

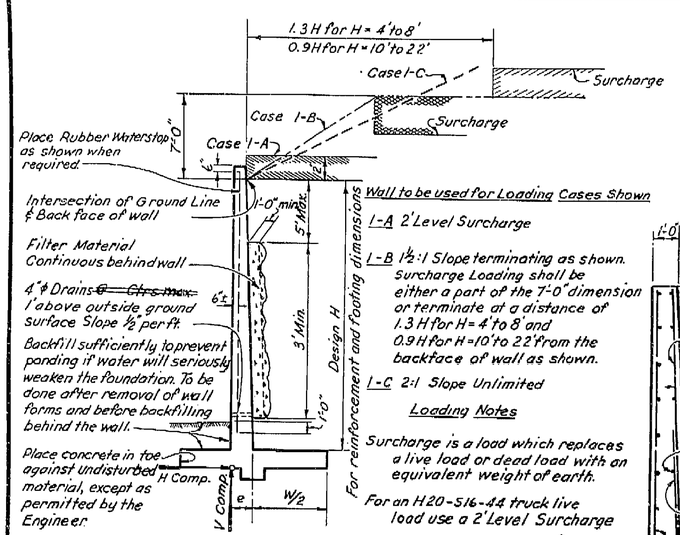
To Accompany Plans Dated December 27, 1955

STANDARD DRAWING

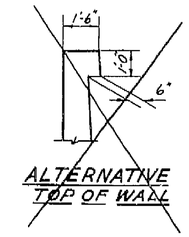
DESIGN	W.H.	2-53 Const.	1-54
DETAILS	W.H.	7-53 Const.	7-54
QUANTITIES			
SPECIFICATIONS			

Approved for use as a standard: [illegible] Date: 3-54 Sht. 368

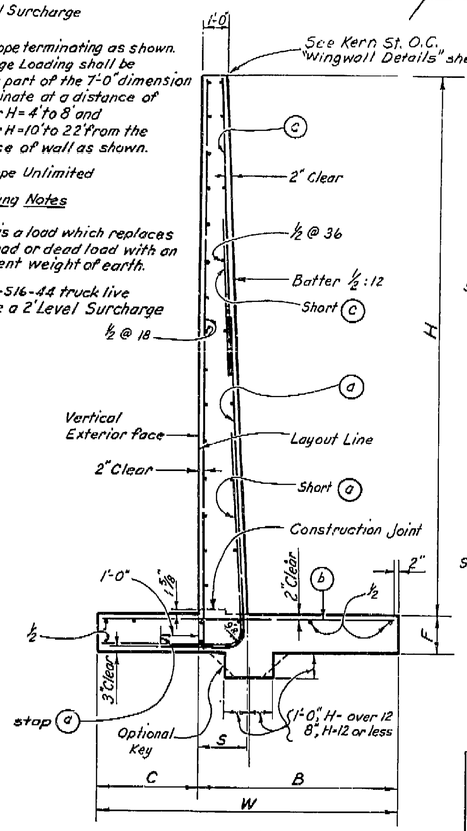
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS
BRIDGE DEPARTMENT



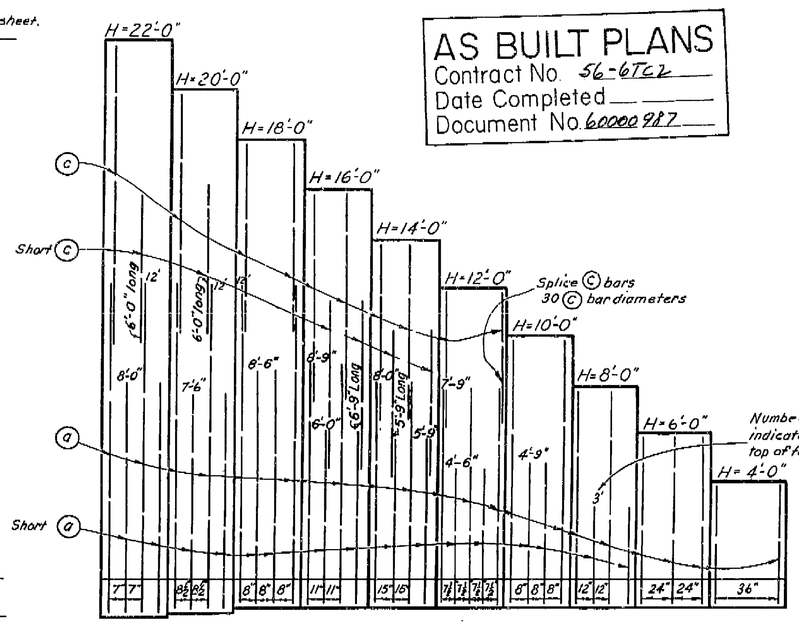
DESIGN AND DRAINAGE



ALTERNATIVE TOP OF WALL



SECTION

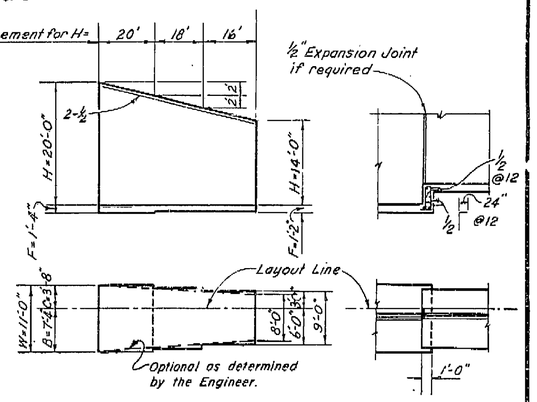


ELEVATION

TABLE OF REINFORCING STEEL DIMENSIONS AND DATA										
H	22'	20'	18'	16'	14'	12'	10'	8'	6'	4'
W	12'-0"	11'-0"	10'-0"	9'-0"	8'-0"	7'-2"	6'-2"	5'-2"	4'-2"	3'-2"
C	4'-0"	3'-8"	3'-4"	3'-0"	2'-8"	2'-4"	2'-0"	1'-8"	1'-4"	1'-0"
B	8'-0"	7'-4"	6'-8"	6'-0"	5'-4"	4'-10"	4'-2"	3'-6"	2'-10"	2'-2"
F	1'-6"	1'-4"	1'-2"	1'-2"	1'-2"	1'-2"	1'-2"	1'-2"	1'-2"	1'-2"
S	1'-11"	1'-10"	1'-9"	1'-8"	1'-7"	1'-6"	1'-5"	1'-4"	1'-3"	1'-2"
© Bars	⅞@14	⅞@17	¾@24	⅝@11	⅝@15	⅝@30				
ⓐ Bars	1⅛@7	1¼@8½	1⅛@8	1⅛@11	1⅛@15	¾@7½	⅝@8	⅝@12	⅝@24	⅝@36
ⓓ Bars	1⅛@7	1⅛@8½	1"@8	1"@11	1"@15	⅞@7½	½@8	½@12	⅝@24	⅝@36
Conc. c.f./ft.	52.1	45.0	38.5	33.8	29.5	24.3	20.2	16.3	12.6	8.9
Steel lbs/ft.	309	233	177	123	90	56	47	28	20	14
Toe Press.	4480	4000	3590	3290	2980	2640	2270	1930	1570	1240
H.Comp.lbs.	11630	9730	8000	6540	5240	4070	3050	2170	1440	850
V.Comp.lbs.	27070	22690	18670	15260	12180	9760	7340	5230	3460	2020
e ft.	1.90	1.72	1.54	1.41	1.28	1.07	.94	.79	.60	.50

Note: Bar cut-offs may be varied in increments of 6"

Use Reinforcement for H= 20' | 18' | 16'



FOOTING STEP

TYPICAL LAYOUT EXAMPLE

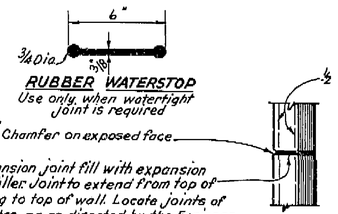
NOTES

Design Conditions:
Wall to be used for Loading Cases shown in Design and Drainage detail.
Design H may be exceeded by 6" before going to next size.
Footing Key is required except when found unnecessary by the Engineer.
Special footing design is required where foundation material is incapable of supporting toe pressure loads listed in table.

Design Data: fc = 1250 psi, fs = 20,000 psi, n=10
earth = 120 pcf and equivalent fluid pressure = 36 psf per ft. of height.

Reinforcement:
Intermediate Grade, Hard Grade or Rail Steel Deformations shall conform to A.S.T.M. A 305.
Bars shall lap 20 diameters, where spliced, unless otherwise shown on the plans.
Bends shall conform to the Manual of Standard Practice, A.C.I.
Backing for hooks is four diameters.
All bar embedments are clear distances to outside of bar.
Spacing for parallel bars is ctr. to ctr. of bars.
Bar areas are based on rounds for less than 1" and squares for over 1".

AS BUILT PLANS
Contract No. 56-6TC2
Date Completed ____
Document No. 60000987



PLAN OF EXPANSION JOINT

AS BUILT
DATE 5/10/56 BY [illegible]

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

TULARE STREET OVERCROSSING

TYPE 1 CANTILEVER RETAINING WALL

DESIGN SECTION 8
W. F. Lehman 3-55
PROJECT DESIGNER

SCALE None	BRIDGE 42-169	XS-3-36 FILE	DRAWING C-4096-5

PREL. DRAWING NO. P-4096 [illegible]

A63

98

Fc = 1250 psi

36 + 369

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DATE June 28 1971 SIGNATURE [illegible] TITLE [illegible]

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FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			94	147

P.M. 20.6

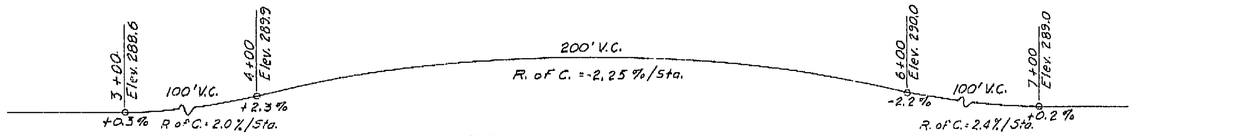
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	4	Fre	-/-	-/-

99

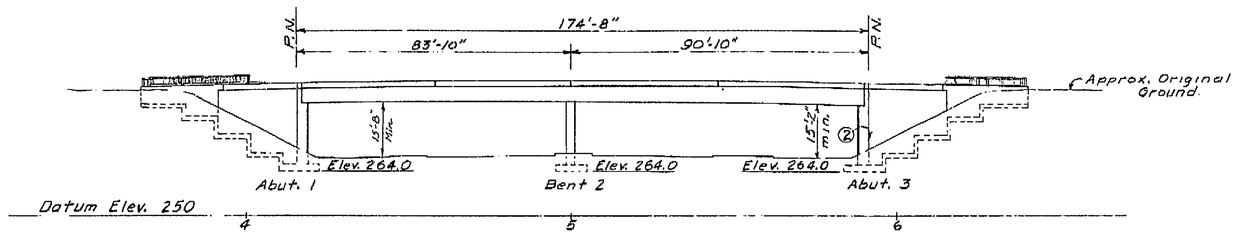
ASSISTANT STATE BRIDGE ENGINEER — CIVIL ENGINEER 5 | LICENSE 10618

DATE APPROVED December 27, 1955

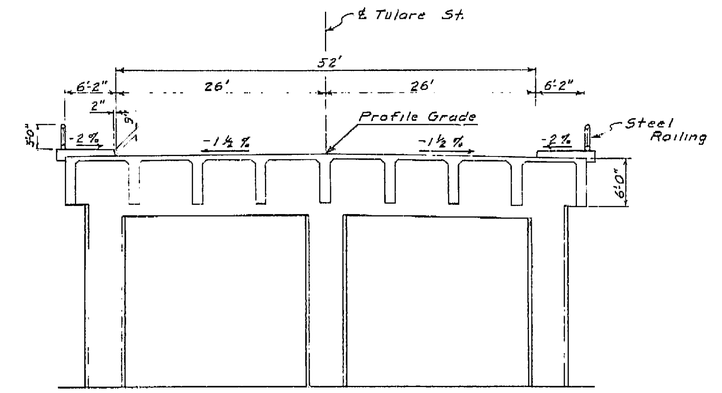
STATE BRIDGE ENGINEER — CIVIL ENGINEER — LICENSE 20868



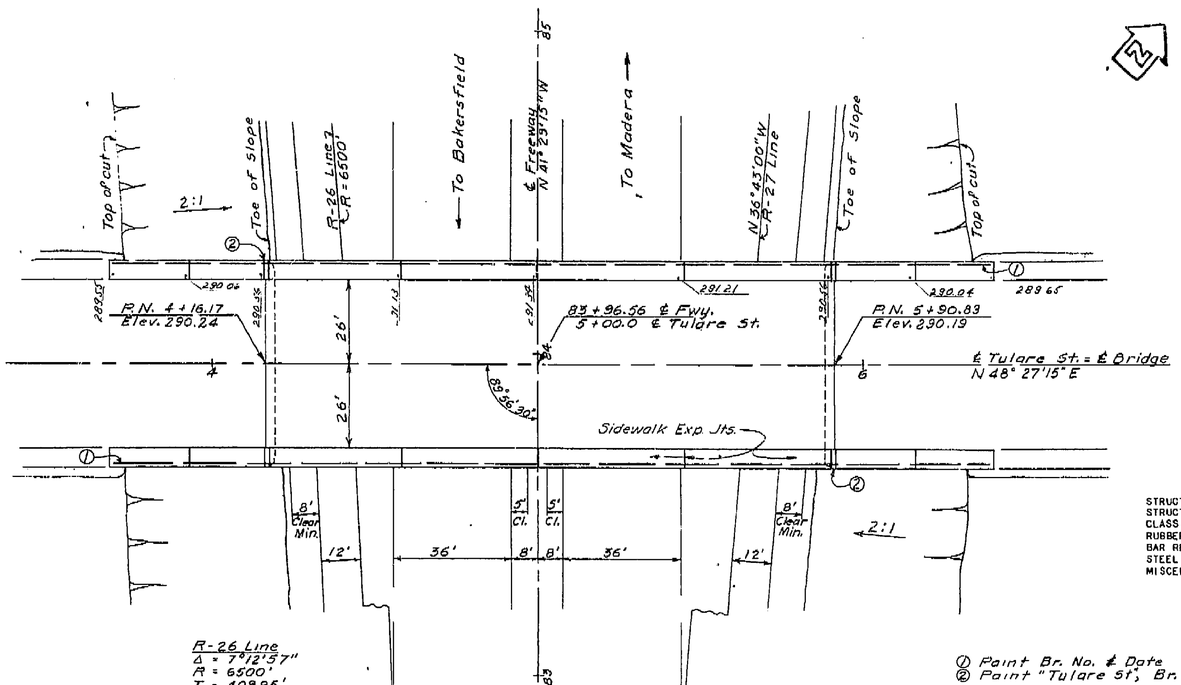
PROFILE GRADE



ELEVATION
Scale 1" = 20'



TYPICAL SECTION
Scale ⅛" = 1'-0"



PLAN
Scale 1" = 20'

R-26 Line
Δ = 7°12'57"
R = 6500'
T = 409.85'
L = 818.61'

79+70.0 B.C. R-26 = 44' Lt. 79+70.0 ℄ Fwy.

81+50.0 P.O.T. R-27 = 44' Rt. 81+50.0 ℄ Fwy.

① Paint Br. No. & Date
② Paint "Tulare St", Br. No. & Date.

L.L.: H 20-516-44

AS BUILT PLANS
Contract No. 56-6TC2
Date Completed
Document No. 60000987

INDEX TO PLANS

Sheet No.	Title
1.	General Plan
2.	Foundation Plan
3.	Abutment Layout
4.	Abutment Details
5.	Type I Cantilever Retaining Wall
6.	Bent 2
7.	Girder Layout
8.	Typical Section & Girder Reinforcement
9	Standard Details
10.	Log of Test Borings
11.	Lighting Plan

APPROXIMATE QUANTITIES

STRUCTURE EXCAVATION	1,050 C.Y.
STRUCTURE BACKFILL	1,550 C.Y.
CLASS A CONCRETE (BRIDGE)(1500 C.Y.)	LUMP SUM
RUBBER WATERSTOPS	135 L.F.
BAR REINFORCING STEEL (BRIDGE)(310,000 LBS.)	LUMP SUM
STEEL RAILING	542 L.F.
MISCELLANEOUS STEEL	7,600 LBS.

See Kern St Overcrossing Br. No. 42-159 for:
Concrete Girder Placing Diagram,
Bearing Details, - "Miscellaneous Details" sheet.
Railing Details, - "Steel Railing" sheet.

AS BUILT
DATE 6/4/56 BY C.S. Wilson

56-6 TC 2
For General Notes see "Foundation Plan" sheet.

BRIDGE DEPARTMENT				
DESIGN SECTION 8				
Project Designer W. T. Johnson 3-55				
Chief Designer Arthur H. Siegenthaler				
DESIGN	By W. T. Johnson 3-55	Checked L. K. Lloyd 3-55		
DETAILS	By W. T. Johnson 2-55	Checked L. K. Lloyd 3-55		
QUANTITIES	By W. T. Johnson 5-55	Checked L. K. Lloyd 5-55		
SPECIFICATIONS	By [illegible] 7-15-55	Plans and Sheets Compared		
Approval Recommended by [illegible] Bridge Engineer		Chief and Supervising Civil Engineer 5435		

56-6 TC 2

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

TULARE STREET OVERCROSSING
AT THE EXISTING INTERSECTION OF "O"
℄ TULARE STREETS IN THE CITY AND
COUNTY OF FRESNO

GENERAL PLAN

SCALE As Noted | BRIDGE 42-169 | FILE | DRAWING P-4096-1

PREL. DRAWING No. P-4096

94

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

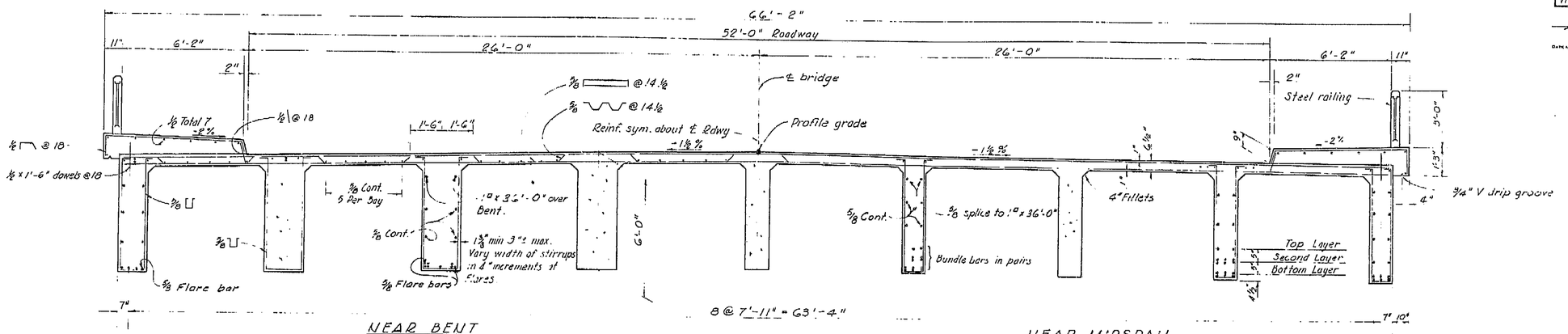
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7	CALIF.			101	147

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	-41-	Fre	-8-	-11-

DATE APPROVED: December 27, 1955

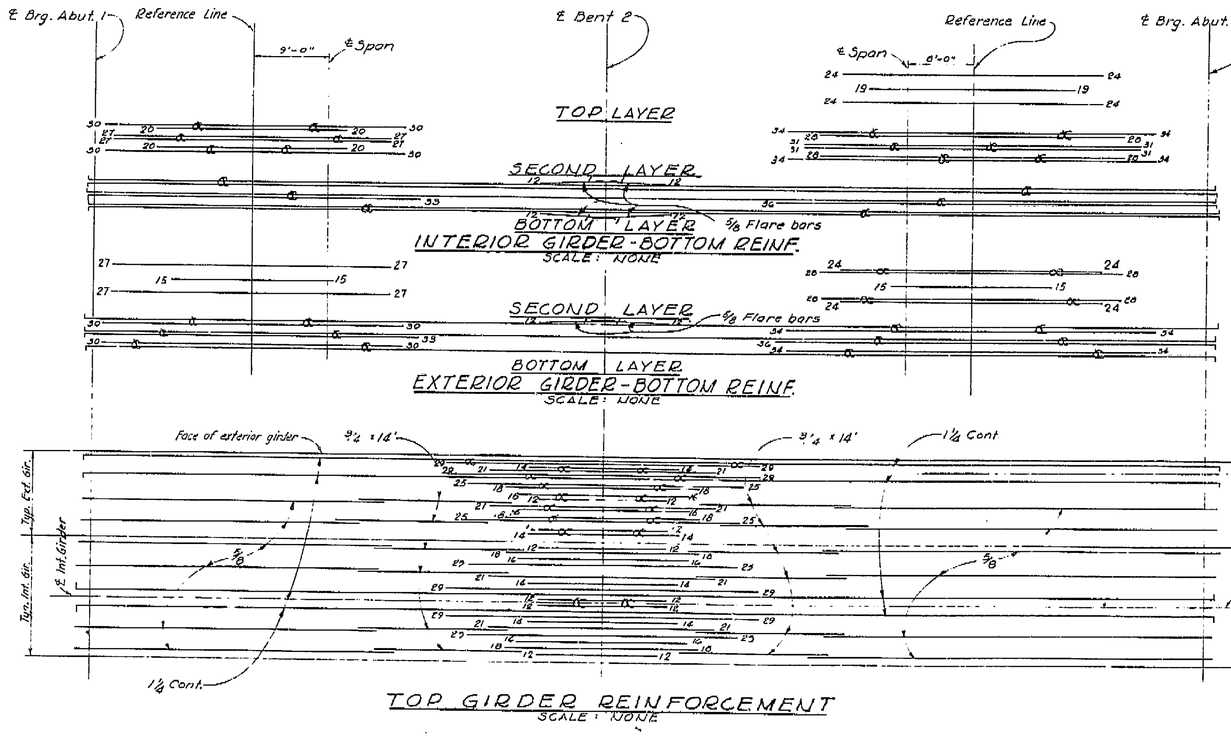


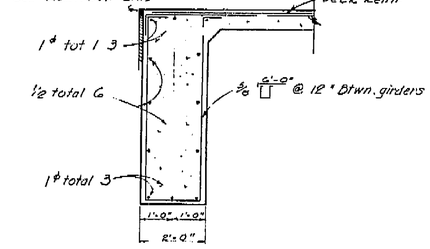
NEAR BENT

NEAR MIDSPAN

TYPICAL SECTION

SCALE: ⅜" = 1'-0"





SECTION
END DIAPHRAGM
SCALE: ½" = 1'-0"

AS BUILT PLANS
Contract No. 56-6Tc2
Date Completed
Document No. 60000987

NOTES:
All bars are 1¼" except as noted.
No bottom reinforcement splices permitted in center ⅓ of span.
Lap all splices 35 diameters, and stagger.
Numbers at ends of bars are distances in feet from reference line or center line Bent 2.
⊂⊃ Indicates bundled bars

AS BUILT
DATE 7/6/ BY

BRIDGE DEPARTMENT
··· DESIGN SECTION ··· 8
Project Designer W. F. Johnson 3-55
Chief Designer [illegible]

DESIGN	W. F. Johnson 3-55	Checked	[illegible] 5-55
DETAILS	[illegible]	Checked	[illegible] 5-55
QUANTITIES	[illegible]	Checked	[illegible] 5-55
SPECIFICATIONS		Plans Supervising Engineer	
Approved Recommended by	[illegible] Engineer of Design	Chief of Structural Engr. Sacramento	[illegible]

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

TULARE STREET OVERCROSSING

TYPICAL SECTION & GIRDER REINFORCEMENT

SCALE AS NOTED | BRIDGE 42-169 | FILE | DRAWING C-4096-8-B

PREL. DRAWING No. P-4096 10 15 22 29

101

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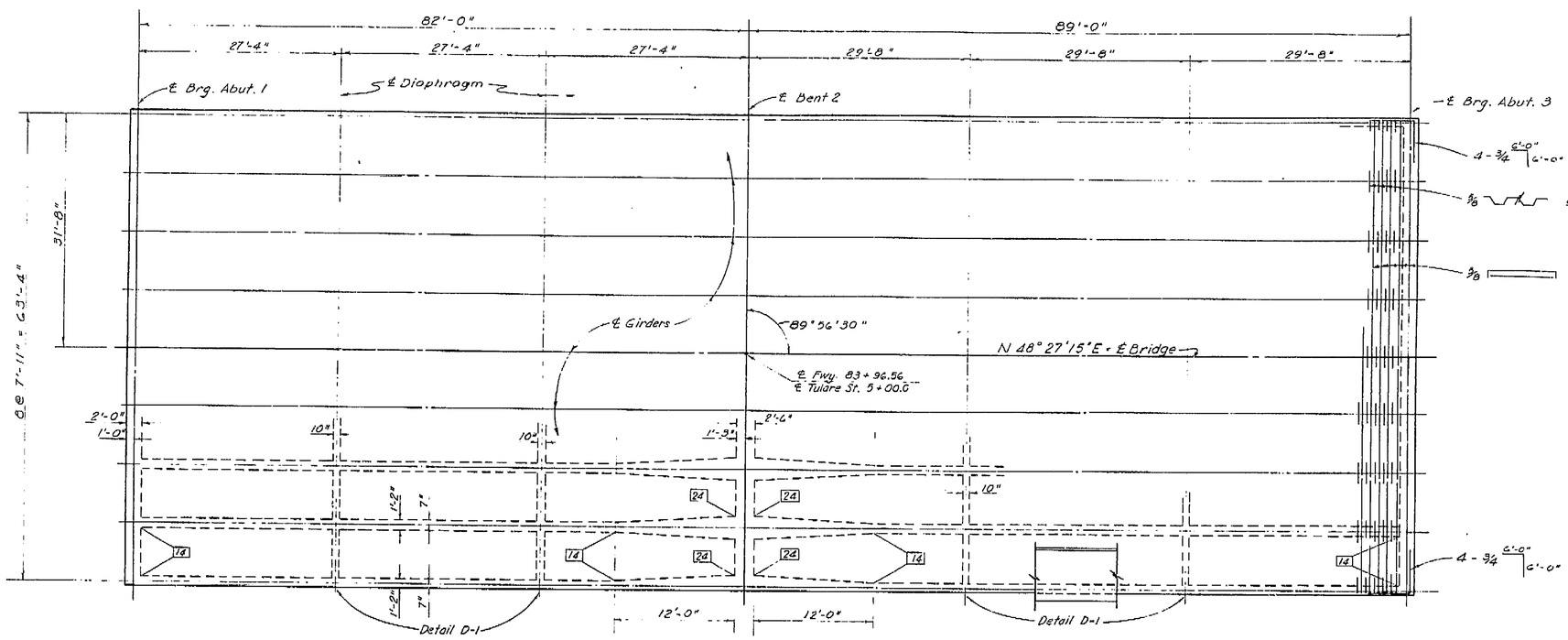
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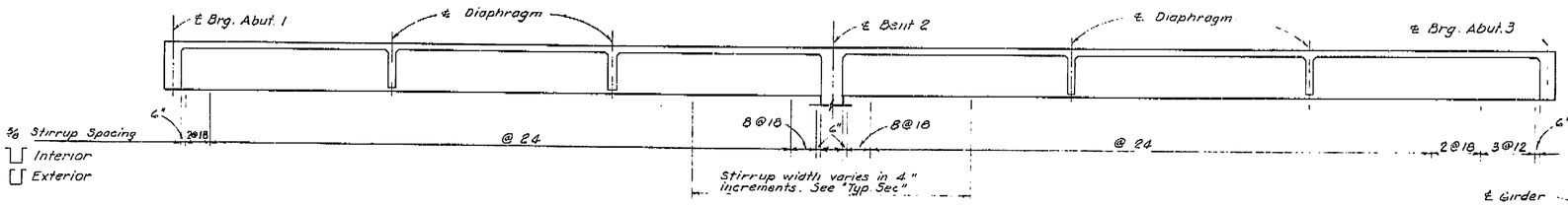
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7	CALIF.			100	147

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	41	-Fre	-9-	-11-

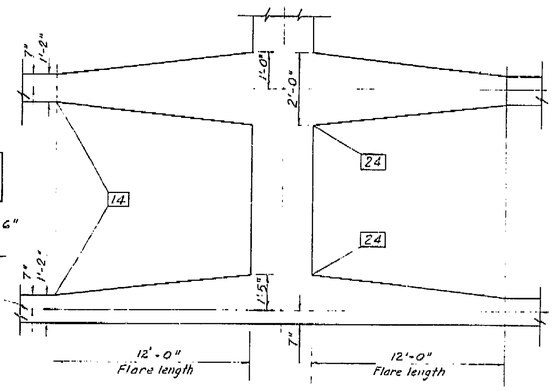
Date Approved December 27, 1955



PLAN
SCALE: 1/8" = 1'-0"

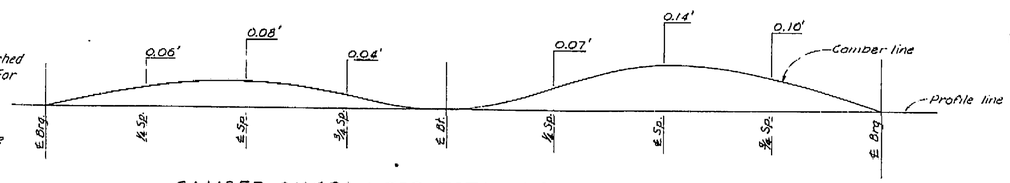


SECTION
SCALE: 1/8" = 1'-0"



GIRDER FLARE DETAIL
NO SCALE

NOTE: The total deflection will be reached about 4 years after falsework removal. For values at time of falsework removal, divide those shown by 4.
The amount of camber for construction will be determined by the Engineer.



CAMBER DIAGRAM FOR TOTAL GIRDER DEFLECTION DUE TO DEAD LOADS

AS BUILT
DATE 5/10/71 BY J.P. Clarke

BRIDGE DEPARTMENT
DESIGN SECTION
Project Designer W. F. Johnson 3-55
Chief Designer Clinton A. Bigenwald

DESIGN	By W. F. Johnson 3-55	Checked J. Hollerand 3-55	
DETAILS	By John Layman 4-55	Checked J. Hollerand 3-55	
QUANTITIES	By C.W.L. 4-55	Checked J. Hollerand 5-55	
SPECIFICATIONS	By	Plans and Reports Completed	
Approval Recommended by W. F. Johnson Bridge Engineer		Drawing Approved Chief Bridge Engineer 5/31/55	

8

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

TULARE STREET OVERCROSSING

GIRDER LAYOUT

SCALE AS SHOWN | BRIDGE 42-169 | FILE | DRAWING C-4096-2.1

PRELIM. DRAWING No. P-4096 8-21-28

AS BUILT PLANS
Contract No. 56-6TC2
Date Completed
Document No. 60000987

100

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DATE [illegible] SIGNATURE [illegible] TITLE [illegible]

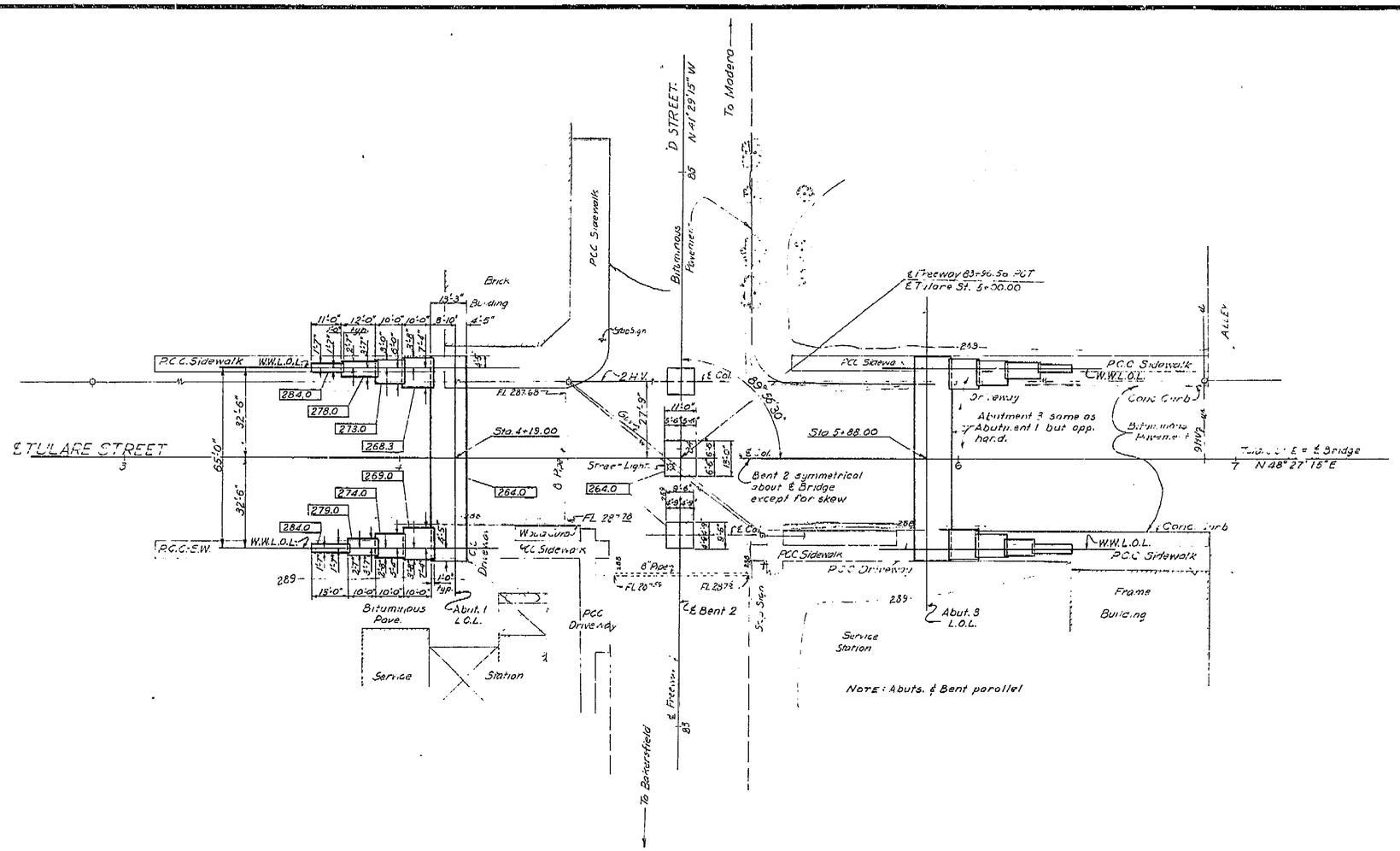
ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.			95	147

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	41	FRE-2		147

DATE APPROVED December 27, 1955

BRIDGE DEPARTMENT



AS BUILT PLANS
Contract No. 56-67C2
Date Completed
Document No. 60000987

AS BUILT
DATE / / BY

000.00 indicates bottom of ftg. elevs.
Contours as of Nov. 1954

BM #1
1½" Rush in cl. in curb, 45' Rt. Tangent St. Line Sta. 29+35.35

BM #84.2
RR Spike in P.P. NW cor. Tulare & D St. Elev. 285.22

Bench Marks based on City of Fresno Datum

GENERAL NOTES

SPECIFICATIONS:
GEN. A.A.S.H.O. DATED 1953 WITH SUPPLEMENT REVISIONS, AND BRIDGE DEPARTMENT SUPPLEMENT DATED 1955.

CONSTRUCTION: STANDARD SPECIFICATIONS, DIVISION OF HIGHWAYS, DATED AUGUST 1954 AND THE SPECIAL PROVISIONS.

LIVE LOADING: H20-S16-44

UNIT STRESSES:
REINFORCED CONCRETE: F_s = 20,000 P.S.I., F_c = 1250 P.S.I., N = 10

FOOTING PRESSURE:

ELEV	ULTIM. LOAD
280-288	6.5 TONS P.S.F.
273-280	5.5 TONS P.S.F.
264-273	4.5 TONS P.S.F.
AT OR BELOW 264	4.0 TONS P.S.F.

REINFORCEMENT: EMBEDMENT IS CLEAR TO OUTSIDE OF BAR AND IS 2" TO MAIN REINFORCEMENT, EXCEPT AS NOTED. PACKING FOR HOOKS IS FOUR DIAMETERS, EXCEPT AS NOTED.
BAR AREAS ARE BASED ON ROUNDS FOR LESS THAN 1" AND SQUARES FOR OVER 1".
WHERE REINFORCING BARS ARE SPLICED THEY SHALL HAVE A 20 DIAMETER LAP UNLESS OTHERWISE CALLED FOR ON THE PLANS.

	Submitted by	Approved & Recommended by	Approved
DESIGN	W. F. Johnson 2-55		
DETAILS	W. F. Johnson 2-55		
QUANTITIES	W. F. Johnson 2-55		
SPECIFICATIONS	[illegible]		

Surveyed by FCL 11-54
Drawn by JSN 1-55
Traced by JGG 2-14-55

95

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

TULARE STREET OVERCROSSING

FOUNDATION PLAN

DESIGN SECTION	SCALE	BRIDGE	FILE	DRAWING
8	1" = 20'	42-169	E-42	B-4096-2 F

W. F. Johnson 3-55
PROJECT DESIGNER

REL. DRAWING NO. B-4096 4 1/2 47 24

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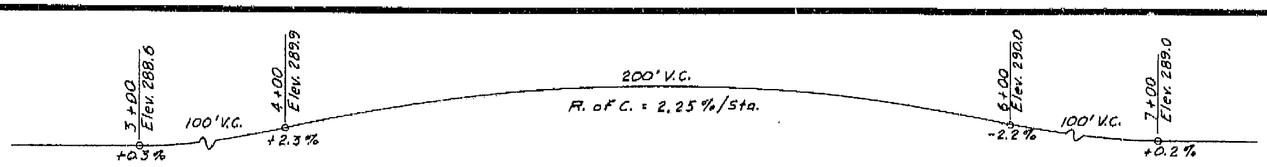
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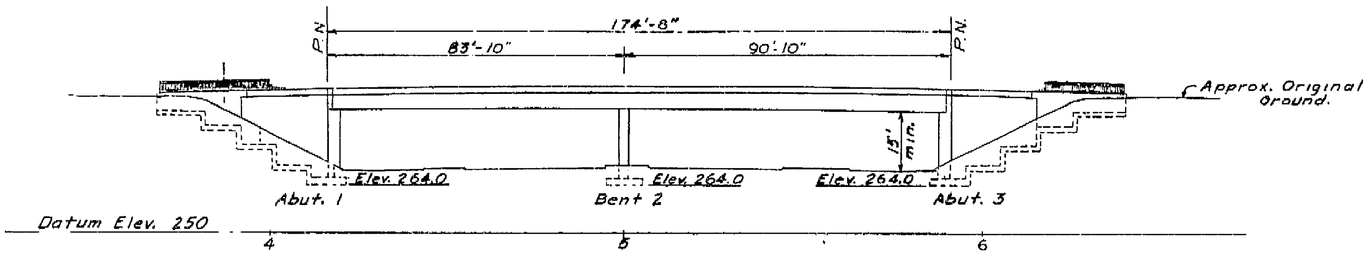
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7	CALIF.			104	147

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	-4-	Fre	1-1-	-1-1-

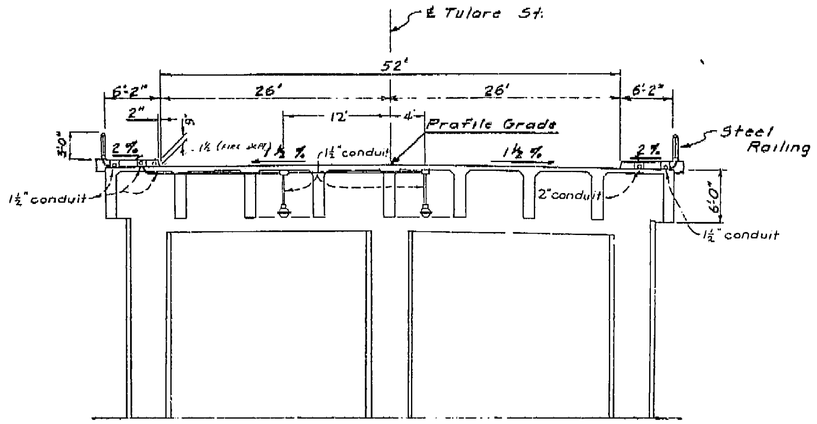
C. T. Webb
ASSISTANT DISTRICT ENGINEER
DATE APPROVED December 27, 1955
TRAFFIC ENGINEER
CIVIL ENGINEER LICENSE NO. 5429



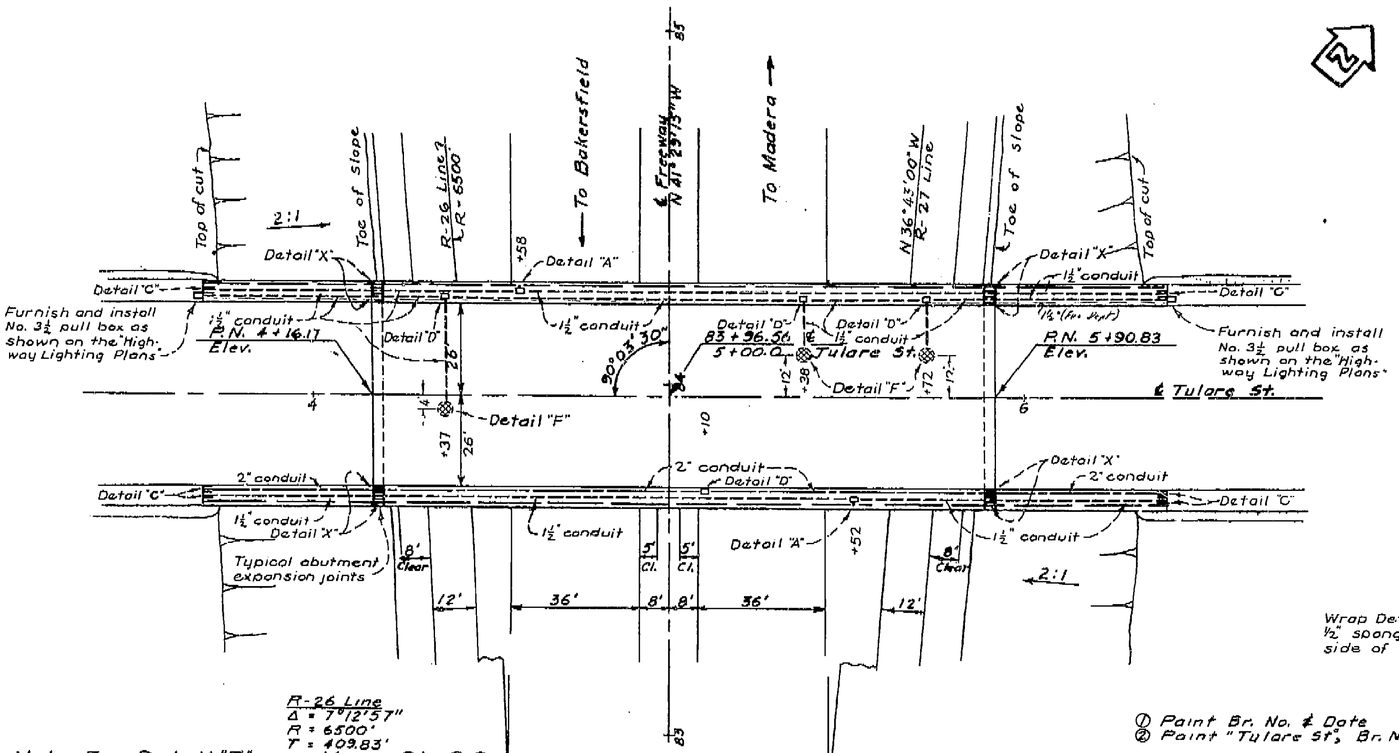
PROFILE GRADE



ELEVATION
Scale 1" = 20'



TYPICAL SECTION
Scale ⅛" = 1'-0"



R-26 Line
Δ = 7°12'57"
R = 6500'
T = 409.83'

Note: For Detail "F" see Kern St. O.C. "Lighting Plan" sheet.
For Details "A", "C", "D" and "X" see Ventura St. O.C. "Standard Electrical Details-Bridge" sheet.
This plan accurate for lighting only.

PLAN
Scale 1" = 20'

- - - - 1½" conduit
——·—— 2" conduit
——≡—— Conduit expansion joint, Detail "X"
□ Pull box, Detail "D"
E- - - Conduit stub, Detail "C"
⊗ Pendant type luminaire, Detail "F"

Wrap Detail "X" at wingwall joint with ½" sponge rubber for 1'± on each side of expansion joint.

① Paint Br. No. & Date
② Paint "Tulare St." Br. No. & Date.

Note -
For lighting reinf. see Ventura St. O.C. "Light. Reinf." Sh.

L.L.: H20-S16-44

AS BUILT PLANS
Contract No. 56-6TC2
Date Completed
Document No. 60000987

AS BUILT
DATE 5/10/57 BY C. T. Webb

BRIDGE DEPARTMENT
··· DESIGN SECTION ··· 8
Project Designer W. F. Johnson 3-55
Chief Designer

DESIGN	By Dist.	Checked	Dist.
DETAILS	By	Checked	"
QUANTITIES	By "	Checked	"
SPECIFICATIONS	By	Name and Struct. Contracted	
Approved Recommended by		Chief and Structural Engr. License No.	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

TULARE STREET OVERCROSSING
AT THE EXISTING INTERSECTION OF "O" & TULARE STREETS IN THE CITY AND COUNTY OF FRESNO

LIGHTING PLAN

SCALE	BRIDGE	FILE	DRAWING
As Noted	42-169		

PREL. DRAWING NO. P- 4096 | 1

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE Jun 23 1971 SIGNATURE [illegible] TITLE Asst Supervising Highway Engr

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DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
2	CAL.			102	147

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	4	FRE	-9-	-11-

December 27, 1956

STANDARD DWG

	Initial	Date
	R.A.	10-53

revised:

BRIDGE DEPARTMENT

DESIGN
DETAILS
QUANTITIES
SPECIFICATIONS

Wall Reinf. for size and spacing see Abutment details

ABUTMENT BACKWALL
DETAIL U1

END DIAPHRAGM
DETAIL U2

4" Fillets

BENT CAP
DETAIL U3

1'-6" Min.

1'-0" Min.

INTERMEDIATE DIAPHRAGM
DETAIL U4

5/8 @ 12± x 6-0

3/4

5/8 @ 15

Typical Slab reinforcement

5/8

10"

Diaphragm normal to deck grade

3/4

6"

Bottom of girder

INTERMEDIATE DIAPHRAGM SECTION
DETAIL D1

AS BUILT PLANS
Contract No. 56-6TC2
Date Completed
Document No. 60000987

Edger finish and fill with asphalt

1/4 Span Length

Main Reinf.

Const. Jt.

TRANSVERSE SLAB BRIDGE
DETAIL J-1

℄ Bent or abutment

At center of stem use Detail J-20

3/4" keys 1'-0"± long spaced 1'-0"± clear

1'-6"

Within this limit use Detail J-21

Mid way between girders

Within this limit use Detail J-22

Slab

3/4" Key

Edger Finish and fill with asphalt, all joints.

Reinforcement continuous thru all joints

Raised Keys

3/4" Keys, See Plan

Stem

DETAIL J-20

DETAIL J-21

DETAIL J-22

UTILITY OPENINGS

Const. Jt. in slabs to be parallel to slab Reinf.

For optional location see placing Diagram.

3/4" Key

Edger finish and fill with asphalt

1# 1'-6" x 6-0 Total 4 Place against Stirrup

Normal to Girder

Reinforcement continuous thru Joint

Stop horizontal bars 2" from the diagonal bars or the construction Jt. where necessary

0.2 Span Length±

℄ Bent (Shown) or Abutment

2-1# between 0.2 points of spans except if noted otherwise in the Reinforcement details.

TRANSVERSE GIRDER
DETAIL J-3

1 1/2" x 6" x 1'-0" Raised key in deck slab on low side only

Construction Joint

Raised Keys

Slab

1"

18"±

Construction Joint

Stem

Stirrups

SECTION A-A

Straight surface joint

3/4"

1'-0"±

1 1/2"±

Note: Location of longitudinal construction joints in slabs to be at edge of traffic lanes except as approved by the Engineer

PART PLAN X-X

LONGITUDINAL DECK SLAB

Keys 12"x1 1/2" over 50% of area

Const. Jt. normal to cap or diaphragm

2 - 1# x 5'-0" Total 4 for 10" diaphragms.
4 - 1# x 5'-0 Total 8 for 18" diaphragms
At mid-height of diaphragm.

Reinforcement continuous thru joint.

Limits for Bent Cap

Girder

12"±

Girder

Limits for Diaphragm

4 - 1" x 5-0 Total 16, equally spaced.

Stop key 3" from exposed surfaces

BENT CAP DIAPHRAGMS
LONGITUDINAL
DETAIL J-4

CURB
DETAIL C1

SIDEWALK
DETAIL S1

CURB AND SIDEWALK EXPANSION JOINTS

NOTE: In simple spans place joint at midspan. In continuous spans place joint over ℄ interior piers or bents and at midspans.

3/4" Exp. Jt. Mtl.

Slab

Raised Keys

Set key in 2"± where construction Jt. is exposed

Construction Jt. shown at maximum height

Stem

Stirrups

PART SECTION INTERIOR GIRDER

PART SECTION EXTERIOR GIRDER WITH SLAB CANTILEVER

PART SECTION EXTERIOR GIRDER WITH CURB

KEY - GIRDER STEM TO SLAB
DETAIL J-5

6"

#" Dia.

1/2" Exp. Jt. Mat'l.

6" Rubber Waterstop

RUBBER WATERSTOP
DETAIL W1

3/4" Min. for asphalt-latex

1/2" Edger Finish

Asphalt-latex joint filler. Place in deck, only, unless shown otherwise.

2"

Exp. Jt. Mat'l. Size as detailed

LATEX AT EXPANSION JOINT
DETAIL L1

Tempered Masonite smooth side down over 1/2" Celotex or equal.

For use where watertight joint is required.

DETAIL M-1

CONSTRUCTION JOINTS

AS BUILT
DATE 5/30/57 BY J.E. Calvert

DESIGN SECTION 8
W. F. Hilburn 3-55
PROJECT DESIGNER

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

TULARE STREET OVERCROSSING

STANDARD DETAILS

SCALE None	BRIDGE 42-169	XS-16-21	DRAWING C-4096-9

PREL. DRAWING NO. P-4096

T BEAM

102

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE June 29, 1971 SIGNATURE _____ TITLE _____

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California Department of Transportation
Division of Maintenance

Structure Maintenance and Investigations

BRIDGE

INSPECTION

RECORDS

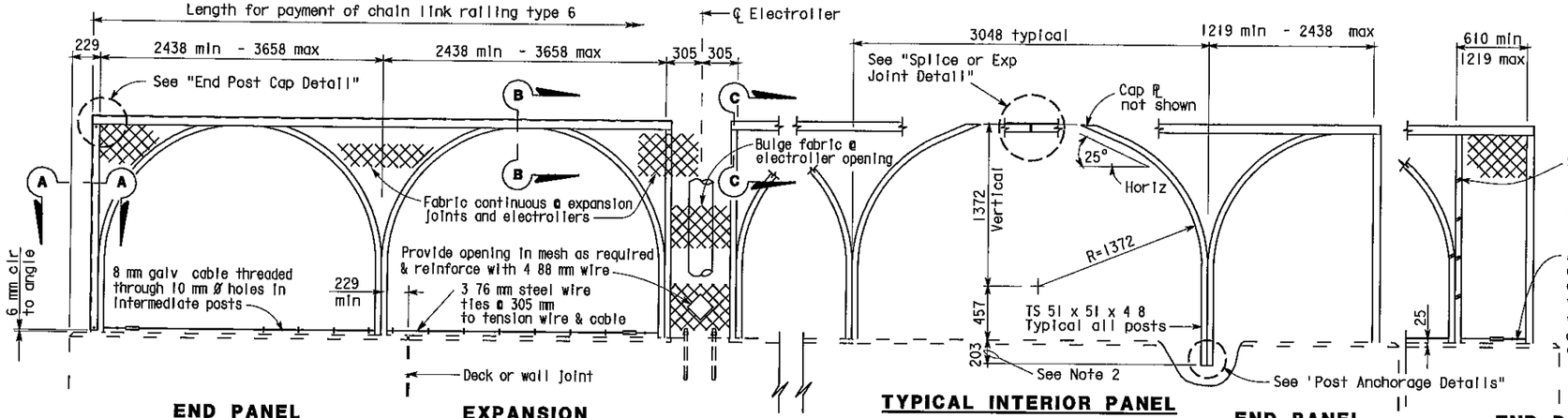
INFORMATION

SYSTEM

The requested documents have been generated by BIRIS.

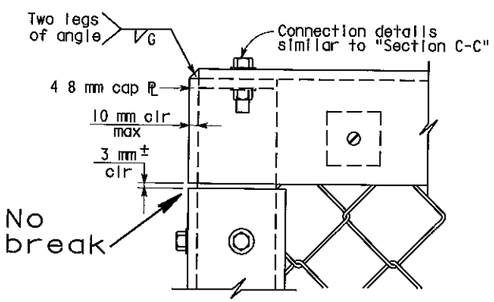
These documents are the property of the California Department of Transportation and should be handled in accordance with Deputy Directive 55 and the State Administrative Manual.

Records for “Confidential” bridges may only be released outside the Department of Transportation upon execution of a confidentiality agreement.

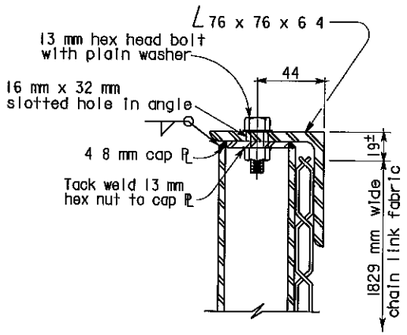


END PANEL 2438 mm - 3658 mm | **EXPANSION PANEL AT ELECTROLIER** | **TYPICAL INTERIOR PANEL** | **END PANEL 1219 mm - 2438 mm** | **END PANEL 610 mm - 1219 mm**

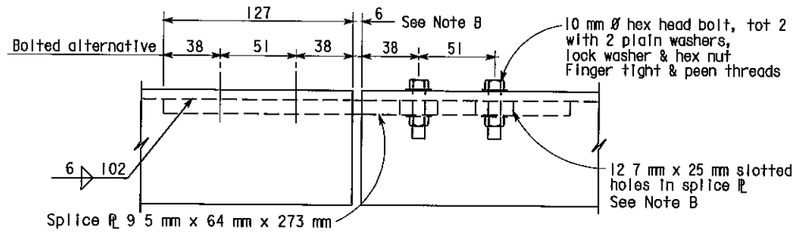
ELEVATION



END POST CAP DETAIL

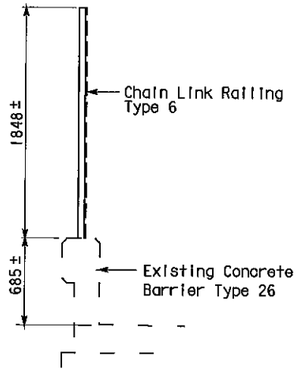


SECTION C-C

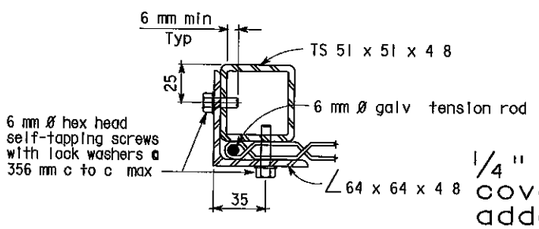


SPLICE OR EXPANSION JOINT DETAIL

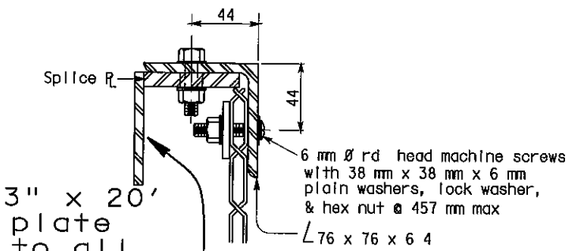
Note B Expansion joint same dimension as expansion joint in deck or wall Increase slotted hole length and splice ℙ length correspondingly



TYPICAL SECTIONS



SECTION A-A



SECTION B-B

NOTES

1. Horizontal angle shall be continuous over not less than two intermediate posts except that a shorter length is permitted at expansion joints, electrollers and other rail discontinuities
2. One post may be embedded 152 mm minimum to accomodate grade changes, otherwise fabricate post lengths as required
3. Curved posts may be rotated in plan within its post pocket to accomodate curved horizontal alignment
4. Straight posts and straight portions of curved posts shall be installed normal to bridge profile grade
5. Top horizontal angle shall be parallel to bridge profile grade and shall be shop bent to fit horizontal curves
6. When railing is on slope, fabric shall be placed parallel to slope
7. Alternative details may be submitted by Contractor for Engineer's approval
8. Railing assembly except chain link fabric shall be galvanized after fabrication
9. For details and reinforcement not shown, see "Concrete Barrier Type 25 or 26" sheet
10. See Bridge Plans for limits of Chain Link Railing Type 6 Mod
11. Provide thimbles at all cable loops
12. Chain link fabric to be 1829 mm wide with 25 mm mesh and with knuckled selvage top and bottom
13. When railing is placed on a horizontal alignment with a radius of 45 72 m or less, thread 8 mm cable through 10 mm Ø welded eye rods embedded 102 mm into the top of the concrete parapet and equally spaced to limit the middle ordinate distance between the 8 mm cable and the curve to 25 mm max
14. Splices and expansion joints shall be located at ℄ panel
15. Holes in posts for 8 mm cable and its anchorage may be field drilled and painted with zinc rich paint

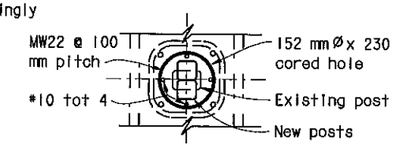
AS BUILT

MRC 1-3-03

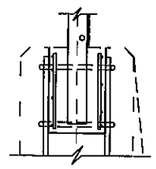
CORRECTIONS BY John Borquez

CONTRACT NO 06-440104

DATE 11-14-02



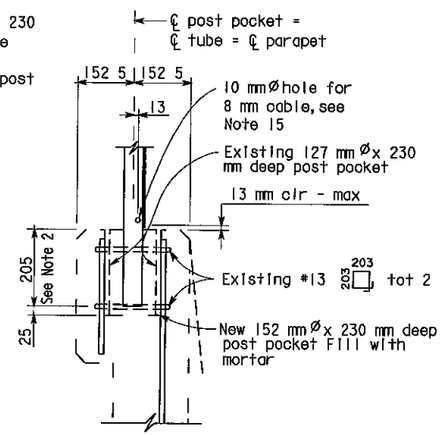
PLAN



SECTION

Detail omitted

POCKET DETAILS



POST ANCHORAGE DETAIL

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	130	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

DESIGN	BY D Acoba	5/00	CHECKED F Tannous	5/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY K Endow	5/00	CHECKED F Tannous	5/00	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE
QUANTITIES	BY D Acoba	5/00	CHECKED F Tannous	5/00	BRIDGE NO Various; KILOMETER POST Varies

ROUTE 99 BRIDGES

CHAIN LINK RAILING TYPE 6 MOD NO. 1

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV 10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE > nat61.dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/17/00 | 9/26/00 | 10/3/00

SHEET 8 OF 11

USERNAME mcarlson DATE PLOTTED > 03-JAN-2003 TIME PLOTTED => 12:11

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	131	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

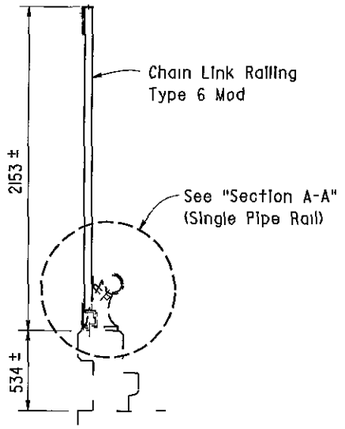
REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

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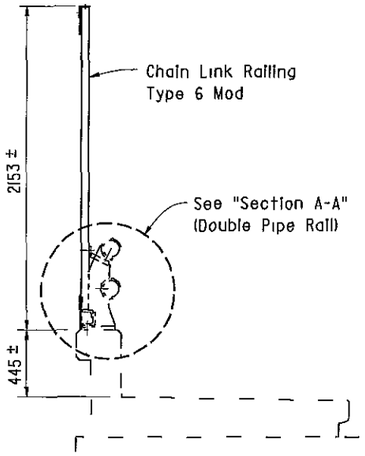
NO CORRECTIONS
AS BUILT

MRC 1-3-03

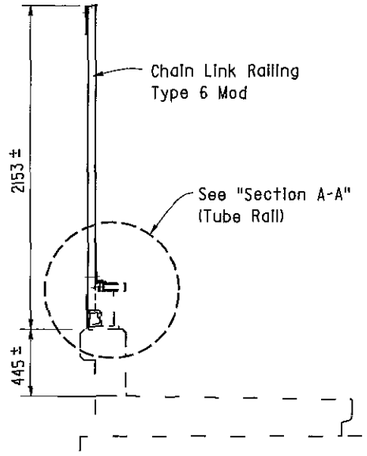
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02



TYPE 1



TYPE 5



TYPE 12

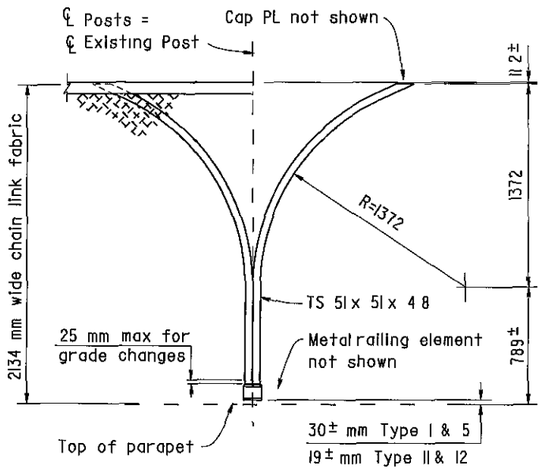
BARRIER RAILING SECTIONS

Existing chain link railing not shown

I 20

TYPE A
- NORTH AVE OC - 2 Locations
- CHURCH AVE OC - 4 Locations
- CALIFORNIA AVE OC - 4 Locations
- VENTURA ST OC - 4 Locations

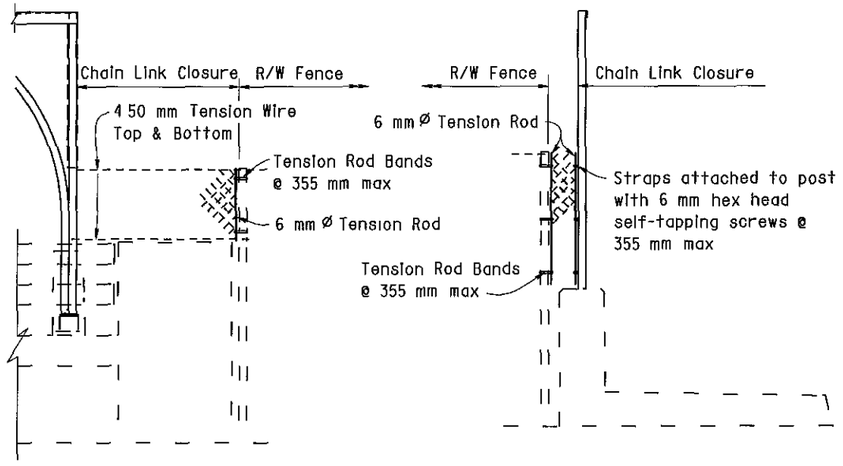
TYPE B
- KERN ST OC - 4 Locations
- TULARE ST OC - 4 Locations
- EL DORADO ST OC - 4 Locations



PART OUTSIDE ELEVATION

Note For details and notes not shown, see "Chain Link Railing Type 6 Mod No 1" sheet

I 10

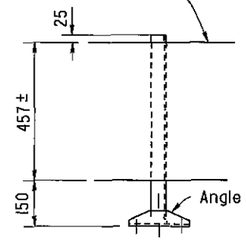


TYPE A TYPE B

R/W FENCE CONNECTION

I 10

Remove existing sign panels and reinstall on new post



TULARE ST OC

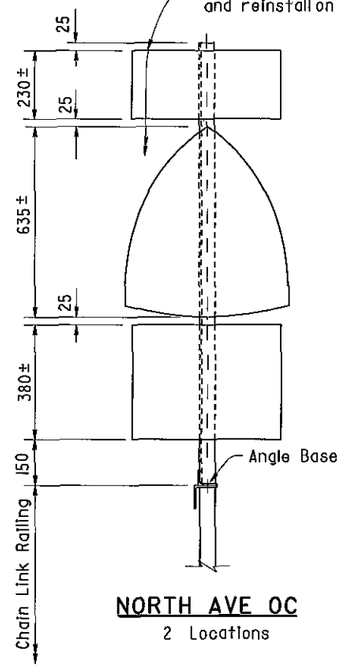
4 Loactions

Note

Reinstall signs at approximately the same location on chain link railing as existing

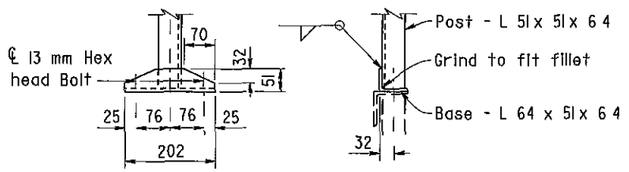
NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Remove existing sign panels and reinstall on new post



NORTH AVE OC

2 Locations



ANGLE BASE

Note

Hot dip galvanize sign post after fabrication
Field drilled holes to be painted with zinc rich paint

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

	BY		CHECKED	
DESIGN	D Acoba	5/00	F Tannous	5/00
DETAILS	K Endow	5/00	F Tannous	5/00
QUANTITIES	D Acoba	5/00	F Tannous	5/00

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
CHAIN LINK RAILING TYPE 6 MOD NO. 2

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE > nat62.dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/17/00 | 9/26/00 | 10/3/00

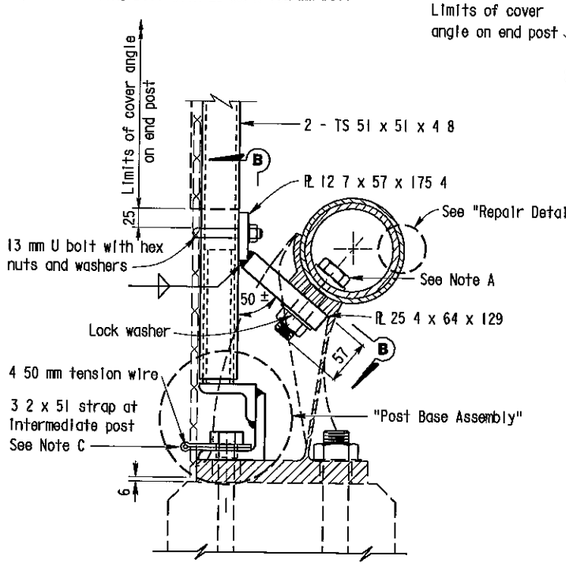
SHEET 9 OF 11

USERNAME => mcarlson DATE PLOTTED > 03-JAN-2003 TIME PLOTTED > 13:23

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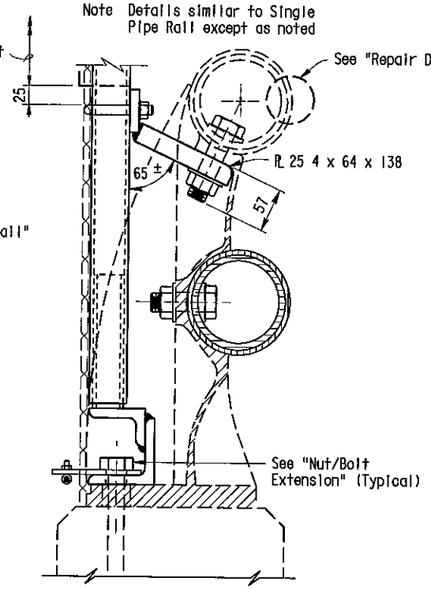
Note A

Replace existing bolt with 25 mm x 102 mm bolt



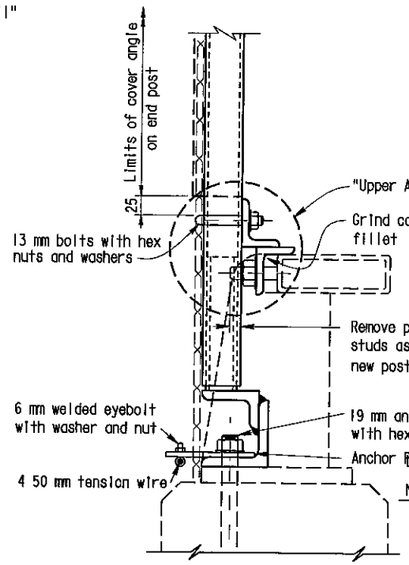
SECTION A-A (SINGLE PIPE RAIL)

Note Details similar to Single Pipe Rail except as noted



SECTION A-A (DOUBLE PIPE RAIL)

Note Details for Type 9 and Type 11 Metal Railing are similar, Type 11 not shown



SECTION A-A (TUBE RAIL)

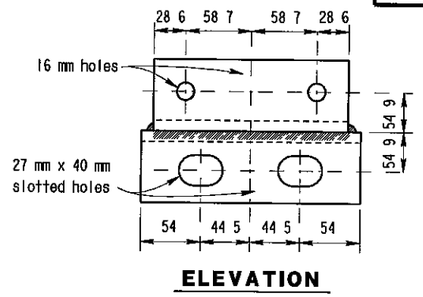
NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Note B

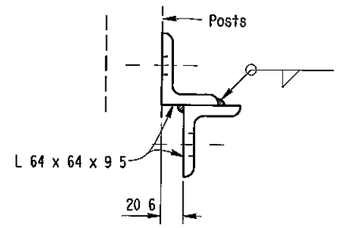
Paint all cut and ground surfaces with zinc rich paint

Note C

At intermediate posts only contractor has an alternate of 3 mm x 51 mm strap or 6 4 mm anchor plate with eyebolt



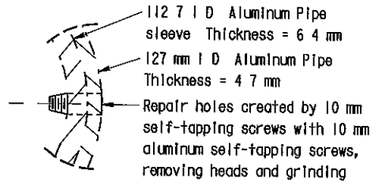
ELEVATION



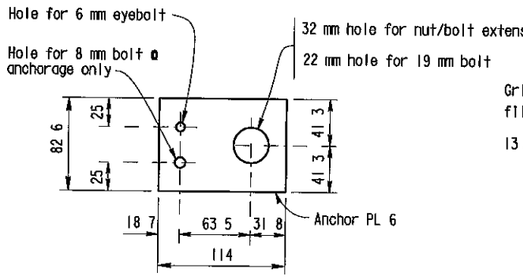
SIDE VIEW

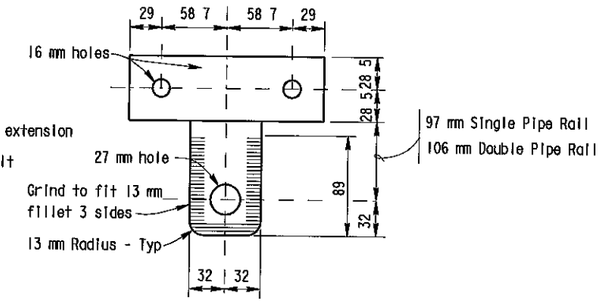
UPPER ANGLE BRACKET

ATTACHMENT DETAILS



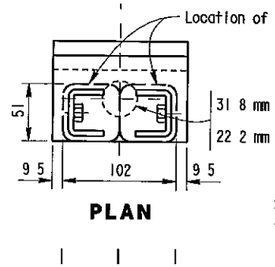
REPAIR DETAIL



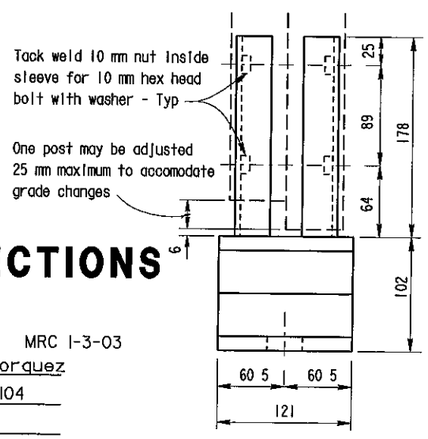


VIEW B-B

(Developed view of upper bracket)

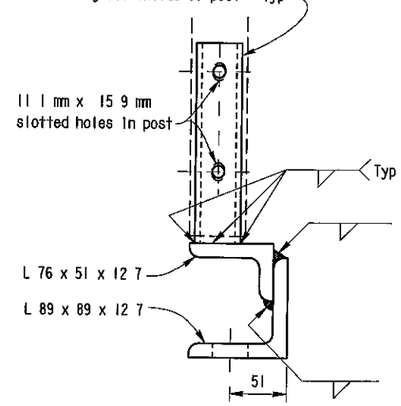


PLAN



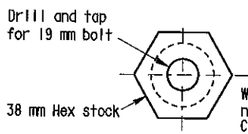
ELEVATION

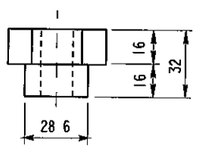
Sleeve formed from PL 4 7, bent thus ⊔ for sliding fit inside of post - Typ



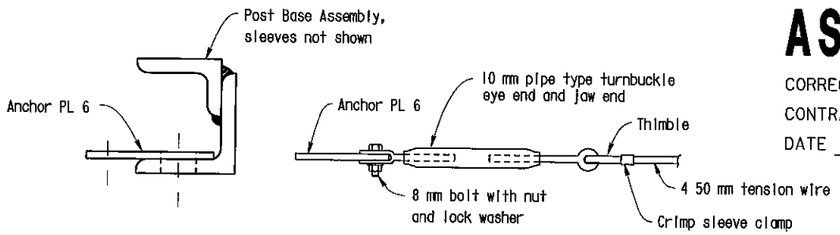
SIDE VIEW

POST BASE ASSEMBLY





NUT/BOLT EXTENSION



BOTTOM ANCHORAGE DETAIL

NO CORRECTIONS AS BUILT

MRC 1-3-03

CORRECTIONS BY John Borquez

CONTRACT NO 06-440104

DATE 11-14-02

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	132	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DIOSDADO ACOBA No 52003 Exp 12-31 02 CIVIL STATE OF CALIFORNIA

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DESIGN	BY D Acoba	5/00	CHECKED F Tannous	5/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY K Endow	5/00	CHECKED F Tannous	5/00	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE
QUANTITIES	BY D Acoba	5/00	CHECKED F Tannous	5/00	CU 06015 EA 440101

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
CHAIN LINK RAILING TYPE 6 MOD NO. 3

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

FILE > nat63 dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

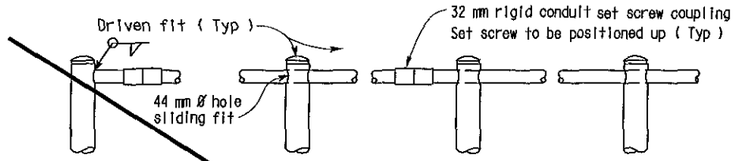
REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 7/17/00 9/26/00 10/3/00

SHEET 10 OF 11

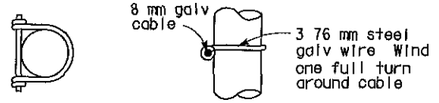
USERNAME > mgarlson DATE PLOTTED > 03 JAN 2003 TIME PLOTTED > 13:26

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RELEASED 6-9-98



END POST **INTERMEDIATE POSTS**



PLAN **ELEVATION**

DETAIL H

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
06	Fre	99	23 3/50 7	133	133

10-3-00
REGISTERED ENGINEER - CIVIL

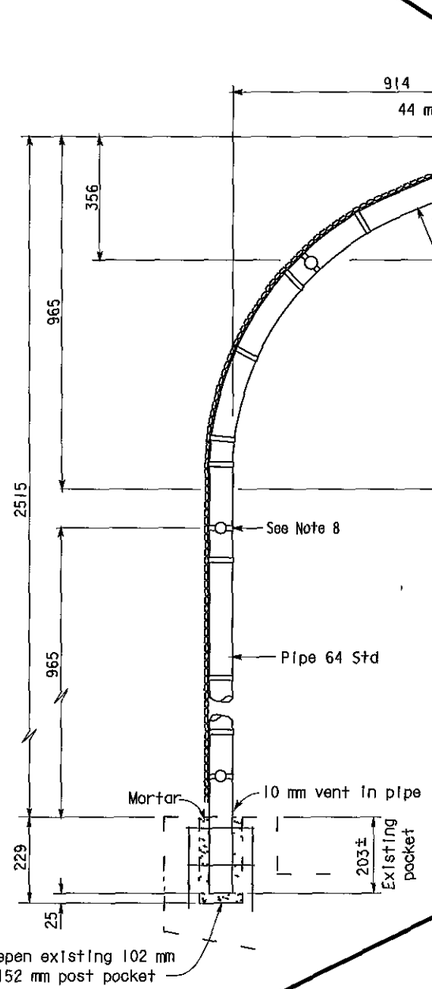
11-13-00
PLANS APPROVAL DATE

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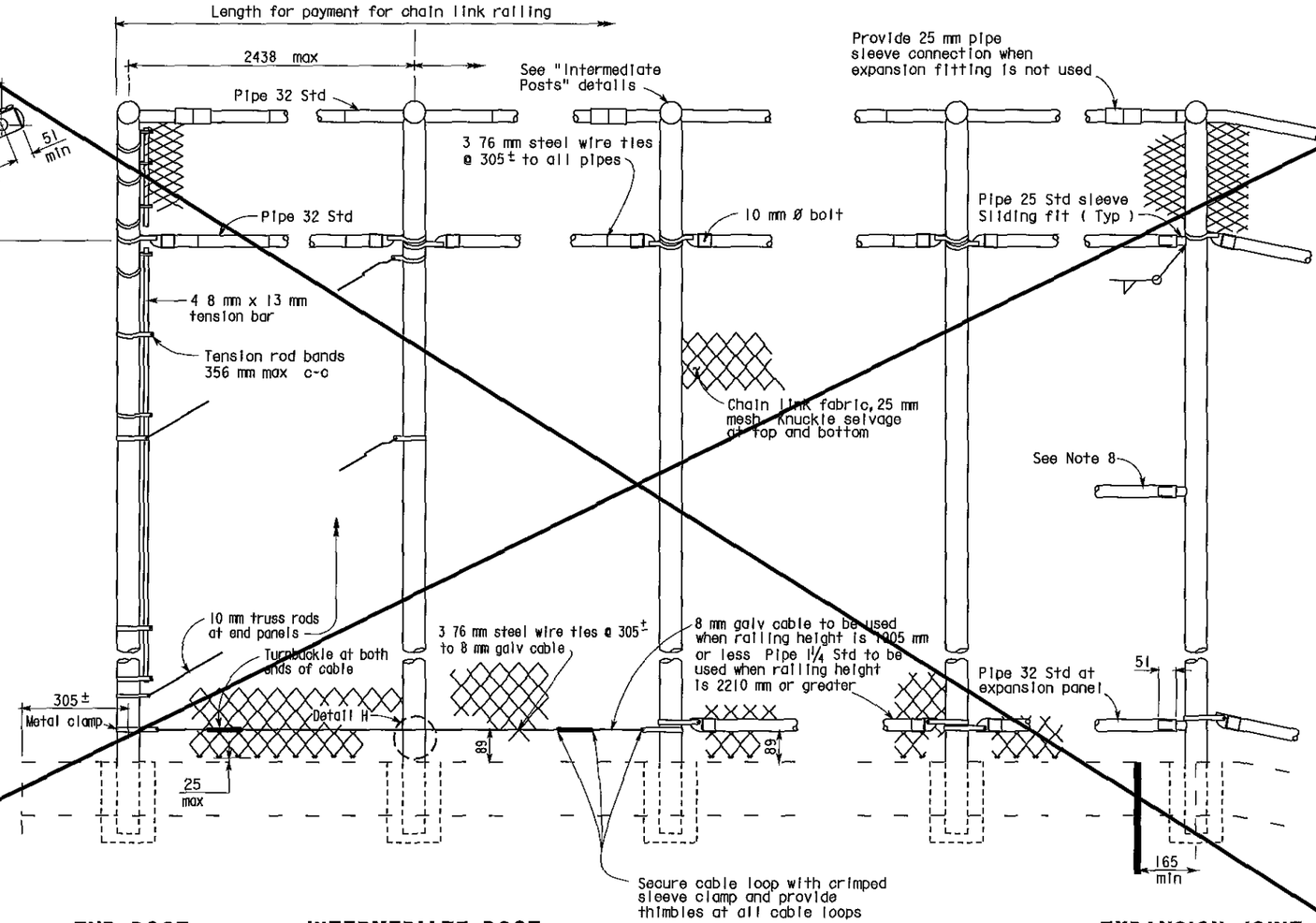
REGISTERED PROFESSIONAL ENGINEER
DIOSDADO ACOBA
No 52003
Exp 12 31 02
CIVIL
STATE OF CALIFORNIA

NOTES:

1 Railing assembly except chain link fabric to be galvanized after fabrication
2 Railing shall conform to horizontal and vertical alignment Posts shall be vertical Horizontal pipes shall be bent if radius is 45 72 m or less may be on 2 438 m chords If radius is over 45 72 m
3 Peen all 10 mm Ø bolts
4 When railing is on slope fabric shall parallel to slope
5 Alternative details may be submitted by Contractor for Engineer's approval
6 Additional pipe 32 std required on radius less than 45 72 m



TYPICAL POST DETAIL



END POST **INTERMEDIATE POST** **EXPANSION JOINT**

ELEVATION

Sheet Deleted

No Type 3 Modified Railing was used on this contract

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

SPECIAL DETAIL

NO SCALE
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

STANDARD DRAWING				
FILE NO XS 9 81	DESIGN BY R W BISHOP	CHECKED J HAMAGUCHI	APPROVAL RECOMMENDED BY	
DRAWING DATE Revised	DETAILS BY R YEE	CHECKED J HAMAGUCHI		
	SUBMITTED BY R W BISHOP		DESIGN SUPERVISOR	

DS OSD 2147A (METRIC) (REV 2/25/97)

1 Revised sheet - removed handrailing and electrical details and notes

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

CU 06105
EA 452001

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
CHAIN LINK RAILING TYPE 3 MOD 1

DISREGARD PRINTS BEARING EARLIER REVISION DATES
REVISION DATES (PRELIMINARY STAGE ONLY) 5/30/00 7/17/00 9/28/00 10/3/00

SHEET 11 OF 11

USERNAME > mgarlson
x5981 dgn
XS981 DGN

DATE PLOTTED > 03-JAN-2003 TIME PLOTTED > 13 32

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NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Caltrans Metric

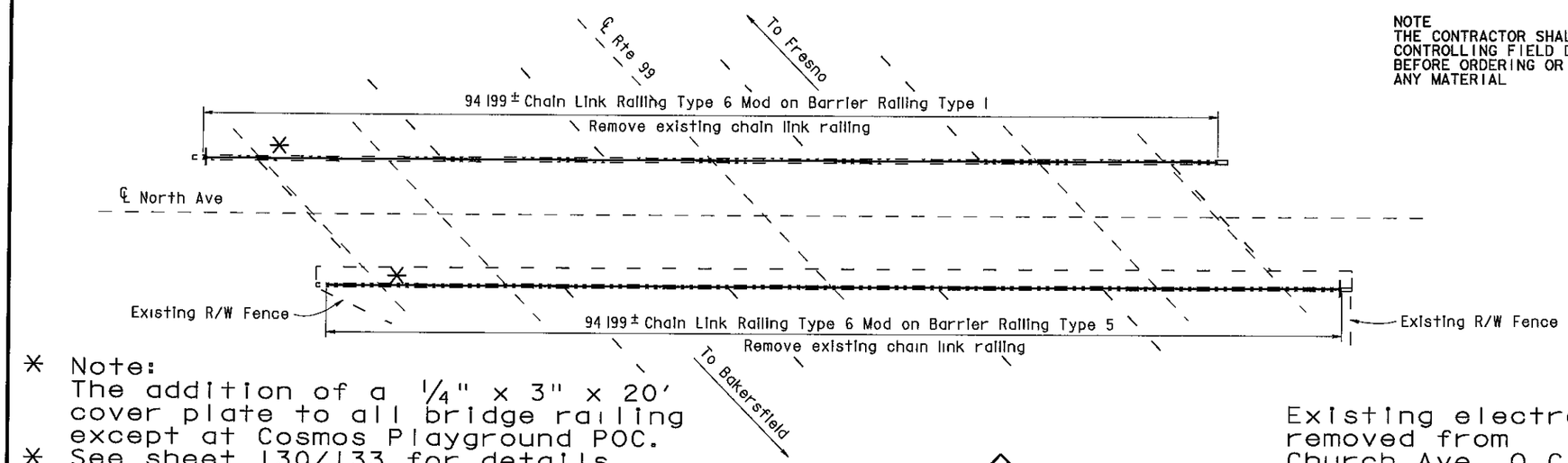
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	123	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DIOSDADO ACOBA
No 52003
Exp 12-31-02
CIVIL
STATE OF CALIFORNIA

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* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

NORTH AVENUE OC

Br No 42-0210, Fre, KP 27 8
1 250

Existing electroliers removed from Church Ave. O.C.

NOTES

— — Indicates existing

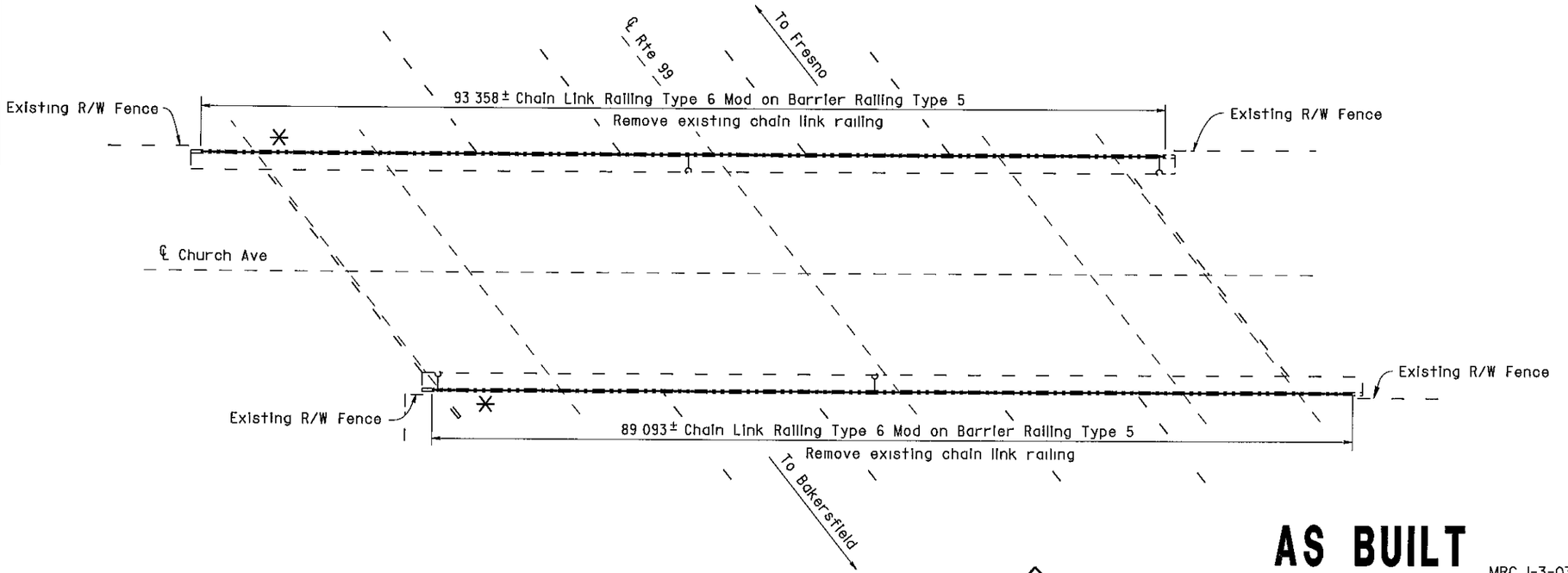
℄ Indicates approximate location of existing electrolier (To remain)

Indicates approximate location of remove and reinstall sign on new post

Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details

INDEX TO PLANS

SHEET NO	TITLE
1	GENERAL PLAN NO 1
2	GENERAL PLAN NO 2
3	GENERAL PLAN NO 3
4	GENERAL PLAN NO 4
5	GENERAL PLAN NO 5
6	GENERAL PLAN NO 6
7	GENERAL PLAN NO 7
8	CHAIN LINK RAILING TYPE 6 MOD NO 1
9	CHAIN LINK RAILING TYPE 6 MOD NO 2
10	CHAIN LINK RAILING TYPE 6 MOD NO 3
11	CHAIN LINK RAILING TYPE 3 MOD



CHURCH AVENUE OC

Br No 42-0214, Fre, KP 30 9
1 250

AS BUILT MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

NORTH AVENUE OC 42-0210
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION A	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	189 m

CHURCH AVENUE OC 42-0214
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION B	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	183 m

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED		BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00	LAYOUT	K Endow	4/00	D Acoba	4/00
DETAILS	K Endow	4/00	F Tannous	5/00				PLANS AND SPECS COMPARED	
QUANTITIES	D Acoba	5/00	F Tannous	5/00	SPECIFICATIONS	J Maroney	9/00	J Maroney	9/00

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 1

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 5/15/00 7/17/00 9/26/00 10/3/00

SHEET 1 OF 11

FILE -> nagpl.dgn

USERNAME -> mgarson DATE PLOTTED -> 02 JAN 2003 TIME PLOTTED -> 16:55

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	127	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

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FRESNO STREET OC 42-0170
QUANTITIES

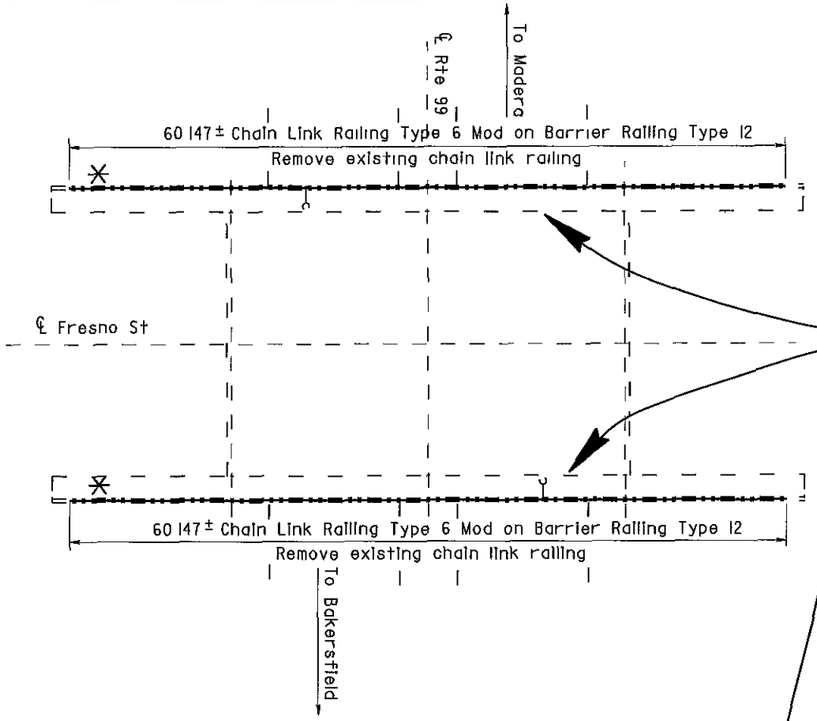
BRIDGE REMOVAL (PORTION), LOCATION J	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	120 m

EL DORADO STREET OC 42-0184
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION K	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	122 m

BELMONT AVENUE OC 42-0186
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION L	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	138 m



Handrail added to Fresno St. and Belmont Ave. OC

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

NOTES

— — Indicates existing

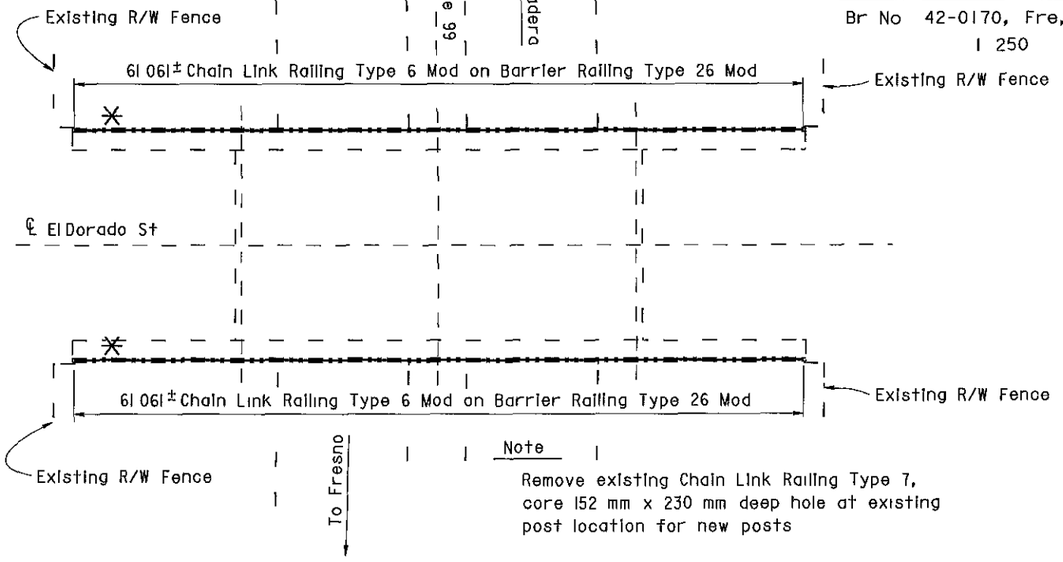
℄ Indicates approximate location of existing electrolier (To remain)

Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

FRESNO STREET OC

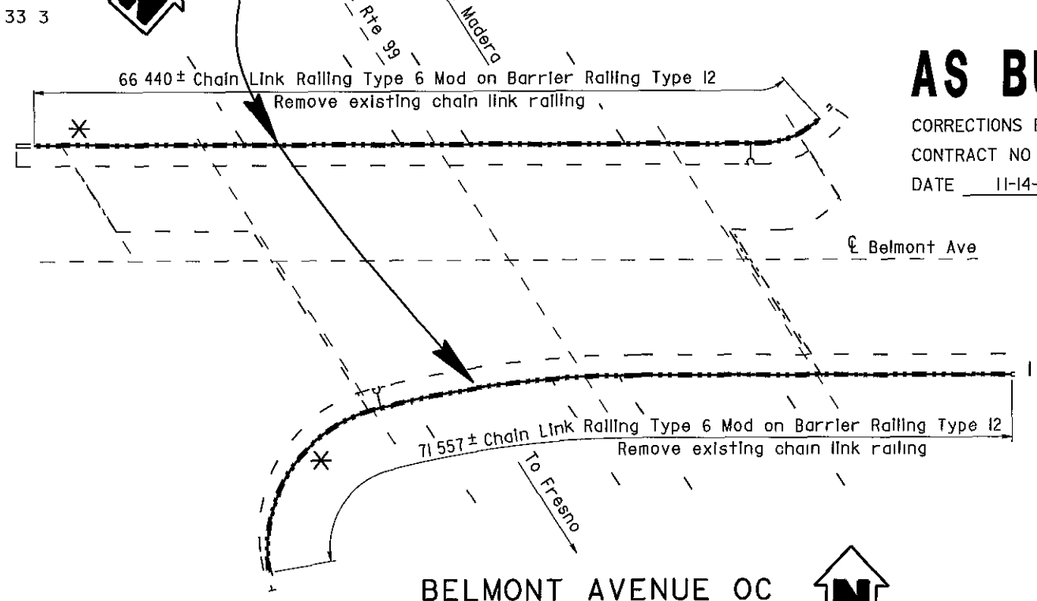
Br No 42-0170, Fre, KP 33 3
1 250



Note
Remove existing Chain Link Railing Type 7, core 152 mm x 230 mm deep hole at existing post location for new posts

EL DORADO STREET OC

Br No 42-0184, Fre, KP 34 6
1 250



BELMONT AVENUE OC

Br No 42-0186, Fre, KP 36 5
1 250

AS BUILT
MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED		LAYOUT	BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00		K Endow	4/00	D Acoba	4/00
DETAILS	K Endow	4/00	F Tannous	5/00				PLANS AND SPECS COMPARED	
QUANTITIES	D Acoba	5/00	F Tannous	5/00	SPECIFICATIONS	J Maroney	9/00	J Maroney	9/00

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

CU 06015
EA 440101

FILE => nogp5.dgn

BRIDGE NO	Various
KILOMETER POST	Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 5

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)									
5/15/00	7/17/00	9/26/00	10/3/00						

SHEET 5 OF 11

USERNAME => marison DATE PLOTTED => 03-JAN 2003 TIME PLOTTED => 06 50

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	99	23 3/50 7	125	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

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VENTURA STREET OC 42-0158K
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION E	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	78 m

VENTURA STREET OC 42-0158E
QUANTITIES

BRIDGE REMOVAL (PORTION) LOCATION F	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	122 m

VENTURA STREET OC 42-0158S
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION G	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	74 m

NOTES

— — Indicates existing

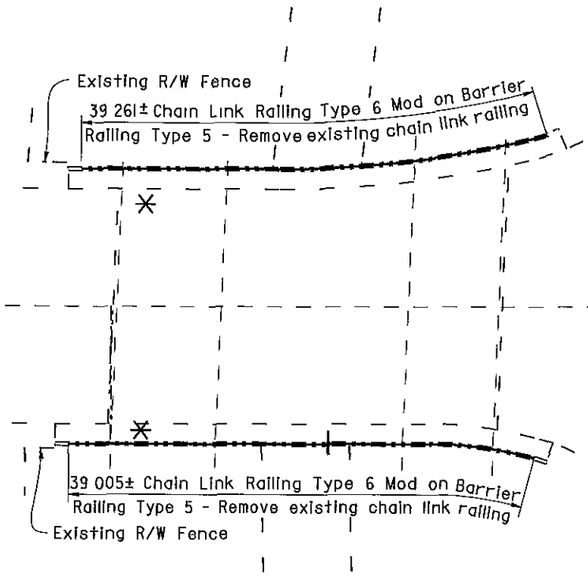
℄ Indicates approximate location of existing electroller (To remain)

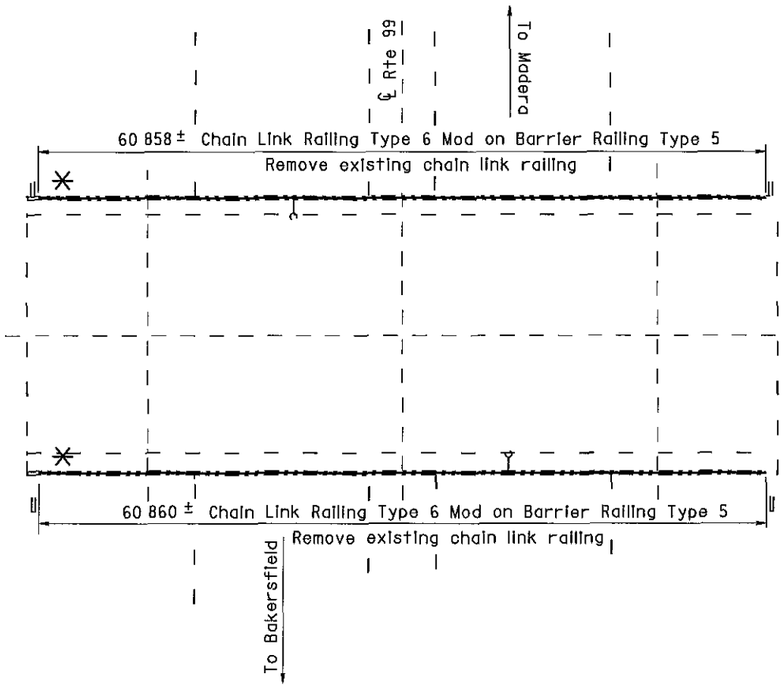
Indicates approximate location of remove and reinstall sign on new post

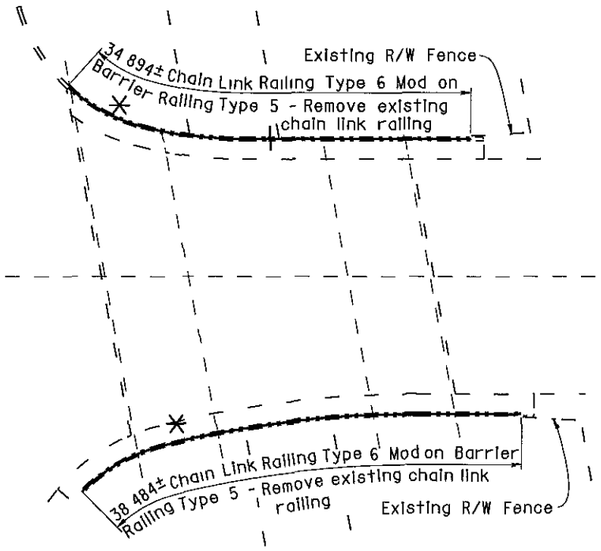
Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.







Br No 42-0158K

Bridges 42-0158K and 42-0158S were both painted with Color No. 20109 - "Deep red".

Br No. 42-0158E

VENTURA STREET OC

Fre, KP 32 5
I 250

AS BUILT
MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

Br No 42-0158S

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

	BY		CHECKED			BY		CHECKED			
DESIGN	D Acoba	4/00	F Tannous	5/00	LAYOUT	K Endow	4/00	D Acoba	4/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE
DETAILS	K Endow	4/00	F Tannous	5/00				PLANS AND SPECS COMPARED			
QUANTITIES	D Acoba	5/00	F Tannous	5/00	SPECIFICATIONS	J Maroney	9/00	J Maroney	9/00		

Michael J Lee 10/3/00
DESIGN ENGINEER

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE => nagp3.dgn

BRIDGE NO Various
KILOMETER POST Varies

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/17/00 | 9/28/00 | 10/1/00

ROUTE 99 BRIDGES
GENERAL PLAN NO. 3

SHEET 3 OF 11

USERNAME => mcarlson DATE PLOTTED => 03 JAN 2003 TIME PLOTTED => 08 32

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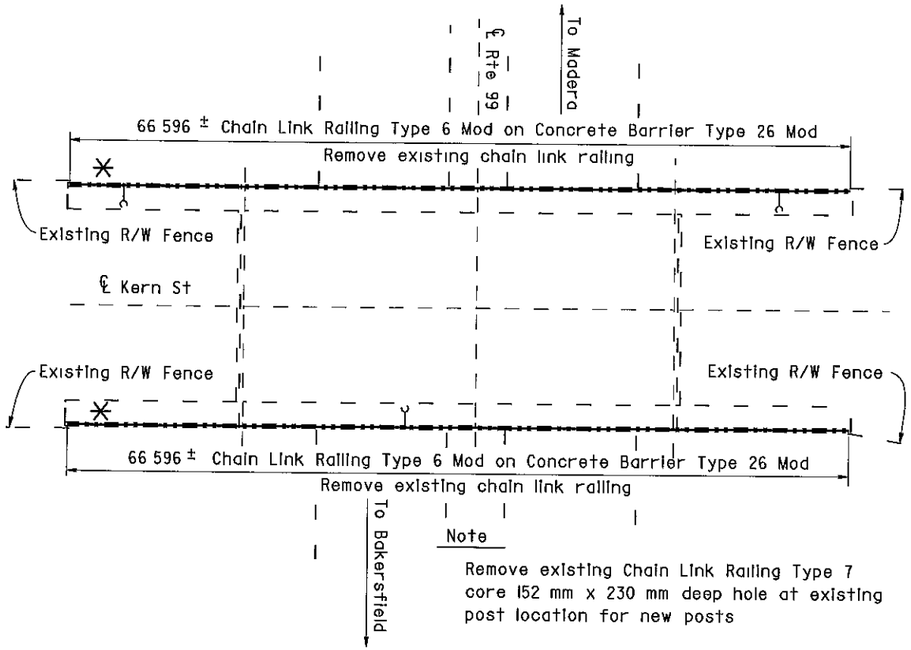
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	126	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

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Note

Remove existing Chain Link Railing Type 7 core 152 mm x 230 mm deep hole at existing post location for new posts

KERN STREET OC

Br No 42-0159, Fre, KP 33 0
1 250

KERN STREET OC 42-0159
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION H	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	133 m

TULARE STREET OC 42-0169
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION I	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	166 m

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

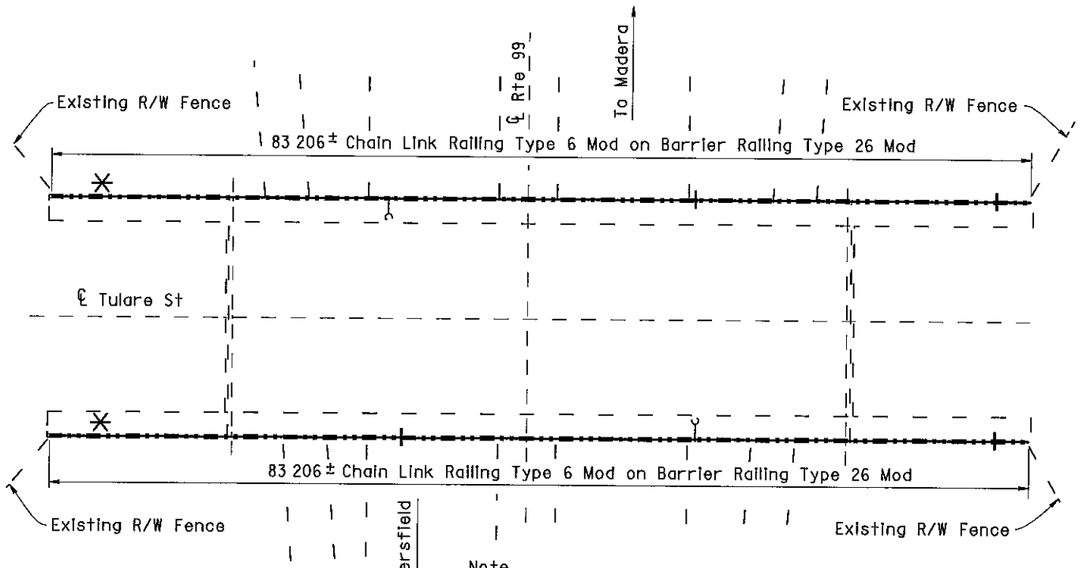
NOTES

— — Indicates existing

℄ Indicates approximate location of existing electrolier (To remain)

Indicates approximate location of remove and reinstall sign on new post

Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details



Note

Remove existing Chain Link Railing Type 7 core 152 mm x 230 mm deep hole at existing post location for new posts

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

TULARE STREET OC

Br No 42-0169, Fre, KP 33 2
1 250

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00 DESIGN ENGINEER	DESIGN	BY D Acoba 4/00	CHECKED F Tannous 5/00	LAYOUT	BY K Endow 4/00	CHECKED D Acoba 4/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE	BRIDGE NO Various
	DETAILS	BY K Endow 4/00	CHECKED F Tannous 5/00						KILOMETER POST Varies
	QUANTITIES	BY D Acoba 5/00	CHECKED F Tannous 5/00	SPECIFICATIONS	BY J Maroney 9/00	PLANS AND SPECS COMPARED J Maroney 9/00		CU 06015 EA 440101	DISREGARD PRINTS BEARING EARLIER REVISION DATES

ROUTE 99 BRIDGES
GENERAL PLAN NO. 4

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 7/17/00 9/26/00 10/3/00

SHEET 4 OF 11

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

FILE > nagp4 dgn

USERNAME > mcarlson DATE PLOTTED > 03-JAN-2003 TIME PLOTTED => 08:38

ClibPDF - www.fastio.com

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	129	133

10/3/00
REGISTERED CIVIL ENGINEER

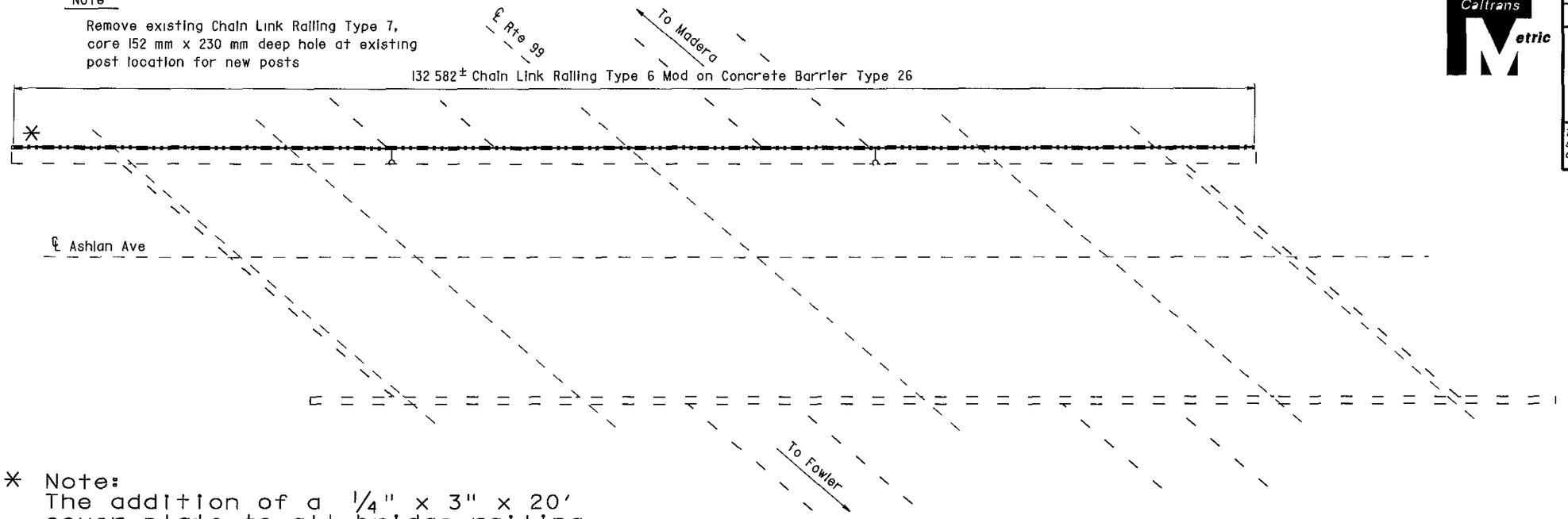
11-13-00
PLANS APPROVAL DATE

DIOSDADO ACOBA No 52003 Exp 12-31-02 CIVIL STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

Note

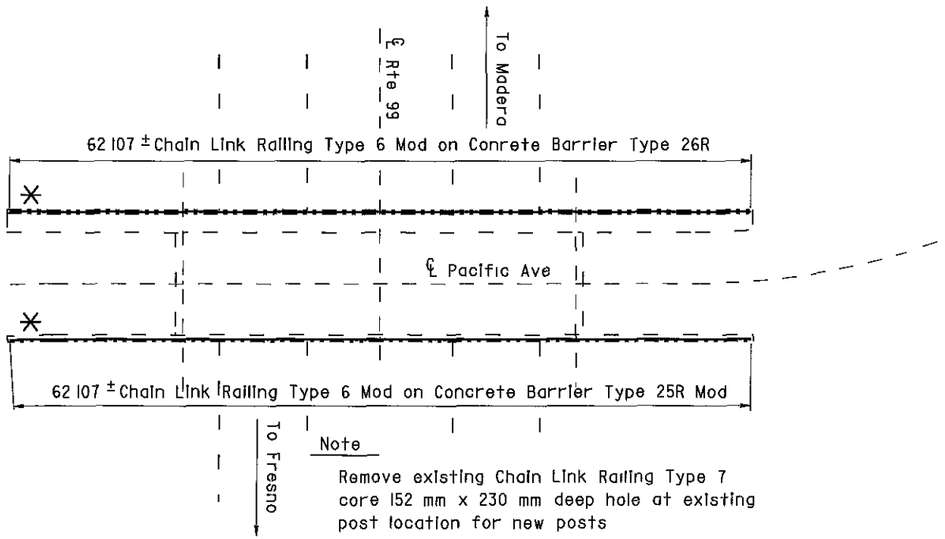
Remove existing Chain Link Railing Type 7, core 152 mm x 230 mm deep hole at existing post location for new posts



* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

ASHLAN AVENUE OC

Br No 42-0140, Fre, KP 42 8
1 250



Note

Remove existing Chain Link Railing Type 7 core 152 mm x 230 mm deep hole at existing post location for new posts

PACIFIC AVENUE OC

Br No 42-0189, Fre, KP 36 0
1 250

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

NOTES

— — Indicates existing

℄ Indicates approximate location of existing electrolier (To remain)

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

ASHLAN AVENUE OC 42-0140
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION O	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	133 m

PACIFIC AVENUE OC 42-0189
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION P	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	124 m

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED		LAYOUT	BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00	LAYOUT	K Endow	4/00	D Acoba	4/00
DETAILS	K Endow	4/00	F Tannous	5/00	SPECIFICATIONS	J Maroney	9/00	PLANS AND SPECS COMPARED J Maroney	9/00
QUANTITIES	D Acoba	5/00	F Tannous	5/00					

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

CU 06015
EA 440101

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 7

SHEET 7 OF 11

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 7/17/00 9/26/00 10/3/00

DISREGARD PRINTS BEARING EARLIER REVISION DATES

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

FILE => nagp7.dgn

USERNAME => mgarrison DATE PLOTTED => 03 JAN 2003 TIME PLOTTED => 11:45

ClibPDF - www.fastio.com

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	128	133

10/3/00
REGISTERED CIVIL ENGINEER

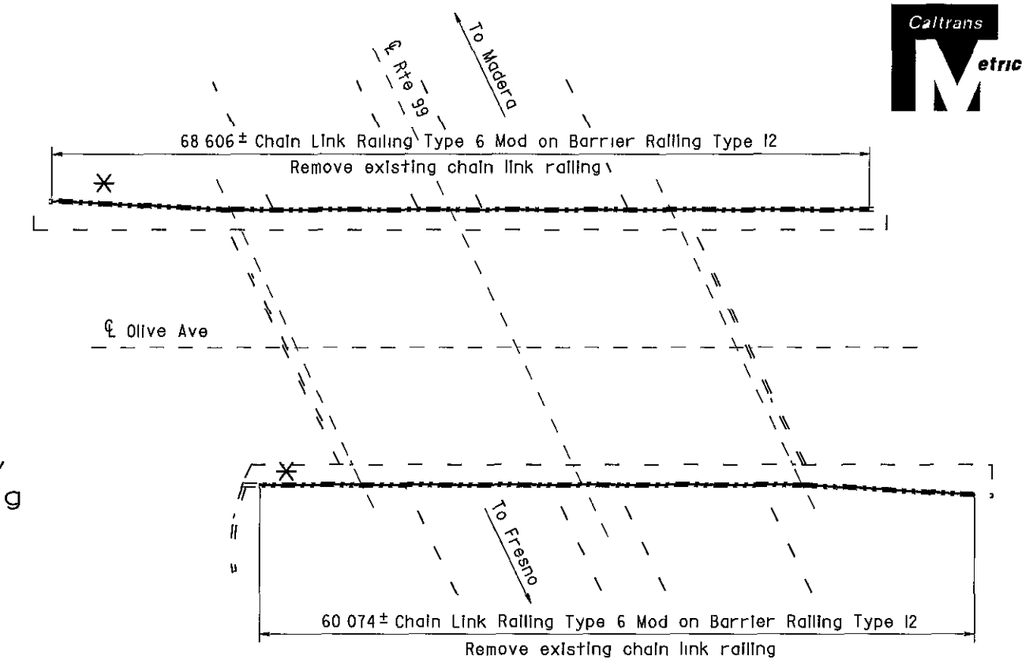
11-13-00
PLANS APPROVAL DATE

DIOSDADO ACOBA No 52003 Exp 12-31 02 CIVIL STATE OF CALIFORNIA REGISTERED PROFESSIONAL ENGINEER

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.



OLIVE AVENUE OC

Br No 42-0187, Fre, KP 37 5
1 250

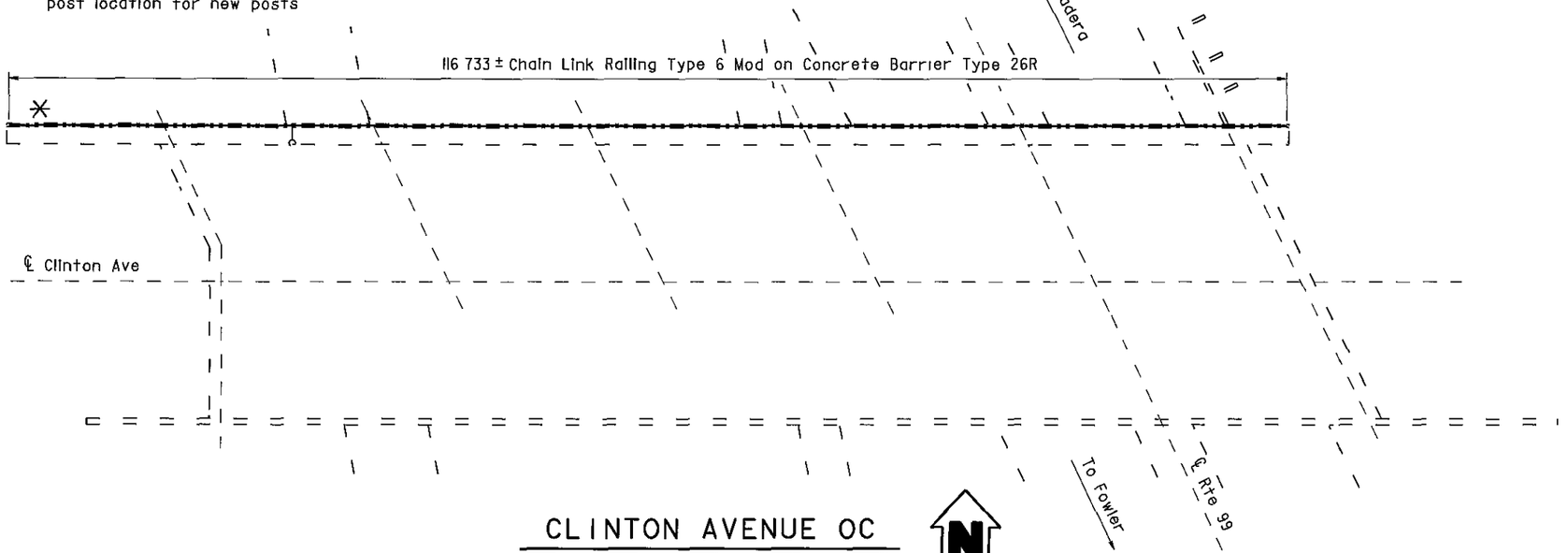
NOTES

— — Indicates existing

℄ Indicates approximate location of existing electrolier (To remain)

Note

Remove existing Chain Link Railing Type 7 core 152 mm x 230 mm deep hole at existing post location for new posts



CLINTON AVENUE OC

Br No 42-0183, Fre, KP 39 3
1 250

OLIVE AVENUE OC 42-0187
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION M	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	129 m

CLINTON AVENUE OC 42-0183
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION N	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	116 m

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED		BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00	LAYOUT	K Endow	4/00	D Acoba 4/00
DETAILS	K Endow	4/00	F Tannous	5/00				
QUANTITIES	D Acoba	5/00	F Tannous	5/00	SPECIFICATIONS	J Maroney	9/00	PLANS AND SPECS COMPARED J Maroney 9/00

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 6

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE => nagp6.dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/17/00 | 9/26/00 | 10/3/00

SHEET 6 OF 11

USERNAME => mcarlson DATE PLOTTED => 03 JAN-2003 TIME PLOTTED => 08 53

ClibPDF - www.fastio.com

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	124	133

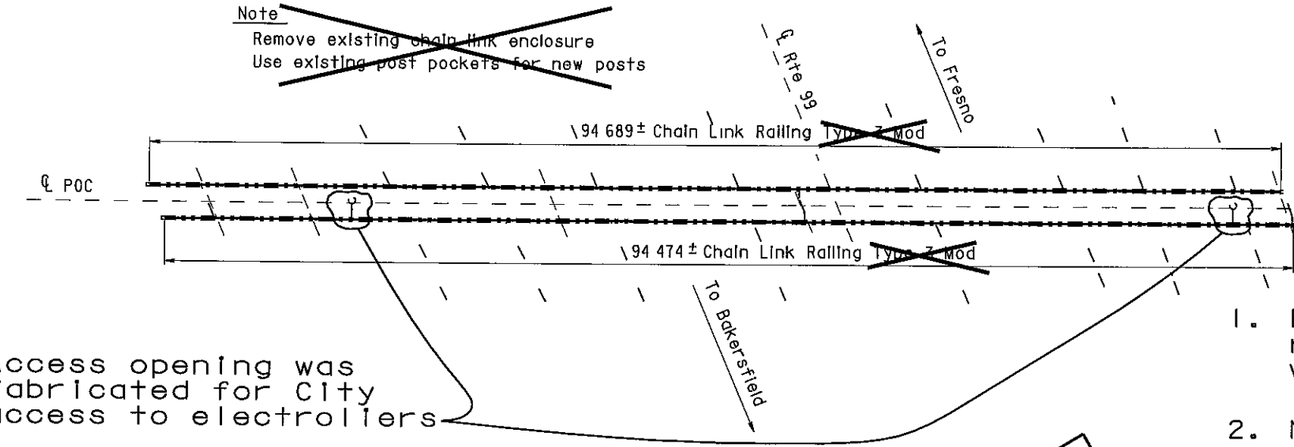
10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

Note
Remove existing chain link enclosure
Use existing post pockets for new posts



COSMOS PLAYGROUND POC

Br No 42-0215, Fre, KP 31 2
1 250

1. Existing chain link railing remained and was painted.
2. New 1" mesh was installed and replaced the old 2" mesh.
3. Existing electroliers remained.

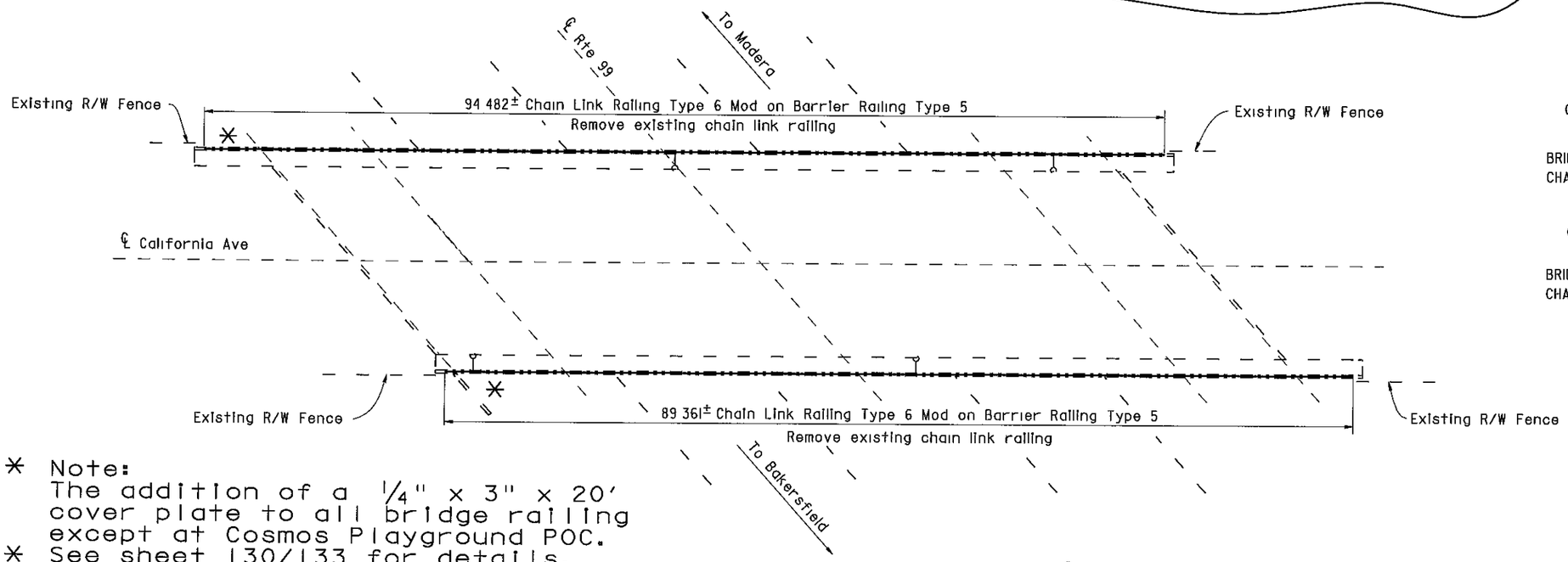
NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

NOTES

— — Indicates existing

℄ Indicates approximate location of existing electroliter (To remain)

Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details



COSMOS PLAYGROUND POC 42-0215
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION C	LUMP SUM
CHAIN LINK RAILING (TYPE 3 MODIFIED)	209 m

CALIFORNIA AVENUE OC 42-0217
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION D	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	184 m

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

CALIFORNIA AVENUE OC

Br No 42-0217, Fre, KP 32 0
1 250

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borguez
CONTRACT NO 06-440104
DATE 11-14-02

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00
DETAILS	K Endow	4/00	F Tannous	5/00
QUANTITIES	D Acoba	5/00	F Tannous	5/00
LAYOUT	K Endow	4/00	D Acoba	4/00
SPECIFICATIONS	J Maroney	9/00	J Maroney (PLANS AND SPECS COMPARED)	9/00

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

CU 06015
EA 440101

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 2

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/12/00 | 9/26/00 | 10/3/00

SHEET 2 OF 11

FILE -> nagp2.dgn

USERNAME -> morrison DATE PLOTTED -> 03 JAN 2003 TIME PLOTTED -> 08:15

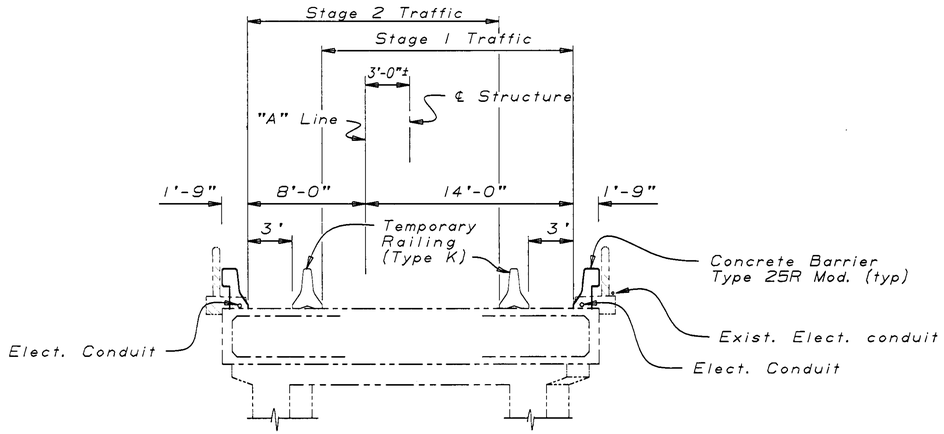
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	16	39

REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — Gary Joe — No. 36852 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE



TYPICAL SECTION

1"=5'

PLAN

1" = 20'

Notes:

1. Paint "South Madera Overcrossing" and year constructed.
2. Paint "Br. No. 41-46K".
3. Remove sign structure prior to construction and reinstall after barrier rail is complete.
4. Provide anchorage for existing MBGR. See Road Plans.
5. Temporary Crash Cushion Modules, see "Road Plans."

Indicates limits of existing Structure removal.

Indicates existing structure.

6. Reference nails based on Assumed Elev. 10.000 (NE Corner)

GENERAL NOTES
WORKING STRESS DESIGN

DESIGN: BRIDGE DESIGN SPECIFICATIONS (1983 AASHTO with Interims and Revisions by CALTRANS).

REINFORCED CONCRETE: f_s = 24,000 psi

f_c = 1,300 psi

n = 10

APPROXIMATE QUANTITIES

TEMPORARY RAILING (TYPE K)	620 LF
MODIFY SIGN STRUCTURE	1 EA
BRIDGE REMOVAL (PORTION), LOCATION A	LUMP SUM
REFINISH BRIDGE DECK	226 SQFT

FINAL PAY QUANTITIES

CONCRETE BARRIER (TYPE 25R MODIFIED)	488 LF

INDEX TO PLANS

SHEET NO.	TITLE
1.	GENERAL PLAN NO. 1
2.	GENERAL PLAN NO. 2
3.	GENERAL PLAN NO. 3
4.	GENERAL PLAN NO. 4
5.	GENERAL PLAN NO. 5
6.	GENERAL PLAN NO. 6
7.	GENERAL PLAN NO. 7
8.	GENERAL PLAN NO. 8
9.	BARRIER DETAILS NO. 1
10.	BARRIER DETAILS NO. 2
11.	BARRIER DETAILS NO. 3
12.	BARRIER DETAILS NO. 4
13.	BARRIER DETAILS NO. 5
14.	BARRIER DETAILS NO. 6
15.	BARRIER DETAILS NO. 7
16.	BARRIER DETAILS NO. 8
17.	BARRIER DETAILS NO. 9
18.	BARRIER DETAILS NO. 10
19.	BARRIER DETAILS NO. 11
20.	BARRIER DETAILS NO. 12
21.	SIGN DETAILS NO. 1
22.	SIGN DETAILS NO. 2
23.	SIGN DETAILS NO. 3
24.	CONCRETE BARRIER TYPE 25R

STANDARD PLANS DATED JANUARY 1988

B11-30	TEMPORARY RAILING (TYPE K)
B11-52	CHAIN LINK RAILING TYPE 7
B11-54	CONCRETE BARRIER TYPE 26
S9-12	OVERHEAD SIGNS, WALKWAY DETAILS NO. 1
S10-9	OVERHEAD SIGNS, WALKWAY DETAILS NO. 2
S11-10	OVERHEAD SIGNS, WALKWAY RAILING DETAILS

AS BUILT
DAS 12-8-92
CORRECTIONS BY J. Abercrombie
CONTRACT NO. 06-282204
DATE 8-3-92

Standard Plan Sheet No.
Detail No.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

SOUTH MADERA OVERCROSSING

L m Stokes 12-90
DESIGN ENGINEER

DESIGN	BY D. Ross 9-90	CHECKED G. Joe 9-90	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
DETAILS	BY Flo Calkins 5-90	CHECKED G. Joe 9-90	LAYOUT	BY D. Ross 9-90	CHECKED G. Joe 9-90
QUANTITIES	BY D. Ross 9-90	CHECKED S. Moan 9-90	SPECIFICATIONS	BY	PLANS AND SPECS COMPARED

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 9

CU 06200
EA 282201

BRIDGE NO. 41-46K
POST MILE 9.7

CONCRETE BARRIER REPLACEMENT
GENERAL PLAN NO. 1

DS 050 2138 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)								
10-18-90	11-26-90			9-7-90	9-13-90	9-14-90	9-27-90	10-1-90	10-5-90

SHEET 1 OF 24

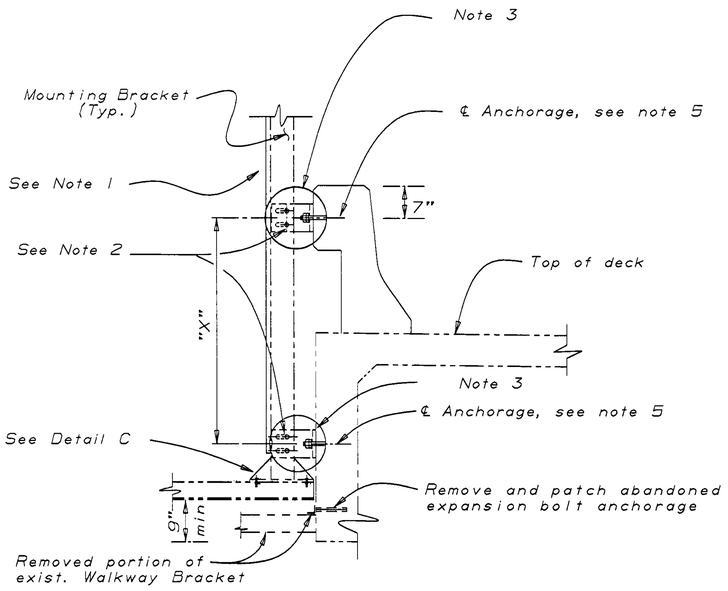
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	36	39

REGISTERED ENGINEER - CIVIL

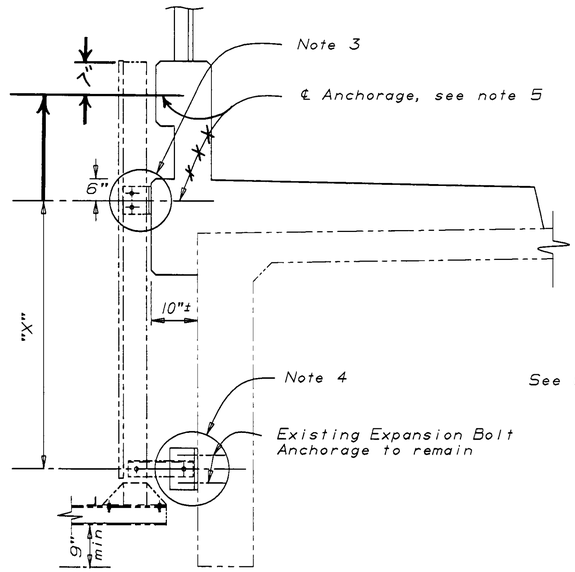
REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE



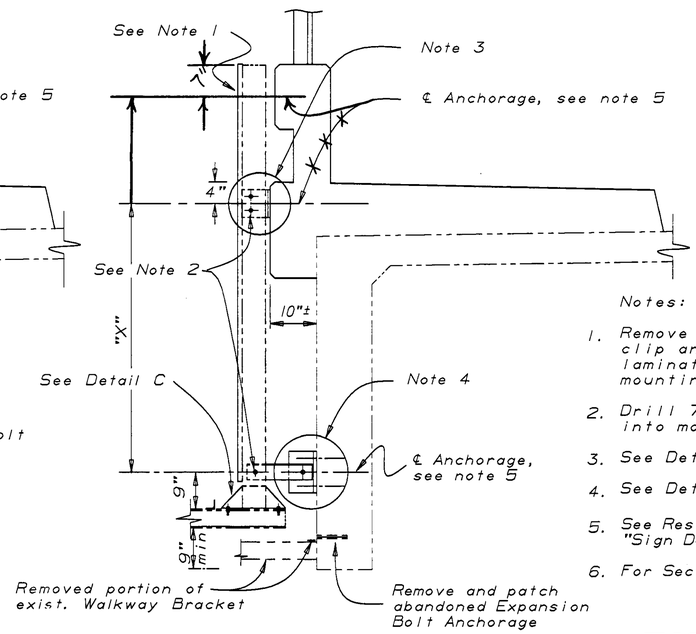
SOUTH MADERA OC. FNBT
PACIFIC AVE. OC. FNBT

$\frac{3}{4}$"=1'-0"



KERN ST. OC. FSBT

$\frac{3}{4}$"=1'-0"



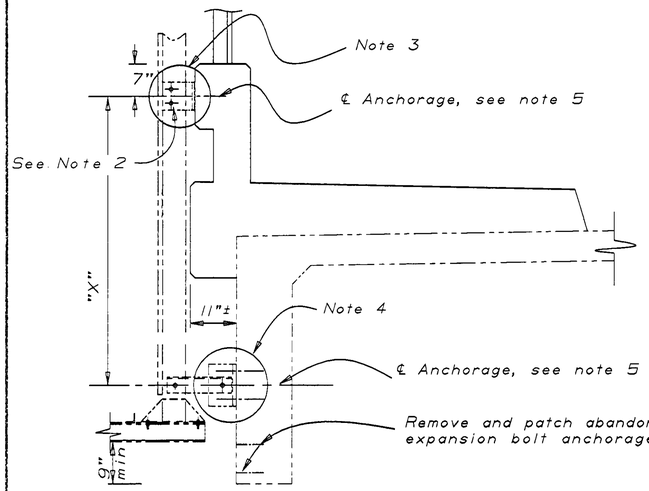
KERN ST. OC. FNBT

$\frac{3}{4}$"=1'-0"

Notes:

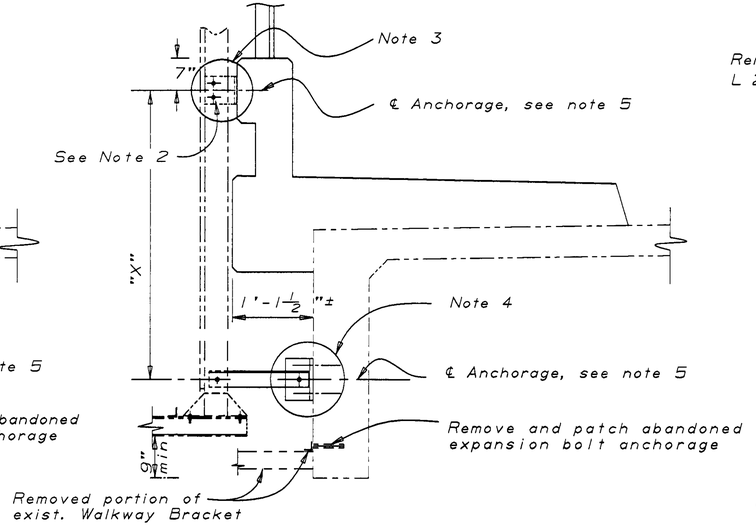
1. Remove existing sign panel and mounting clip angle. Replace with State furnished laminated panel type "A". Drill holes into mounting bracket as needed.
2. Drill 7/8" dia. holes for 3/4" H.S. bolts into mounting bracket.
3. See Detail "A" on "Sign Details No. 2" sheet.
4. See Detail "B" on "Sign Details No. 2" sheet.
5. See Resin Capsule Bolt Anchorage on "Sign Details No. 2" sheet.
6. For Section D-D see "Sign Details No. 2" sheet.

———— Indicates existing structure.



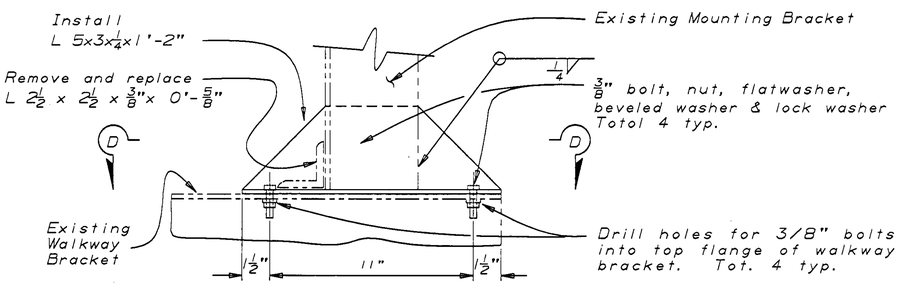
EL DORADO ST. OC. FNBT

$\frac{3}{4}$"=1'0"



W. YOSEMITE AVE. OC. FNBT

$\frac{3}{4}$"=1'-0"



DETAIL C

3"= 1'-0"

W.A.R 3-11-93
CORRECTED J. ABERCROMBIE
CONTRACT NO. 06-282204
DATE 8-3-92

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

	Detail A		Detail B
	"X"	"Y" Top	"Y" Btm	"Z"
S. MADERA ST. OC.	4'-1"	9½"	10"	N/A
PACIFIC AVE. OC.	3'-10"	11½"	10"	N/A
W. YOSEMITE AV. OC.	~~3'-10½"~~ 3'-9"	Existing		1'-5¾"
KERN ST. OC. FNBT	~~3'-1"~~ 5'-4"	Existing		1'-2¼"
KERN ST. OC. FSBT	~~Existing~~ 5'-4"	Existing		Existing
TULARE ST. OC.	~~5'-8"~~ 4'-6"	5¼"		1'-2¼"
EL DORADO ST. OC.	4'-~~7~~ 4"	Existing		Existing

DESIGN	BY D.ROSS 9-90	CHECKED G. Joe 9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9	BRIDGE NO. Various
DETAILS	BY [signature] 9-90	CHECKED G. Joe 9-90			POST MILE
QUANTITIES	BY D.ROSS 9-90	CHECKED S. Maan 9-90			

CONCRETE BARRIER REPLACEMENT
SIGN DETAILS NO. 1

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 9-21-90 | 9-24-90 | 9-14-90 | 9-25-90

SHEET 21 OF 24

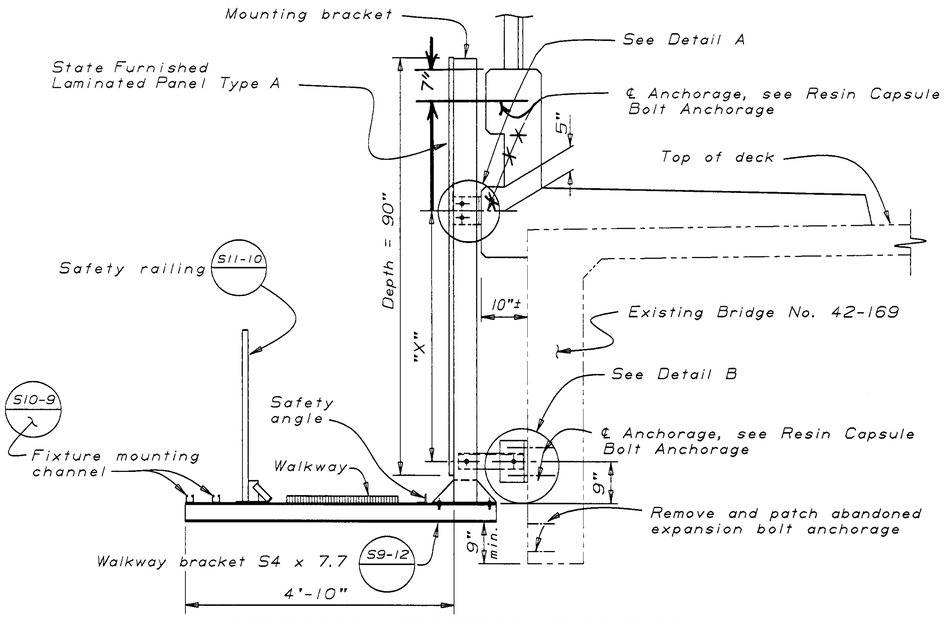
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	37	39

REGISTERED ENGINEER - CIVIL

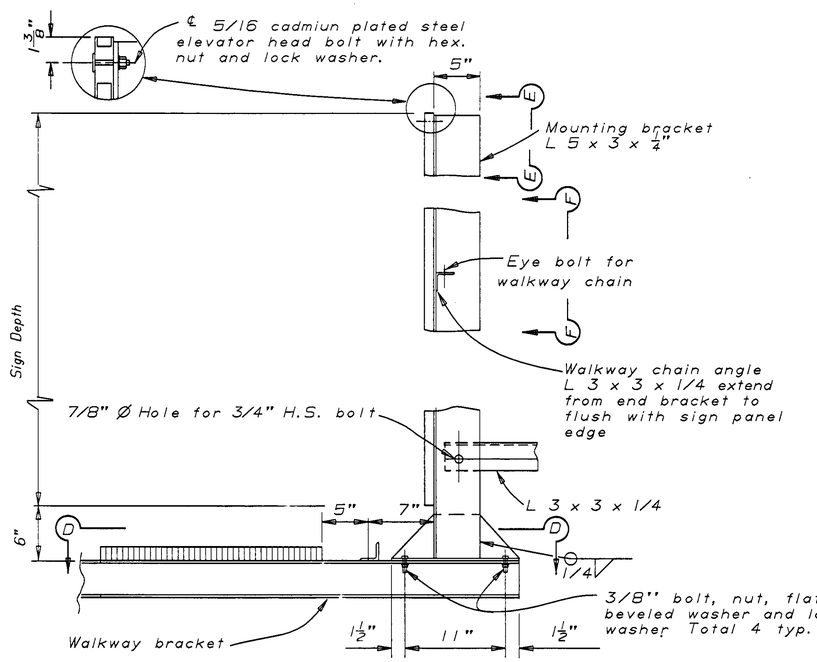
REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE

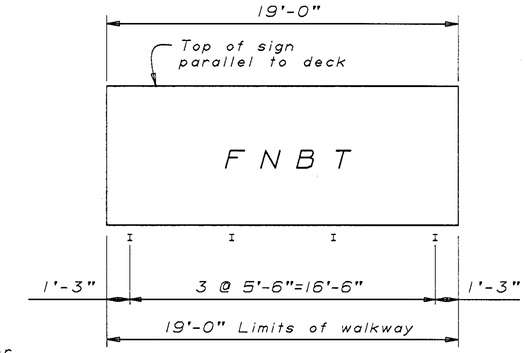


MOUNTING BRACKET ASSEMBLY

$\frac{3}{4}$"=1'-0"



MOUNTING BRACKET ANGLE DETAIL



MOUNTING BRACKET ASSEMBLY SPACING

Notes:

1. For details not shown see "Standard Plans".
2. The exterior mounting bracket to face outward to accomodate the walkway chain angle.
3. Contractor to provide anchor bolt layout before anchor bolts are placed.
4. For "X", "Y" and "Z" dimensions see table on "Sign Details No. 1" sheet.

---------- Denotes existing structure

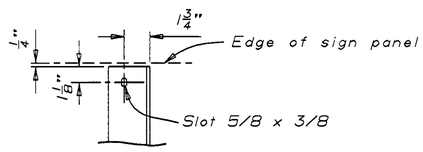
W.A.R 3-11-93
CORRECTED: J. ABERCROMBIE
CONTRACT NO. 06-282204
DATE 8-3-92

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

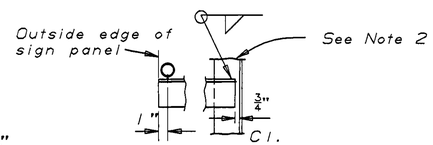
DETAIL A

DETAIL B

SECTION D-D



VIEW E-E

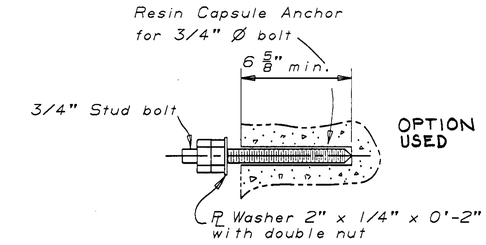


VIEW F-F

PLATE WASHER

For all slotted holes

ALTERNATIVE CIP BOLT ANCHORAGE



RESIN CAPSULE BOLT ANCHORAGE

Note: Resin capsule anchorage is subject to approval of Engineer. Installation procedures shall comply with manufacturer's instructions.

TULARE ST. OVERCROSSING

DESIGN	BY D. Ross 9-90	CHECKED G. Joe 9-90	STATE OF CALIFCRNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9	BRIDGE NO. 42-169
DETAILS	BY D.A. SANDERSON 7-90	CHECKED G. Joe 9-90			POST MILE 20.6
QUANTITIES	BY D. Ross 9-90	CHECKED S. Maan 9-90		CU 06200 EA 282201	

CONCRETE BARRIER REPLACEMENT
SIGN DETAILS NO. 2

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)									SHEET	OF
7-5-90	8-14-90	9-12-90	9-14-90	9-28-90	10-16-90				22	24

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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	38	39

REGISTERED ENGINEER - CIVIL

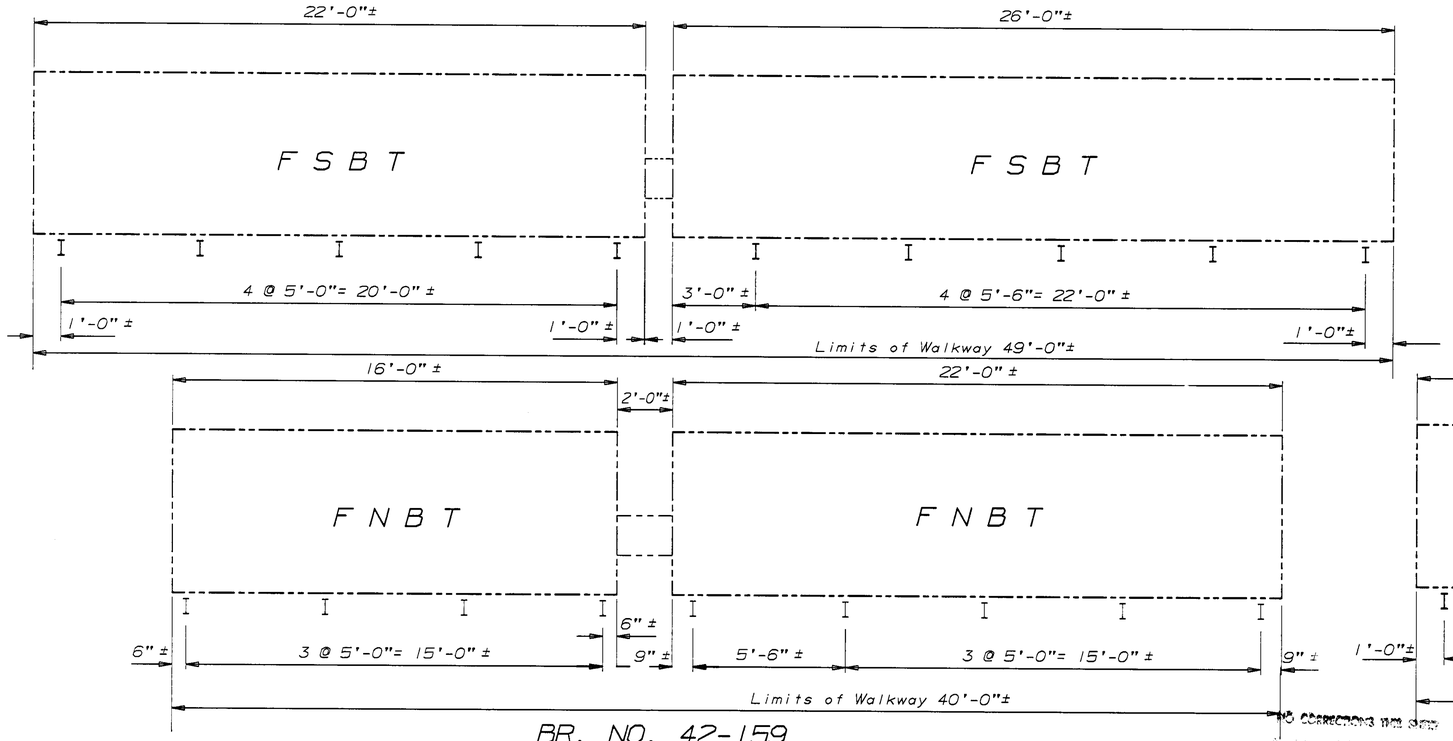
REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

Note: Top of signs parallel to deck.

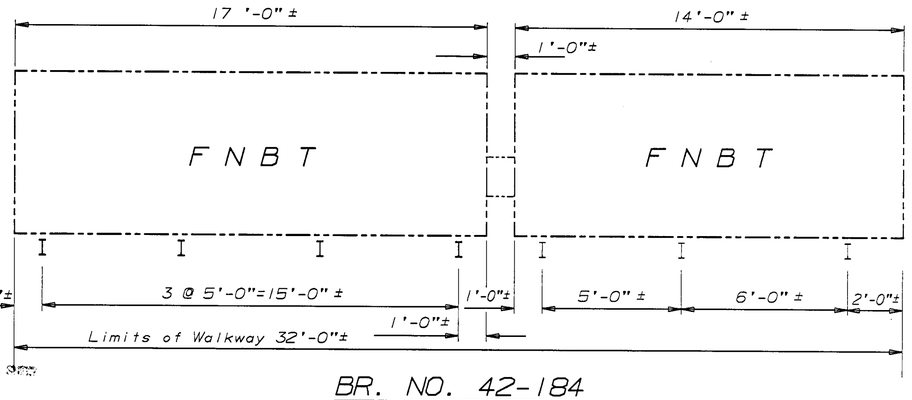
— — — — Indicates existing structure.



BR. NO. 42-159

KERN ST. OVERCROSSING

$\frac{3}{8}$"= 1'-0"



BR. NO. 42-184

EL DORADO ST. OVERCROSSING

$\frac{3}{8}$"= 1'-0"

NO CORRECTIONS WITH STAMP

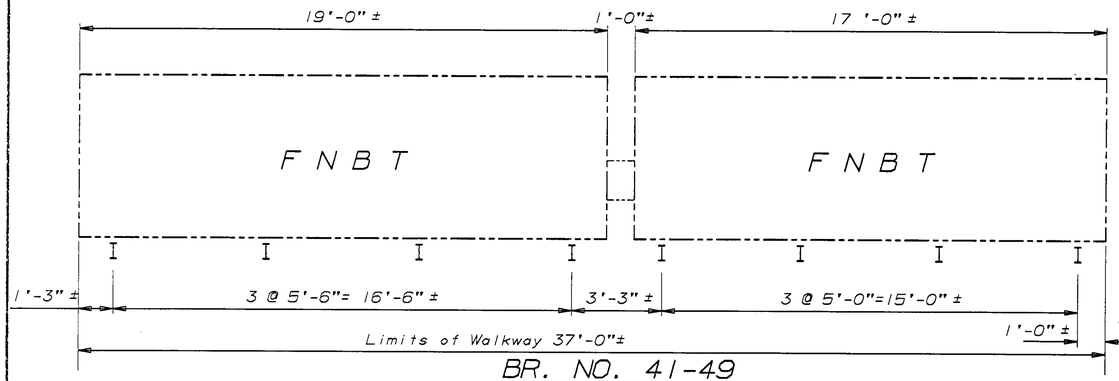
AS BUILT

W.A.O.R. 3-11-93

CORRECTED J. ABERCROMBIE

CONTRACT NO. 06-282204

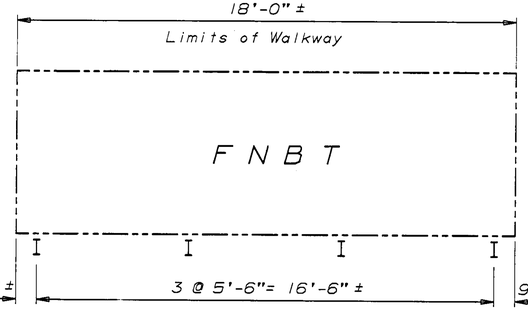
DATE 8-3-92



BR. NO. 41-49

WEST YOSEMITE AVE. OVERCROSSING

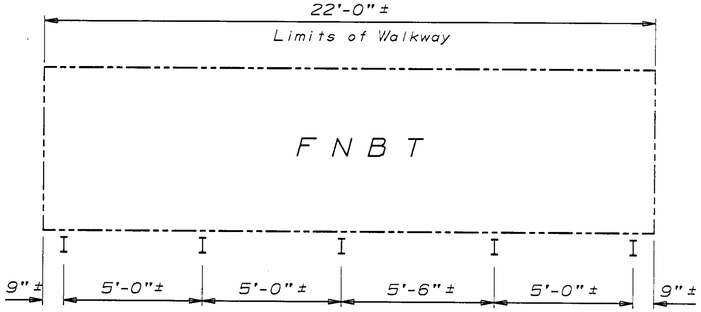
$\frac{3}{8}$"= 1'-0"



BR. NO. 41-46

SOUTH MADERA OVERCROSSING

$\frac{3}{8}$"= 1'-0"



BR. NO. 42-189

PACIFIC AVE. OVERCROSSING

$\frac{3}{8}$"= 1'-0"

DESIGN	BY D. Ross 9-90	CHECKED G. Joe 9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9	BRIDGE NO. Various / POST MILE
DETAILS	BY Mus D. Pagalla 9-90	CHECKED G. Joe 9-90			
QUANTITIES	BY D. Ross 9-90	CHECKED S. Maan 9-90			

CONCRETE BARRIER REPLACEMENT

SIGN DETAILS NO. 3

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 9-5-90 | 9-27-90 | 10-5-90

SHEET 23 OF 24

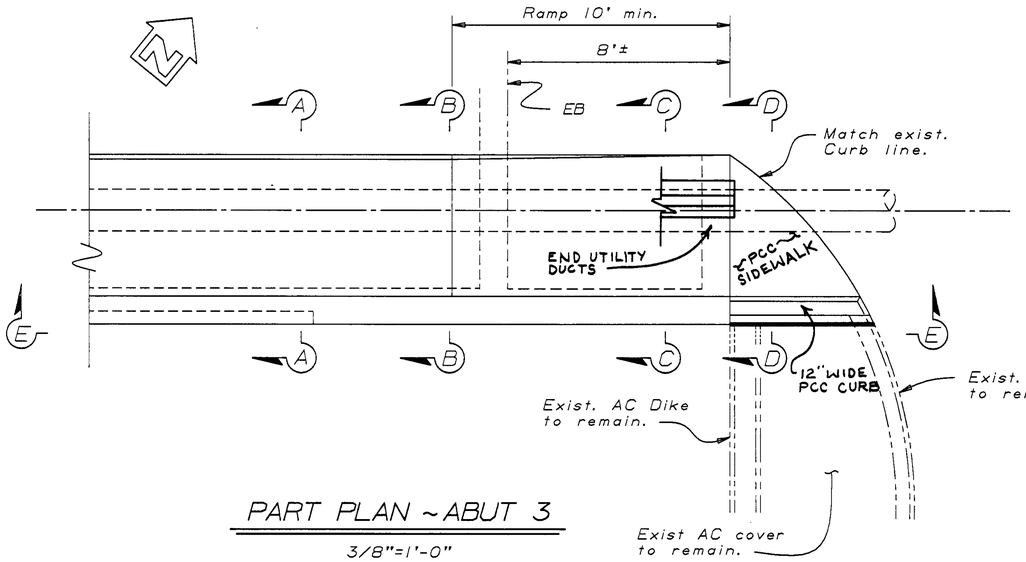
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	31	39

REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

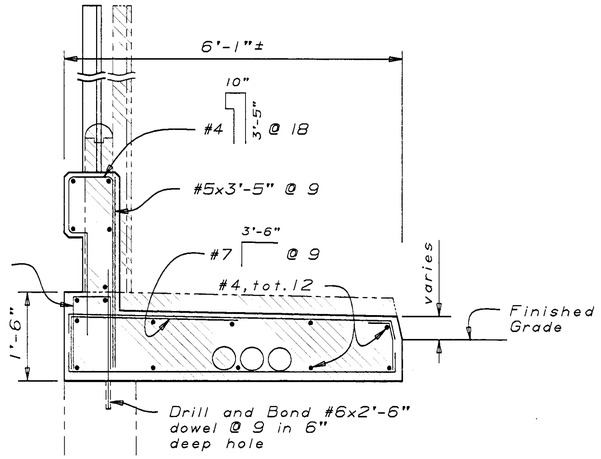
2-4-91
PLANS APPROVAL DATE



PART PLAN ~ ABUT 3

3/8"=1'-0"

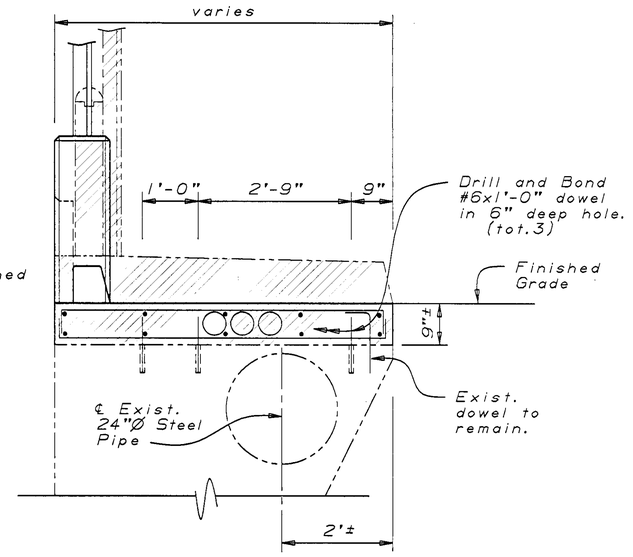
For Sections A-A and B-B, see "Barrier Details No. 7 " sheet.



SECTION C-C

3/4"=1'-0"

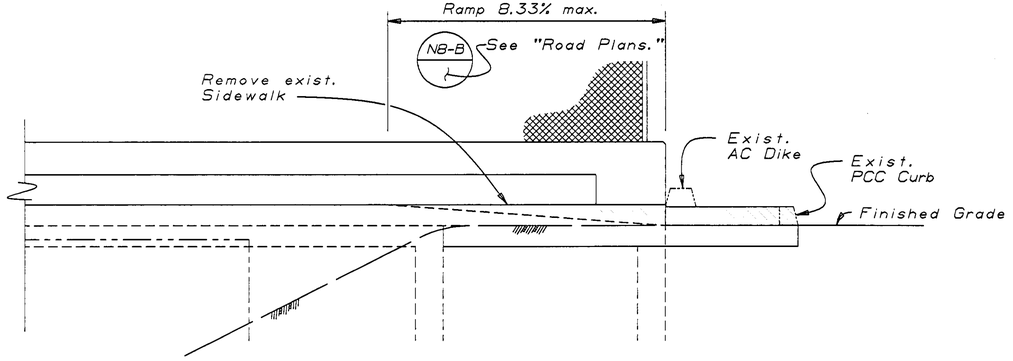
For details not shown, see "Typical Section" on "Barrier Details No. 7 " sheet.



VIEW D-D

3/4"=1'-0"

For details not shown see Section C-C



ELEVATION E-E

3/8"=1'-0"

W.A.R. 3-11-93
CORRECT J. ABERCROMBIE
CONTRACT NO. 06-282204
DATE 8-3-92

Notes:

Indicates limits of existing Structure removal.

---——--- Indicates existing structure.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

WEST FOURTH STREET OVERCROSSING

	BY		CHECKED	
DESIGN	D. Ross	9-90	G. Joe	9-90
DETAILS	L. Good	9-90	G. Joe	9-90
QUANTITIES	D. Ross	9-90	S. Maan	9-90

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 9

BRIDGE NO.	CONCRETE BARRIER REPLACEMENT
41-50	
POST MILE	BARRIER DETAILS NO. 8
11.0	

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): ~~9-28-90~~ ~~9-28-90~~ 10-1-90 10-16-90

SHEET 16 OF 24

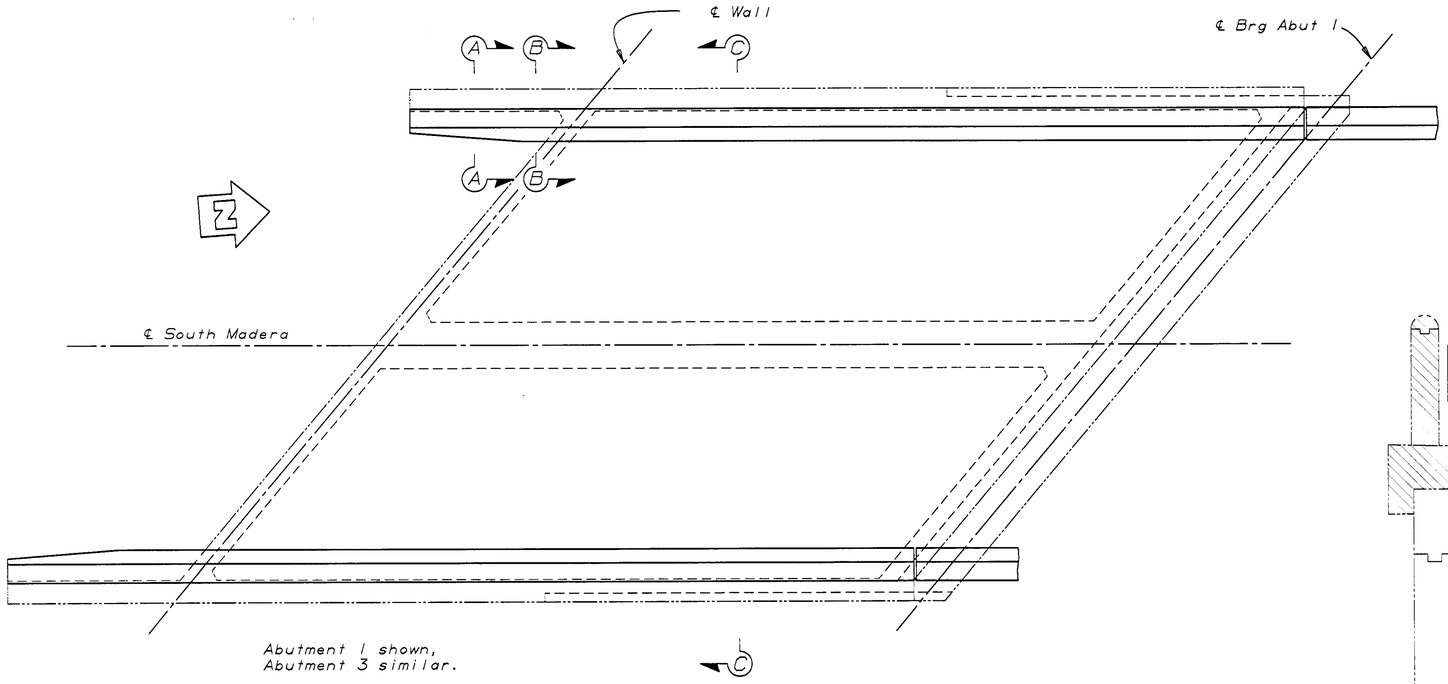
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	24	39

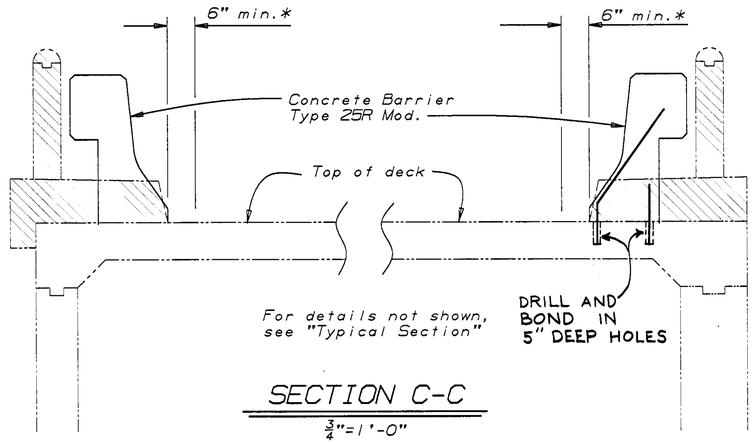
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

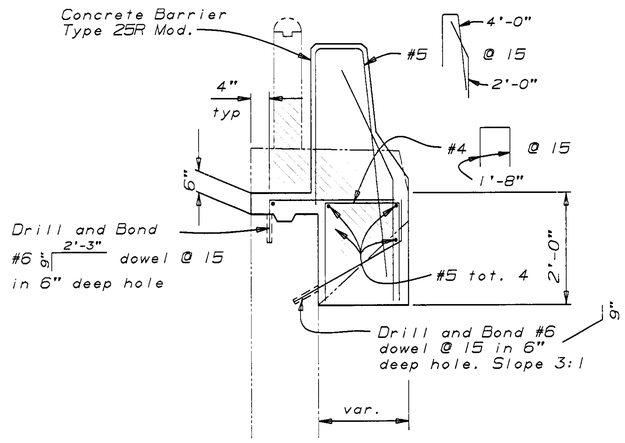
2-4-91
PLANS APPROVAL DATE



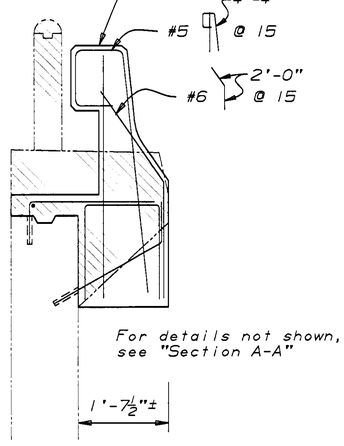
PLAN
1/4"=1'-0"



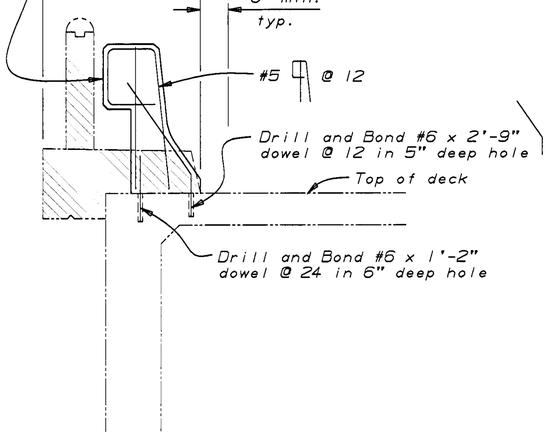
SECTION C-C
3/4"=1'-0"



SECTION A-A
3/4"=1'-0"



SECTION B-B
3/4"=1'-0"



TYPICAL SECTION
3/4"=1'-0"

AS BUILT
W.A.R 3-11-93
CORRECTED BY J. ABERCROMBIE

CONTRACT NO. 06-282204

DATE 8-3-92

Notes:

* Limits of refinishing bridge deck.

For details and reinf. not shown see "Concrete Barrier Type 25R" sheet.

Indicates limits of existing Structure removal.

Indicates existing structure.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

SOUTH MADERA OVERCROSSING

DESIGN	BY D. ROSS 9-90	CHECKED G. JOE 9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9	BRIDGE NO. 41-46K
DETAILS	BY D.A. SANDERSON 9-90	CHECKED G. JOE 9-90			POST MILE 9.7
QUANTITIES	BY D. ROSS 9-90	CHECKED S. MAAN 9-90			

CONCRETE BARRIER REPLACEMENT
BARRIER DETAILS NO. 1

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 5-8-90 | 9-7-90 | 10-3-90 | 10-4-90 | 10-8-90 | 11-28-90

SHEET 9 OF 24

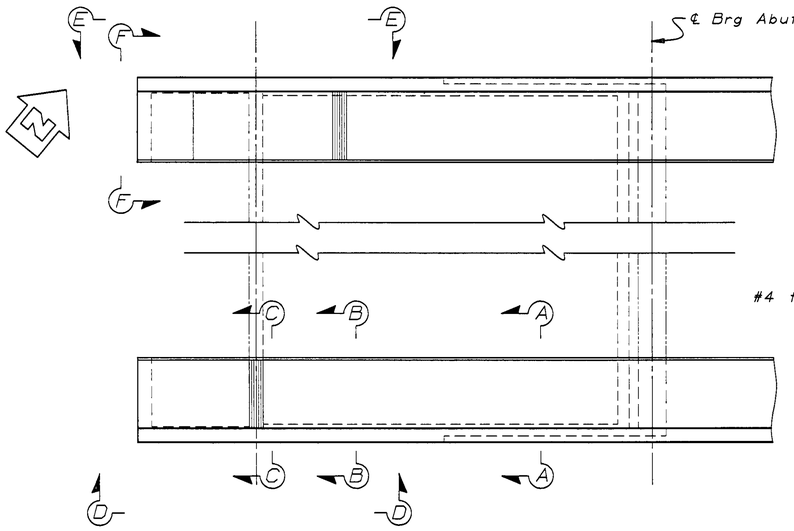
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	25	39

REGISTERED ENGINEER - CIVIL

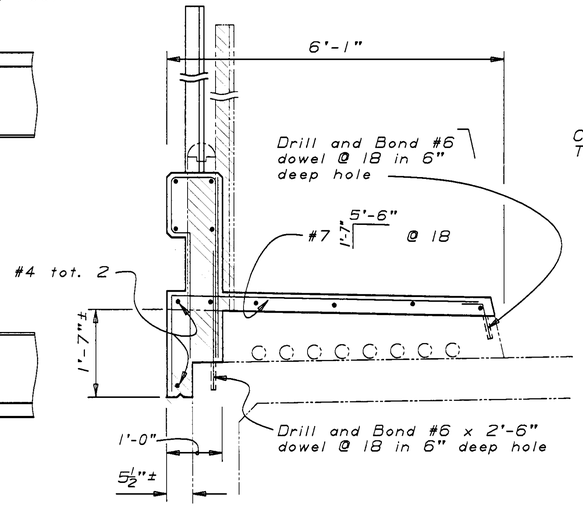
REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE



PLAN - ABUTMENT 1

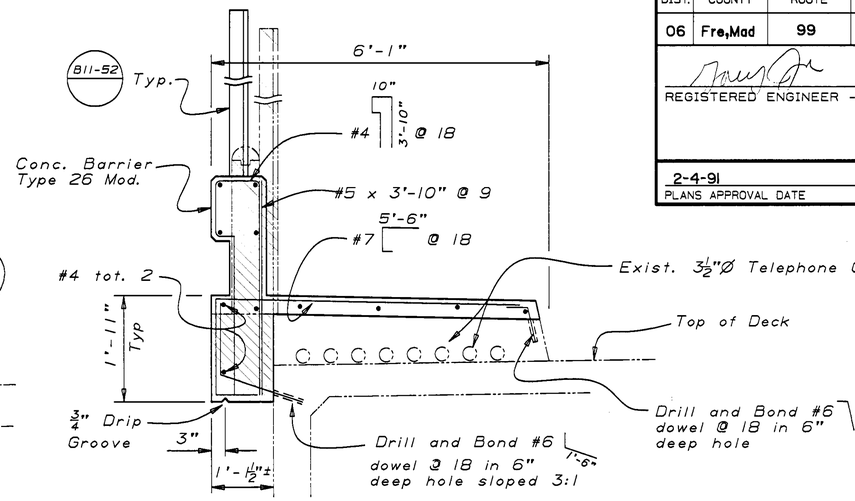
$\frac{3}{16}$"=1'-0"



SECTION A-A

$\frac{3}{4}$"=1'-0"

For details not shown see "Typical Section - Rt. Side"



TYPICAL SECTION - RT. SIDE

B11-54

$\frac{3}{4}$"=1'-0"

(LOOKING BACK ON STATION)

Notes:

For Elevations D-D & E-E see "Barrier Details No. 4" sheet

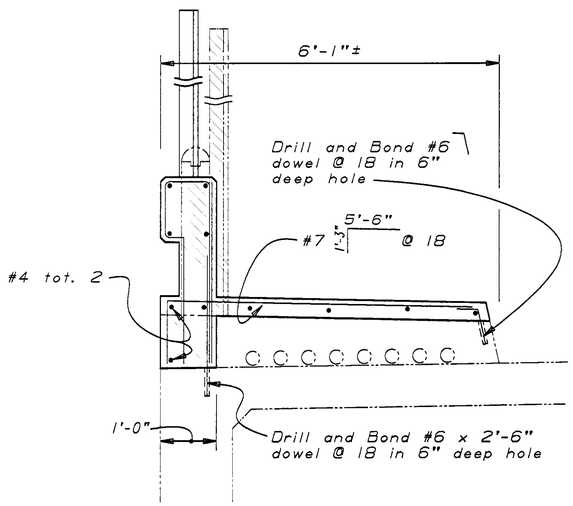
For Elevation F-F see "Barrier Details No. 3" sheet.

* Limits of refinishing bridge deck.

—·—·— Indicates existing structure.

▨ Indicates limits of existing Structure removal

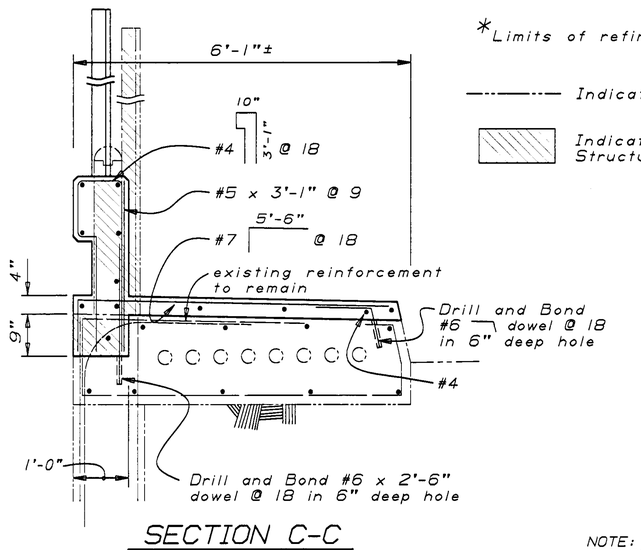
NO CORRECTIONS NEEDED
AS BUILT
W.A.R 3-11-93
CORRECTED BY J. ABERCROMBIE
CONTRACT NO. 06-282204
DATE 8-3-92



SECTION B-B

$\frac{3}{4}$"=1'-0"

For details not shown see "Typical Section - Rt. Side"

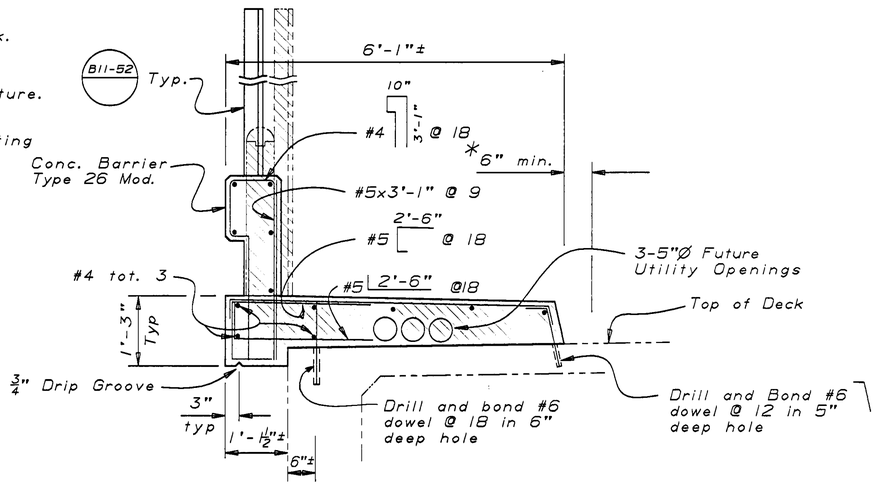


SECTION C-C

$\frac{3}{4}$"=1'-0"

For details not shown see "Typical Section - Rt. Side"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



TYPICAL SECTION - LT. SIDE

$\frac{3}{4}$"=1'-0"

WEST SIXTH STREET OVERCROSSING

DESIGN	BY D. ROSS	9-90	CHECKED G. JOE	9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9	BRIDGE NO. 41-48
DETAILS	BY D.A. SANDERSON	9-90	CHECKED G. JOE	9-90			POST MILE 10.3
QUANTITIES	BY D. ROSS	9-90	CHECKED S. MAAN	9-90			

CONCRETE BARRIER REPLACEMENT
BARRIER DETAILS NO. 2

DS 05D 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 9-28-90 | 10-1-90 | 10-2-90 | 10-4-90 | 12-3-90

SHEET 10 OF 24

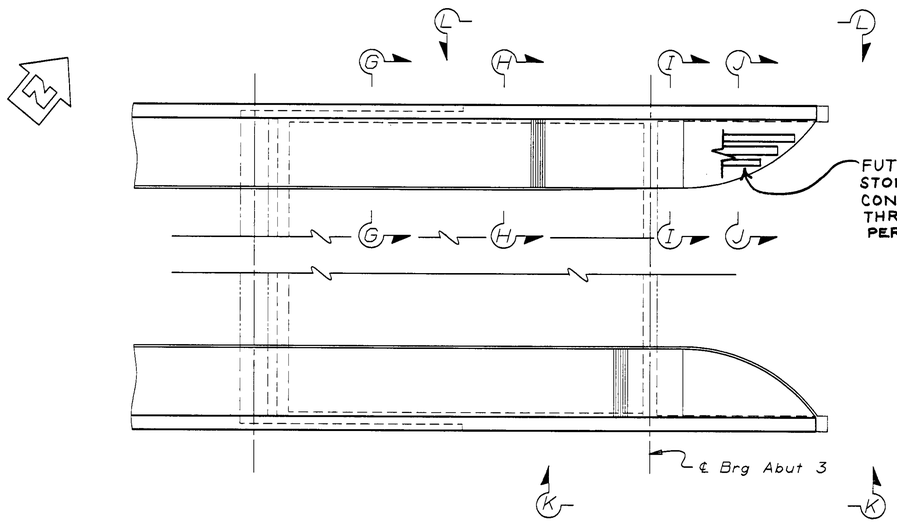
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	26	39

REGISTERED ENGINEER - CIVIL

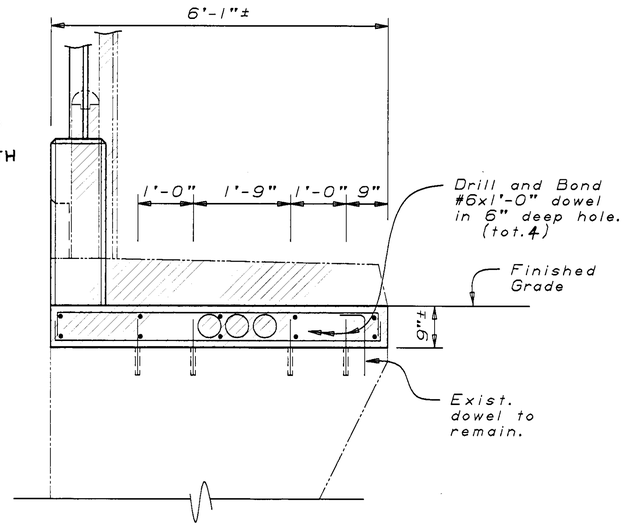
REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE



PLAN - ABUTMENT 3

$\frac{3}{16}$"=1'-0"



For details not shown see "Section I-I"

ELEVATION F-F

$\frac{3}{4}$"=1'-0"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

For Elevations K-K & L-L see "Barrier Details No. 4" sheet

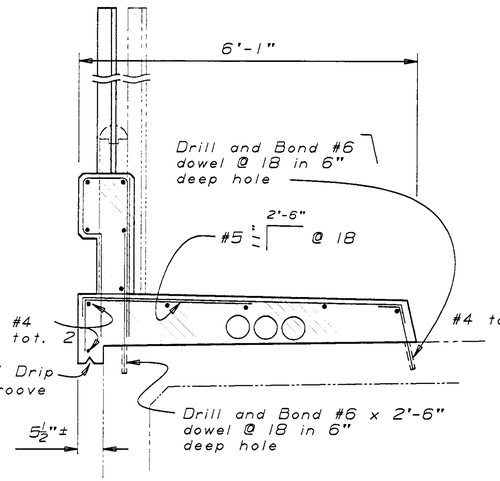
Indicates limits of existing Structure removal.

Indicates existing structure

AS BUILT
W.A.R 3-10-93
CORRECTED BY J. ABERCROMBIE

CONTRACT NO. 06-282204

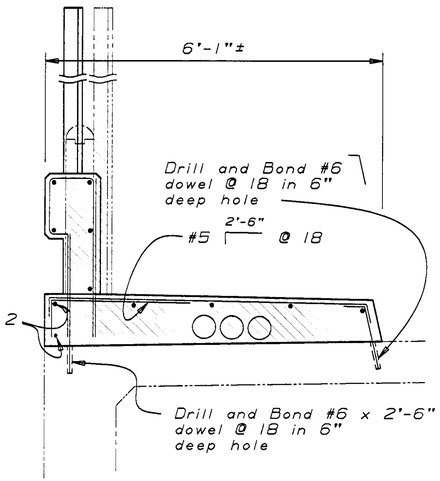
DATE 8-3-92



SECTION G-G

$\frac{3}{4}$"=1'-0"

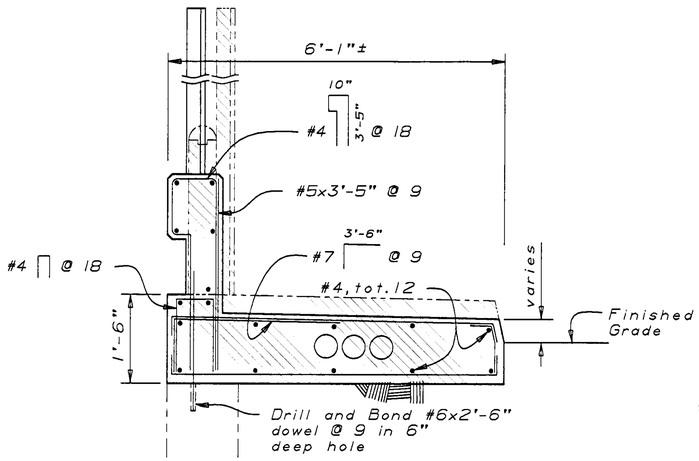
For details not shown see "Typical Section - Lt. Side" on "Barrier Details No. 2" sheet



SECTION H-H

$\frac{3}{4}$"=1'-0"

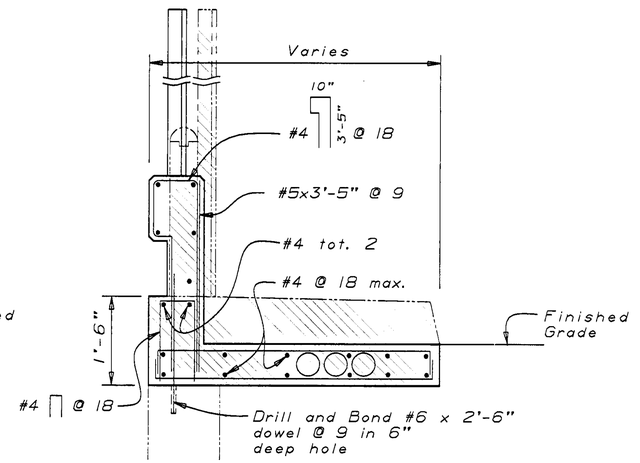
For details not shown see "Typical Section - Lt. Side" on "Barrier Details No. 2" sheet



SECTION I-I

$\frac{3}{4}$"=1'-0"

For details not shown see "Typical Section - Lt. Side" on "Barrier Details No. 2" sheet



SECTION J-J

$\frac{3}{4}$"=1'-0"

For details not shown see "Section I-I"

WEST SIXTH STREET OVERCROSSING

DESIGN	BY D. ROSS 9-90	CHECKED G. JOE 9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9	BRIDGE NO. 41-48 / POST MILE 10.3
DETAILS	BY D.A. SANDERSON 9-90	CHECKED G. JOE 9-90			CONCRETE BARRIER REPLACEMENT
QUANTITIES	BY D. ROSS 9-90	CHECKED S. MAAN 9-90			BARRIER DETAILS NO. 3

DS OSD 2:39 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): ~~9-28-90~~ | 10-1-90 | 10-2-90 | 10-3-90 | 10-4-90

SHEET 11 OF 24

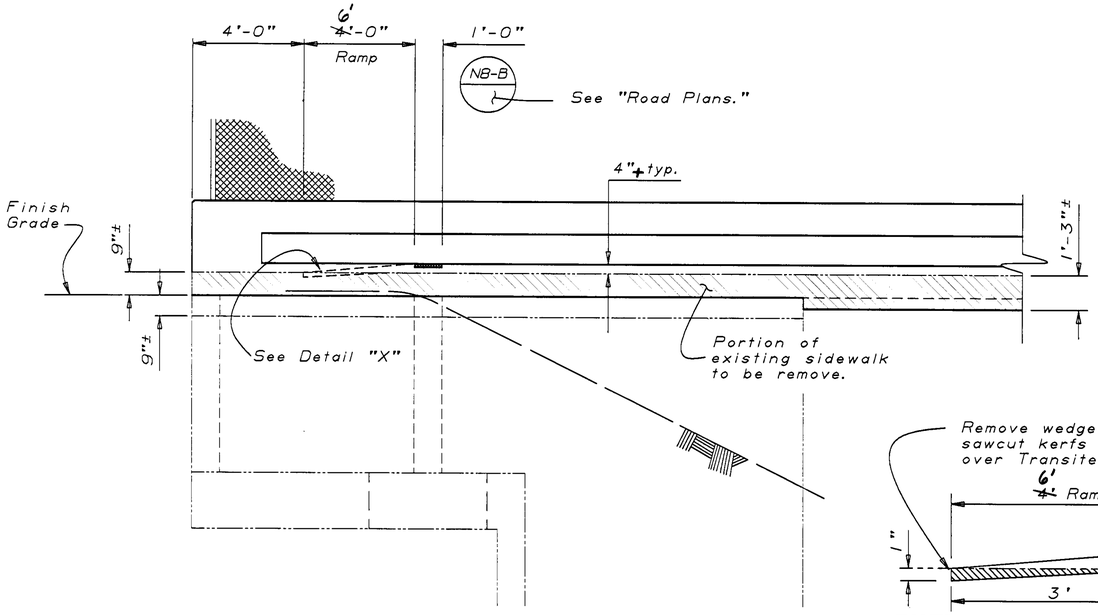
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	27	39

REGISTERED ENGINEER - CIVIL

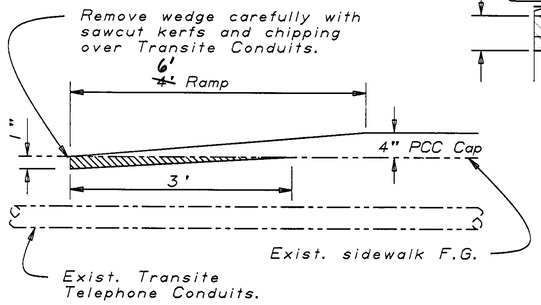
REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE



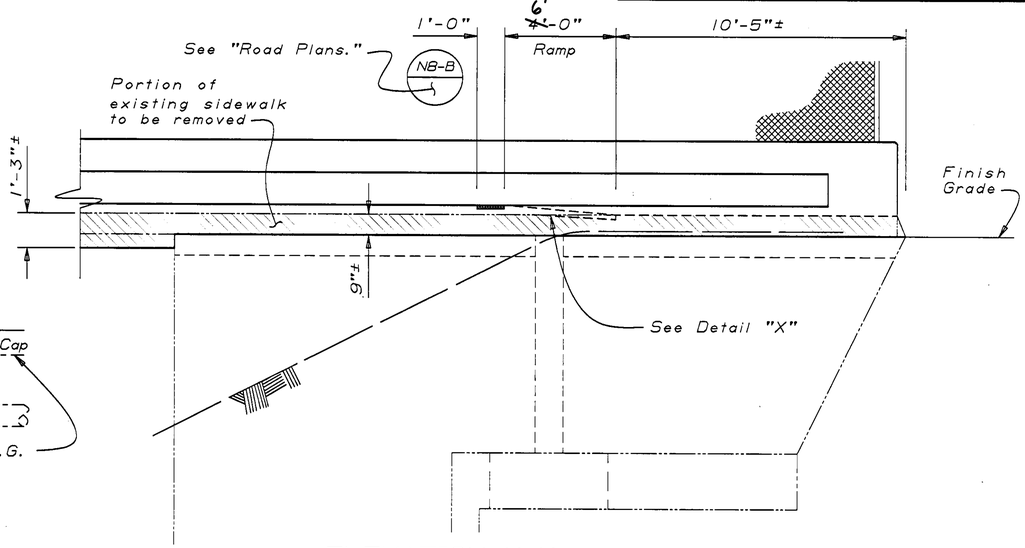
ELEVATION D-D

$\frac{3}{8}$"= 1'-0"



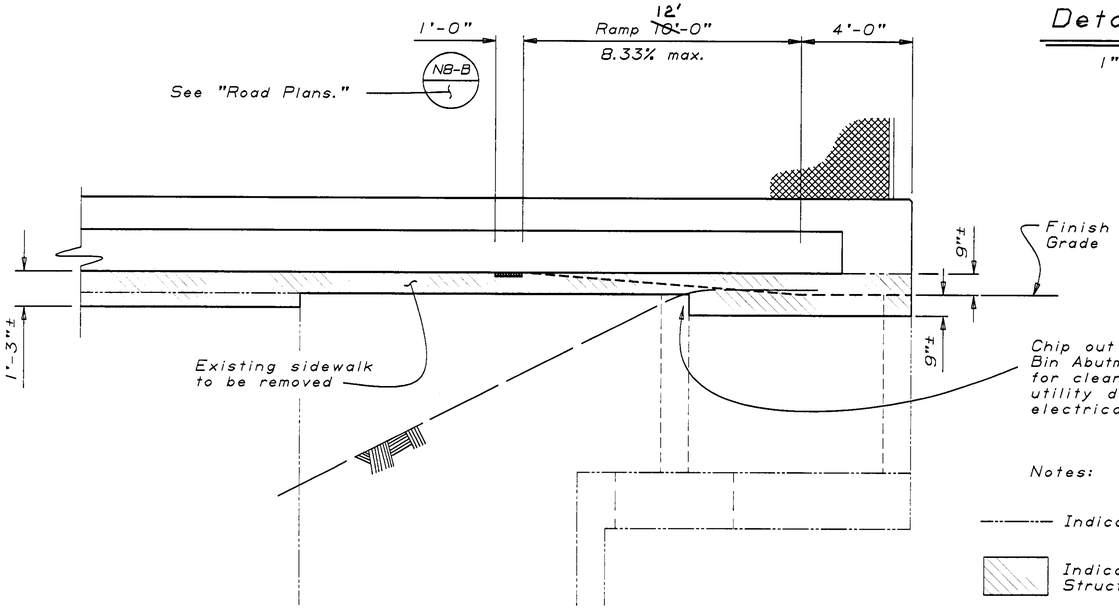
Detail "X"

1"=1'-0"



ELEVATION K-K

$\frac{3}{8}$"= 1'-0"



ELEVATION E-E

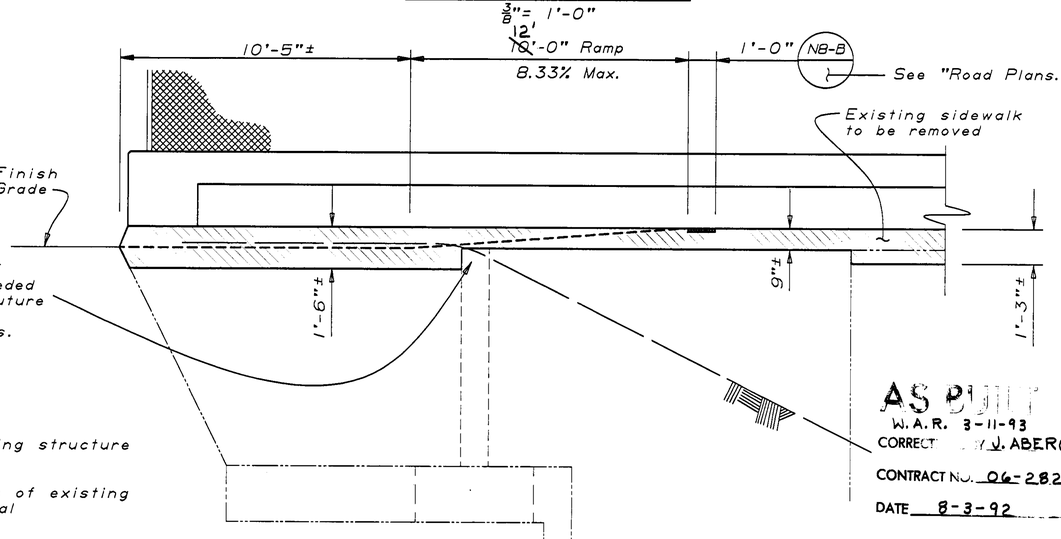
$\frac{3}{8}$"= 1'-0"

Notes:

Indicates existing structure

Indicates limits of existing Structure removal

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



ELEVATION L-L

$\frac{3}{8}$"= 1'-0"

AS BUILT
W.A.R. 3-11-93
CORRECTED BY J. ABERCROMBIE
CONTRACT NO. 06-282204
DATE 8-3-92

WEST SIXTH STREET OVERCROSSING

DESIGN	BY D. ROSS 9-90	CHECKED G. JOE 9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9	BRIDGE NO. 41-48
DETAILS	BY D.A. SANDERSON 9-90	CHECKED G. JOE 9-90			POST MILE 10.3
QUANTITIES	BY D. ROSS 9-90	CHECKED S. MAAN 9-90			

CONCRETE BARRIER REPLACEMENT
BARRIER DETAILS NO. 4

OS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): ~~9-28-90~~ | 10-2-90 | 10-4-90 | 10-18-90 | 11-5-90 | 11-28-90 | 12-3-90

SHEET 12 OF 24

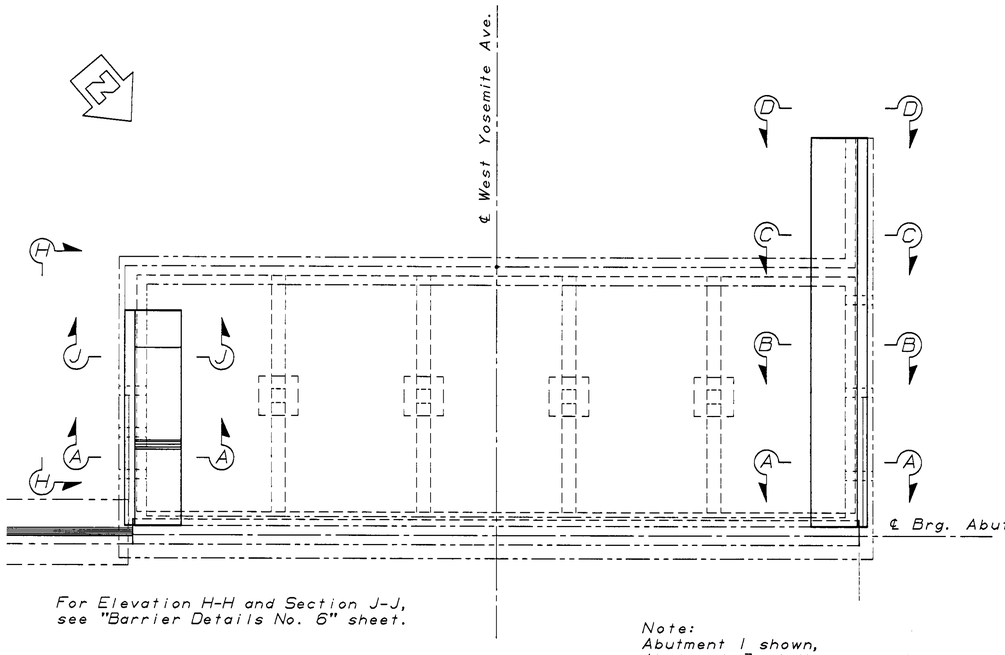
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	28	39

REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

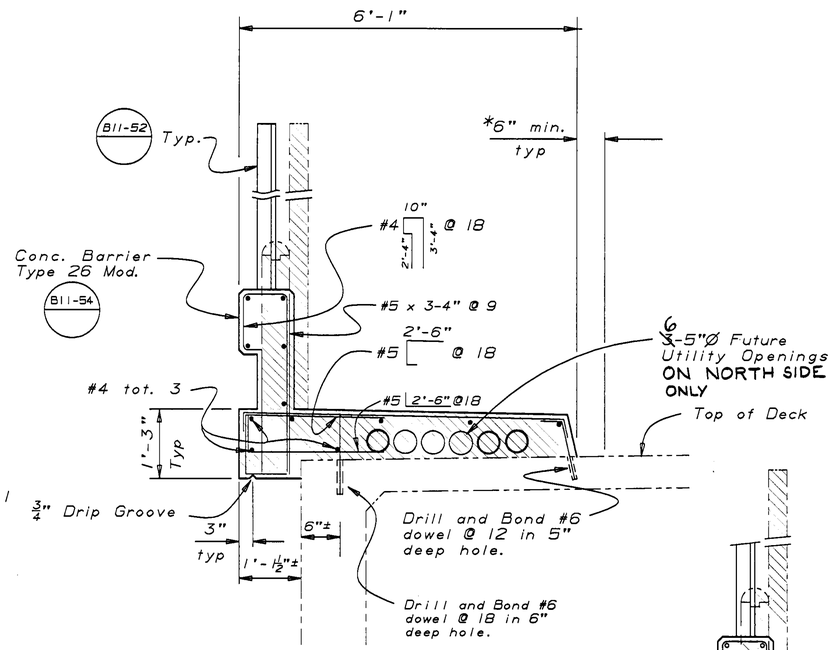
2-4-91
PLANS APPROVAL DATE



For Elevation H-H and Section J-J, see "Barrier Details No. 6" sheet.

Note:
Abutment 1 shown,
Abutment 3 similar, except as noted.
See "Barrier Details No. 6."

PLAN
1/8"=1'-0"



TYPICAL SECTION
3/4"=1'-0"

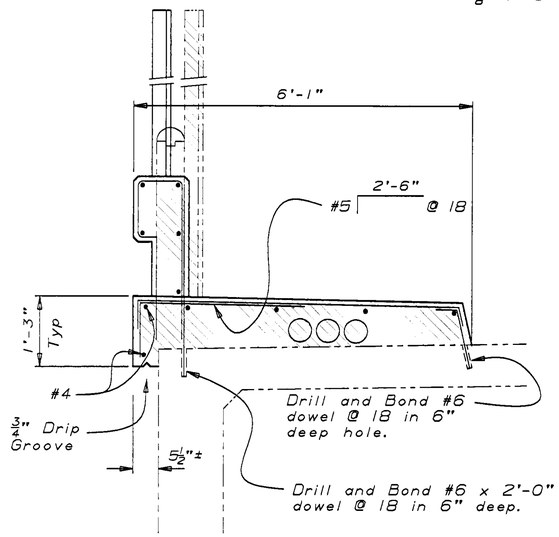
Notes:

* Limits of refinishing bridge deck.

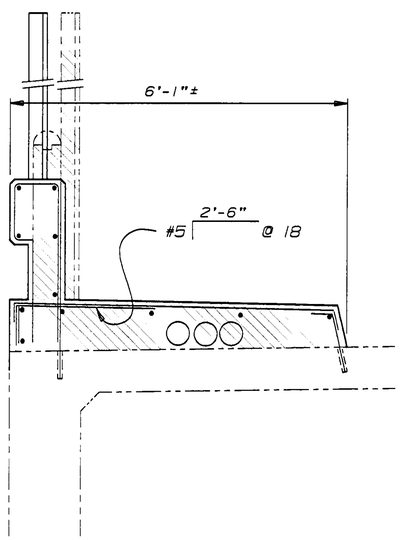
Indicates limits of existing Structure removal.

Indicates existing structure.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

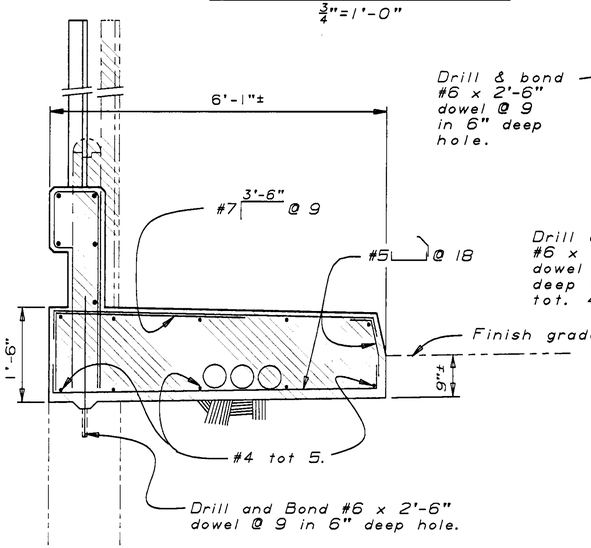


SECTION A-A
3/4"= 1'-0"



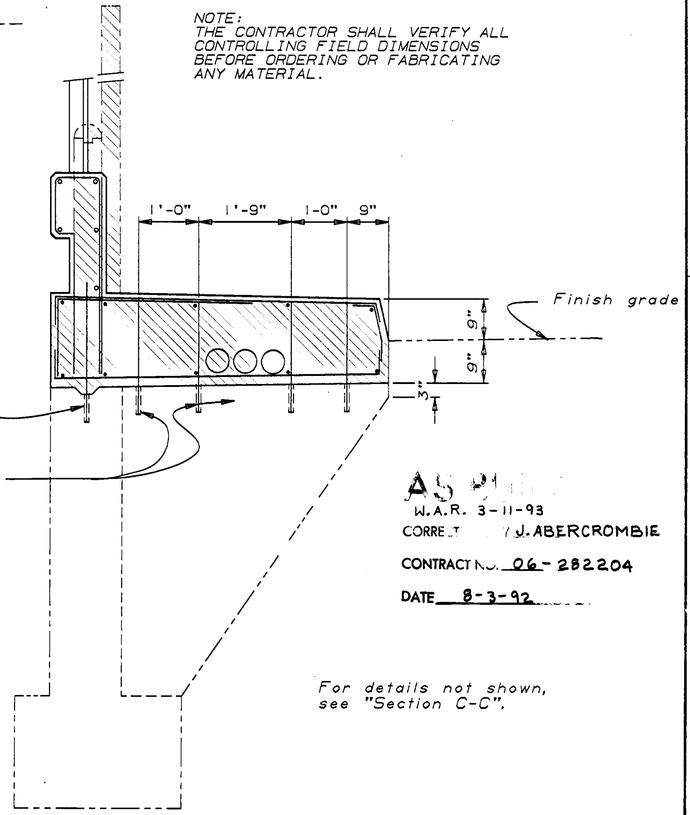
SECTION B-B
3/4"= 1'-0"

For details not shown, see "Section A-A".



SECTION C-C
3/4"= 1'-0"

For details not shown, see "Section A-A".



AS BUILT
W.A.R. 3-11-93
CORRECTED J. ABERCROMBIE
CONTRACT NO. 06-282204
DATE 8-3-92

For details not shown, see "Section C-C".

ELEVATION D-D
3/4"= 1'-0"

WEST YOSEMITE AVE. OVERCROSSING

DESIGN	BY Don Ross	CHECKED G. Joe	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9	BRIDGE NO. 41-49
DETAILS	BY D.A. SANDERSON 7-90	CHECKED G. Joe			POST MILE 10.8
QUANTITIES	BY Don Ross	CHECKED S. Maan			

CONCRETE BARRIER REPLACEMENT
BARRIER DETAILS NO. 5

DS 050 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 7-1-90 | 8-31-90 | 9-28-90 | 9-28-90 | 10-4-90 | 10-15-90 | 12-3-90

SHEET 13 OF 24

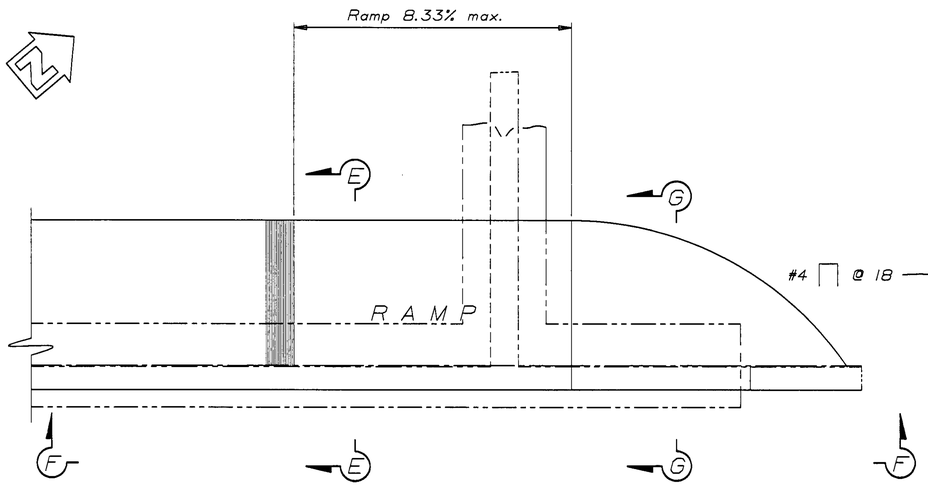
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06.	Fre,Mad	99	20.5/22.4, 9.7/11.0	29	39

REGISTERED ENGINEER - CIVIL

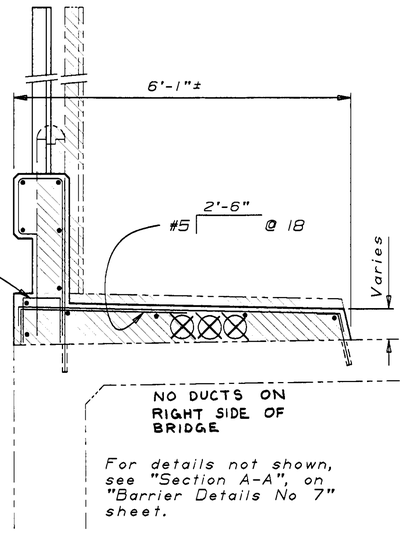
REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE



HALF PLAN - ABUT. 3 RT. SIDE

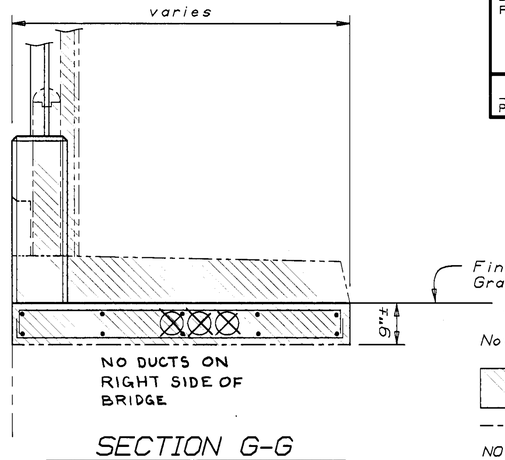
$\frac{3}{8}$"= 1'-0"



For details not shown, see "Section A-A", on "Barrier Details No 7" sheet.

SECTION E-E

$\frac{3}{4}$"= 1'-0"



SECTION G-G

$\frac{3}{4}$"=1'-0"

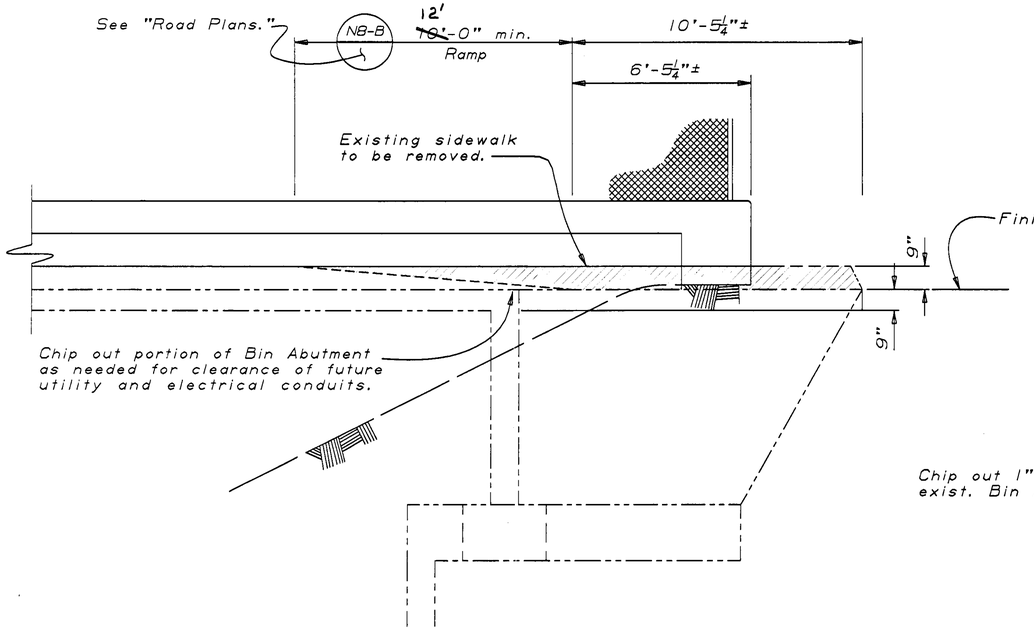
For details not shown, see "Typical Section" on "Barrier Details No.5" sheet.

Notes:

Indicates limits of existing Structure removal.

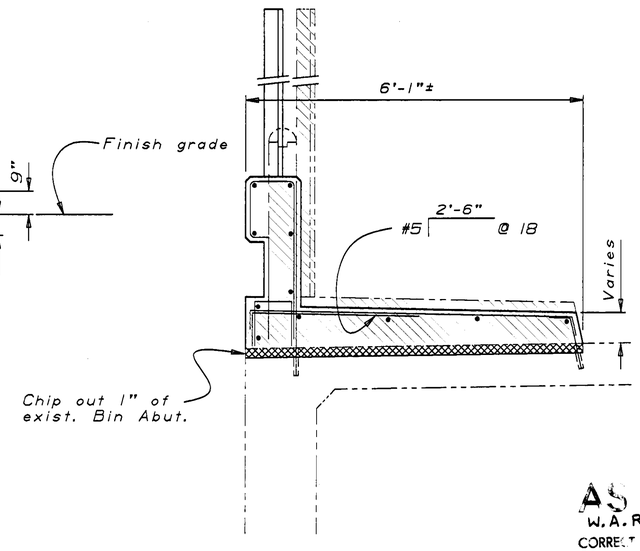
Indicates existing structure.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



ELEVATION F-F

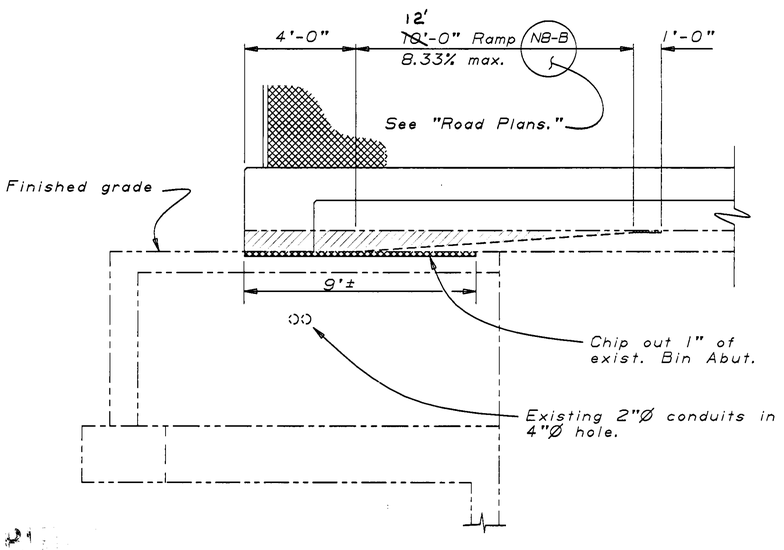
$\frac{3}{8}$"= 1'-0"



SECTION J-J

$\frac{3}{4}$"= 1'-0"

For details not shown, see "Section A-A", on "Barrier Details No 7" sheet.



ELEVATION H-H

$\frac{3}{8}$"= 1'-0"

W.A.R. 3-11-93
CORRECT J. ABERCROMBIE
CONTRACT NO. 06-282204
DATE 8-3-92

WEST YOSEMITE AVE. OVERCROSSING

DESIGN	BY D. ROSS	CHECKED G. JOE	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9	BRIDGE NO. 41-49
DETAILS	BY 9-90	CHECKED G. JOE			POST MILE 10.8
QUANTITIES	BY D. ROSS	CHECKED S. MAAN			

CONCRETE BARRIER REPLACEMENT
BARRIER DETAILS NO. 6

DS 050 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 9-7-90; 9-28-90; 10-3-90; 10-4-90; 10-17-90; 12-3-90

SHEET 14 OF 24

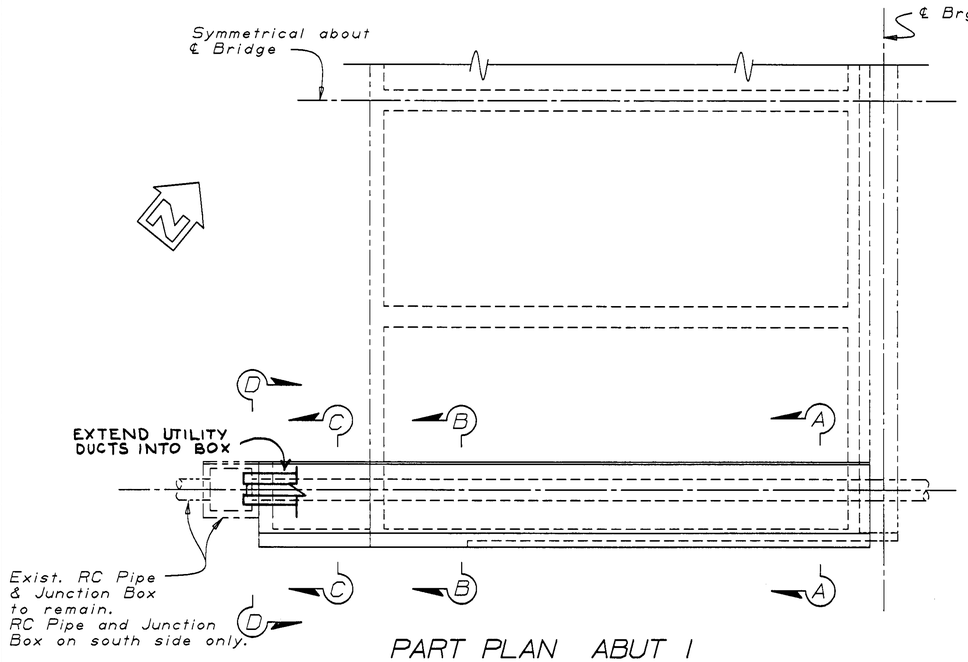
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	30	39

REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

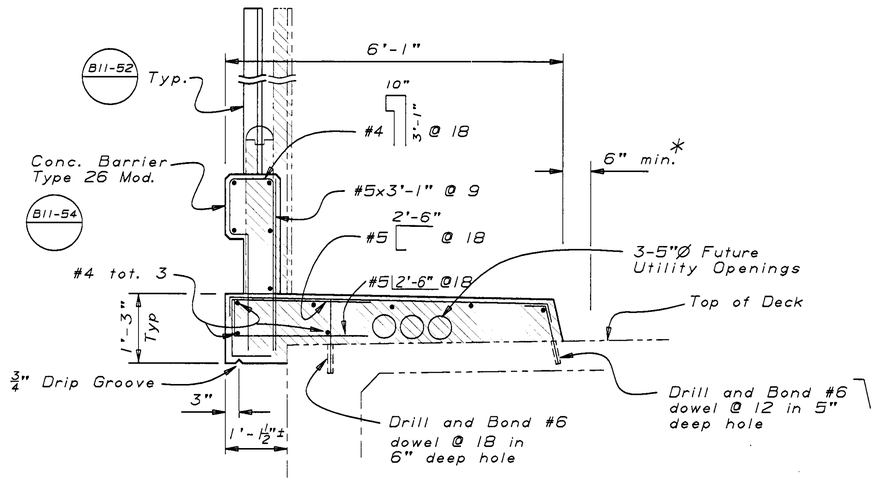
2-4-91
PLANS APPROVAL DATE



PART PLAN ABUT 1

$\frac{3}{16}$"=1'-0"

Abutment 3 similar except as noted, see Barrier Details No. 8 sheet.



TYPICAL SECTION

$\frac{3}{4}$"=1'-0"

(LOOKING BACK ON STATION)

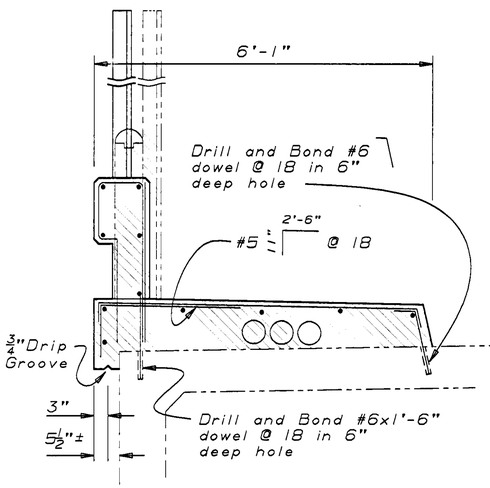
Notes:

* Limits of refinishing bridge deck.

Indicates limits of existing Structure removal.

Indicates existing structure.

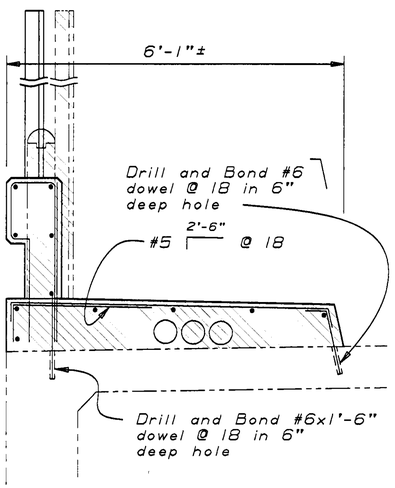
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



SECTION A-A

$\frac{3}{4}$"=1'-0"

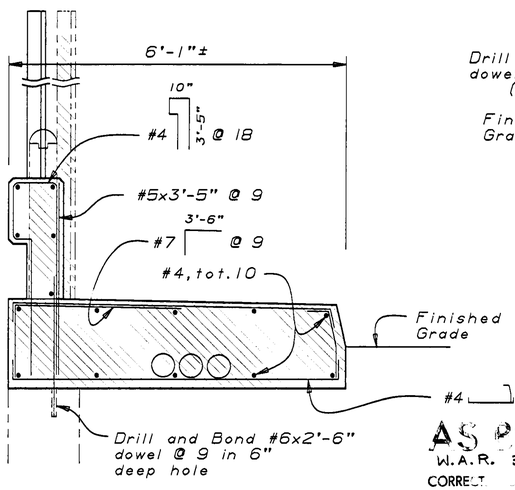
For details not shown see Typical Section



SECTION B-B

$\frac{3}{4}$"=1'-0"

For details not shown see Typical Section

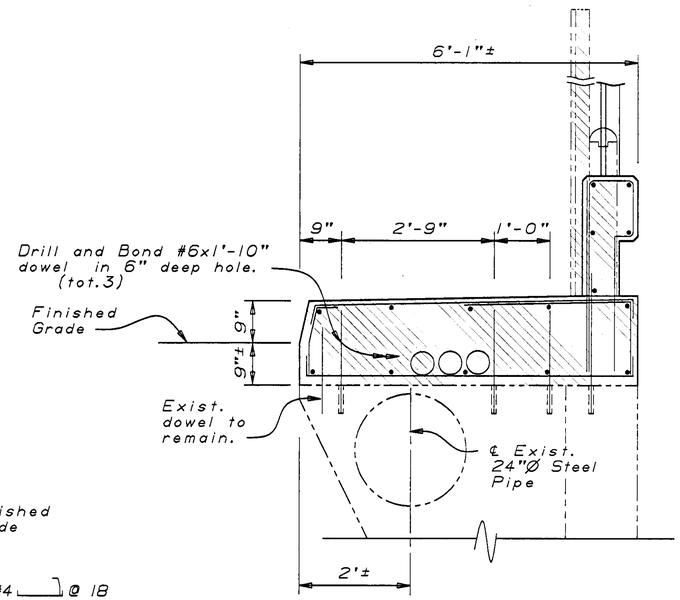


SECTION C-C

$\frac{3}{4}$"=1'-0"

For details not shown see Typical Section

AS PLOTTED
W.A.R. 3-10-93
CORRECTED J. ABERCROMBIE
CONTRACT NO. 06-282204
DATE 8-3-92



VIEW D-D

$\frac{3}{4}$"=1'-0"

For details not shown see Section C-C

WEST FOURTH STREET OVERCROSSING

DESIGN	BY D. Ross 9-90	CHECKED G. Joe 9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9	BRIDGE NO. 41-50
DETAILS	BY L. Good 9-90	CHECKED G. Joe 9-90			POST MILE 11.0
QUANTITIES	BY D. Ross 9-90	CHECKED S. Maan 9-90		CU 06200 EA 282201	

CONCRETE BARRIER REPLACEMENT
BARRIER DETAILS NO. 7

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 9-21-90 | 9-26-90 | 9-28-90 | 10-1-90 | 10-8-90 | 12-3-90

SHEET 15 OF 24

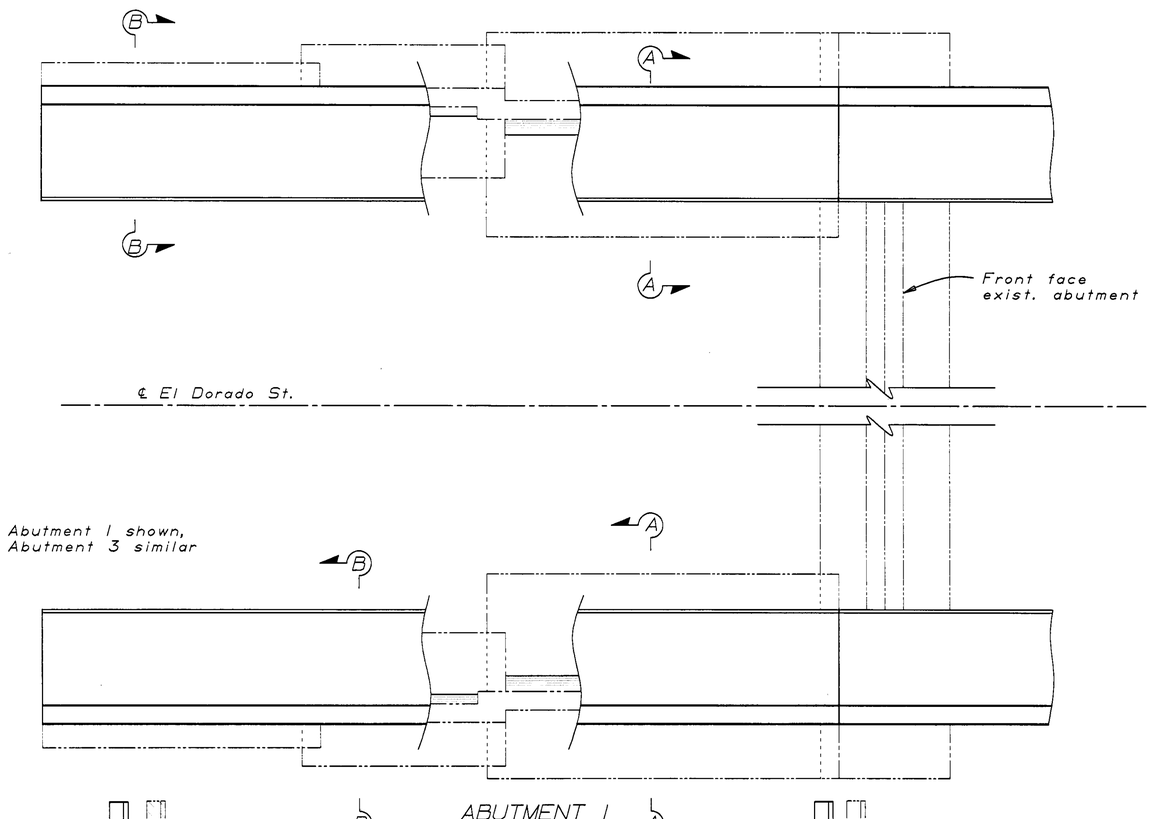
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	33	39

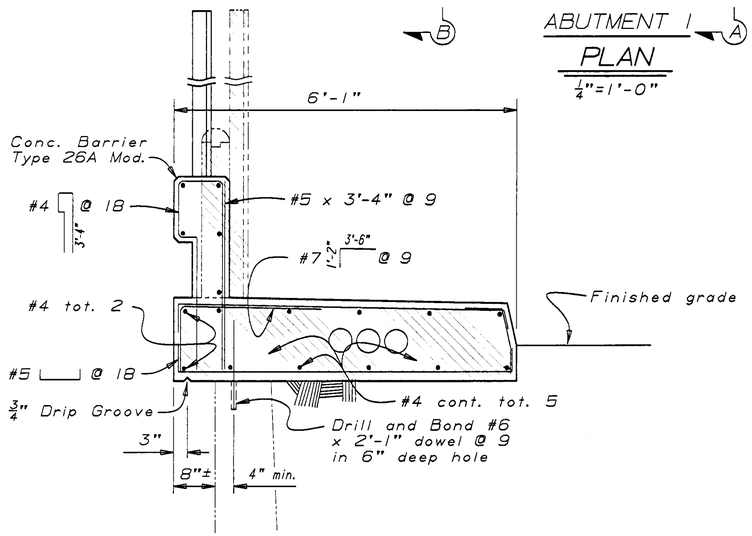
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

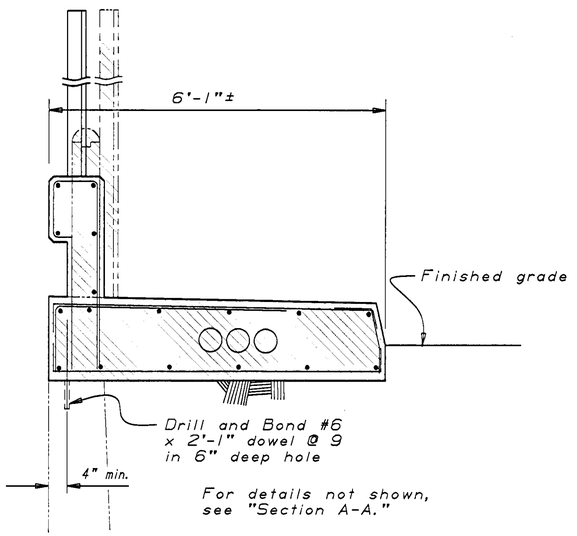
2-4-91
PLANS APPROVAL DATE



ABUTMENT 1
PLAN
1/4"=1'-0"

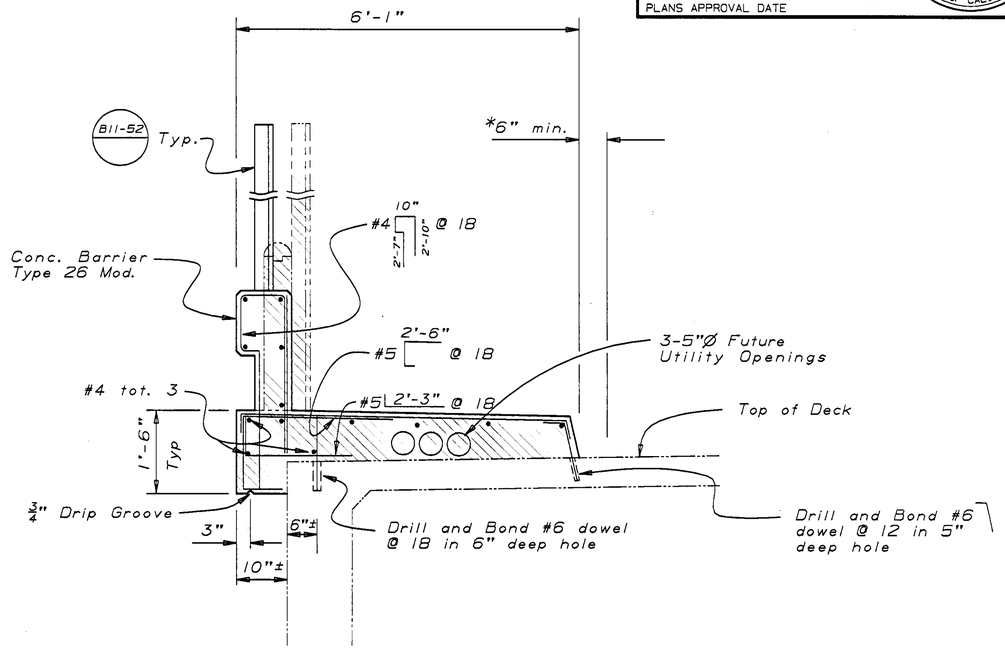


SECTION A-A
3/4"=1'-0"



For details not shown, see "Section A-A."

SECTION B-B
3/4"=1'-0"



TYPICAL SECTION (B11-54)
3/4"=1'-0"

NO CORRECTIONS THIS SHEET

W.A.R. 3-11-93
CORRECTED J. ABERCROMBIE
CONTRACT NO. 06-282204
DATE 8-3-92

Notes:

* Limits of refinishing bridge deck.

Indicates limits of existing Structure removal.

Indicates existing structure.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

EL DORADO STREET OVERCROSSING

DESIGN	BY D. ROSS 9-90	CHECKED G. JOE 9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9
DETAILS	BY D.A. SANDERSON 9-90	CHECKED G. JOE 9-90		
QUANTITIES	BY D. ROSS 9-90	CHECKED S. MAAN 9-90		

BRIDGE NO. 42-184
POST MILE 21.5

CONCRETE BARRIER REPLACEMENT
BARRIER DETAILS NO. 10

DS 050 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 9-11-90 | 9-28-90 | 10-1-90 | 10-4-90 | 10-8-90 | 12-3-90

SHEET 18 OF 24

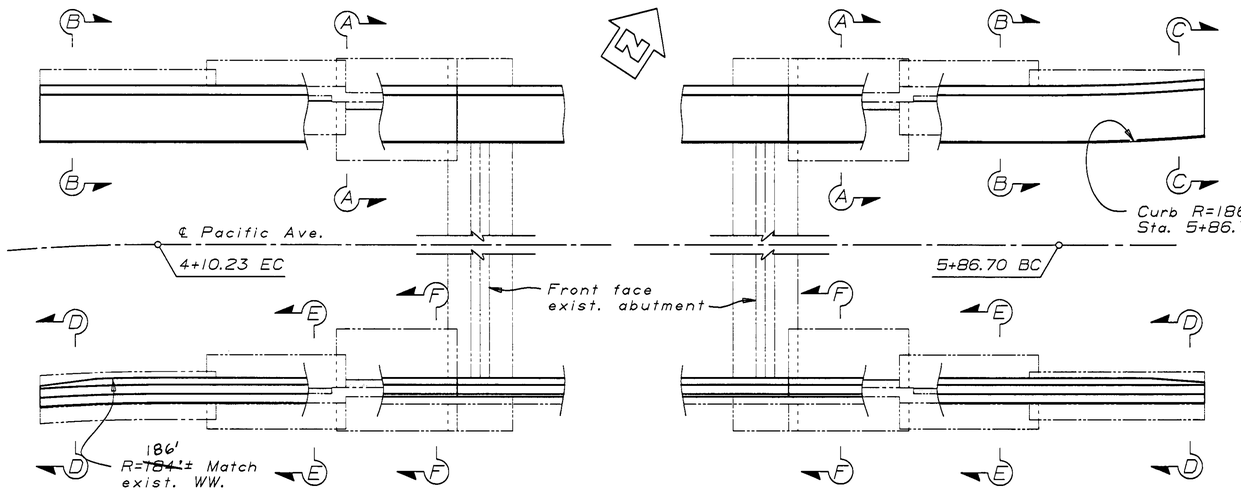
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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	34	39

REGISTERED ENGINEER - CIVIL

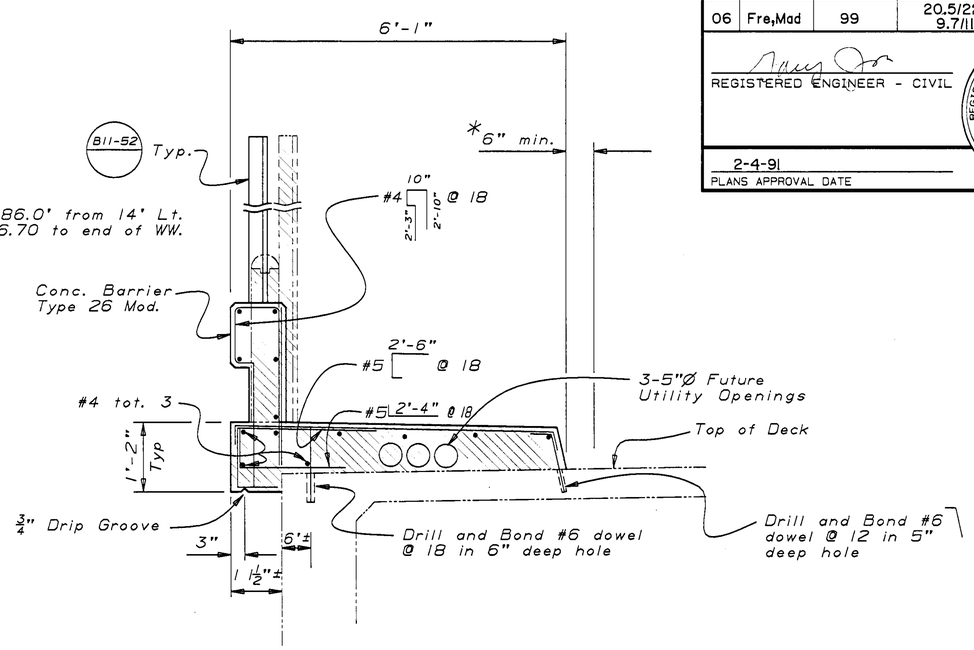
REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE

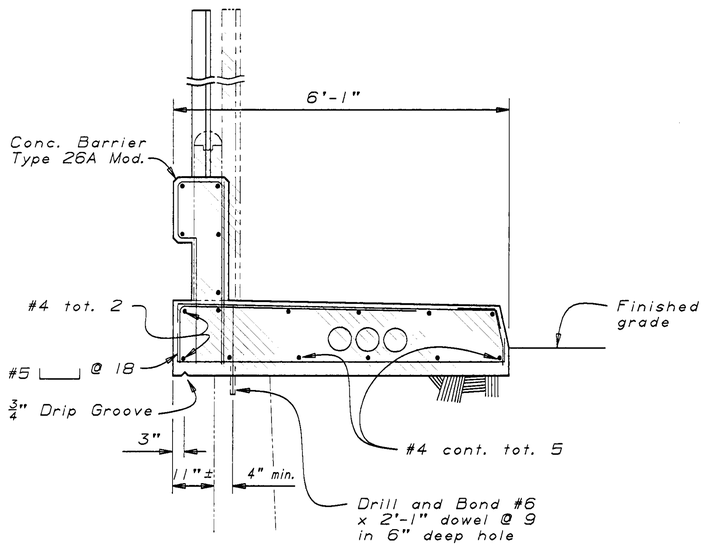


PLAN
1/8"=1'-0"

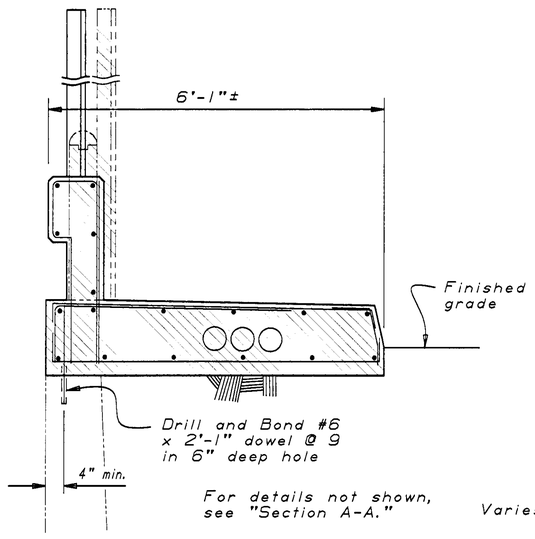
Note:
For Sections D-D, E-E, F-F and Typical Section - Rt. Edge of Deck, see "Barrier Details No. 12" sheet.



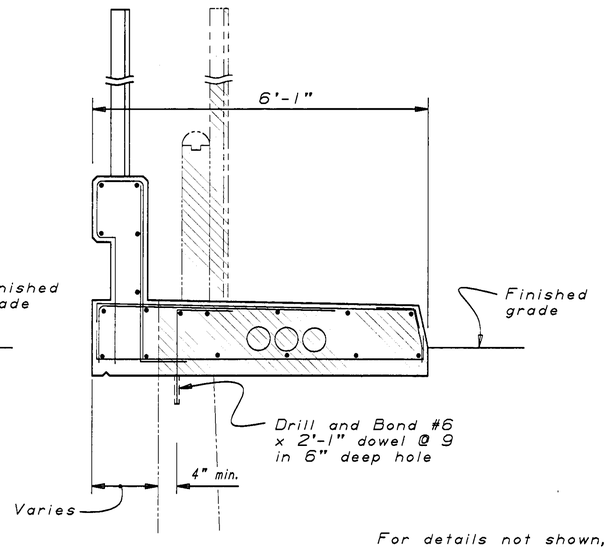
TYPICAL SECTION - LT. EDGE OF DECK B11-54
¾"=1'-0"



SECTION A-A B11-54
¾"=1'-0"



SECTION B-B
¾"=1'-0"



SECTION C-C
¾"=1'-0"

W.A.R 3-11-93
CORRE[illegible] J. ABERCROMBIE
CONTRACT NO. 06-282204
DATE 8-3-92

Notes:

* Limits of refinishing bridge deck.

Indicates limits of existing Structure removal.

Indicates existing structure.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

PACIFIC AVENUE OVERCROSSING

DESIGN	BY D. ROSS 9-90	CHECKED G. JOE 9-90	
DETAILS	BY D.A. SANDERSON 9-90	CHECKED G. JOE 9-90	
QUANTITIES	BY D. ROSS	CHECKED S. MAAN	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 9

CU 06200
EA 282201

BRIDGE NO.	CONCRETE BARRIER REPLACEMENT
42-189	BARRIER DETAILS NO. 11
POST MILE 22.4	

DS OSD 2139 (CADD 4/89)

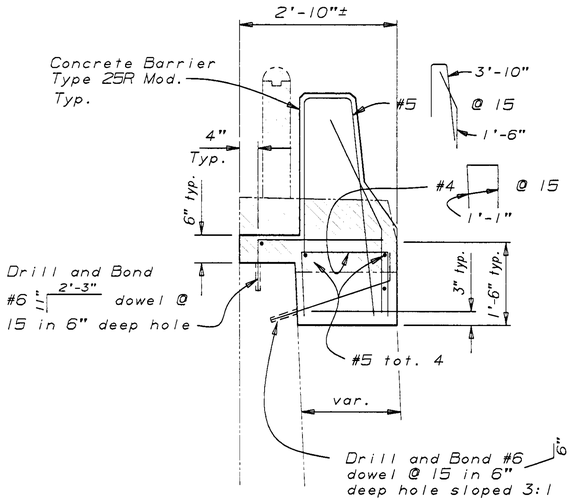
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 9-11-90 | 10-1-90 | 10-8-90 | 10-15-90 | 10-18-90 | 12-3-90

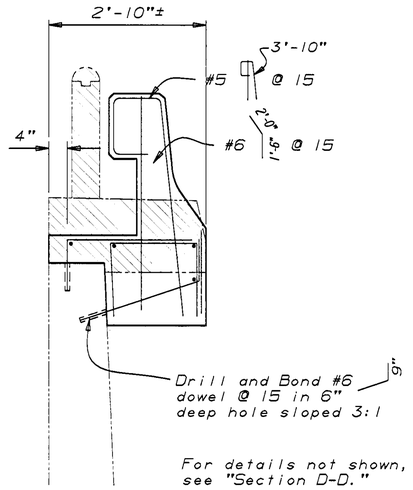
SHEET 19 OF 24

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SECTION D-D

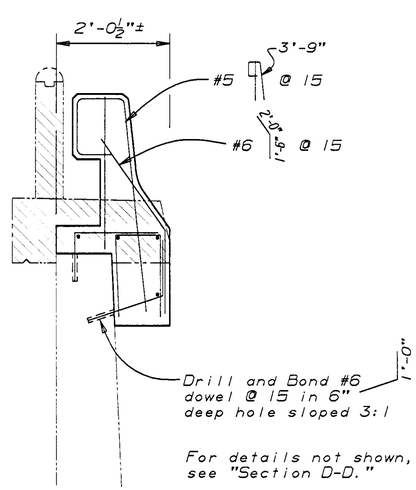
$\frac{3}{4}$"=1'-0"



For details not shown, see "Section D-D."

SECTION E-E

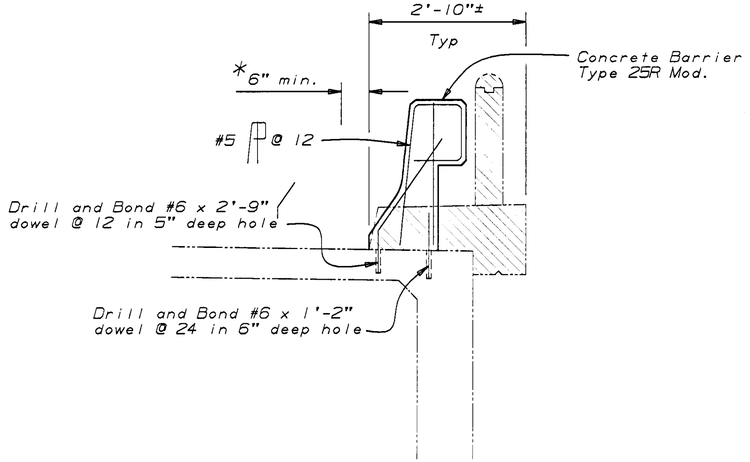
$\frac{3}{4}$"=1'-0"



For details not shown, see "Section D-D."

SECTION F-F

$\frac{3}{4}$"=1'-0"



TYPICAL SECTION - RT. EDGE OF DECK

$\frac{3}{4}$"=1'-0"

Notes:

* Limits of refinishing bridge deck.

For locations of "Section D-D, E-E & F-F," see "Barrier Details No. 4" sheet.

For details and reinf. not shown see "Concrete Barrier Type 25R" sheet.

Indicates limits of existing Structure removal.

Indicates existing structure.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

NO CORRECTIONS THIS SHEET

AS BUILT

W. A. R. 3-11-93

CORRECTED BY J. ABERCROMBIE

CONTRACT NO. 06-282204

DATE 8-3-92

PACIFIC AVENUE OVERCROSSING

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	35	39

REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE

DESIGN	BY D. ROSS 9-90	CHECKED G. JOE 9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9	BRIDGE NO. 42-189 / POST MILE 22.4
DETAILS	BY D.A. SANDERSON 9-90	CHECKED G. JOE 9-90			
QUANTITIES	BY D. ROSS 9-90	CHECKED S. MAAN 9-90			

CONCRETE BARRIER REPLACEMENT
BARRIER DETAILS NO. 12

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 9-14-90 | 9-18-90 | 10-1-90 | 10-8-90 | 11-28-90

SHEET 20 OF 24

ClibPDF - www.fastio.com

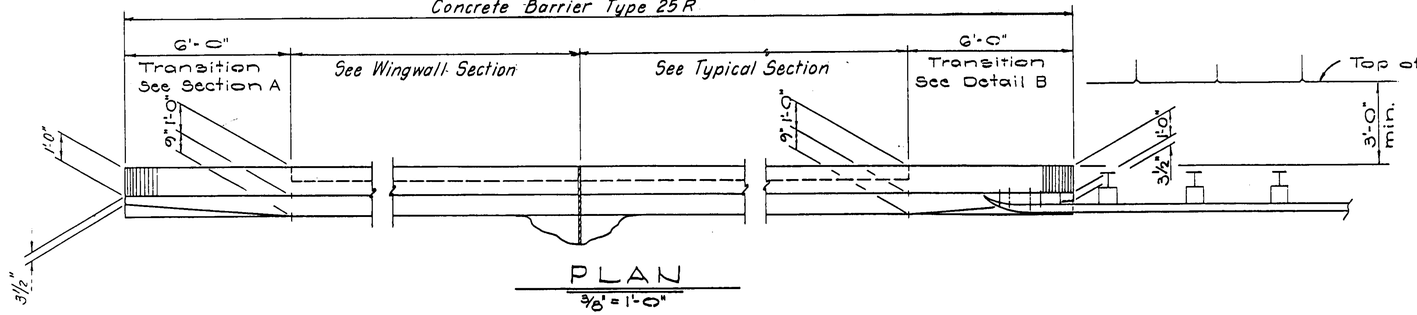
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	39	39

REGISTERED ENGINEER - CIVIL

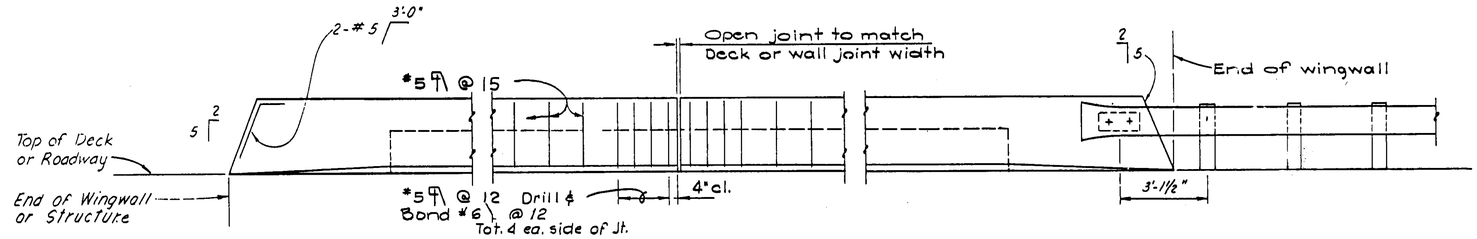
2-4-91
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — G. Joe — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

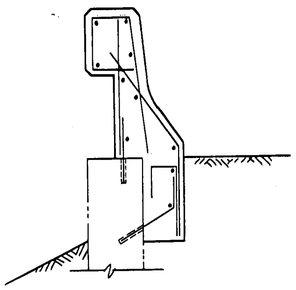
Concrete Barrier Type 25R



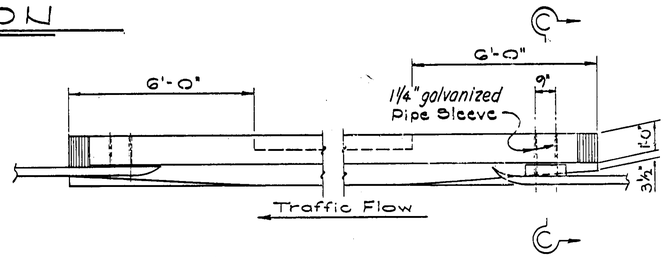
PLAN
3/8" = 1'-0"



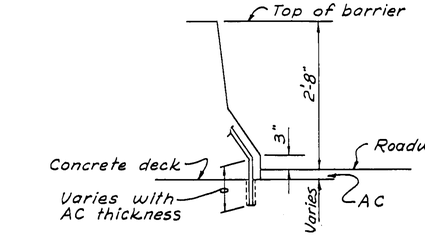
ELEVATION
3/8" = 1'-0"



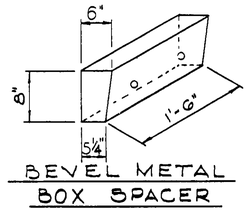
WINGWALL SECTION
3/4" = 1'-0"



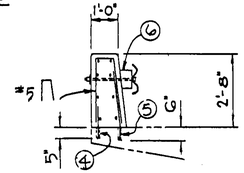
PLAN



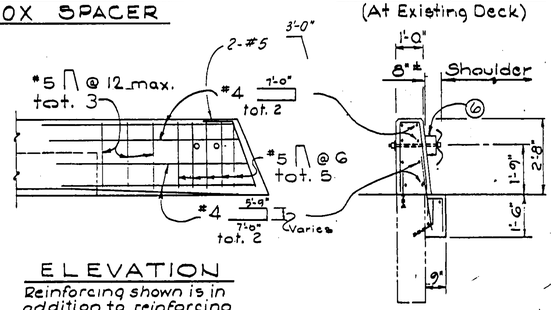
AC DETAIL



BEVEL METAL
BOX SPACER



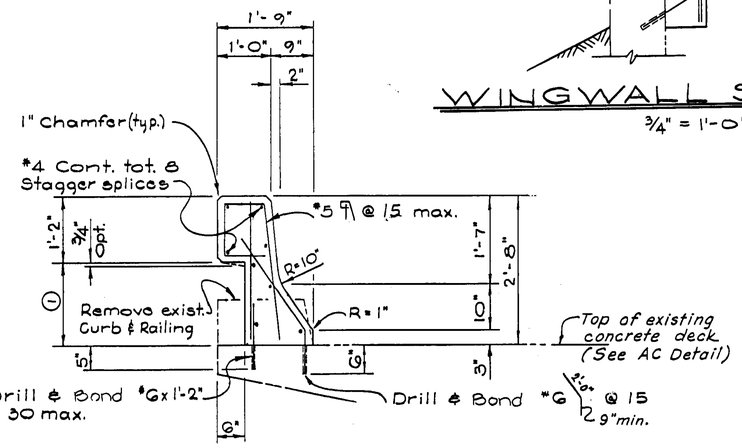
SECTION C-C
(At Existing Deck)



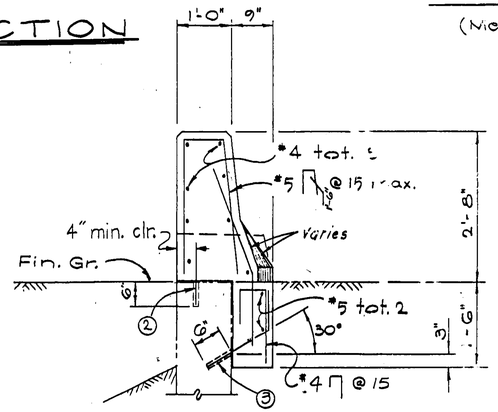
ELEVATION
Reinforcing shown is in addition to reinforcing in Typical Section

SECTION C-C
(At Wingwall)
For Details not shown, see "Section A".

DETAIL B
(Metal Beam Guard Rail Anchorage)



TYPICAL SECTION
3/4" = 1'-0"



SECTION A
3/4" = 1'-0"

Notes:
① - Dimension may vary with cross-slope and with certain thicknesses of surfacing.
② - Drill & Bond #6 x 1'-2" @ 30 max.

③ - Drill & Bond #6 @ 30 max.
④ - Drill & Bond #6 x 1'-2" @ 15
⑤ - Drill & Bond #6 x 2'-6" @ 15
⑥ - Bevel Metal Box Spacer, for anchorage details see Std. Plans A79-C.

Clearance to reinforcing steel in barrier to be 1" except as noted. Longitudinal reinforcement to stop at all expansion joints.
All reinforcing dowels or bolts which will be exposed after Barrier Modification shall be cut off 1" below finish surface and the hole filled with cement mortar.
For Metal Beam Guard Rail details not shown see Standard Plans A77-C, A77-D, A79-A, A79-B and A79-C.

For Drill and Bond, use Magnesium Phosphate Concrete.

NO CORRECTIONS THIS SHEET
AS BUILT
CORRECTED J. ABERCROMBIE
CONTRACT NO. 06-282204
DATE 8-3-93

FILE NO.	DESIGN By G. Joe	Checked D. Ross	Approval Recommended By
DRAWING	DETAILS By	Checked	DESIGN SUPERVISOR
DATE	SUBMITTED BY		REGISTERED CIVIL ENGINEER NUMBER

State of CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN

PROJECT ENGINEER — REGISTERED CIVIL ENGINEER NO.

BRIDGE NO. Various
POST MILE Various

CONCRETE BARRIER REPLACEMENT
CONCRETE BARRIER TYPE 25R

DS 050 2147A (2/86)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

Disregard prints bearing earlier revision dates →

REVISION DATES (PRELIMINARY STAGE ONLY): 8/86 9/87

SHEET 24 OF 24

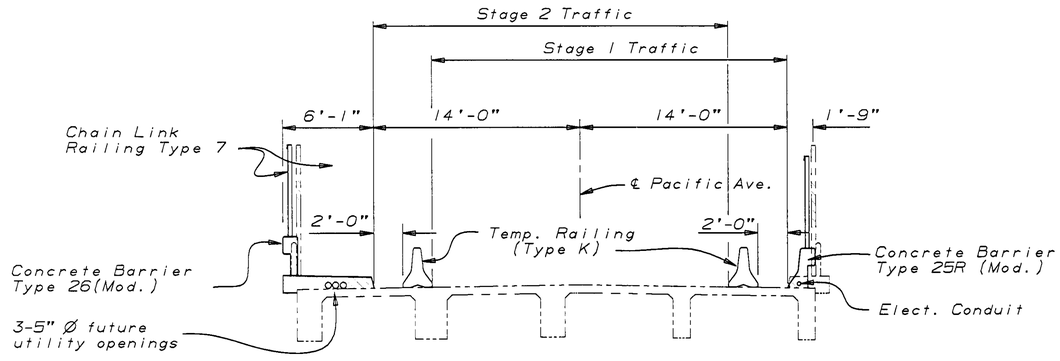
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	23	39

REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE



TYPICAL SECTION

1" = 5'

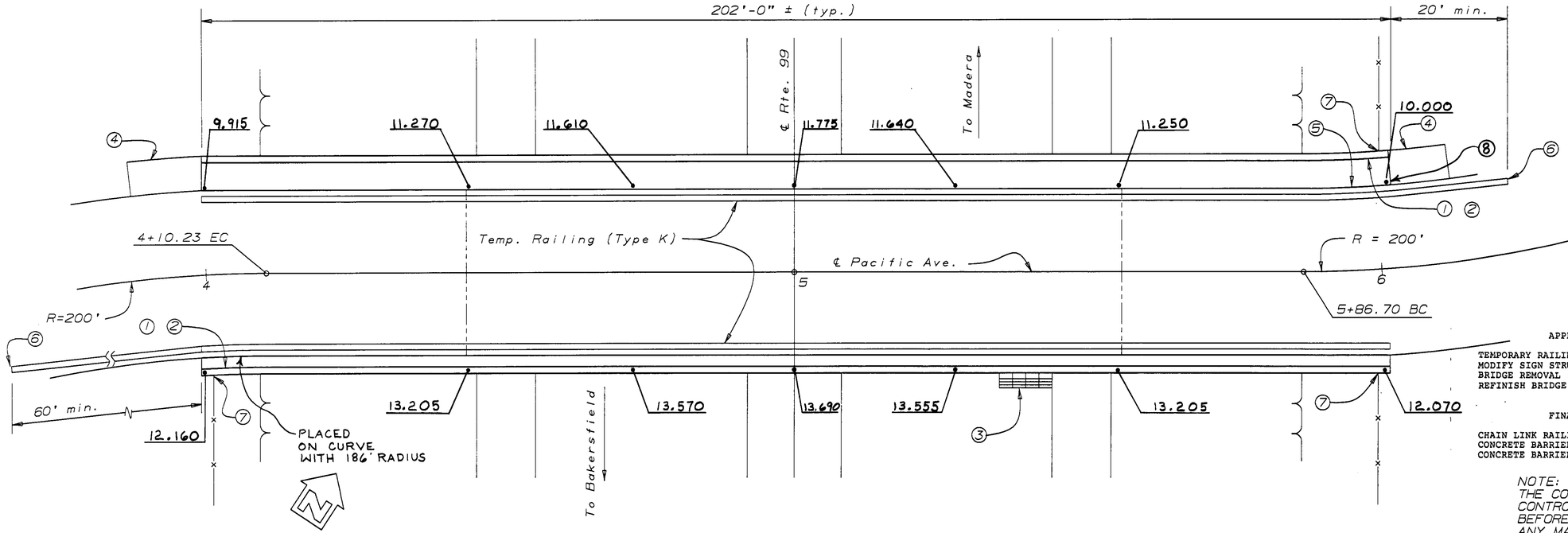
Notes:

1. Paint "Pacific Avenue Overcrossing" and year constructed.
2. Paint "Br. No. 42-189".
3. Remove sign structure prior to construction and reinstall after barrier rails are completed.
4. Construct 6' wide AC ramps at 8.33%, see "Road Plans."
5. Existing sidewalk curb is curved on a radius of 186'± from sta. 5+86.70 to end of wingwall.
6. Temporary Crash Cushion Modules, see "Road Plans."
7. Remove end post of existing Right of Way Fence prior to construction. Replace and reconnect end post and Fence after Barrier Rail is complete.

▨ Indicates limits of existing Structure removal.

– – – – Indicates existing structure.

8. REFERENCE NAILS BASED ON ASSUMED ELEV 10.000 (NE CORNER)



PLAN

1" = 10'

AS BUILT
W.A.R. 3-11-93
CORRECTED BY J. ABERCROMBIE
CONTRACT NO. 06-282204
DATE 8-3-92

APPROXIMATE QUANTITIES

TEMPORARY RAILING (TYPE K)	500 LF
MODIFY SIGN STRUCTURE	1 EA
BRIDGE REMOVAL (PORTION), LOCATION H	LUMP SUM
REFINISH BRIDGE DECK	112 SQFT

FINAL PAY QUANTITIES

CHAIN LINK RAILING (TYPE 7)	406 LF
CONCRETE BARRIER (TYPE 25R MODIFIED)	203 LF
CONCRETE BARRIER (TYPE 26 MODIFIED)	203 LF

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

PACIFIC AVENUE OVERCROSSING

L M Stoke 12-90
DESIGN ENGINEER

DESIGN	BY D. Ross 9-90	CHECKED G. Joe 9-90	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
DETAILS	BY D.A. SANDERSON 7-90	CHECKED G. Joe 9-90	LAYOUT	BY D. Ross 9-90	CHECKED G. Joe 9-90
QUANTITIES	BY D. Ross 9-90	CHECKED S. Maan 9-90	SPECIFICATIONS	BY	PLANS AND SPECS COMPARED

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 9

CU 06200
EA 282201

BRIDGE NO. 42-189
POST MILE 22.4

CONCRETE BARRIER REPLACEMENT
GENERAL PLAN NO. 8

DS OSD 2138 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 7-2-90 | 8-30-90 | 9-11-90 | 9-28-90 | 10-3-90 | 10-5-90 | 10-8-90 | 11-28-90

SHEET 8 OF 24

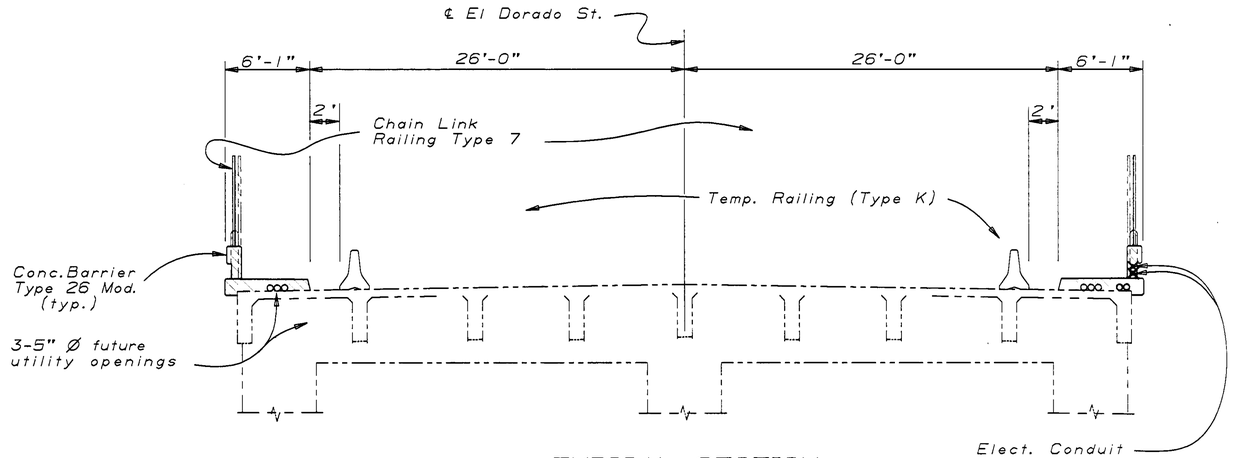
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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	22	39

REGISTERED ENGINEER - CIVIL

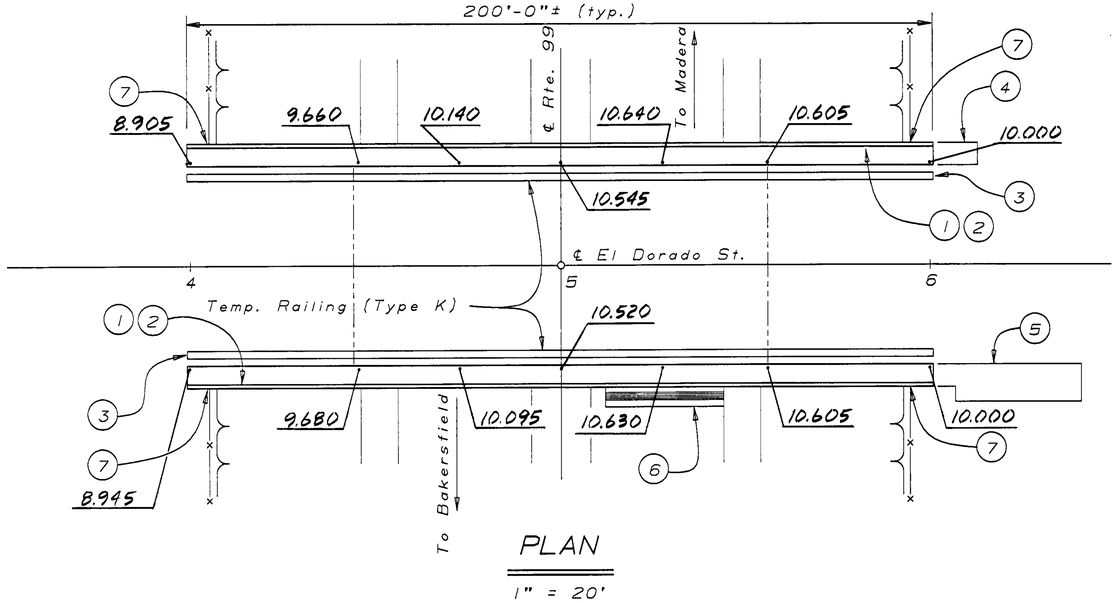
REGISTERED PROFESSIONAL ENGINEER — Gary Joe, No. 36652, Exp. 6-30-92, CIVIL, STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE



TYPICAL SECTION

1" = 5'



PLAN

1" = 20'

AS BUILT
CORRECTED BY D.A.S. 1-15-93 J. Abercrombie
CONTRACT NO. 06-282204
DATE 8-3-92

Notes:

(1) Paint "El Dorado Street Overcrossing" and year constructed.

(2) Paint "Br. No. 42-184".

(3) Temporary Crash Cushion Modules, see "Road Plans."

(4) Construct 6' wide AC ramp at 8.33%, see "Road Plans."

(5) Construct PCC sidewalk, see "Road Plans."

(6) Remove sign structure prior to construction and reinstall after barrier rails are completed.

(7) Remove end post of Right of Way Fence prior to construction. Replace and reconnect end post and Fence after Barrier Rail is complete.

▨ Indicates limits of existing Structure removal.

– – – – Indicates existing structure.

(8) Reference nails based on Assumed Elev. 10.000 (NE Corner)

APPROXIMATE QUANTITIES

TEMPORARY RAILING (TYPE K)	400 LF
MODIFY SIGN STRUCTURE	1 EA
BRIDGE REMOVAL (PORTION), LOCATION G	LUMP SUM
REFINISH BRIDGE DECK	112 SQFT

FINAL PAY QUANTITIES

CHAIN LINK RAILING (TYPE 7)	399 LF
CONCRETE BARRIER (TYPE 26 MODIFIED)	399 LF

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

EL DORADO STREET OVERCROSSING

L M Storke 12-90
DESIGN ENGINEER

	BY		CHECKED	
DESIGN	D. Ross	9-90	G. Jos	9-90
DETAILS	Flo Callum	5-90	G. Joe	9-90
QUANTITIES	D. Ross	9-90	S. Maan	9-90

LOAD FACTOR DESIGN — LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD

	BY		CHECKED	
LAYOUT	D. Ross	9-90	G. Joe	9-90
SPECIFICATIONS	R.J. Cochrane		PLANS AND SPECS COMPARED	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 9

BRIDGE NO. 42-184
POST MILE 21.5

CONCRETE BARRIER REPLACEMENT
GENERAL PLAN NO. 7

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 5-24-90 | 6-1-90 | 8-30-90 | 9-11-90 | 9-14-90 | 9-27-90 | 10-1-90 | 10-9-90 | 11-27-90

SHEET 7 OF 24

DS OSD 2138 (CADD 4/89)

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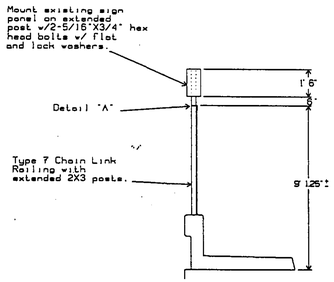
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	21	39

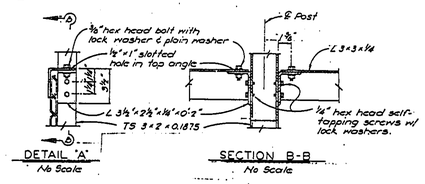
REGISTERED ENGINEER - CIVIL

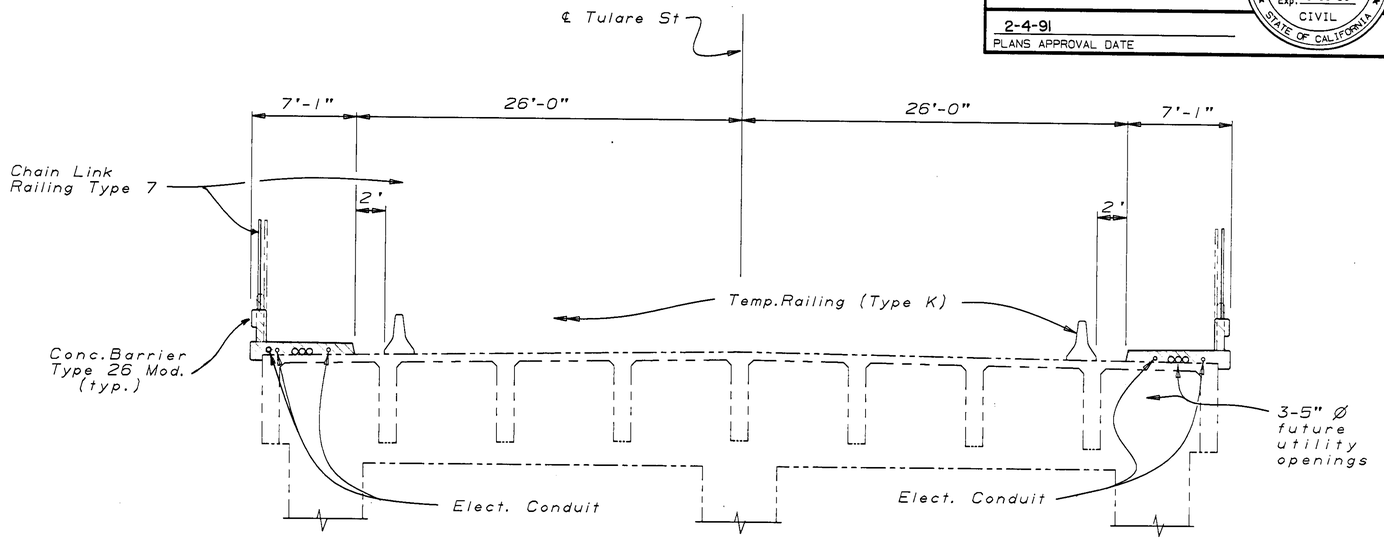
Gary Joe
No. 36652
Exp. 6-30-90
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE

CCO #3

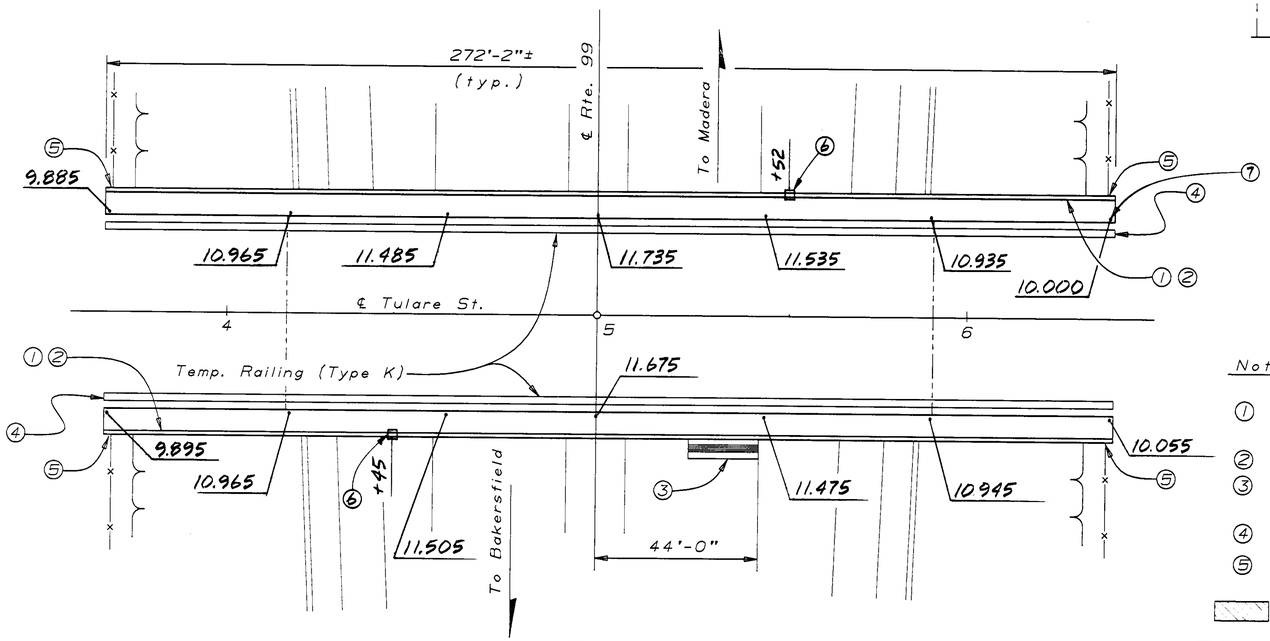






TYPICAL SECTION

1" = 5'



PLAN

1" = 20'

AS BUILT
CORRECTED BY D.A.S. 1-15-93 J Abercrombie
CONTRACT NO. 06-282204
DATE 8-3-92

APPROXIMATE QUANTITIES

TEMPORARY RAILING (TYPE K)	560	LF
REMOVE SIGN STRUCTURE	1	EA
BRIDGE REMOVAL (PORTION), LOCATION F	LUMP	SUM
REFINISH BRIDGE DECK	175	SQFT
FURNISH SIGN STRUCTURE (BRIDGE MOUNTED WITH WALKWAY)	1,205	LB
INSTALL SIGN STRUCTURE (BRIDGE MOUNTED WITH WALKWAY)	1,205	LB

FINAL PAY QUANTITIES

CHAIN LINK RAILING (TYPE 7)	546	LF
CONCRETE BARRIER (TYPE 26 MODIFIED)	546	LF

Notes:

1. Paint "Tulare Street Overcrossing" and year constructed.
2. Paint "Br. No. 42-169".
3. Remove existing sign structure prior to construction. Install new sign structure after Barrier Rail is completed.
4. Temporary Crash Cushion Modules, see "Road Plans."
5. Remove end post of existing Right of Way Fence prior to construction. Replace and reconnect end post and Fence after Barrier Rail is complete.

▨ Indicates limits of existing Structure removal.

– – – – Indicates existing structure.

6. Road sign mounted on 2x3 steel post of Type 7 fencing See details above. CCO #3 (No Parking Signs)
7. Reference nails based on Assumed Elev. 10.000 (NE Corner)

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

TULARE STREET OVERCROSSING

L M Stolis 12-30
DESIGN ENGINEER

DESIGN	BY D. Ross 9-90	CHECKED G. Joe 9-90	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
DETAILS	BY Flo Collum 5-90	CHECKED G. Joe 9-90	LAYOUT	BY D. Ross 9-90	CHECKED G. Joe 9-90
QUANTITIES	BY D. Ross 9-90	CHECKED S. Maan 9-90	SPECIFICATIONS	BY R. J. Abercrombie	PLANS AND SPECS COMPARED R. L. Baker

DS OSD 2138 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 9

CU 06200
EA 282201

BRIDGE NO. 42-169
POST MILE 20.6

CONCRETE BARRIER REPLACEMENT
GENERAL PLAN NO. 6

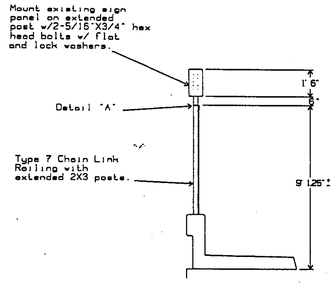
DISREGARD PRINTS BEARING EARLIER REVISION DATES →

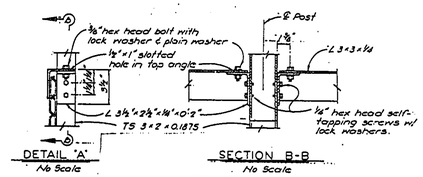
REVISION DATES (PRELIMINARY STAGE ONLY): 5-21-90 | 6-13-90 | 8-30-90 | 9-10-90 | 9-13-90 | 9-27-90 | 10-5-90 | 11-27-90

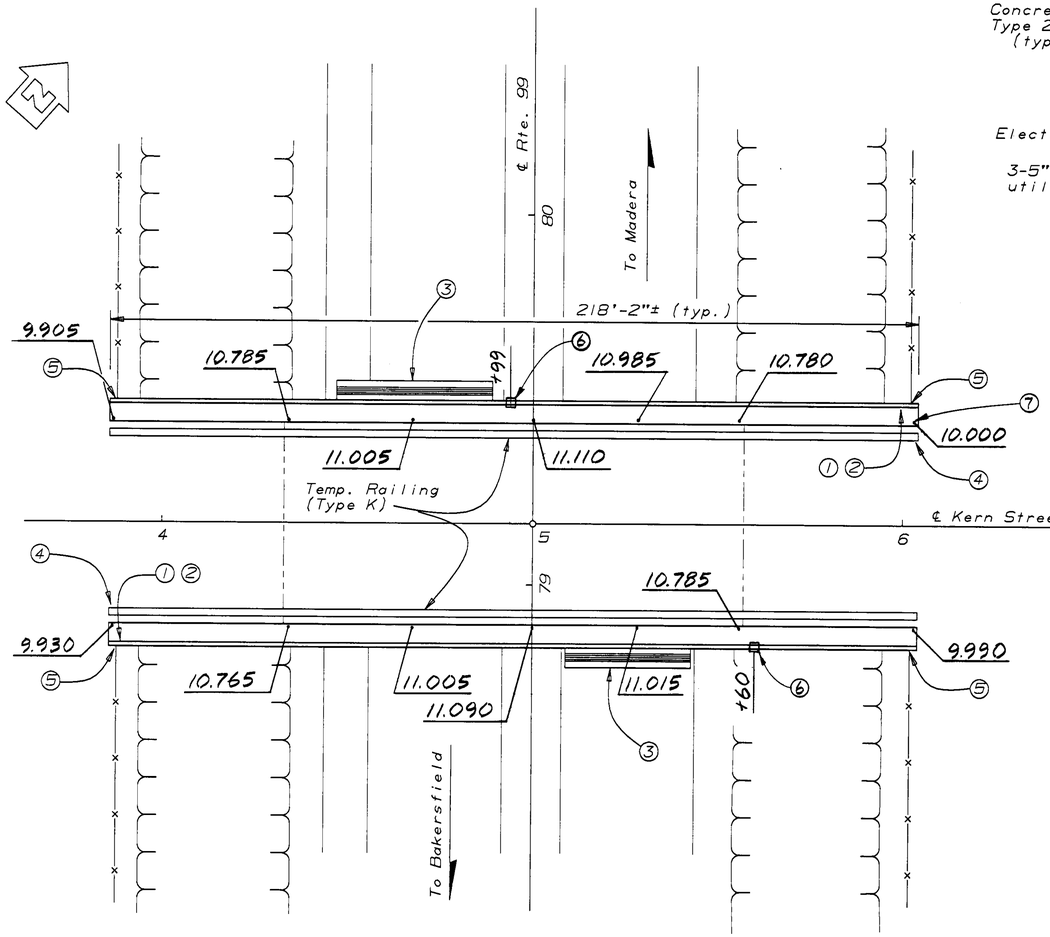
SHEET 6 OF 24

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CCO #3

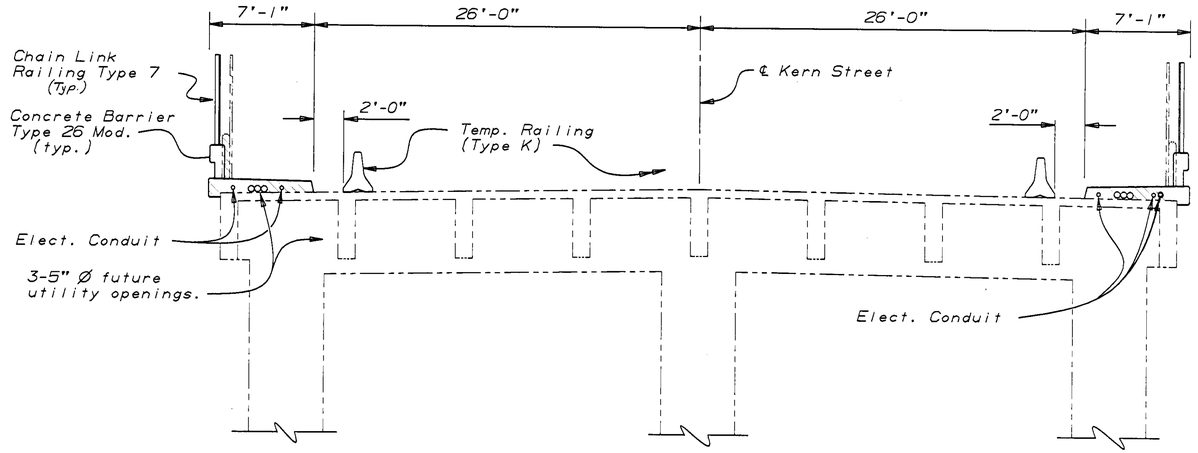






PLAN

1"=20'



TYPICAL SECTION

1"=5'

AS BUILT
D.A.S. 1-15-92
CORRECTED BY J. Abercrombie
CONTRACT NO. 06-282204
DATE 8-3-92

Notes:

1. Paint "Kern Street Overcrossing" and year constructed.
2. Paint "Br. No. 42-159".
3. Remove sign structures prior to construction and reinstall after barrier rails are completed.
4. Temporary Crash Cushion Modules, see "Road Plans."
5. Remove end post of existing Right of Way Fence prior to construction. Replace and reconnect end post and Fence after Barrier Rail is completed.

▨ Indicates limits of existing Structure removal.

– – – – Indicates existing structure.

6. Road sign mounted on 2x3 steel post of Type 7 fencing See details above. CCO #3 (No Parking Signs)
7. Reference nails based on Assumed Elev. 10.000 (NE Corner)

APPROXIMATE QUANTITIES

TEMPORARY RAILING (TYPE K)	440 LF
MODIFY SIGN STRUCTURE	2 EA
BRIDGE REMOVAL (PORTION), LOCATION E	LUMP SUM
REFINISH BRIDGE DECK	125 SQFT

FINAL PAY QUANTITIES

CHAIN LINK RAILING (TYPE 7)	437 LF
CONCRETE BARRIER (TYPE 26 MODIFIED)	437 LF

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

KERN STREET OVERCROSSING

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	20	39

REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036652 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE

J. M. Stolin 12-90
DESIGN ENGINEER

DESIGN	BY D. Ross 9-90	CHECKED G. Joe 9-90	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
DETAILS	BY D.A. SANDERSON 7-90	CHECKED G. Joe 9-90	LAYOUT	BY D. Ross 9-90	CHECKED G. Joe 9-90
QUANTITIES	BY D. Ross 9-90	CHECKED S. Maan 9-90	SPECIFICATIONS	BY R. J. Anderson	PLANS AND SPECS COMPARED R. J. Anderson

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 9

BRIDGE NO. 42-159
POST MILE 20.5

CONCRETE BARRIER REPLACEMENT
GENERAL PLAN NO. 5

DS OSD 2138 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 7-5-90 | 8-10-90 | 9-7-90 | 9-14-90 | 9-27-90 | 10-5-90 | 10-15-90 | 10-25-90 | 11-27-90

SHEET 5 OF 24

ClibPDF - www.fastio.com

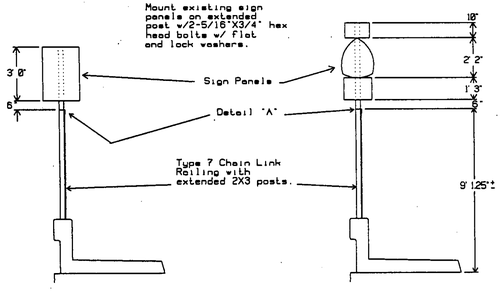
CCO #3

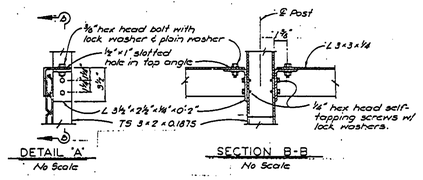
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	19	39

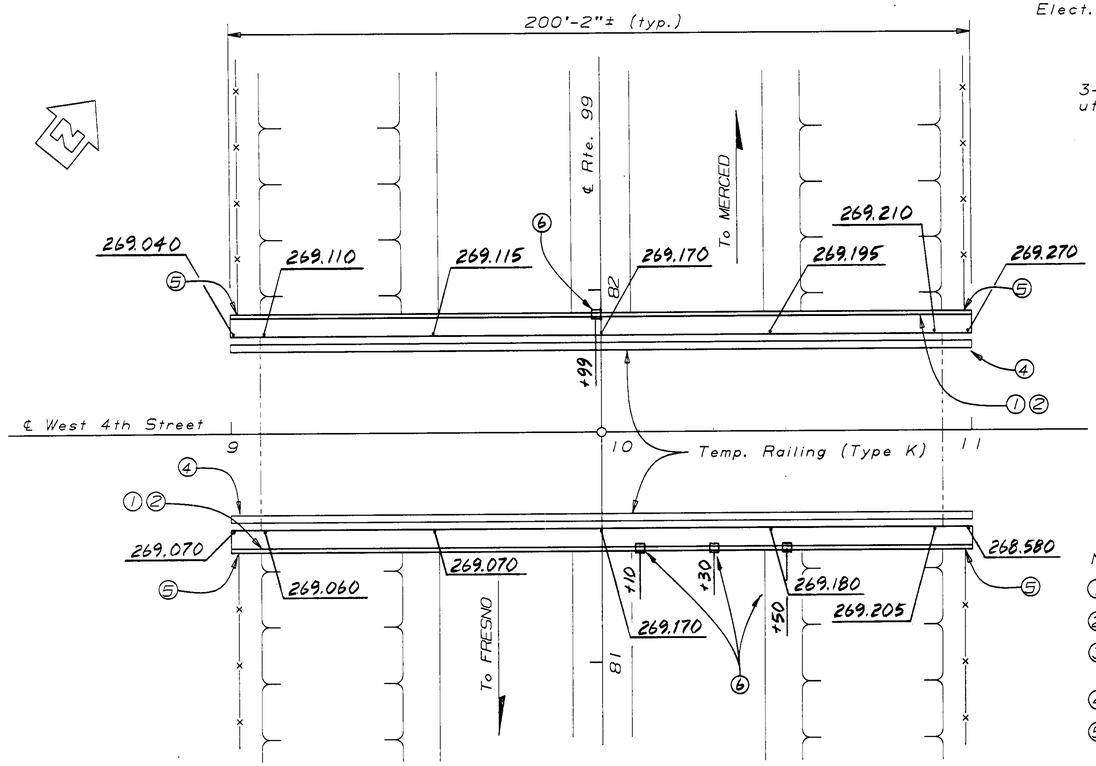
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — G. JOE — No. 036852 — Exp. 6-30-92 — CIVIL — STATE OF CALIFORNIA

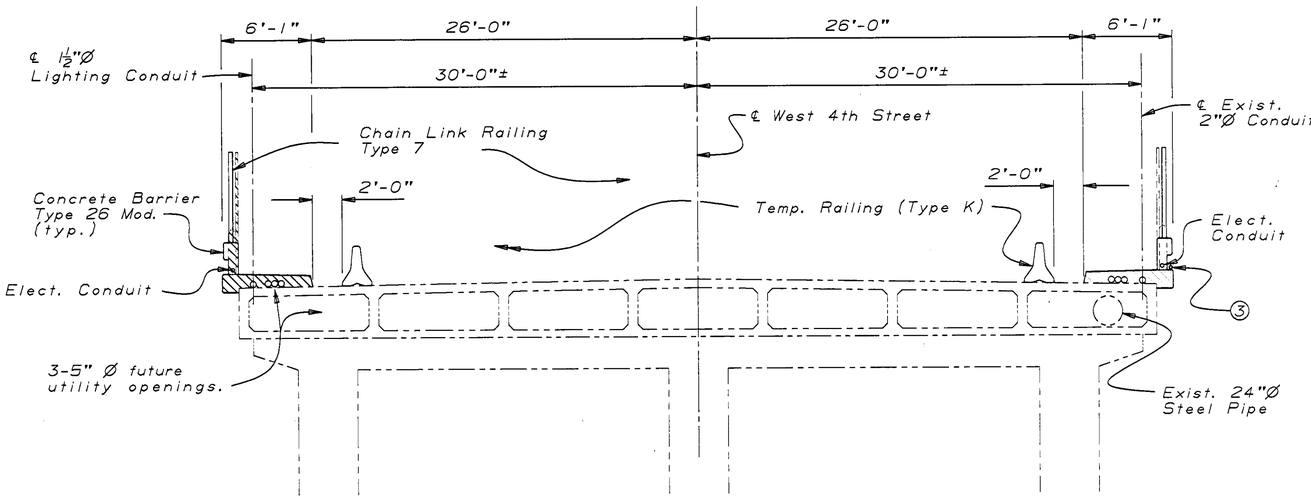
2-4-91
PLANS APPROVAL DATE







PLAN
1"=20'



TYPICAL SECTION
1"=5'

AS BUILT DAS. 1-14-93
CORRECTIONS BY J. Abercrombie
CONTRACT NO. 06-282204
DATE 8-3-92

APPROXIMATE QUANTITIES

TEMPORARY RAILING (TYPE K)	400 LF
BRIDGE REMOVAL (PORTION), LOCATION D	LUMP SUM
REFINISH BRIDGE DECK	185 SQFT

FINAL PAY QUANTITIES

CHAIN LINK RAILING (TYPE 7)	401 LF
CONCRETE BARRIER (TYPE 26 MODIFIED)	401 LF

Notes:

① Paint "West 4th Street Overcrossing" and year constructed.

② Paint "Br. No. 41-50".

③ Remove existing electrical conduit prior to construction. Provide temporary electrical conduit during construction.

④ Temporary Crash Cushion Modules, see "Road Plans."

⑤ Remove end post of existing Right of Way Fence prior to construction. Replace and reconnect end post and Fence after Barrier Rail is complete.

▭ Indicates limits of existing Structure removal.

---- Indicates existing structure.

⑥ Road sign mounted on 2x3 steel post of Type 7 fencing
See details above
Sign at 9+97: "TO 99 SOUTH ←"
10+10: "TO 99 NORTH →"
Sign at 10+30 "Trucks over 60.00 Gross No Left Turn"
10+50: "No Right Turn"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

WEST FOURTH STREET OVERCROSSING

DESIGN	BY D. Ross 9-90	CHECKED G. Joe 9-90	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 9
DETAILS	BY D.A. SANDERSON 7-90	CHECKED G. Joe 9-90	LAYOUT	BY D. Ross 9-90	CHECKED G. Joe 9-90		
QUANTITIES	BY D. Ross 9-90	CHECKED S. Maan 9-90	SPECIFICATIONS	BY	PLANS AND SPECS COMPARED		

I M Stoelin 12-90
DESIGN ENGINEER

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06200
EA 282201

BRIDGE NO. 41-50
POST MILE 11.0

CONCRETE BARRIER REPLACEMENT
GENERAL PLAN NO. 4

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 7-12-90 | 9-7-90 | 9-14-90 | 9-27-90 | 10-1-90 | 10-5-90 | 10-15-90 | 11-5-90 | 11-27-90

SHEET 4 OF 24

DS OSD 2138 (CADD 4/89)

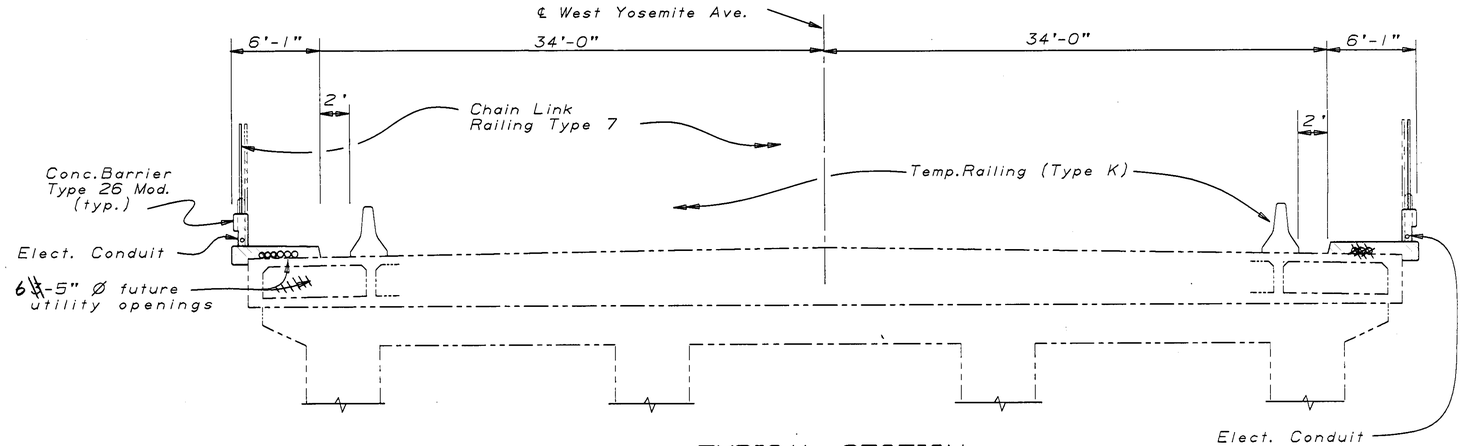
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	18	39

REGISTERED ENGINEER - CIVIL

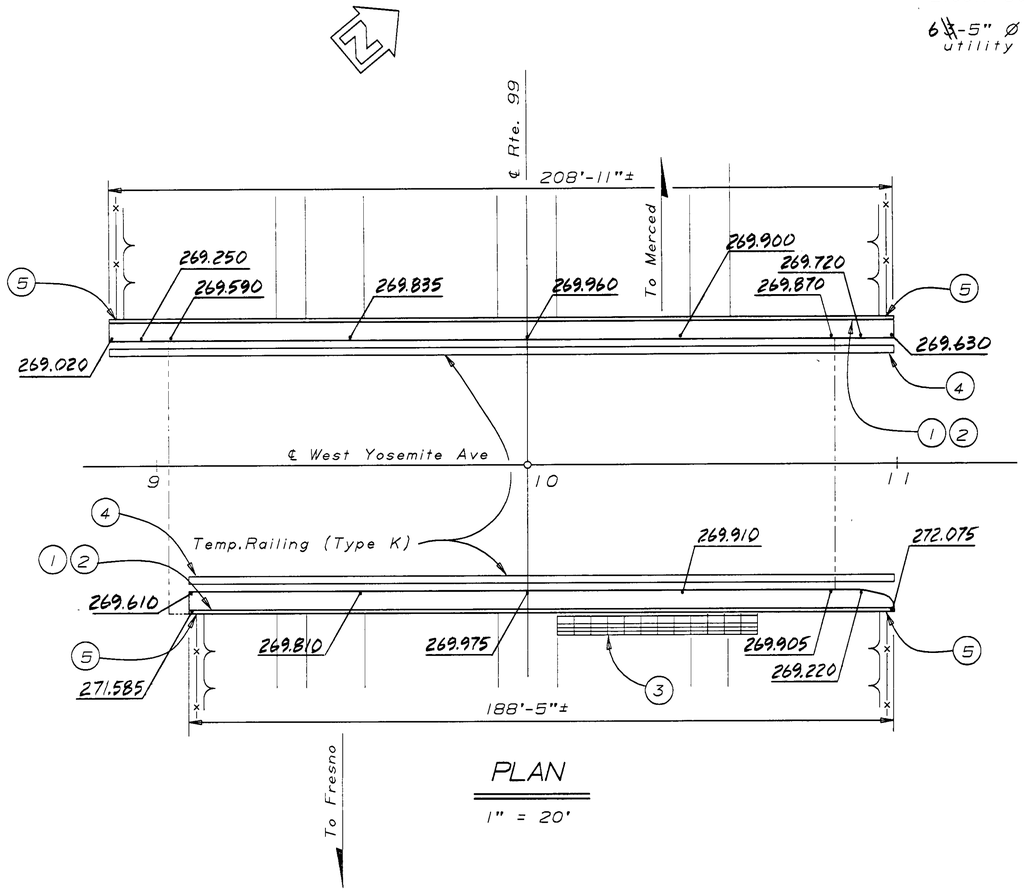
REGISTERED PROFESSIONAL ENGINEER — Gary Joe, No. 36652, Exp. 6-30-92, CIVIL, STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE



TYPICAL SECTION

1" = 5'



PLAN

1" = 20'

AS BUILT
CORRECTED BY J. Abercrombie DAS 12-8-92
CONTRACT NO. 06-282204
DATE 8-3-92

Notes:

1. Paint "West Yosemite Ave. Overcrossing" and year constructed.
2. Paint "Br. No. 41-49".
3. Remove sign structure prior to construction and reinstall after barrier rails are completed.
4. Temporary Crash Cushion Modules, see "Road Plans."
5. Remove end post of existing Right of Way Fence prior to construction. Replace and reconnect end post and Fence after Barrier Rail is complete.

▨ Indicates limits of existing Structure removal.

– – – – Indicates existing structure.

APPROXIMATE QUANTITIES

TEMPORARY RAILING (TYPE K)	420 LF
MODIFY SIGN STRUCTURE	1 EA
BRIDGE REMOVAL (PORTION), LOCATION C	LUMP SUM
REFINISH BRIDGE DECK	181 SQFT

FINAL PAY QUANTITIES

CHAIN LINK RAILING (TYPE 7)	398 LF
CONCRETE BARRIER (TYPE 26 MODIFIED)	398 LF

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

WEST YOSEMITE AVENUE OVERCROSSING

I m Stahl 12-90
DESIGN ENGINEER

DESIGN	BY D. Ross 9-90	CHECKED G. Joe 9-90	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD			
DETAILS	BY Flo Callen 5-90	CHECKED G. Joe 9-90	LAYOUT	BY D. Ross 9-90	CHECKED G. Joe 9-90		
QUANTITIES	BY D. Ross 9-90	CHECKED S. Maan 9-90	SPECIFICATIONS	BY R. J. Parkinson	PLANS AND SPECS COMPARED R. J. Parkinson		

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 9

CU 06200
EA 282201

BRIDGE NO. 41-49
POST MILE 10.8

CONCRETE BARRIER REPLACEMENT
GENERAL PLAN NO. 3

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)										SHEET	OF
5-21-90	6-1-90	6-13-90	8-10-90	9-7-90	9-13-90	9-27-90	10-1-90	10-5-90	11-27-90	3	24

DS OSD 2138 (CADD 4/89)

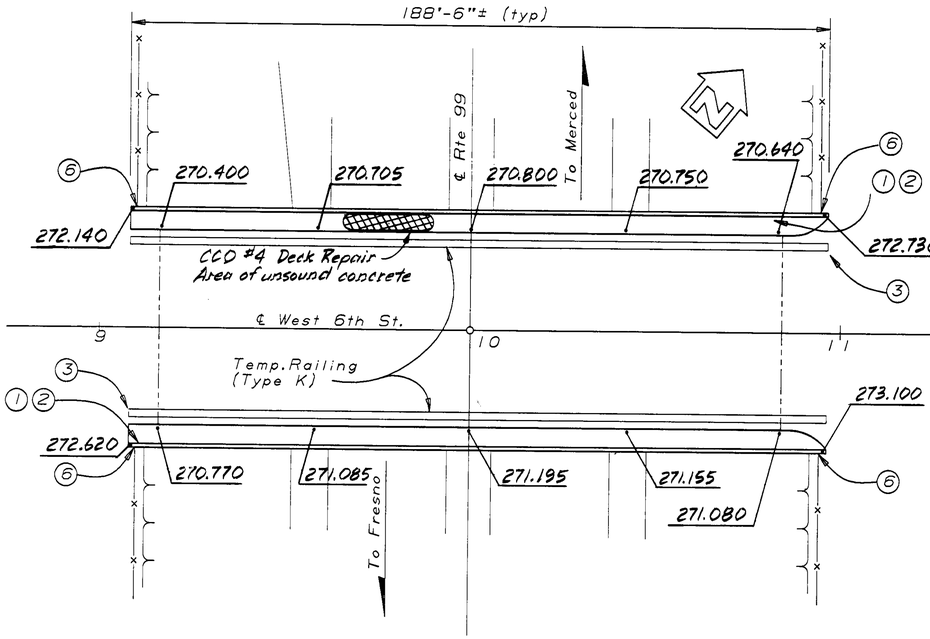
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	20.5/22.4, 9.7/11.0	17	39

REGISTERED ENGINEER - CIVIL

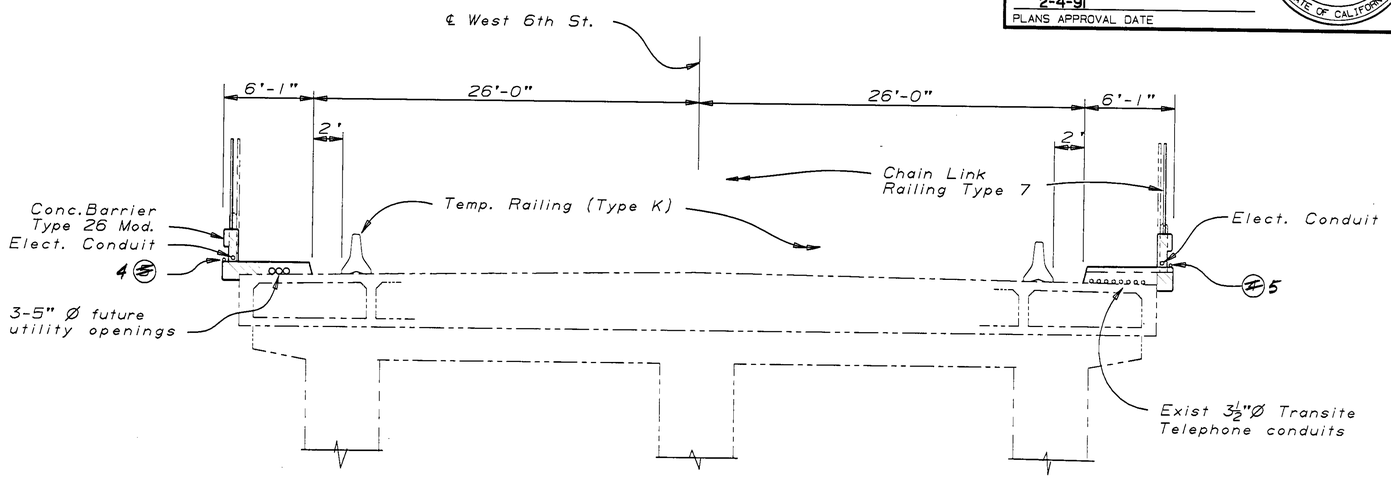
REGISTERED PROFESSIONAL ENGINEER
GARY JOE
No. 36652
Exp. 6-30-90
CIVIL
STATE OF CALIFORNIA

2-4-91
PLANS APPROVAL DATE



PLAN

1" = 20'



TYPICAL SECTION

1"=5'

AS BUILT
DOS 12/8/92
CORRECTIONS BY J. Abercrombie
CONTRACT NO. 06-282204
DATE 8-3-92

APPROXIMATE QUANTITIES

TEMPORARY RAILING (TYPE K)	400 LF
RESET 2 ~~1½"~~ SUPPLY LINE (BRIDGE)	LUMP SUM
BRIDGE REMOVAL (PORTION), LOCATION B	LUMP SUM
REFINISH BRIDGE DECK	169 SQFT

FINAL PAY QUANTITIES

CHAIN LINK RAILING (TYPE 7)	377 LF
CONCRETE BARRIER (TYPE 26 MODIFIED)	377 LF

Notes:

1. Paint "West 6th Street Overcrossing", and year constructed.
2. Paint "Br. No. 41-48".
3. Temporary Crash Cushion Modules, see "Road Plans."
4. Remove existing 2½"Ø water supply line prior to construction and reinstall after barrier rail is complete. Provide temporary water supply line during construction.
5. Remove existing electrical conduit prior to construction. Provide temporary electrical conduit during construction.
6. Remove end post of existing Right of Way Fence prior to construction. Replace and reconnect end post and Fence after Barrier Rail is complete.

Indicates limits of existing Structure removal.

Indicates existing structure.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

WEST SIXTH STREET OVERCROSSING

I M Stoki 12-90
DESIGN ENGINEER

DESIGN	BY D. Ross 9-90	CHECKED G. Joe 9-90	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
DETAILS	BY Flo Callen 5-90	CHECKED G. Joe 9-90	LAYOUT	BY D. Ross 9-90	CHECKED G. Joe 9-90
QUANTITIES	BY D. Ross 9-90	CHECKED S. Maan 9-90	SPECIFICATIONS	BY R. J. Cochrane	PLANS AND SPECS COMPARED R. J. Cochrane

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 9

CU 06200
EA 282201

BRIDGE NO.	41-48
POST MILE	10.3

CONCRETE BARRIER REPLACEMENT
GENERAL PLAN NO. 2

DS OSD 2138 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 5-15-90 | 8-10-90 | 9-7-90 | 9-13-90 | 9-27-90 | 10-1-90 | 10-3-90 | 11-5-90 | 11-26-90

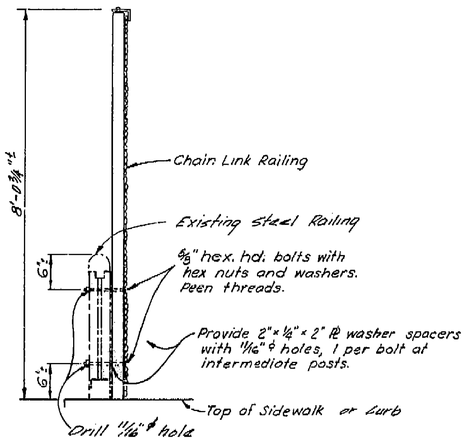
SHEET	OF
2	24

ClibPDF - www.fastio.com

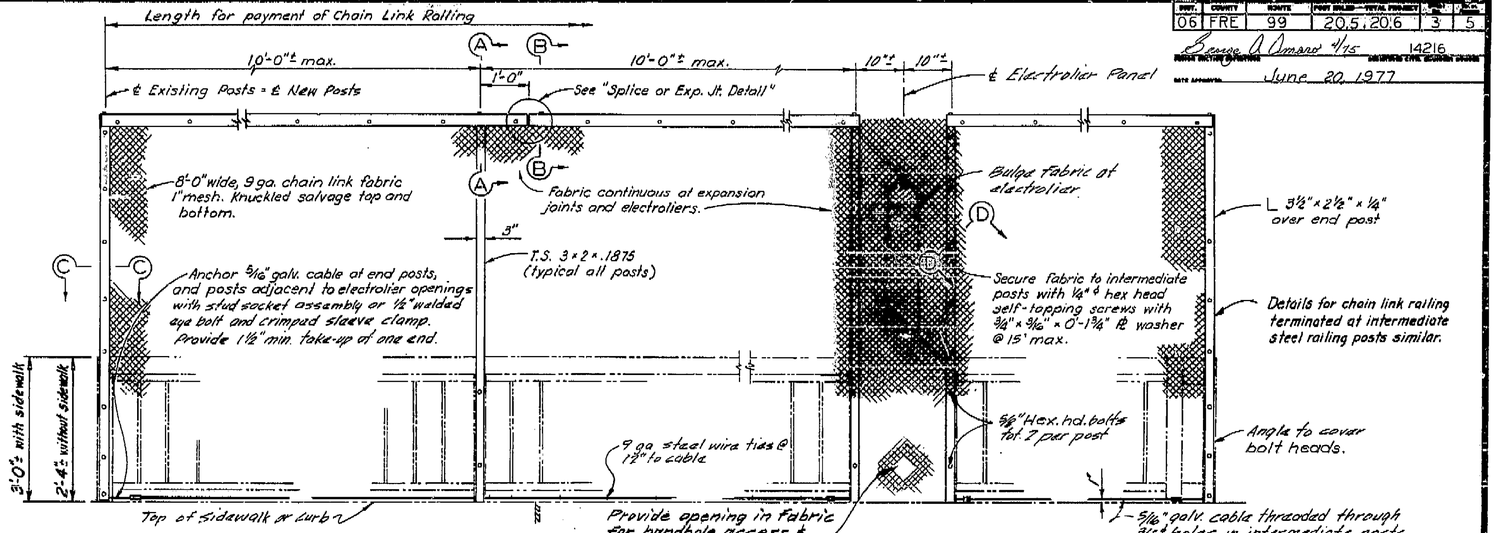
DIST.	COUNTY	ROUTE	POST MILES — TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	FRE	99	20.5, 20.6	3	5

George A. Amaro 4/15 — 14216

DATE APPROVED: June 20, 1977



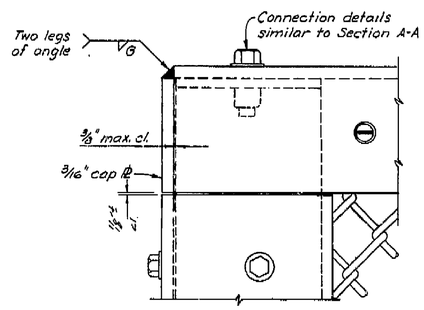
TYPICAL SECTION



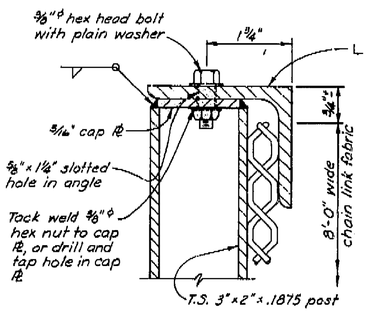
SINGLE END POST — INTERMEDIATE PANEL — ELECTROLIER PANEL — DOUBLE END POST

ELEVATION

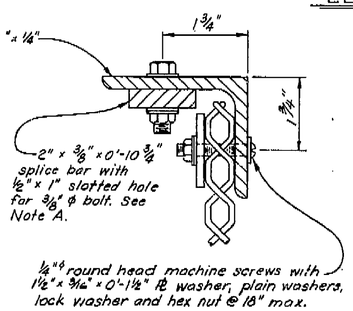
Details for future and existing electrolier similar.



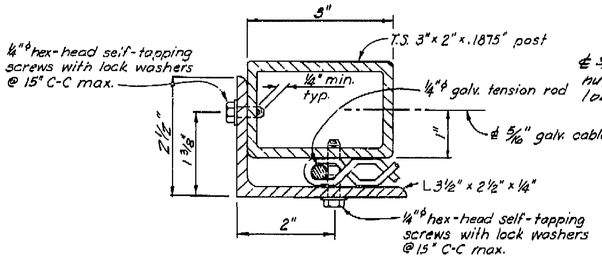
END POST ELEVATION



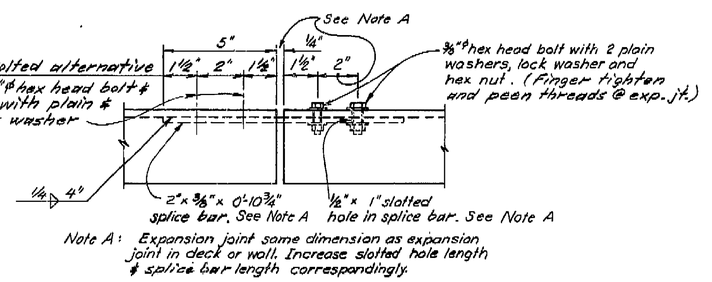
SECTION A-A



SECTION B-B



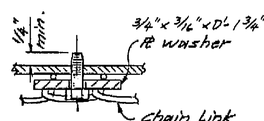
SECTION C-C



Note A: Expansion joint same dimension as expansion joint in deck or wall. Increase slotted hole length & splice bar length correspondingly.

SPLICE OR EXPANSION JOINT DETAIL

AS BUILT
CORRECTIONS BY E. KELLOGG
CONTRACT NO. 06-153504
DATE 1-16-78



SECTION D-D

NOTES:

1. Railing assembly except chain link fabric to be galvanized after fabrication.
2. Posts shall be vertical.
3. Railing shall conform to horizontal and vertical alignment. Horizontal angle shall be bent to conform to horizontal alignment if radius is 150 ft. or less and may be on 10 ft. chords if radius is over 150 ft.
4. Horizontal angle shall be continuous over not less than two intermediate posts, except that a shorter length is permitted at expansion joints, electroliers and other rail discontinuities.
5. When rail is on slope, place fabric parallel to slope.
6. Alternative details may be submitted by Contractor for Engineer's approval.
7. Provide thimbles at all cable loops.
8. The Contractor shall verify all dependent dimensions in the field before ordering or fabricating any material.
9. When railing is placed on a curved horizontal alignment with radius of 150 ft. or less, thread 5/16" cable through ⅜" ϕ welded eye bolts set in epoxy adhesive in ½" × 3" deep drilled holes in concrete curb or sidewalk equally spaced to limit the midordinate distance between the 5/16" cable and the curve to 1" max.
10. Peen all exposed bolts.

RAILING MODIFICATION

① Existing Steel Baluster (7-25-73)

DESIGN	By M. Pohll 7-72	Checked ELee 8-72	
DETAILS	By K. Endow 7-72	Checked ELee 8-72	
QUANTITIES	By S. Moriguchi 1-75	Checked	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3

State of CALIFORNIA DEPARTMENT OF TRANSPORTATION

BRIDGE DEPARTMENT DESIGN SECTION 2

PROJECT ENGINEER

CU WO

BRIDGE No. 42-159

POST MILE 20.4

KERN STREET OVERCROSSING

CHAIN LINK RAILING DETAILS

Disregard prints bearing earlier revision dates →

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 2 OF 2 SHEETS

3

AS BUILT PLANS
Contract No. 06-153504
Date Completed
Document No. 60006964

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE | SIGNATURE | TITLE

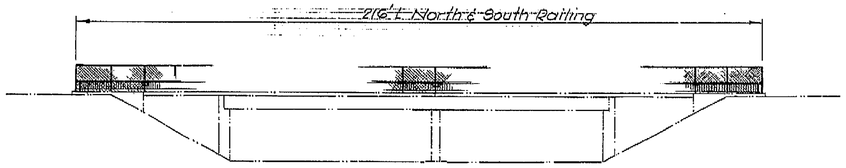
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	FRE	99	20.5, 20.6	2	5

R C Sorensen 6/1/75 9013
CHIEF ENGINEER - PLANNING BRANCH — REGISTERED CIVIL ENGINEER NUMBER

John A Hood 6/2/75 7738
CHIEF OFFICE OF STRUCTURES — REGISTERED CIVIL ENGINEER NUMBER

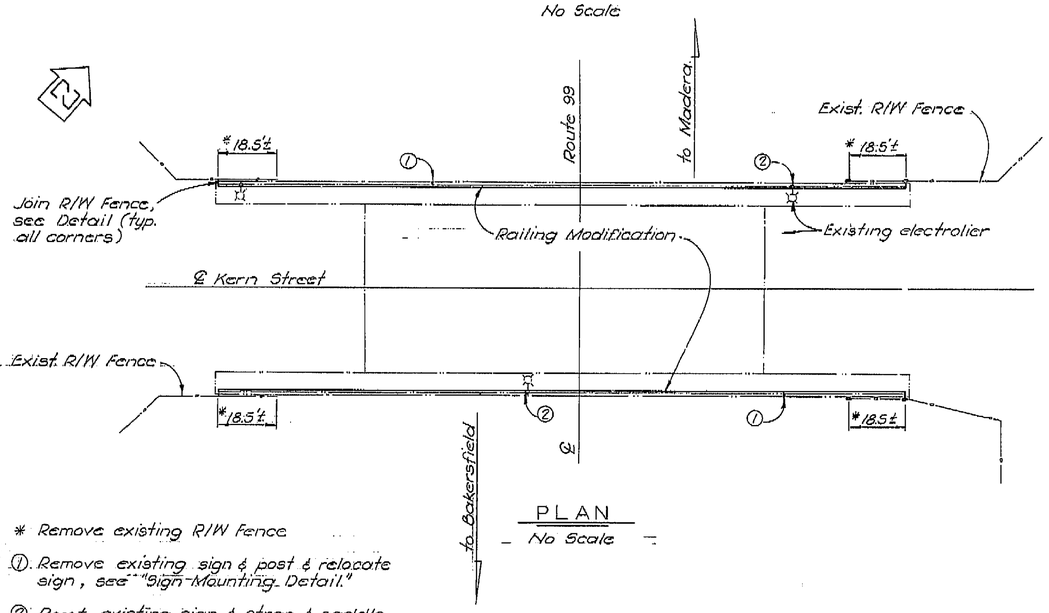
DATE APPROVED June 20, 1977



ELEVATION
No Scale



TYPICAL SECTION
No Scale



PLAN
No Scale

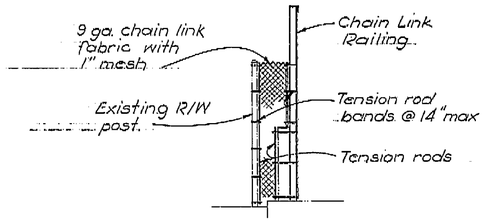
* Remove existing R/W Fence

① Remove existing sign & post & relocate sign, see "Sign Mounting Detail."

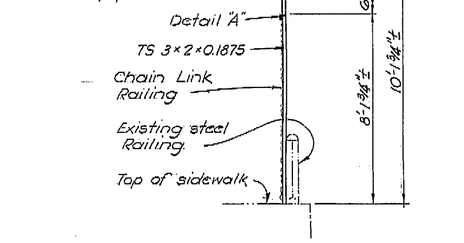
② Reset existing sign & strap & saddle bracket 6" above chain link railing

——— Indicates existing

NOTE:
THE CONTRACTOR SHALL VERIFY ALL DEPENDENT DIMENSIONS IN THE FIELD BEFORE ORDERING OR FABRICATING ANY MATERIAL.



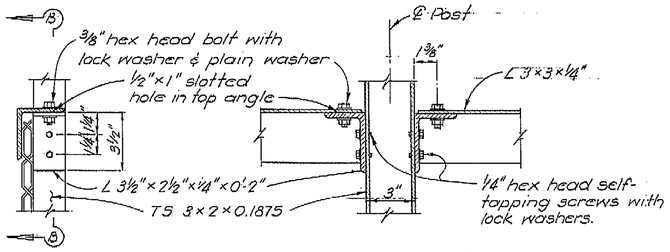
R/W FENCE CONNECTION DETAILS
No Scale



SIGN MOUNTING DETAIL
No Scale

INDEX TO PLANS

Sheet No.	Title
1	General Plan
2	Chain Link Railing Details



DETAIL "A"
No Scale

SECTION B-B
No Scale

AS BUILT PLANS
Contract No. 06-153504
Date Completed
Document No. 6000 6964

NO AS BUILT CHANGES
AS BUILT
CORRECTIONS BY E. Kellogg 1-16-78
CONTRACT NO. 06-153504
DATE 1-16-78

RAILING MODIFICATION

Submitted by George O Amonett 4/7/75 — DESIGN ENGINEER — 14216 REGISTERED CIVIL ENGINEER NUMBER	DESIGN	By S Moriguchi 3-75	Checked M Pomeroy 4/75	LIVE LOADING: HS 20-44 AND ALTERNATIVE	State of CALIFORNIA DEPARTMENT OF TRANSPORTATION	OFFICE OF STRUCTURES DESIGN GROUP 2	BRIDGE NO. 42-159
Approval Recommended By Jack O. Hood — DESIGN SUPERVISOR — 7989 REGISTERED CIVIL ENGINEER NUMBER	DETAILS	By S Moriguchi 3-75	Checked M Pomeroy 4/75	LAYOUT By G. Moriguchi 3-75 Checked M Pomeroy 4/75		PROJECT ENGINEER M Pomeroy	POST MILE 20.4
DH-03 D138	QUANTITIES	By G. Moriguchi 4-75	Checked M Pomeroy 4/75	SPECIFICATIONS By [illegible] Plans and Specs Compared JMH 4/75		CU 06351 WO 153501	KERN STREET OVERCROSSING
				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		Disregard prints bearing earlier revision dates →	GENERAL PLAN
						REVISION DATES (PRELIMINARY STAGE ONLY) 5/19/75	SHEET 1 OF 2

2

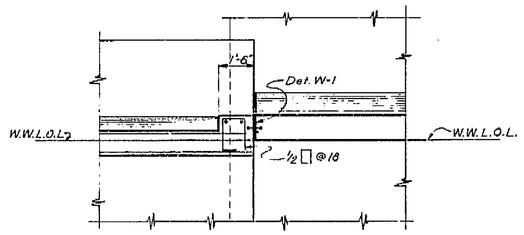
ClibPDF - www.fastio.com
I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			85	147

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	41	FRE	6	14

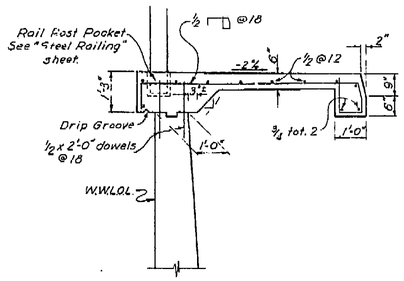
Engineer Employed — Civil Engineer — License No.

DATE APPROVED December 27, 1955



SECTION F-F
Scale: ½"=1'-0"

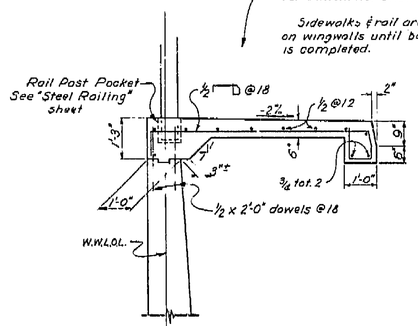
See "Type 1 Cont. Ret. Wall" sheet for reinf.



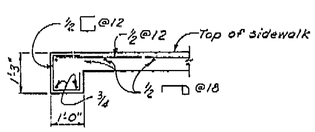
SECTION D-D
Scale: ½"=1'-0"

NOTE:
See "Typical Section and Gird. Reinf." sheet for dimen. not shown

Sidewalks & rail are not to be placed on wingwalls until backfill is completed.



SECTION E-E
Scale: ½"=1'-0"



SECTION G-G
Scale: ½"=1'-0"

GENERAL NOTES

SPECIFICATIONS:

DESIGN: A.A.S.H.O. DATED 1953 WITH SUBSEQUENT REVISIONS, AND BRIDGE DEPARTMENT SUPPLEMENT DATED 1953.

CONSTRUCTION: STANDARD SPECIFICATIONS, DIVISION OF HIGHWAYS, DATED AUGUST 1954 AND THE SPECIAL PROVISIONS.

LIVE LOADING: H20-S16-44

UNIT STRESSES:
REINFORCED CONCRETE: F_S = 20,000 P.S.I., F_C = 1250 P.S.I., N = 10

~~FOOTING PRESSURE:~~
~~VENTURA ST. O.C. — ABTS. 3.0 TONS P.S.F.~~
~~BENT 2.5 TONS P.S.F.~~
~~FRESNO ST., ESE: ABTS & BENT 2.5 TONS P.S.F., 1.5 Tons P.S.F. BETWEEN EL 265 & 270~~
~~KERN ST. O.C. — ABTS = 3.0 TONS P.S.F., BENT 4.0 TONS P.S.F.~~
~~TULARE ST. O.C. — ABTS & BENT 3.5 TONS P.S.F.~~
~~STANISLAUS O.C.E.C. — 3.5 TONS P.S.F.~~
~~TUOLUMNE ST. O.C. — ABTS. 3.5 TONS P.S.F., BENT 4.0 TONS P.S.F.~~

REINFORCEMENT: EMBEDMENT IS CLEAR TO OUTSIDE OF BAR AND IS 2" TO MAIN REINFORCEMENT, EXCEPT AS NOTED. BACKING FOR HOOKS IS FOUR DIAMETERS, EXCEPT AS NOTED.
BAR AREAS ARE BASED ON ROUNDS FOR LESS THAN 1" AND SQUARES FOR OVER 1".
WHERE REINFORCING BARS ARE SPLICED THEY SHALL HAVE A 20 DIAMETER LAP UNLESS OTHERWISE CALLED FOR ON THE PLANS.

FOOTING PRESSURE:

	ELEV.	DESIGN LOAD
ABUT. 3	269 - 285	1.0 TONS P.S.F.
	265 - 269	3.0 " "
ABUT. 1	270 - 285	1.0 " "
	265 - 270	3.0 " "
AT OR BELOW	265	4.0 " "

AS BUILT PLANS
Contract No. 56-607C2
Date Completed
Document No. 600009807

AS BUILT
DATE 5/20/57 BY [illegible]

BRIDGE DEPARTMENT — DESIGN SECTION — 8			
Project Designer W. F. Johnson 3-55			
Chief Designer [illegible]			
DESIGN	By W. F. Johnson 7-55	Checked	
DETAILS	By W. F. Johnson 3-55	Checked	
QUANTITIES	By [illegible]	Checked	
SPECIFICATIONS	By	Plans and Form Completed	
Approved Recommended by [illegible] Engineer of Design		Civil and Structural Plan Check No. 5629	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

KERN STREET OVERCROSSING

WINGWALL DETAILS

SCALE: As Noted | BRIDGE 42-159 | FILE | DRAWING C-4095-6 R

PREL. DRAWING NO. P. 4095 | 7 | 37 | 38

85

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE June 28, 1971 SIGNATURE [illegible] TITLE [illegible]

ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			93	147

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	4	Fre	14	147

C. F. Johnson
ASSISTANT DISTRICT ENGINEER
Date Approved December 27 1955
TRAFFIC ENGINEER
CIVIL ENGINEER LICENSE NO 5429

AS BUILT PLANS
Contract No. 56-67621
Date Completed
Document No. 60092 987

93

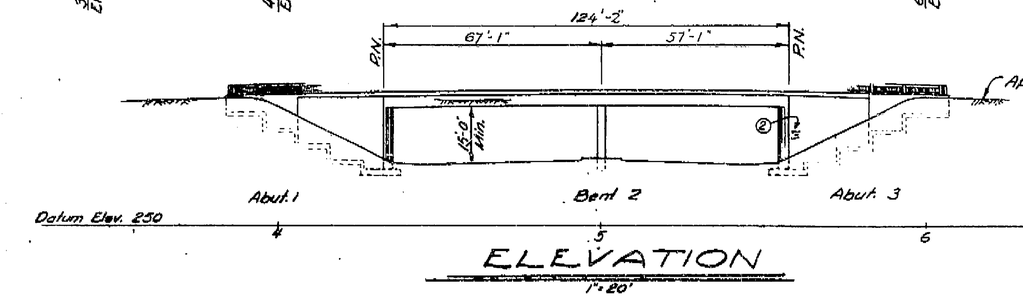
PROFILE GRADE

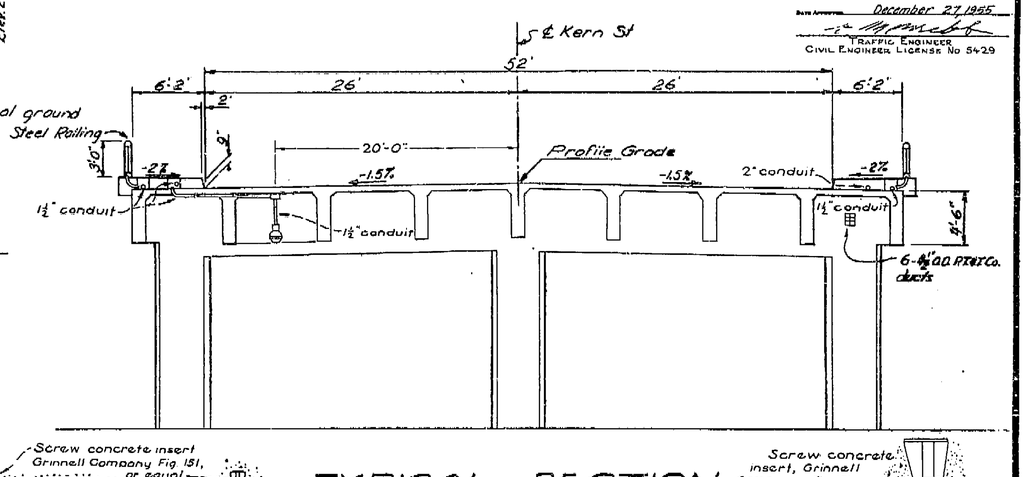
-0.1% — 100' V.C. R. of C. = 2.0% /Sta. — +1.9% — 200' V.C. R. of C. = 1.95 %/Sta. — -2.0% — 100' V.C. R. of C. = 2.0% /Sta. — +0.2 %

3+00 Elev 288.6 | 4+00 Elev. 296.5 | 6+00 Elev 294.4 | 7+00 Elev 283.5

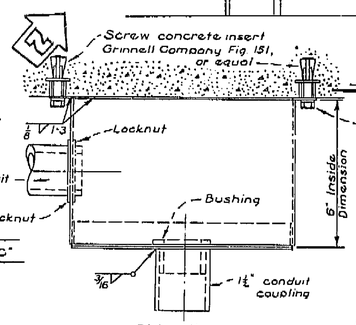
ELEVATION

1"=20'

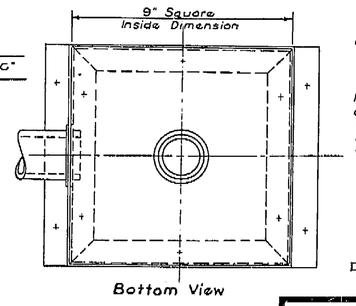




TYPICAL SECTION

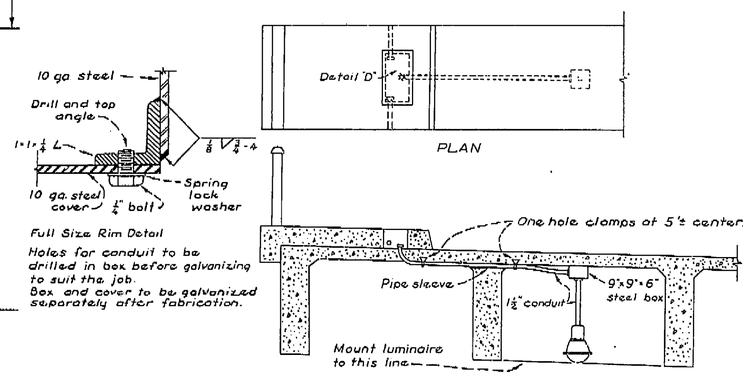


Side View

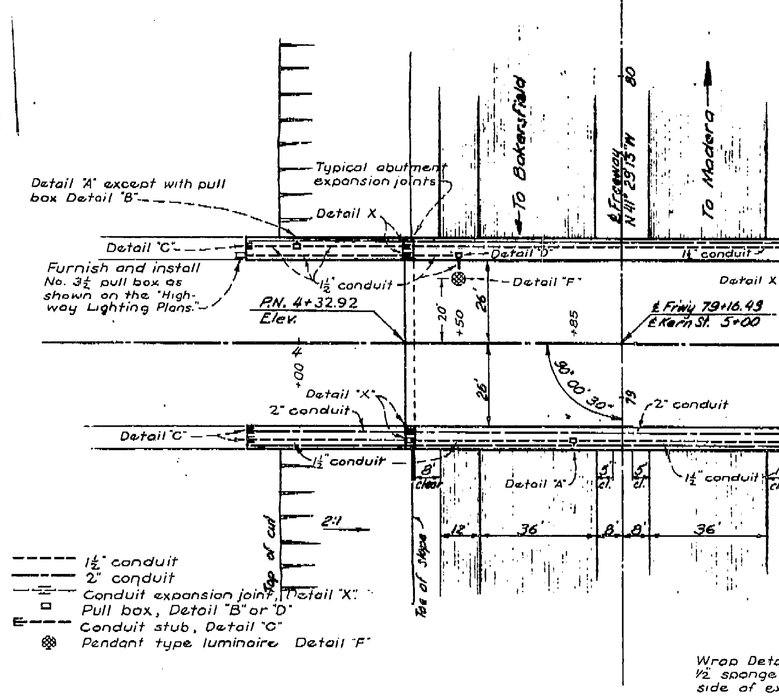


Bottom View

Luminaire Outlet Box
Scale: ⅜" = 1" and as shown
DETAIL "F"



AS BUILT
DATE 1/26/57 BY [illegible]



Wrap Detail "X" at wingwall joint with ½ sponge rubber for 1' ± on each side of expansion joint.

Note: For Details "A", "B", "C", "D" and "X", see Ventura St. O.C. "Standard Electrical Details - Bridge" sheet. This plan accurate for lighting only.

PLAN

1"=20'

Note: For lighting reinf. see Ventura St. O.C. "Lighting Reinf." Sh.

L.L.: H20-S16-44

BRIDGE DEPARTMENT
DESIGN SECTION 8
Project Designer W. F. Johnson 3-55
Chief Designer

DESIGN	By Dist	Checked	Dist.
DETAILS	By [illegible]	Checked	"
QUANTITIES	By "	Checked	"
SPECIFICATIONS	By	Plans and Specs. Examined	

Approval Recommended by [illegible]

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

KERN STREET OVERCROSSING

LOCATED AT THE EXISTING INTERSECTION OF "D" AND KERN STREETS IN THE CITY AND COUNTY OF FRESNO

LIGHTING PLAN

SCALE As Noted | BRIDGE 42-159 | FILE | DRAWING

PREL. DRAWING No. P- 4095 | X

34

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DATE [illegible] SIGNATURE [illegible] TITLE [illegible]

ClibPDF - www.fastio.com

FED. ROAD DIST. NO.	STATE	ROUTE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	CAL			91	147

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	-41-	FRE	12-14	

5585

APPROVED December 27, 1955

Submitted by _____

	BY	DATE
DESIGN	W. Standard	6-53
DETAILS	WEP	6-53
QUANTITIES		
SPECIFICATIONS		

APPROVAL RECOMMENDED BY _____ ENGINEER OF DESIGN

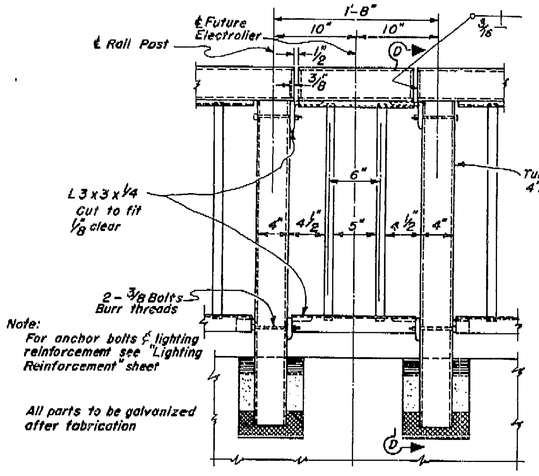
CIVIL AND STRUCTURAL — CIVIL LICENSE NO. 5715

	BY	DATE
CHECKED	W.E.K. Anderson	6-53
CHECKED	R.E. Corbett	6-53
CHECKED	W.L. Cooper	6-53

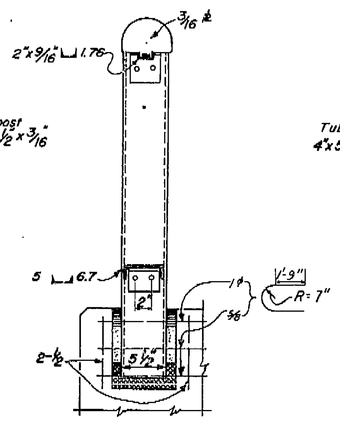
Revised Post Hole Reinforcement By B.J.C. 8-6-54
Added Restricted Section (XX) By J.C. Christy 2-14-55
By B.J.C. 7-13-54

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

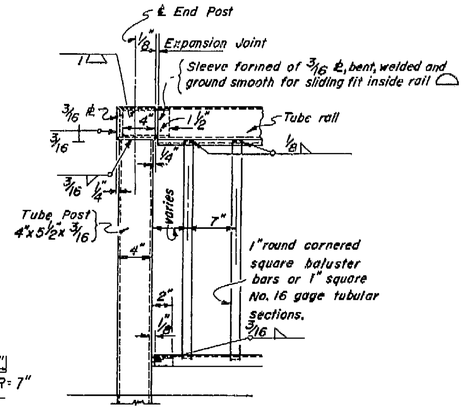
BRIDGE DEPARTMENT



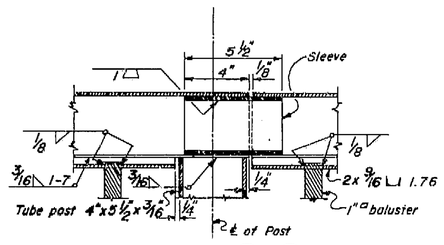
RAILING CLOSURE-DETAIL E-3 Scale: 1 1/2"=1'-0"



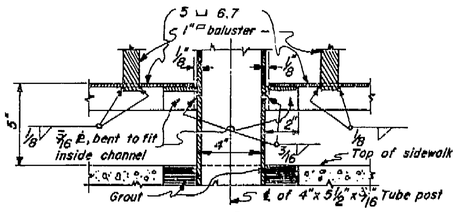
SECTION D-D



SINGLE END POST
Scale: 1 1/2" = 1'-0"



SECTION (H)-(H)
Scale: 3" = 1'-0"



SECTION (G)-(G)
Scale: 3" = 1'-0"

NOTES:

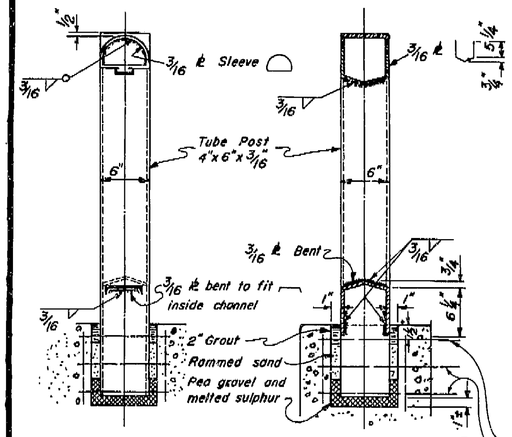
Space posts to clear expansion joints by 9" min. to ℄ of post.

Exact post hole locations are to be determined from approved railing shop plans.

Railing shall conform to horizontal and vertical alignment. Posts and balusters shall be vertical with a maximum deviation not to exceed that represented by a rise of 1/4" in one panel.

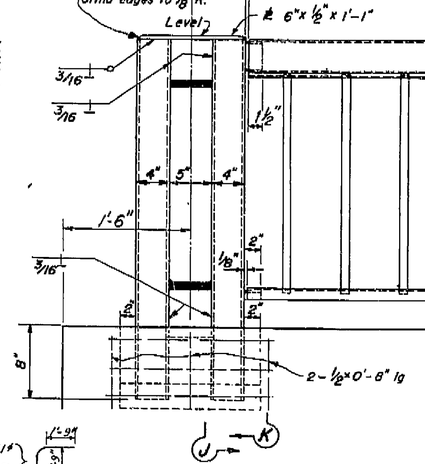
Railing to be galvanized after fabrication. For further requirements see special provisions.

AS BUILT PLANS
Contract No. 56-6TC2
Date Completed _____
Document No. 60000287

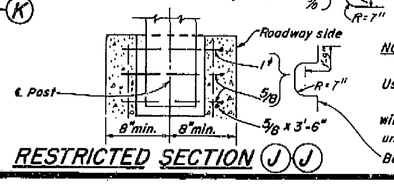


SECTION (J)-(J)

SECTION (K)-(K)



DOUBLE END POST



RESTRICTED SECTION (J)(J)

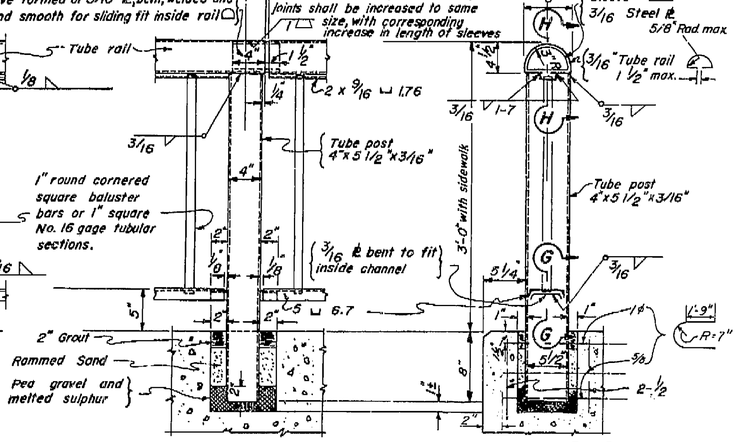
NOTES FOR RESTRICTED POST ANCHORAGE

Restricted Section (J)(J) shows typical details. Use similar details for Section (F)(F) when needed.

Provide for restricted anchorages in top of wingwalls, retaining walls and in hollow sidewalks unless shown otherwise.

Bend down to clear as needed.

AS BUILT
DATE 1-6-71 BY W. E. Cates



INTERMEDIATE POST

SECTION (F)-(F)

STEEL RAILING DETAILS
Scale: 1 1/2" = 1'-0"

Average weight 35 lbs. per lineal foot. (maximum)

DESIGN SECTION 3
W. F. Johnson 12-55
PROJECT DESIGNER

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

KERN STREET OVERCROSSING

STEEL RAILING

SCALE	BRIDGE	FILE	DRAWING
As Shown	42-159	XS-9-49	B-4095-12

FINEL DRAWING NO. B-4095 12 33 4 1 L 55

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE June 28, 1971 SIGNATURE _____ TITLE _____

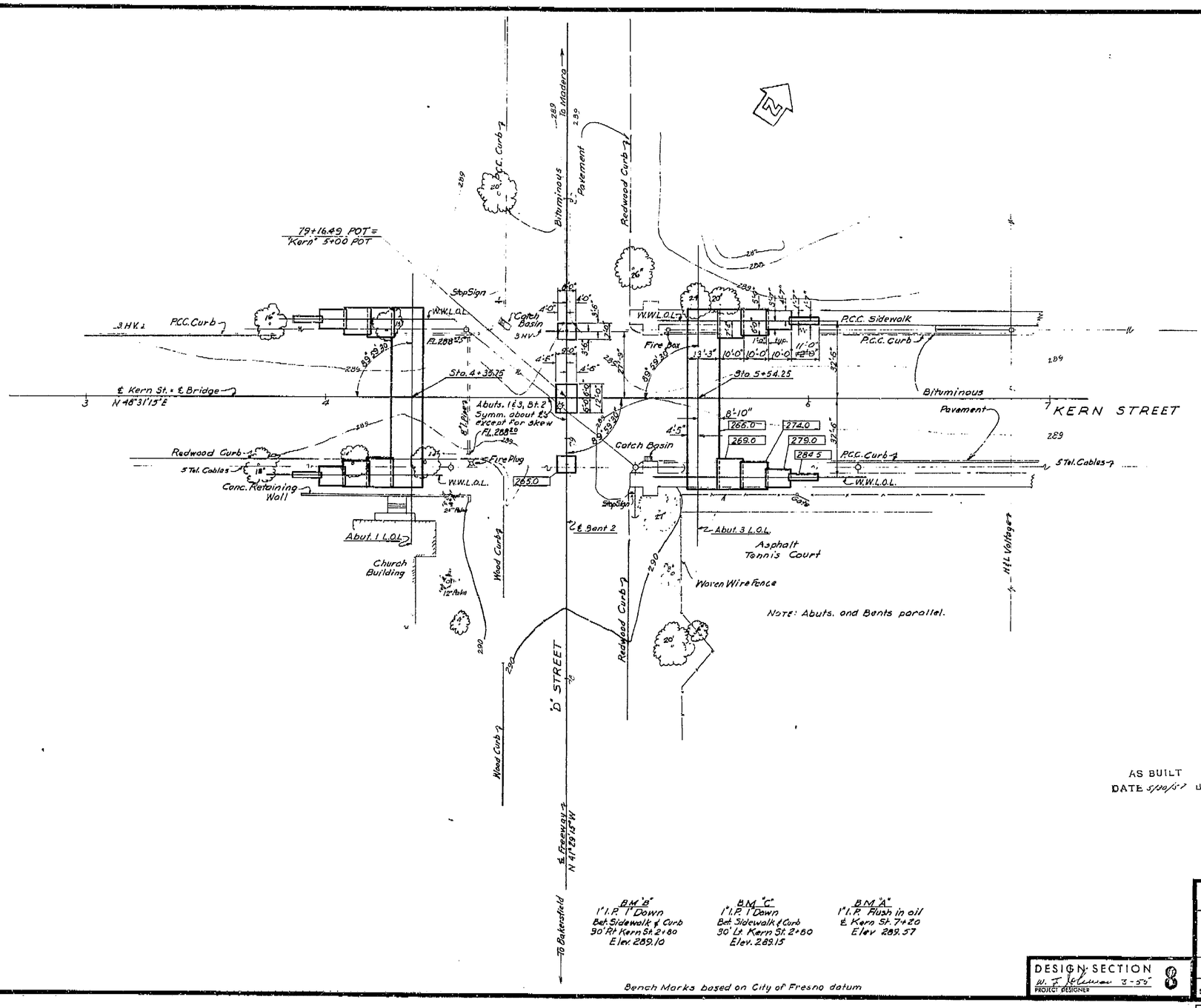
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FED. ROAD DIV. No.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.			81	147

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
V.	Fre	4	Fre	2	14

DATE APPROVED December 27, 1955

BRIDGE DEPARTMENT



AS BUILT PLANS
Contract No. 56-67C2
Date Completed
Document No. 60000987

AS BUILT
DATE 5/20/57 BY S.P.C.E. Inc.

000.00 Indicates bottom of ftg. elev's.
Contours as of Nov. 1954

	DESIGN	DETAILS	QUANTITIES	SPECIFICATIONS
Initial				
Checked				
Approved & Recommended				

Surveyed by: R.L. 11/54
Drawn by: P.S.W. 12-54
Traced by: J.G.B. 1/13-55

DESIGN SECTION
W. F. Peterson 3-55
PROJECT DESIGNER

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

KERN STREET OVERCROSSING

FOUNDATION PLAN

SCALE 1"=20' | BRIDGE 42-153 | FILE | DRAWING C-4095-2.2

PREL. DRAWING No. P-4095 3 16 57

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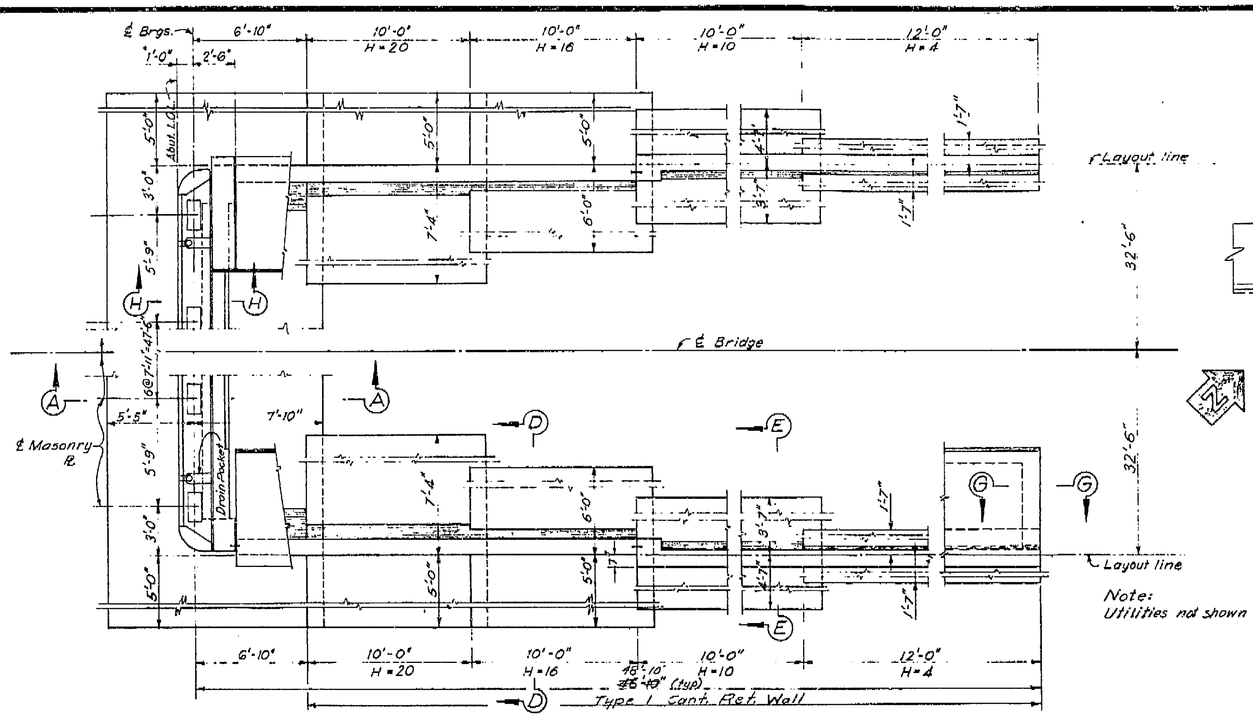
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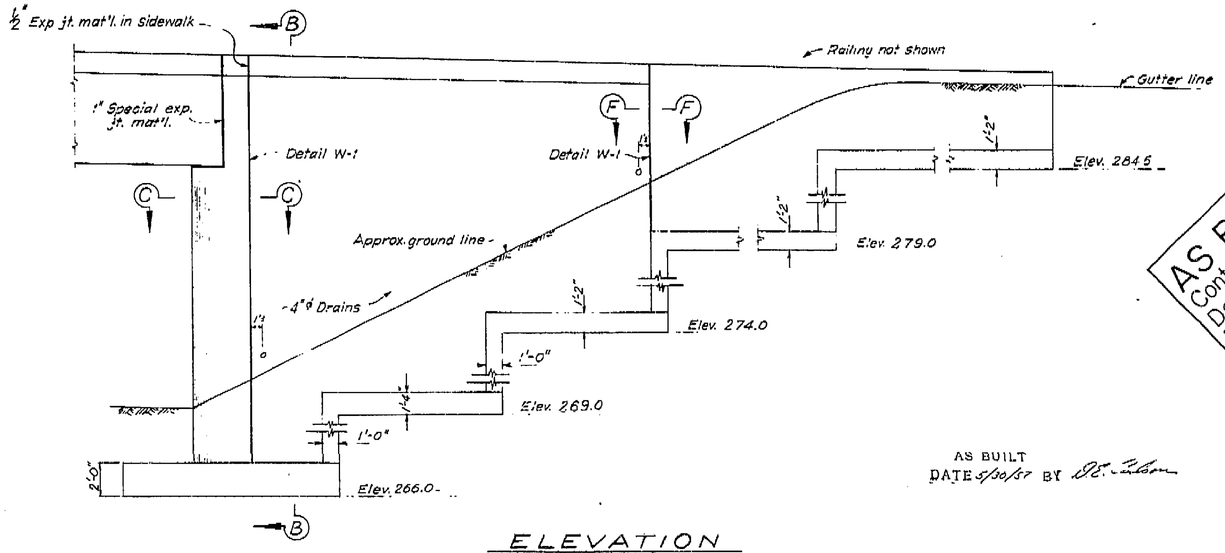
ClibPDF - www.fastio.com

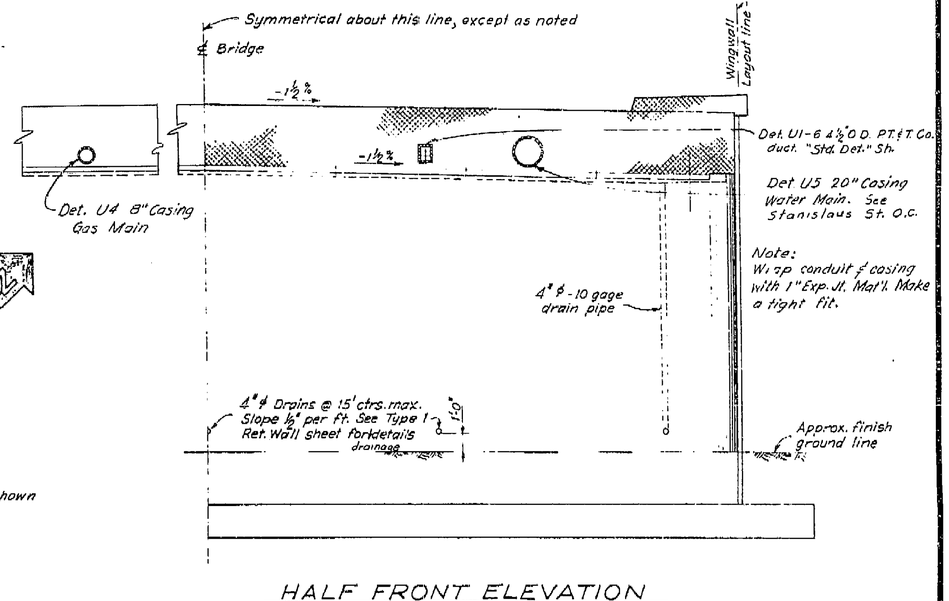
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7	CALIF.			82	147

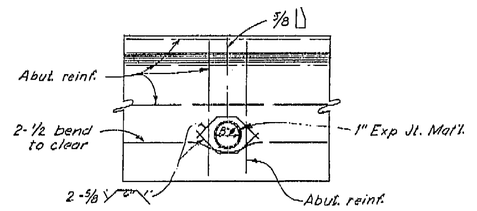
DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	FRE	4	FRE	9	14

DATE APPROVED: December 27, 1955









ABUTMENT BACKWALL DETAIL U4
Scale: ½"= 1'-0"

AS BUILT PLANS
Contract No. 56-61742
Date Completed
Document No. 60000987

NOTES:
For Sections A-A, B-B, C-C, H-H refer to "Abutment Details" sheet.
For Sections D-D, E-E, F-F, G-G see "Wingwall Details" sheet.
See Special Provisions for 1" Special exp. jt. mat'l.
For Bearing Details see "Misc. Details" sheet.

AS BUILT
DATE 5/30/57 BY [illegible]

BRIDGE DEPARTMENT
DESIGN SECTION 8
Project Designer W. T. Johnson 3-55
Chief Designer Carl V. Degenkolb

DESIGN	By W. T. Johnson 3-55	Checked J. M. Mozingo 4/55
DETAILS	By A. M. MYERS 3-55	Checked A. M. Myers 4/55
QUANTITIES	By B. K. Bassett 4-55	Checked Carl V. Degenkolb 4/55
SPECIFICATIONS		Plate and Blank Estimated

Approval Recommended by [illegible] Engineer of Design
Unit and Structural Page Estimate No. JV 39

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

KERN STREET OVERCROSSING

ABUTMENT LAYOUT

SCALE ½"=1'-0" | BRIDGE 42-159 | FILE | DRAWING C-4095-3

PREL. DRAWING No. P-4095 A 11 21 37

KERN, 5-4, TUO. TUL

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

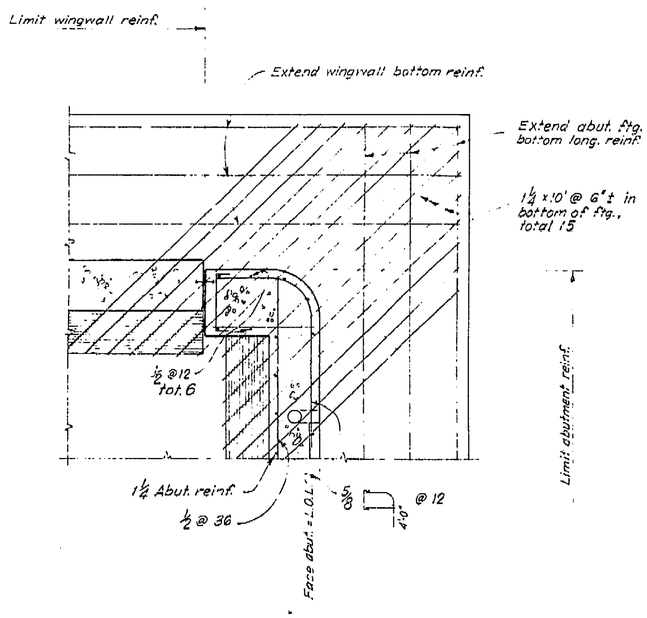
DATE June 28, 1971 SIGNATURE [illegible] TITLE [illegible]

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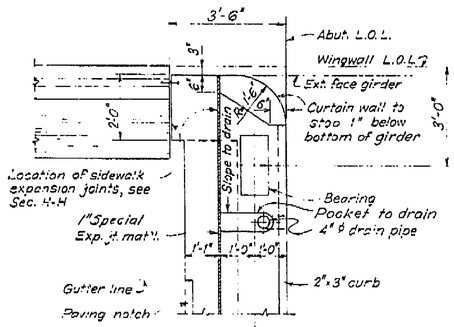
FED ROAD DIV NO	STATE	PROJ NO	FISCAL YEAR	AMEND NO	TOTAL SHEETS
7	CALIF.		183	147	

DIST	COUNTY	ROUTE	SUFFIX	WORK NO	TOTAL SHEETS
VI	FRE	4	FRE	4	14

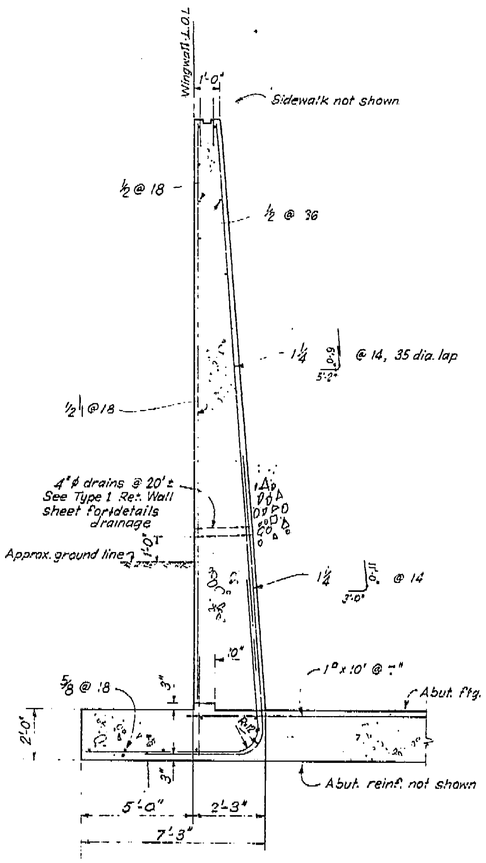
DATE APPROVED December 27, 1955



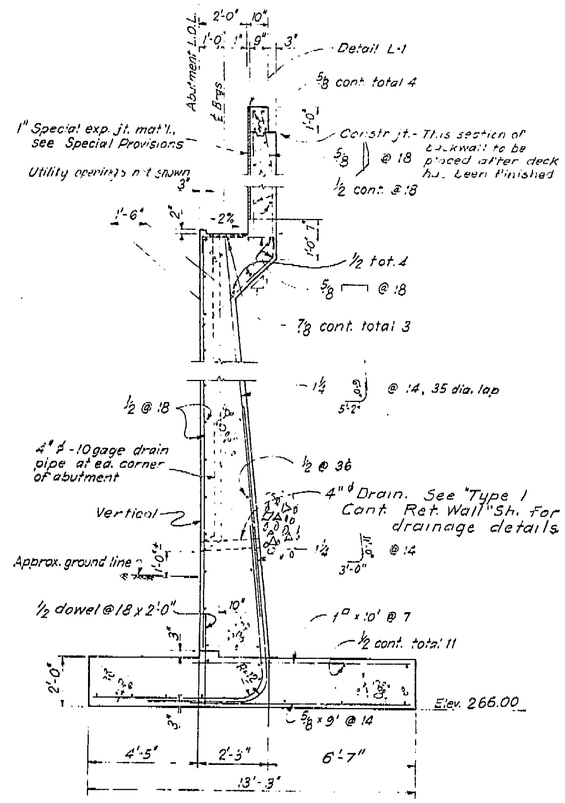
SECTION C-C
PART SEC. THROUGH ABUT. WALL
Scale: ½" = 1'-0"



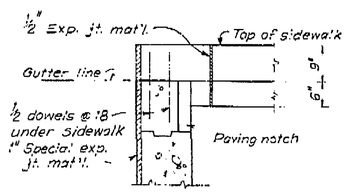
PART PLAN-ABUTMENT
DETAIL TOP OF ABUT. CORNER
Scale: ½" = 1'-0"



SECTION B-B
Scale: ⅜" = 1'-0"



SECTION A-A
Scale: ⅜" = 1'-0"



SECTION H-H
Scale: 3" = 1'-0"

AS BUILT
DATE 5/30/57 BY [signature]

AS BUILT PLANS
Contract No. 56-6TC2
Date Completed
Document No. 60000917

BRIDGE DEPARTMENT			
DESIGN SECTION 8			
Project Designer: W. F. Johnson 3-55			
Chief Designer: Elmer A. Degenkolb			
DESIGN	By W. F. Johnson 3-55	Checked H.M. Reynolds 4-55	
DETAILS	By A.H. Myrden 3-55	Checked H.M. Reynolds 4-55	
QUANTITIES	By [illegible] 1-55	Checked H.M. Reynolds 2-55	
SPECIFICATIONS	By	Plans and Items Checked	
Approval Recommended by [signature] Engineer of Design		Field and Structural Plans Approved No. 5439	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

KERN STREET OVERCROSSING

ABUTMENT DETAILS

SCALE As noted | BRIDGE 42-159 | FILE | DRAWING C-4095-3

PREL. DRAWING NO. P-4095 | 5 | 13 | 29

33

KERN, STAN, TUO, TUL

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

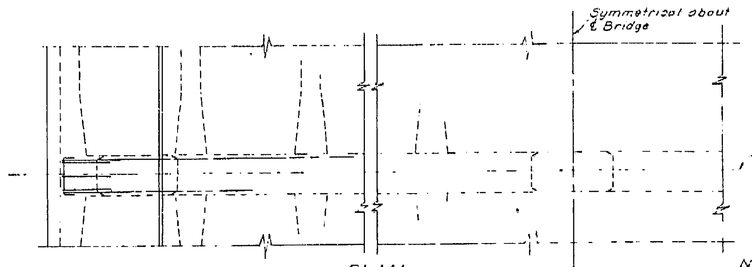
DATE [illegible] SIGNATURE [illegible] TITLE [illegible]

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7	CALIF.			86	147

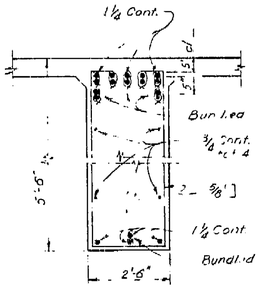
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	4	FRE	7	14

DATE APPROVED December 27, 1955

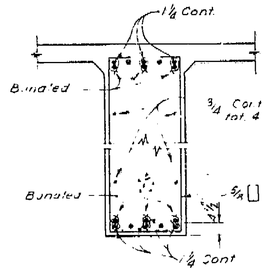


PLAN

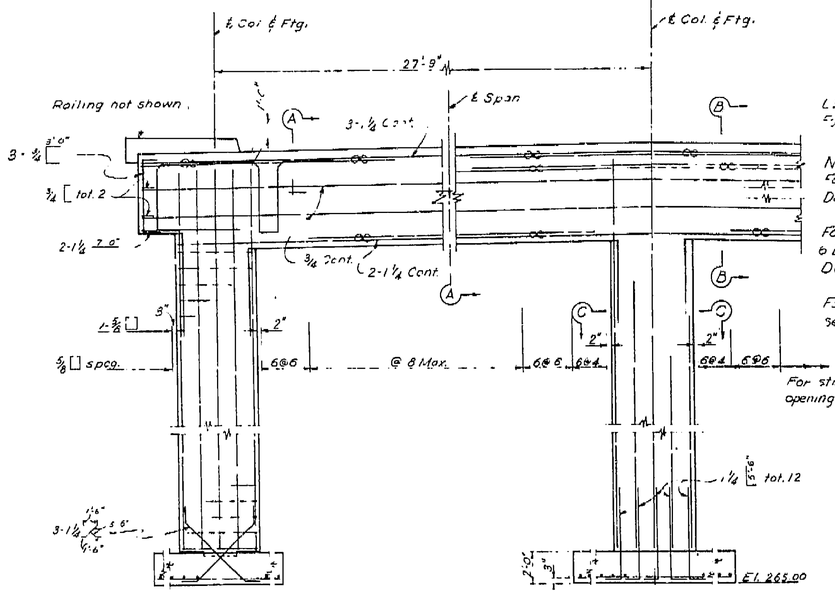
Note:
All bars 1¼ unless otherwise called for. Numbers at ends of bars indicate length from ℄ span or ℄ column.
⊏⊐ Indicates bundled bars.



SECTION B-B
Scale ½"=1'-0"



SECTION A-A
Scale ½"=1'-0"



ELEVATION

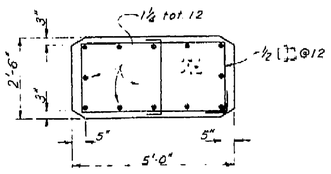
Utility opening not shown.
For location see "Plan" Sheet.

Note:
For 1-3"ø Water Main utility opening see Det. U3 Fresno St. Separation

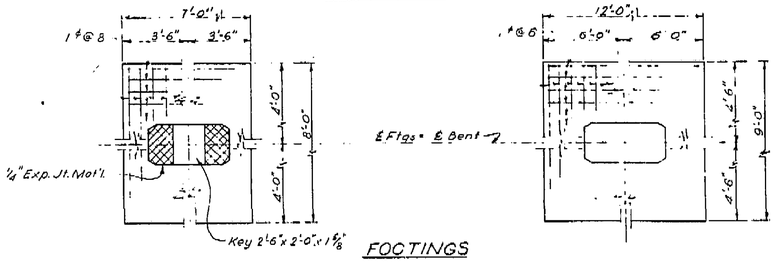
For 1-5"x1-2" utility opening for 6 Duct P.T.T. Co. conduit see Det. U3 "Sta. Det." Sheet.

For 3"ø Gas Main utility opening see Det. U9

For stirrups at utility opening, see table Sht. 6.



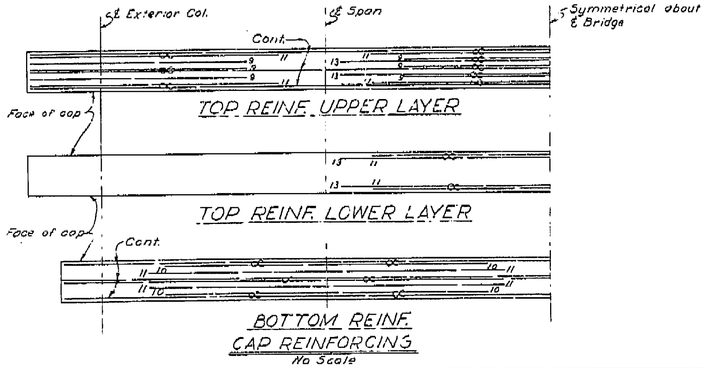
SECTION C-C
Scale ½"=1'-0"



FOOTINGS

AS BUILT PLANS
Contract No. 56-6TC2
Date Completed
Document No. 60000987

AS BUILT
DATE 5/20/57 BY [illegible]



CAP REINFORCING
No Scale

BRIDGE DEPARTMENT
DESIGN SECTION 8
Project Designer [illegible] 3-55
Chief Designer [illegible]

DESIGN	By [illegible]	Checked [illegible]
DETAILS	By [illegible]	Checked [illegible]
QUANTITIES	By [illegible]	Checked [illegible]
SPECIFICATIONS	By [illegible]	Checked [illegible]

Approved & Recommended for [illegible]
Bridge Engineer
Civil Engineer No. 5435

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

KERN STREET OVERCROSSING

BENT 2

As Noted and SCALE 1/4" = 1'-0" | BRIDGE 42-159 | FILE | DRAWING C-4095-7

PREL. DRAWING No. P-4095

86

34

Std. sheet - Stan., Tuo., Tul., Kern (VI Fre 4 Fre)

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DATE June 29, 11 SIGNATURE [illegible] TITLE [illegible]

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FED. ROAD DIV NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			80	147

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	4	Fre	1	14

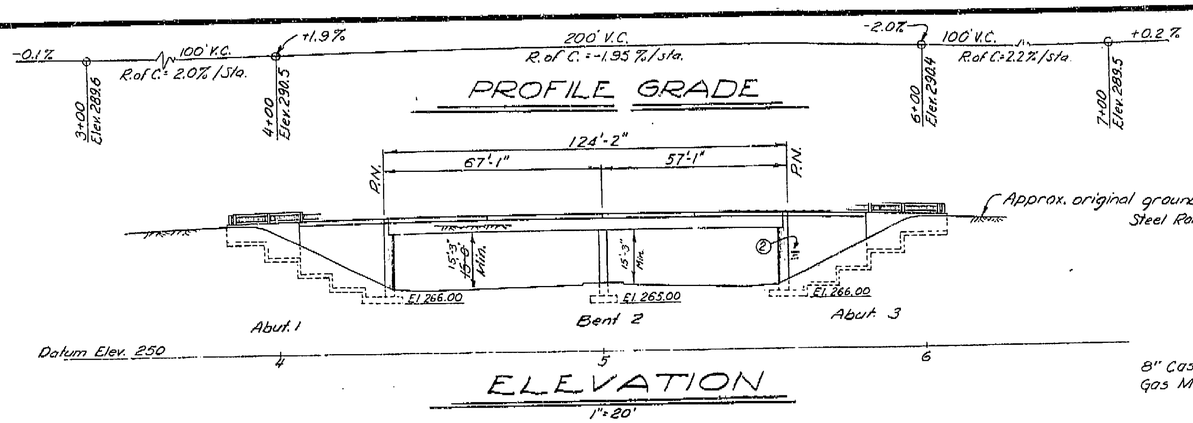
P.M. 20.5

99

ASSISTANT STATE HIGHWAY ENGINEER — CIVIL ENGINEER LICENSE 5016

DATE APPROVED December 27, 1955

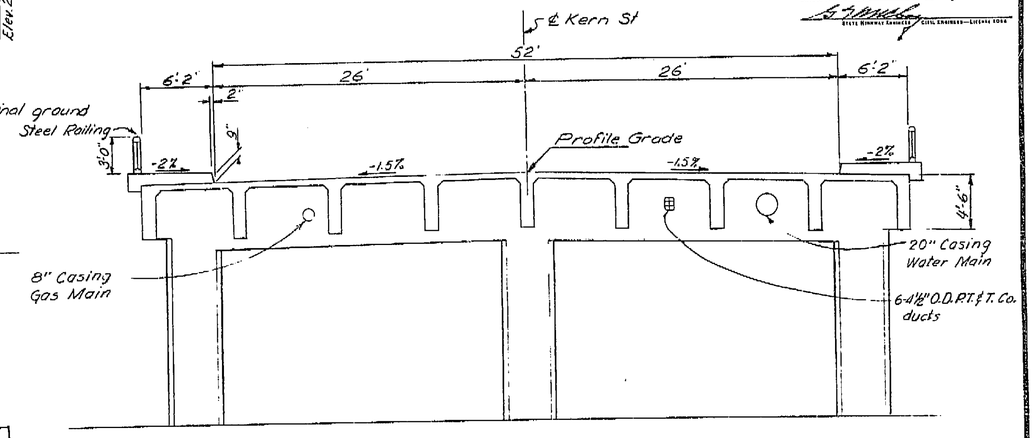
STATE HIGHWAY ENGINEER — CIVIL ENGINEER—LICENSE 5016



PROFILE GRADE

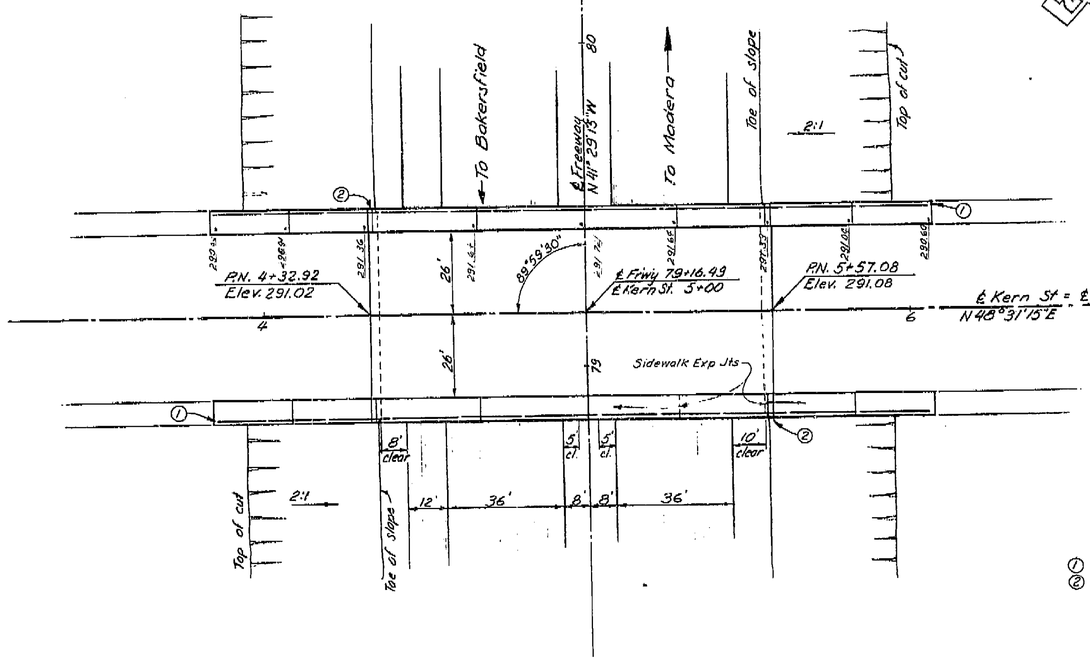
ELEVATION

1"=20'



TYPICAL SECTION

3/16" = 1'-0"



PLAN

1"=20'

APPROXIMATE QUANTITIES

STRUCTURE EXCAVATION	970 C.Y.
STRUCTURE BACKFILL	1,560 C.Y.
CLASS A CONCRETE (BRIDGE)(1150 C.Y.)	LUMP SUM
RUBBER WATERSTOPS	130 L.F.
BAR REINFORCING STEEL (BRIDGE)(210,000 LBS.)	LUMP SUM
STEEL RAILING	435 L.F.
MISCELLANEOUS STEEL	7,200 LBS.

INDEX TO PLANS

Sheet No.	Title
1.	General Plan
2.	Foundation Plan
3.	Abutment Layout
4.	Abutment Details
5.	Type I Cantilever Retaining Wall
6.	Wingwall Details
7.	Bent 2
8.	Girder Layout
9.	Typical Section & Girder Reinforcement
10.	Miscellaneous Details
11.	Standard Details
12.	Steel Railing
13.	Log of Test Borings
14.	Lighting Plan

AS BUILT PLANS
Contract No. 56-6TC2
Date Completed
Document No. 60000987

AS BUILT
DATE 6-14-57 BY [illegible]

① Paint Br. No. & Date
② Paint "Kern St", Br. No. & Date

L.L.: H20-S16-44

56-6TC2
For General Notes see "Wingwall Details" sheet

BRIDGE DEPARTMENT
DESIGN SECTION 8

Project Designed by	W. J. Johnson	3-55	Checked
Chief Designer	Chas. K. Riggs		
DESIGN	By W. J. Johnson	3-55	Checked H.N. Reynolds 3-55
DETAILS	By C.N. Cantrell	2-55	Checked H.N. Reynolds 3-55
QUANTITIES	By C. F. Fuller, Jr.	4-55	Checked Jack Langmaid 4-25-55
SPECIFICATIONS	By Bill 7-55		Plans and Reports Compared
Approval Recommended by	[illegible] Design Engineer		Civil and Structural Engr. License No. 5637

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

~~56-6TC2~~

KERN STREET OVERCROSSING

LOCATED AT THE EXISTING INTERSECTION OF 'D' AND KERN STREETS IN THE CITY AND COUNTY OF FRESNO

GENERAL PLAN

SCALE	As Noted	BRIDGE	42-159	FILE		DRAWING	C-4095-1

PREL. DRAWING No. P- 4095 1 2 3 4

80

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DATE June 29 1971 SIGNATURE [illegible] TITLE [illegible]

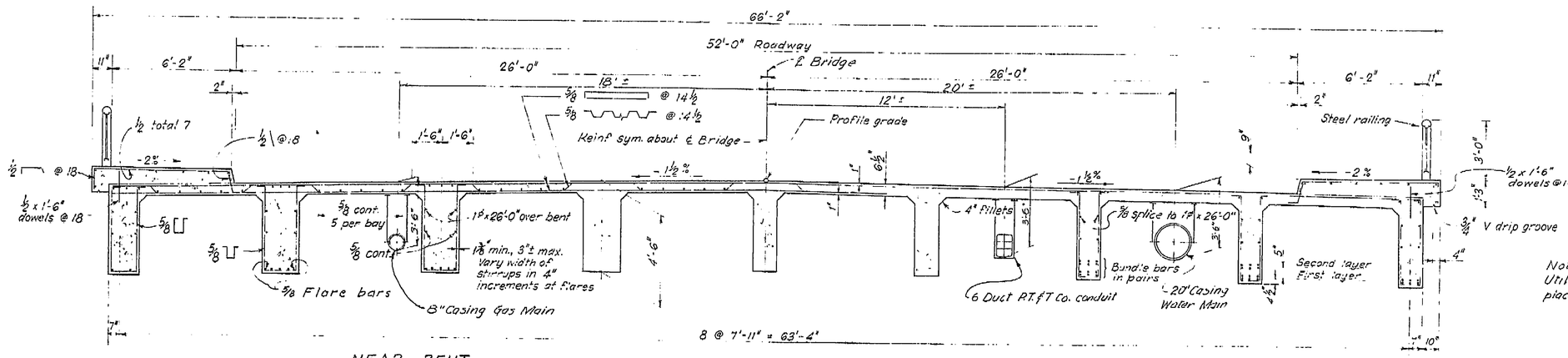
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FED. ROAD DIV. NO.	STATE	PROJ. No.	FISCAL YEARS	SHEET No.	TOTAL SHEETS
7	CALIF.			88	147

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	FRE	4	FRE	9	14

DIVISION ENGINEER — CIVIL ENGINEER—BRIDGE DESIGN

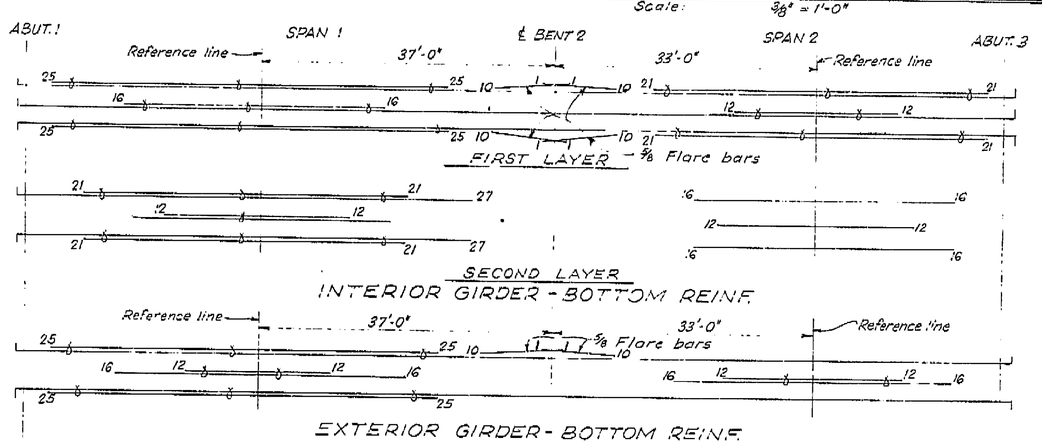
DATE APPROVED December 27, 1955



NEAR BENT — NEAR MIDSPAN

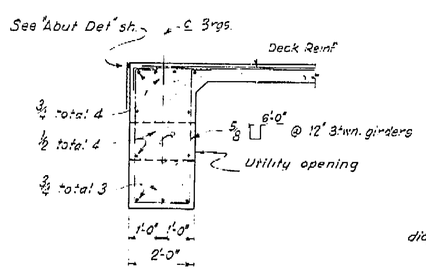
TYPICAL SECTION

Scale: ⅜" = 1'-0"



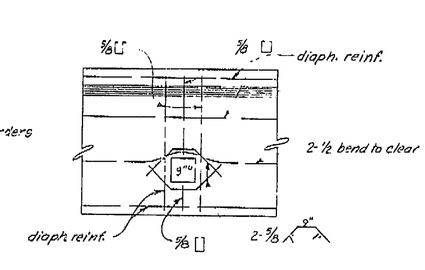
GIRDER REINFORCEMENT

Scale: None



SECTION END DIAPHRAGM

Scale: ½" = 1'-0"



END DIAPHGRAM DETAIL U5

Scale: ½" = 1'-0"

NOTES:

All bars are 1½ except as noted
No bottom reinforcement splices permitted in center ½ of span.
Lap all splices 65 diameters, and stagger.
Numbers at ends of bars are distances in feet from reference line or center line Bent 2.
=⊙= Indicates bundled bars.

AS BUILT
DATE 4/16/57 BY S.E. Calvert

AS BUILT PLANS
Contract No. 56-6TC2
Date Completed
Document No. 60000987

BRIDGE DEPARTMENT
DESIGN SECTION 8
Project Designer W. F. Johnson 3-55
Chief Designer Richard H. Swanson

DESIGN	by R. W. Quinn 3-55	Checked	Wm. Hogarth 4-55
DETAILS	by A. M. MYCZEK 3-55	Checked	Wm. Hogarth 4-55
QUANTITIES	by M. L. Warnick 4-55	Checked	Wm. Hogarth 4-55
SPECIFICATIONS	by	Plans and Specs. Checked	

Approved Recommended by: W. F. Johnson, Engineer of Design — Civil and Structural Engr. License No. 5429

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

KERN STREET OVERCROSSING

TYPICAL SECTION & GIRDER REINFORCEMENT

SCALE AS NOTED | BRIDGE 42-159 | FILE | DRAWING C-4095-9 F

PREL. DRAWING No. P-4095 10 23 34

88

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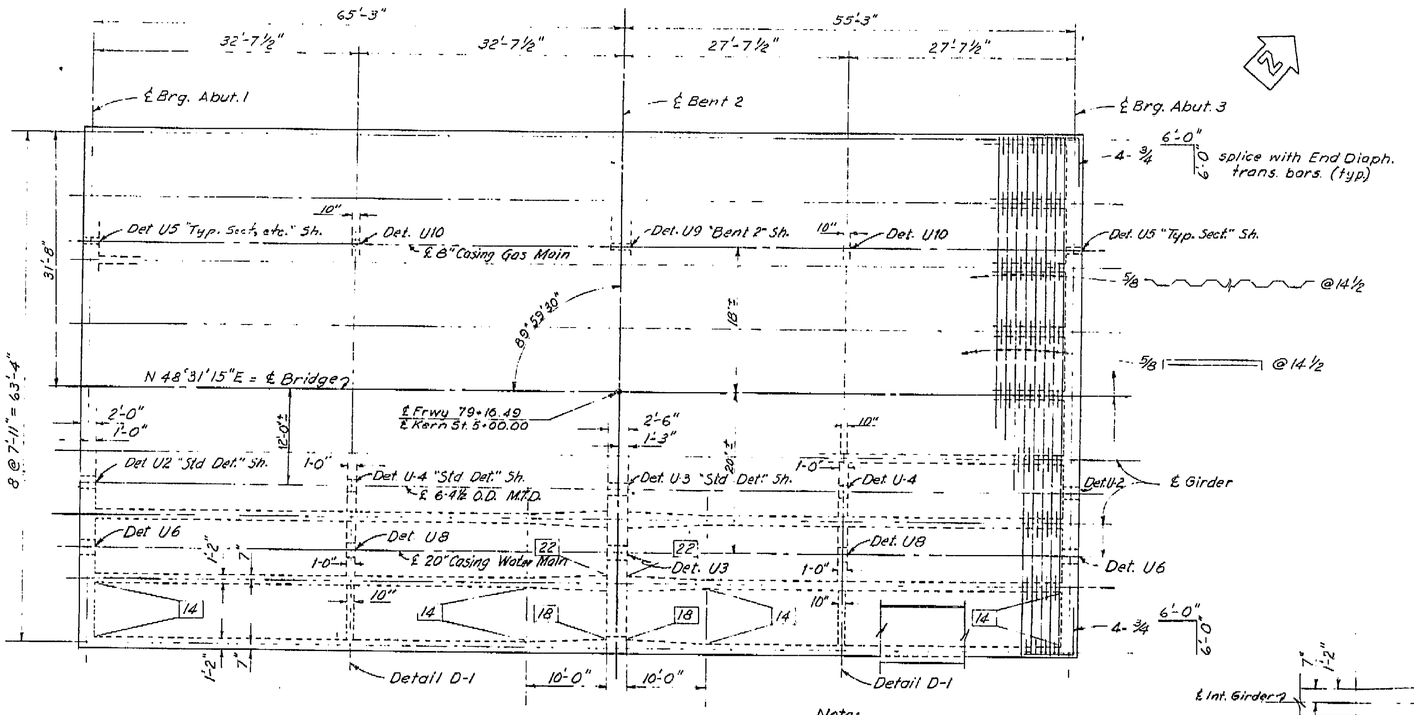
DATE June 23 1971 SIGNATURE [illegible] TITLE [illegible]

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7	CALIF.			87	147

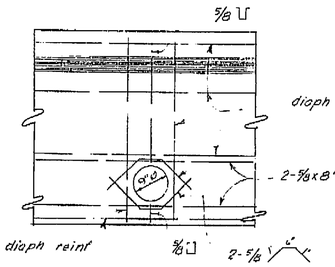
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	41	Fre	-8-	-14-

DATE APPROVED December 27, 1956



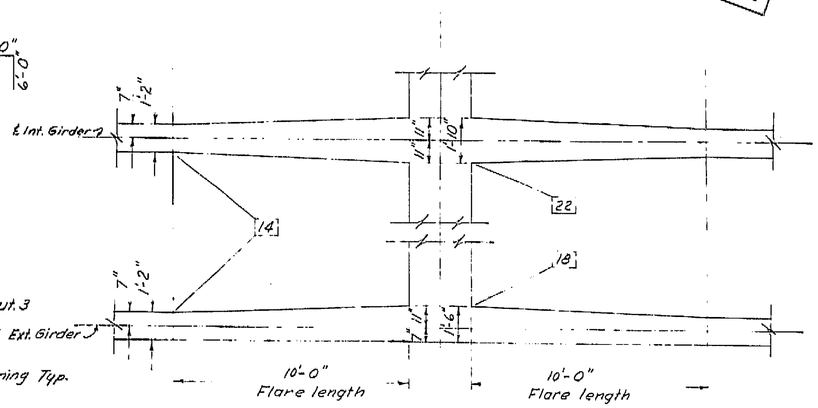
PLAN
Scale: ⅛"=1'-0"

Note:
For 20" Water Main Casing,
Det's. U6 & U8, see Stanislaus St. O.C.
Det. U3, see Fresno St. Seperation

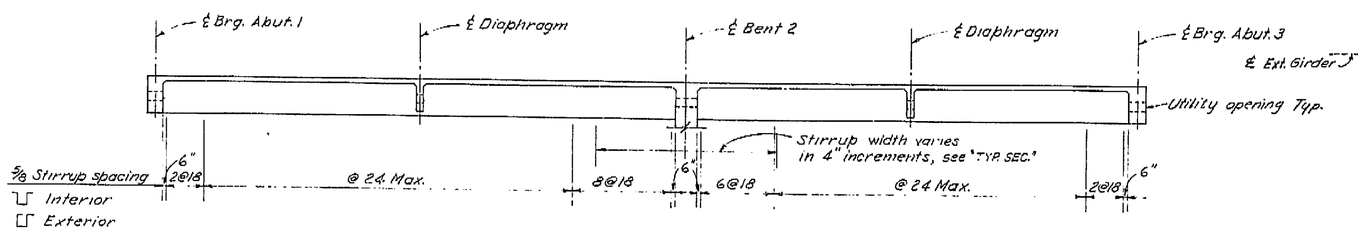


INTERMEDIATE DIAPHGRAM
DETAIL U10
Scale: ¾"= 1'-0"

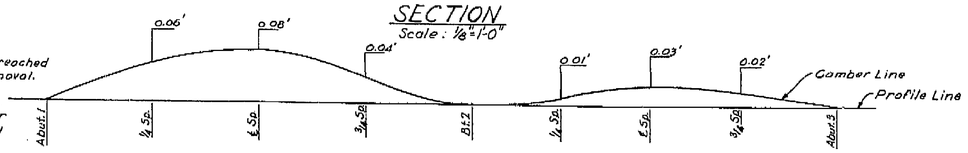
AS BUILT PLANS
Contract No. 56-67C2
Date Completed
Document No. 6000917



GIRDER FLARE DETAIL
No Scale



SECTION
Scale: ⅛"=1'-0"



CAMBER DIAGRAM FOR TOTAL GIRDER DEFLECTION DUE TO DEAD LOADS

NOTE: The total deflection will be reached about 4 years after falsework removal. For values at time of falsework removal, divide those shown by 4.
The amount of camber for construction will be determined by the Engineer.

AS BUILT
DATE 4/30/71 BY S.E. Calvo

BRIDGE DEPARTMENT			
DESIGN SECTION		8	
Project Designer W. F. Johnson 3-55			
Chief Designer C. H. Craig			
DESIGN	By R. H. Craig 3/55	Checked R.H. Wagstaffe 4/55	
DETAILS	By L. H. Craig 3-55	Checked R.H. Wagstaffe 4/55	
QUANTITIES	By D. L. McKinley 4-55	Checked A. Arzigian 9/55	
SPECIFICATIONS	By	Plans and Revs. Checked	
Approval Recommended by [illegible] Engineer of Design		Filed and Numbered as High Server No. 5435	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

KERN STREET OVERCROSSING

GIRDER LAYOUT

SCALE As Noted	BRIDGE 42-159	FILE	DRAWING C-4095-B-L2

PREL. DRAWING NO. P-4095 9 32 33

87

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DATE [illegible] SIGNATURE [illegible] TITLE [illegible]

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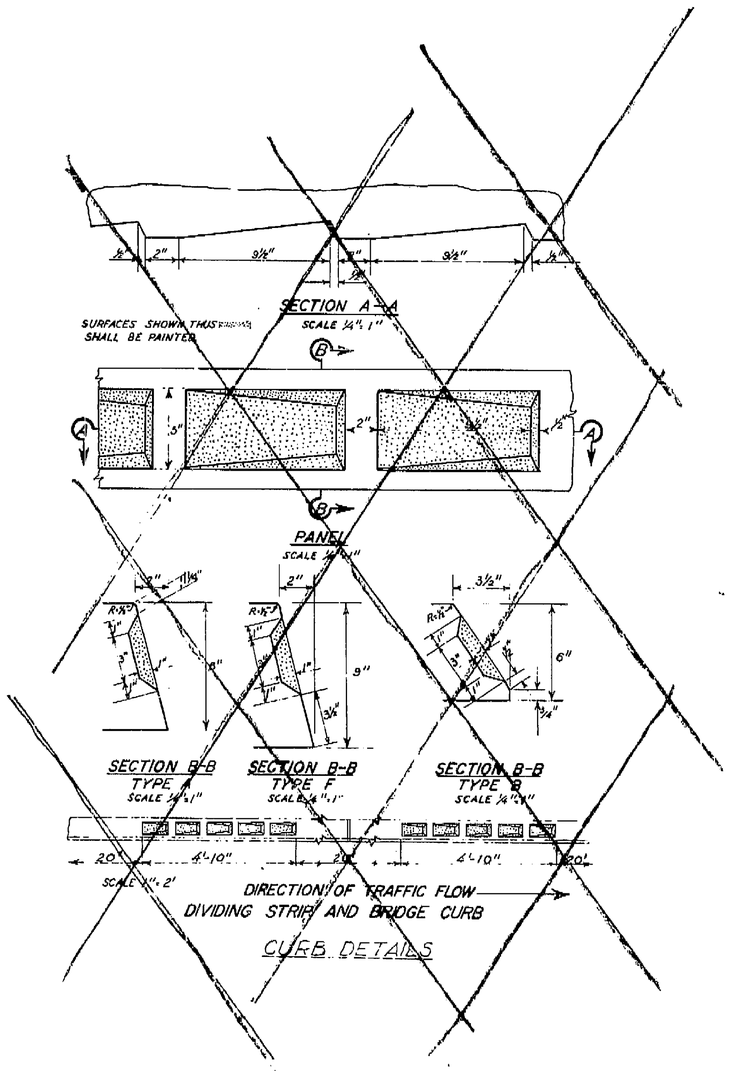
FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.			89	147

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VII	FRE	4	FRE	10-11	

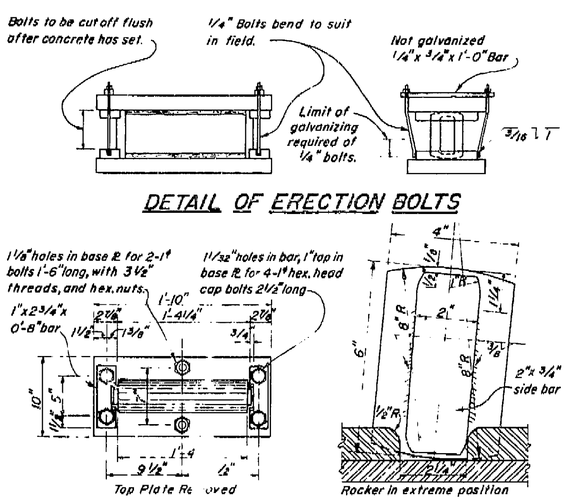
BRIDGE ENGINEER — CIVIL ENGINEER—LICENSE 5385

DATE APPROVED December 27, 1955

BRIDGE DEPARTMENT



CURB DETAILS

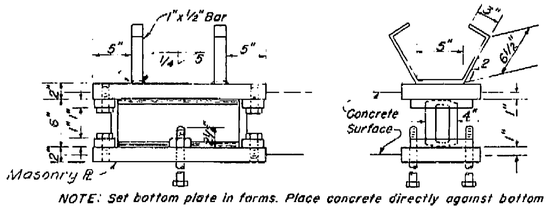


DETAIL OF ERECTION BOLTS

BOTTOM PLATE PLAN

END VIEW OF ROCKER

Scale 6"=1'-0"



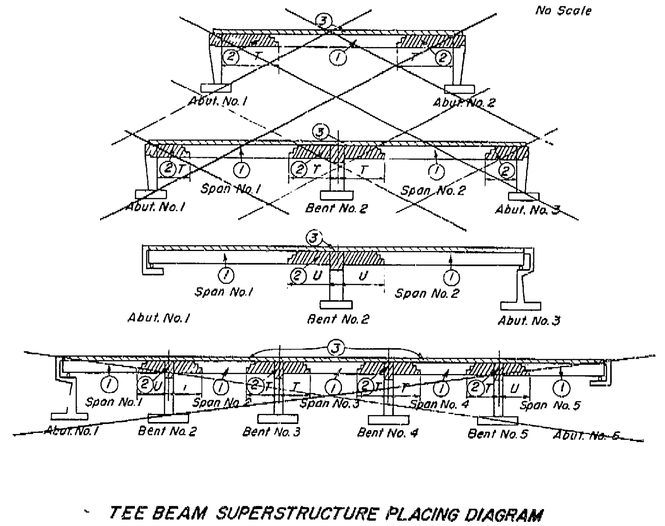
NOTE: Set bottom plate in forms. Place concrete directly against bottom plate. All bearing assemblies to be galvanized after fabrication.

10"x22" EXPANSION BEARING ASSEMBLY

Scale 1½"=1'-0"

Bearing Requirements	
Kern St. O.C.	18 Req'd.
Tyol. " "	16 "
Stan. " "	14 "
Tulare " "	18 "
Ventura St. O.C.	None
Fresno St. Sep.	None

No Scale



TEE BEAM SUPERSTRUCTURE PLACING DIAGRAM

Numbers (1) and (2) indicate sequence of placing girder stem concrete. (2) may be placed with (1) when approved, provided both adjoining (1) sections are placed.

Top slab concrete (3) may be placed separately with construction joints as desired or with (1) and (2) except no construction joints in the area "T" or "U".

T = 1/5 span length

U = 1/4 span length

Longitudinal construction joints may be used when approved, provided falsework or shoring on each side of the construction joints support the loads.

Contractor shall submit falsework plans and a superstructure placing diagram for approval by the Engineer.

AS BUILT
DATE 6/19/57 BY [illegible]

AS BUILT PLANS
Contract No. 56-6TC2
Date Completed
Document No. 60000987

Submitted by — DESIGN — DETAILS — QUANTITIES — SPECIFICATIONS
Approved [illegible]

DESIGN SECTION 8
W. F. Johnson 3-55
PROJECT ENGINEER

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

KERN STREET OVERCROSSING

MISCELLANEOUS DETAILS

SCALE As Noted	BRIDGE 42-159	FILE	DRAWING C-4095-10

PREL. DRAWING NO P. 4095

89

394

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE June 29, 1971 SIGNATURE [illegible] TITLE [illegible]

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FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.			92	197

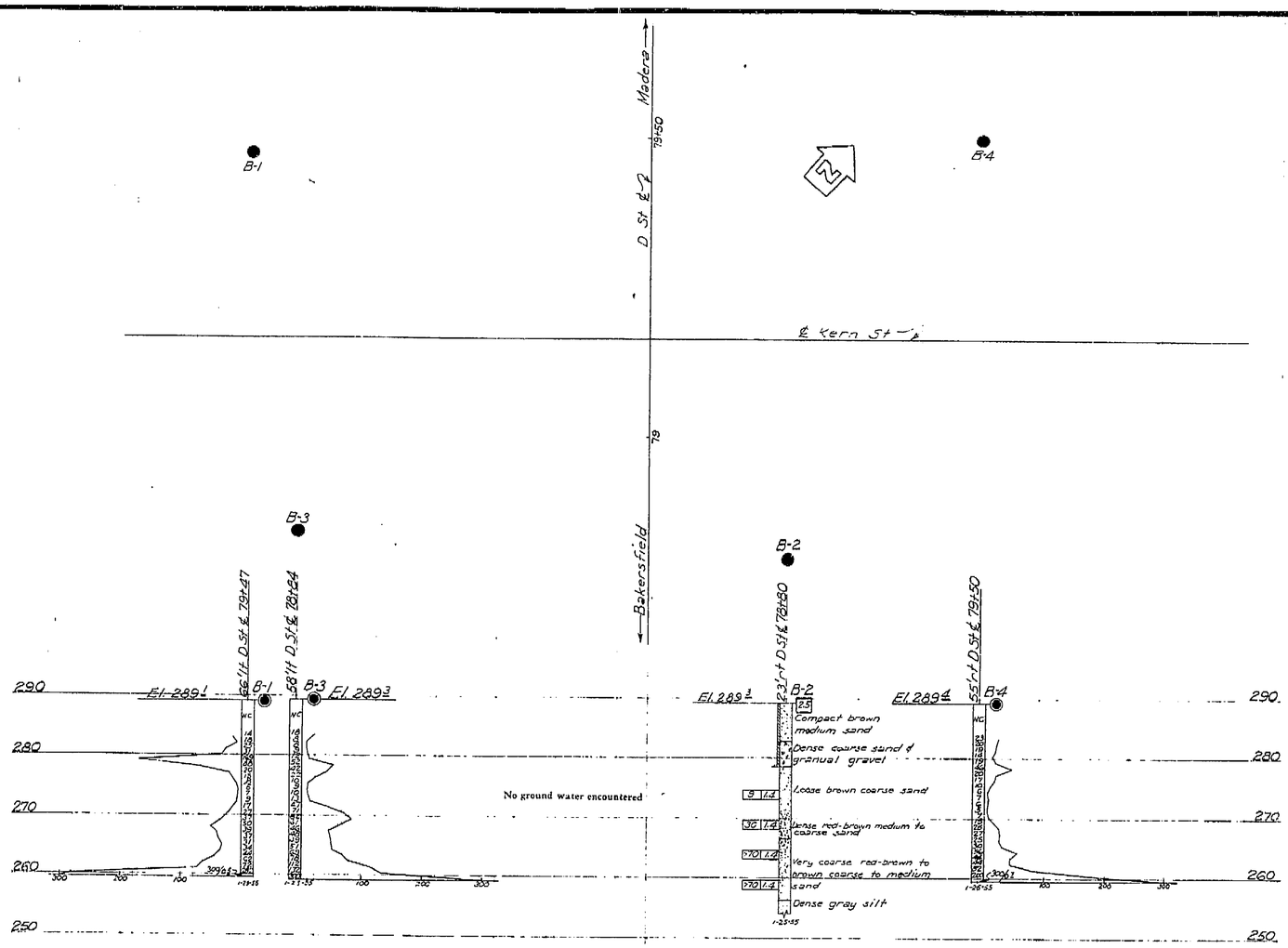
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	4	Fre	13-14	

DATE APPROVED December 27, 1955

BRIDGE DEPARTMENT

FIELD STUDY	P. Hoper	1-55
DRAWN	J. Oster	2-55
CHECKED	R. Hager	2-55

Approved Recommended by [illegible] Chief Engineer



BM #84.3
RR Spike in power pole at NW corner Tulare & D Streets
Elev. 289.22

AS BUILT
DATE 4/29/57 BY [illegible]

AS BUILT PLANS
Contract No. 56-6TC2
Date Completed
Document No. 60000987

CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS

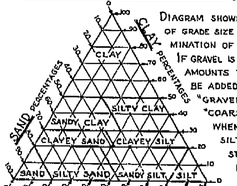


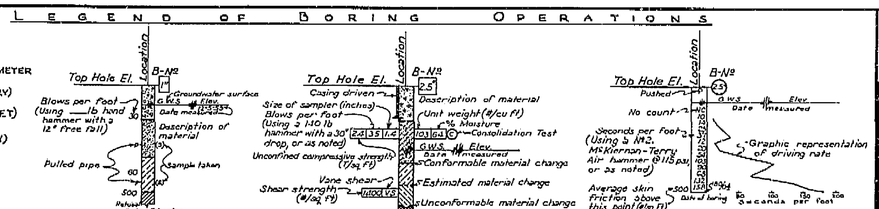
DIAGRAM SHOWING THE BASIS FOR ESTIMATES OF GRADE SIZE DISTRIBUTION USED IN DETERMINATION OF CLASS NAMES. IF GRAVEL IS PRESENT IN APPRECIABLE AMOUNTS THE TERM "GRAVELLY" MAY BE ADDED TO THE CLASS NAME, VIZ. "GRAVELLY SAND." THE TERMS "COARSE", "MEDIUM" AND "FINE" WHEN USED TO DESCRIBE SAND, SILT AND GRAVEL REFER TO STANDARD GRADE SIZE LIMITS.

LEGEND OF EARTH MATERIALS

- Gravel
- Sand
- Silt
- Clay
- Sandy Clay or Clayey Sand
- Sandy Silt or Silty Sand
- Silty Clay or Clayey Silt
- Peat and/or Organic Matter
- Fill Material
- Igneous Rock
- Sedimentary Rock
- Metamorphic Rock

LEGEND OF BORING OPERATIONS

- Plan of any boring
- Penetrometer
- 2½" Cone Penetrometer
- Sampler Boring (DRY)
- Rotary Boring (WET)
- Auger Boring (DRY)
- Jet Boring
- Core Boring
- Test pit



NOTES

The contractor's attention is directed to Section 2, Article (c) of the Standard Specifications and to the Special Provisions accompanying this set of plans.
Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

KERN STREET OVERCROSSING

LOG OF TEST BORINGS

SCALE	BRIDGE	FILE	DRAWING
1"=10'	42-159		C-4095-13

PREL. DRAWING NO. P-4095 13

92

349

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE June 18, 1971 SIGNATURE [illegible] TITLE Right of Way [illegible]

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FED. ROAD SHT. NO.	STATE	COUNTY	PROJECT NO.	SHEET NO.	TOTAL SHEETS
2	CAL.			90	147

DIST.	COUNTY	ROUTE	KILOPOST	SHEET NO.	TOTAL SHEETS
VI	FRE	-4-	FRE	11	14

December 27, 1955

AS BUILT PLANS
Contract No. 56-67C2
Date Completed
Document No. 600092

STANDARD DWGS

	Initial	Date
1957		
11	R.A.	10-57

Revised:

Wrap conduit with 1" Exp. Jt. Mtl. Make a tight fit.

Wall Reinf. for size and spacing see Abutment details

ABUTMENT BACKWALL DETAIL U1

4-3/4 Cont. Diaph. reinf.

5/8 ⌊⌋ 5/8 ⌊⌋

10"

1'-2"

2-3/4"x1'-2"

2-1/2 Cont. Bend around

5/8 ⌊⌋

END DIAPHRAGM DETAIL U2

5/8 ⌊⌋ tot. 2

2-3/4 Bent reinf.

1/4 Bent reinf.

5/8 ⌊⌋

2-3/4"x10'

1'-5"

1'-2"

4" Fillets

5/8 ⌊⌋ tot. 2

BENT CAP DETAIL U3

Diaph. reinf.

5/8 ⌊⌋

1'-6" Min.

4-3/4 3/4" 3'

5/8 Cont.

2-3/4 Cont.

1'-5"

1'-2"

5/8 ⌊⌋

2-3/4"x10'

INTERMEDIATE DIAPHRAGM DETAIL U4

5/8 @ 12± x 6-0

3/4 ⌊

Typical Slab reinforcement

5/8 @ 15

5/8

10"

1'-0" In bay with Water Main & Telephone duct.

Diaphragm normal to deck grade

3/4

6"

Bottom of girder

INTERMEDIATE DIAPHRAGM SECTION DETAIL D1

UTILITY OPENINGS

Edger finish and fill with asphalt

1/4 Span Length

Main Reinf.

Const. Jt.

TRANSVERSE SLAB BRIDGE DETAIL J-1

℄ Bent or abutment

At center of stem use Detail J-20

3/4" Keys 1'-0"± long spaced 1'-0"± clear

1'-6" Within this limit use Detail J-21

Mid way between girders Within this limit use Detail J-22

Slab

3/4" Key

Edger Finish and Fill with asphalt, all joints.

Reinforcement continuous thru all joints

Raised Keys

3/4" Keys, See Plan

Stem

DETAIL J-20 DETAIL J-21 DETAIL J-22

Const. Jt. in slabs to be parallel to slab Reinf. For optional location see placing Diagram.

3/4" Key

Edger finish and fill with asphalt

1/8

1-6 x 6-0 1-6 Total 4 Place against Stirrup

Normal to Girder

Reinforcement continuous thru joint

Stop horizontal bars 2" from the diagonal bars or the construction Jt. where necessary

0.2 Span Length

℄ Bent (Shown) or Abutment

2-1# between 0.2 points of spans except if noted otherwise in the Reinforcement details.

TRANSVERSE GIRDER DETAIL J-3

1-1/8" x 6" x 1'-0" Raised key in deck slab on low side only

Construction Joint

Raised keys

Slab

1" 1" 1"

18"± 18"±

Construction Joint

Stem

Stirrups

SECTION A-A

Straight surface joint

3/4"

1'-0"±

1'-6"±

1-1/2"±

Note: Location of longitudinal construction joints in slabs to be at edge of traffic lanes except as approved by the Engineer

PART PLAN X-X

LONGITUDINAL DECK SLAB

Keys 12"± x 1/2" over 50% of area

Const. Jt. Normal to cap or diaphragm

2-1# x 5'-0" Total 4 for 10" diaphragms. 4-1# x 5'-0 Total 8 for 18" diaphragms At mid-height of diaphragm.

Reinforcement continuous thru joint.

Girder

Girder

Limits for Bent Cap

Limits for Diaphragm

4-1# x 5-0 Total 16, equally spaced.

Stop key 3" from exposed surfaces

BENT CAP DIAPHRAGMS LONGITUDINAL DETAIL J-4

Slab

Raised Keys

Construction Jt. shown at maximum height

Stem

Stirrups

Curb

Set key in 2"± where construction Jt. is exposed

PART SECTION INTERIOR GIRDER

PART SECTION EXTERIOR GIRDER WITH SLAB CANTILEVER

PART SECTION EXTERIOR GIRDER WITH CURB

KEY - GIRDER STEM TO SLAB DETAIL J-5

CONSTRUCTION JOINTS

AS BUILT DATE 1/30/57 BY J.E. Cahn

DESIGN SECTION 8
W.F. Johnson 3-55
PROJECT DESIGNER

CURB DETAIL C1

SIDEWALK DETAIL S1

CURB AND SIDEWALK EXPANSION JOINTS

NOTE: In simple spans place joint at midspan. In continuous spans place joint over ℄ interior piers or bents and at midspans.

6"

3/4" Min. for asphalt - latex

1/2" Edger Finish

Asphalt-latex joint filler. Place in deck, only, unless shown otherwise.

2"

1" Dia.

1/2" Exp. Jt. Mat'l.

6" Rubber Waterstop

Exp. Jt. Mat'l. Size as detailed

RUBBER WATERSTOP DETAIL W1

LATEX AT EXPANSION JOINT DETAIL L1

Tempered Masonite smooth side down over 1/2" Celotex or equal.

For use where watertight joint is required

DETAIL M-1

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

KERN STREET OVERCROSSING

STANDARD DETAILS

Scale None	Bridge 42-159	XS-14-21	Drawing P-4095-11

PREL. DRAWING NO. P-4095 M 7/10

T BEAM

90

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE June 27 1971 SIGNATURE _____ TITLE _____

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DIST	COUNTY	ROUTE	POST MILE	SHEET NO	TOTAL SHEETS
VI	FRE-4-FRE-5				14

5565

September 1, 1953

State Highway Engineer
Civil Engineer License No 2084
To Accompany Plans Dated December 27, 1955

FED. ROAD DIVIS. NO.	STATE	ROUTE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2	CAL				84 147

1.3H for H = 4' to 8'
0.9H for H = 10' to 22'

Case 1-C — Surcharge
Case 1-B — Surcharge
Case 1-A

Place Rubber Waterstop as shown when required

7"

Intersection of Ground Line & Back face of wall

1'-0" min.

5" Max.

Filter Material Continuous behind wall

4" ϕ Drains ~~6' Ctrs. max~~ 1' above outside ground surface Slope ½" per ft.

6"

3' Min.

Design H

Backfill sufficiently to prevent ponding if water will seriously weaken the foundation. To be done after removal of wall forms and before backfilling behind the wall.

1'-0"

Place concrete in toe against undisturbed material, except as permitted by the Engineer.

H Comp.

V Comp.

e

W/2

For reinforcement and footing dimensions

DESIGN AND DRAINAGE

Wall to be used for Loading Cases Shown

I-A 2' Level Surcharge

I-B 1½:1 Slope terminating as shown. Surcharge Loading shall be either a part of the 7'-0" dimension or terminate at a distance of 1.3H for H = 4' to 8' and 0.9H for H = 10' to 22' from the backface of wall as shown.

I-C 2:1 Slope Unlimited

Loading Notes

Surcharge is a load which replaces a live load or dead load with an equivalent weight of earth.

For an H20-S16-44 truck live load use a 2' Level Surcharge

1'-6"
1'-0"
6"
ALTERNATIVE TOP OF WALL

1'-0"
See "Wingwall Details" sheet

© — 2" Clear — ½ @ 36 — Batter ½:12 — Short © — ½ @ 18 — (a)

Vertical Exterior face — Layout Line — 2" Clear — Short (a) — Construction Joint

1'-0" — 1⅛" — 2" Clear — (b) — ½ — 2" — F — ½ — 3" Clear — 6" — Stop (a) — Optional Key — 1'-0" H = over 12' 8", H = 12 or less — S — C — B — W

H

SECTION

H = 22'-0" / 20'-0" / 18'-0" / 16'-0" / 14'-0" / 12'-0" / 10'-0" / 8'-0" / 6'-0" / 4'-0"

© — Short © — (a) — Short (a)

6'-0" long — 12" — 6'-0" long — 12" — 8'-6" — 6'-0" — 6'-9" Long — 6'-9" Long — 6'-0" — 5'-9" — 6'-9" — 7'-6" — 8'-6" — 7'-9" — 4'-6" — 4'-9" — 3'

Splice © bars 30 © bar diameters

Number beside (a) bars indicates distance from top of footing to upper end of (a) bar

7 7 | 8½ 9½ | 8 8 8 | 11 11 | 15 15 | 7½ 7½ 7½ | 8 8 8 | 12 12 | 24 24 | 36

ELEVATION

Note: Bar cut-offs may be varied in increments of 6"

Use Reinforcement for H = 20' | 18' | 16'

½" Expansion Joint if required

2-½

H = 20'-0"

H = 14'-0"

F = 1'-4"

F = 1'-2"

W = 11'-0"

B = 7'-3⅜"

8'-0" — 6'-0" — 3'-0"

Layout Line

Optional as determined by the Engineer.

½ @ 12

24" @ 12

½

1'-0"

FOOTING STEP

TYPICAL LAYOUT EXAMPLE

Dimension shown on "Bent Layout" sheet supersede those in this table

TABLE OF REINFORCING STEEL DIMENSIONS AND DATA

H	22'	20'	18'	16'	14'	12'	10'	8'	6'	4'
W	12'-0"	11'-0"	10'-0"	9'-0"	8'-0"	7'-2"	6'-2"	5'-2"	4'-2"	3'-2"
C	4'-0"	3'-8"	3'-4"	3'-0"	2'-8"	2'-4"	2'-0"	1'-8"	1'-4"	1'-0"
B	8'-0"	7'-4"	6'-8"	6'-0"	5'-4"	4'-10"	4'-2"	3'-6"	2'-10"	2'-2"
F	1'-6"	1'-4"	1'-2"	1'-2"	1'-2"	1'-2"	1'-2"	1'-2"	1'-2"	1'-2"
S	1'-11"	1'-10"	1'-9"	1'-8"	1'-7"	1'-6"	1'-5"	1'-4"	1'-3"	1'-2"
© Bars	⅞ @ 14	⅞ @ 17	¾ @ 24	⅝ @ 11	⅝ @ 15	⅝ @ 30				
@ Bars	1¼ @ 7	1⅛ @ 8½	1⅛ @ 8	1⅛ @ 11	1⅛ @ 15	¾ @ 7½	⅝ @ 8	⅝ @ 12	⅝ @ 24	⅝ @ 36
(b) Bars	1⅛ @ 7	1⅛ @ 8½	1" @ 8	1" @ 11	1" @ 15	⅝ @ 7½	½ @ 8	½ @ 12	⅝ @ 24	⅝ @ 36
Conc cf/ft	52.1	45.0	38.5	33.8	29.5	24.3	20.2	16.3	12.5	8.9
Steel lbs/ft	309	233	177	123	90	56	47	28	20	14
Toe Press.	4480	4000	3590	3290	2980	2640	2270	1930	1570	1240
H Comp. lbs	11630	9730	8000	6540	5240	4070	3050	2170	1440	850
V Comp. lbs	27070	22690	18670	15260	12180	9760	7340	5230	3460	2020
e ft.	1.90	1.72	1.54	1.41	1.28	1.07	.94	.79	.60	.50

ANY REINFORCING STEEL DIMENSIONS NOW TABULATED OR SHOWN ON THE DRAWINGS DOES NOT APPLY.

NOTES

Design Conditions:
Wall to be used for Loading Cases shown in Design and Drainage detail.
Design H may be exceeded by 6" before going to next size.
Footing Key is required except when found unnecessary by the Engineer.
Special footing design is required where foundation material is incapable of supporting toe pressure loads listed in table.

Design Data: fc = 1250 psi, fs = 20,000 psi, n = 10
earth = 120 pcf and equivalent fluid pressure = 36 psf per ft of height

Reinforcement:
Intermediate Grade, Hard Grade or Rail Steel
Deformations shall conform to A.S.T.M.A 305
Bars shall lap 20 diameters, where spliced, unless otherwise shown on the plans.
Bends shall conform to the Manual of Standard Practice, A.C.I.
Backing for hooks is four diameters
All bar embedments are clear distances to outside of bar.
Spacing for parallel bars is ctr. to ctr. of bars
Bar areas are based on rounds for less than and squares for over 1"

AS BUILT
DATE 3/[illegible] BY [illegible]

AS BUILT PLANS
Contract No. 56-6TC2
Date Completed
Document No. 60000987

6"
¾ Dia
⅜
RUBBER WATERSTOP
Use only when watertight joint is required

½" Chamfer on exposed face

½" Expansion joint fill with expansion joint filler. Joint to extend from top of footing to top of wall. Locate joints of 30'± Ctrs. or as directed by the Engineer.

½

PLAN OF EXPANSION JOINT

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

KERN STREET OVERCROSSING

TYPE 1 CANTILEVER RETAINING WALL

DESIGN SECTION 8
W. J. Johnson 3-55
PROJECT DESIGNER

SCALE NONE	BRIDGE 42-159	DRAWING NO. C-4095-5

SHEET NO. 4095 [illegible]

A63

Fc = 1250 [illegible]

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DATE June 27, 1961 SIGNATURE [illegible] TITLE [illegible]

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California Department of Transportation
Division of Maintenance

Structure Maintenance and Investigations

BRIDGE

INSPECTION

RECORDS

INFORMATION

SYSTEM

The requested documents have been generated by BIRIS.

These documents are the property of the California Department of Transportation and should be handled in accordance with Deputy Directive 55 and the State Administrative Manual.

Records for “Confidential” bridges may only be released outside the Department of Transportation upon execution of a confidentiality agreement.

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	99	23 3/50 7	125	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

VENTURA STREET OC 42-0158K
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION E	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	78 m

VENTURA STREET OC 42-0158E
QUANTITIES

BRIDGE REMOVAL (PORTION) LOCATION F	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	122 m

VENTURA STREET OC 42-0158S
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION G	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	74 m

NOTES

— — Indicates existing

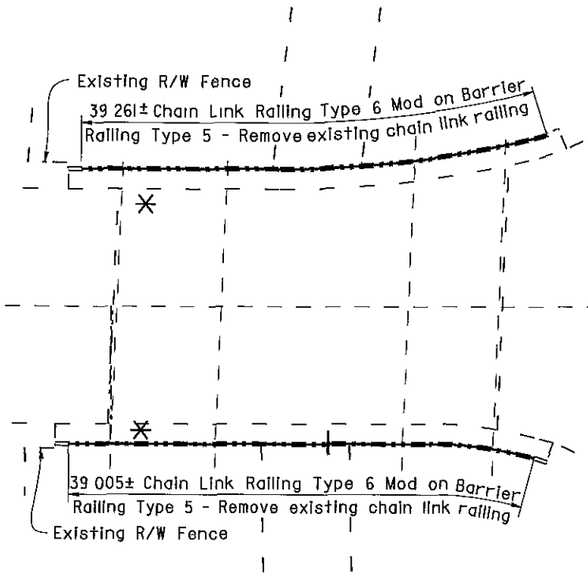
℄ Indicates approximate location of existing electroller (To remain)

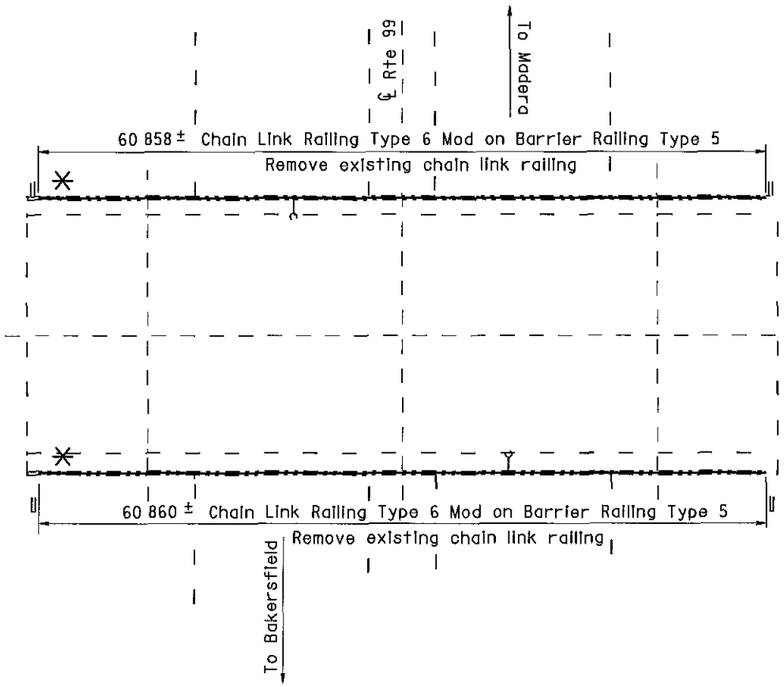
Indicates approximate location of remove and reinstall sign on new post

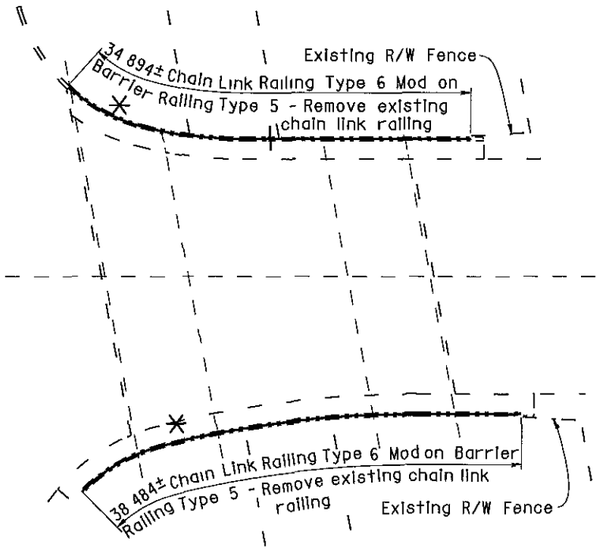
Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.







Br No 42-0158K

Bridges 42-0158K and 42-0158S were both painted with Color No. 20109 - "Deep red".

Br No. 42-0158E

VENTURA STREET OC

Fre, KP 32 5
I 250

AS BUILT
MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

Br No 42-0158S

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

	BY		CHECKED			BY		CHECKED			
DESIGN	D Acoba	4/00	F Tannous	5/00	LAYOUT	K Endow	4/00	D Acoba	4/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE
DETAILS	K Endow	4/00	F Tannous	5/00				PLANS AND SPECS COMPARED			
QUANTITIES	D Acoba	5/00	F Tannous	5/00	SPECIFICATIONS	J Maroney	9/00	J Maroney	9/00		

Michael J Lee 10/3/00
DESIGN ENGINEER

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE => nagp3.dgn

BRIDGE NO Various
KILOMETER POST Varies

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/17/00 | 9/28/00 | 10/1/00

ROUTE 99 BRIDGES
GENERAL PLAN NO. 3

SHEET 3 OF 11

USERNAME => mcarlson DATE PLOTTED => 03 JAN 2003 TIME PLOTTED => 08 32

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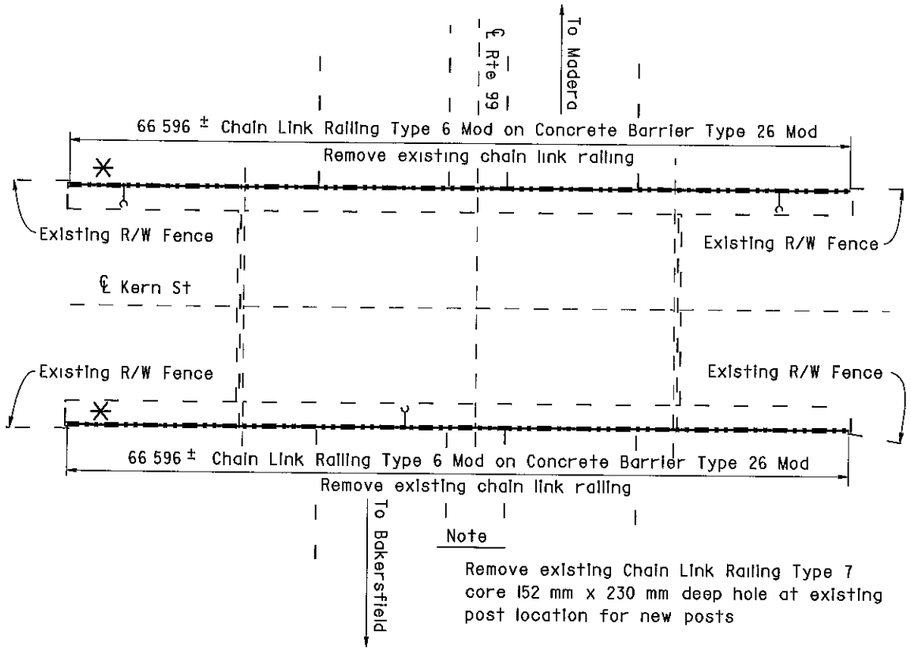
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	126	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet



Note

Remove existing Chain Link Railing Type 7 core 152 mm x 230 mm deep hole at existing post location for new posts

KERN STREET OC

Br No 42-0159, Fre, KP 33 0
1 250

KERN STREET OC 42-0159
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION H	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	133 m

TULARE STREET OC 42-0169
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION I	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	166 m

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

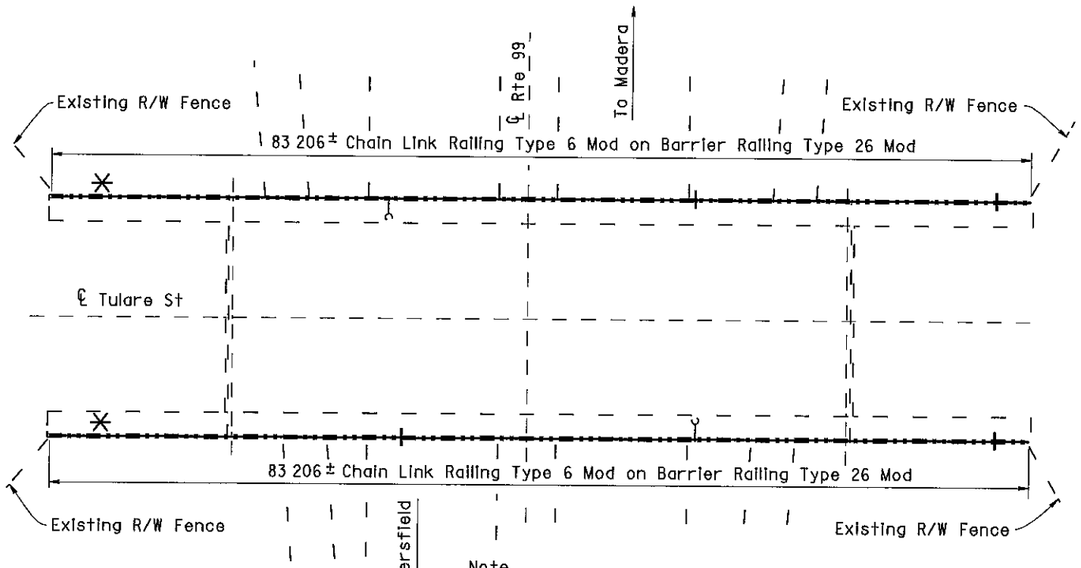
NOTES

— — Indicates existing

℄ Indicates approximate location of existing electrolier (To remain)

Indicates approximate location of remove and reinstall sign on new post

Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details



Note

Remove existing Chain Link Railing Type 7 core 152 mm x 230 mm deep hole at existing post location for new posts

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

TULARE STREET OC

Br No 42-0169, Fre, KP 33 2
1 250

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00 DESIGN ENGINEER	DESIGN	BY D Acoba 4/00	CHECKED F Tannous 5/00	LAYOUT	BY K Endow 4/00	CHECKED D Acoba 4/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE	BRIDGE NO Various
	DETAILS	BY K Endow 4/00	CHECKED F Tannous 5/00						KILOMETER POST Varies
	QUANTITIES	BY D Acoba 5/00	CHECKED F Tannous 5/00	SPECIFICATIONS	BY J Maroney 9/00	PLANS AND SPECS COMPARED J Maroney 9/00		CU 06015 EA 440101	DISREGARD PRINTS BEARING EARLIER REVISION DATES

ROUTE 99 BRIDGES
GENERAL PLAN NO. 4

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 7/17/00 9/26/00 10/3/00

SHEET 4 OF 11

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

FILE > nagp4 dgn

USERNAME > mcarlson DATE PLOTTED > 03-JAN-2003 TIME PLOTTED => 08:38

ClibPDF - www.fastio.com

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	127	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

FRESNO STREET OC 42-0170
QUANTITIES

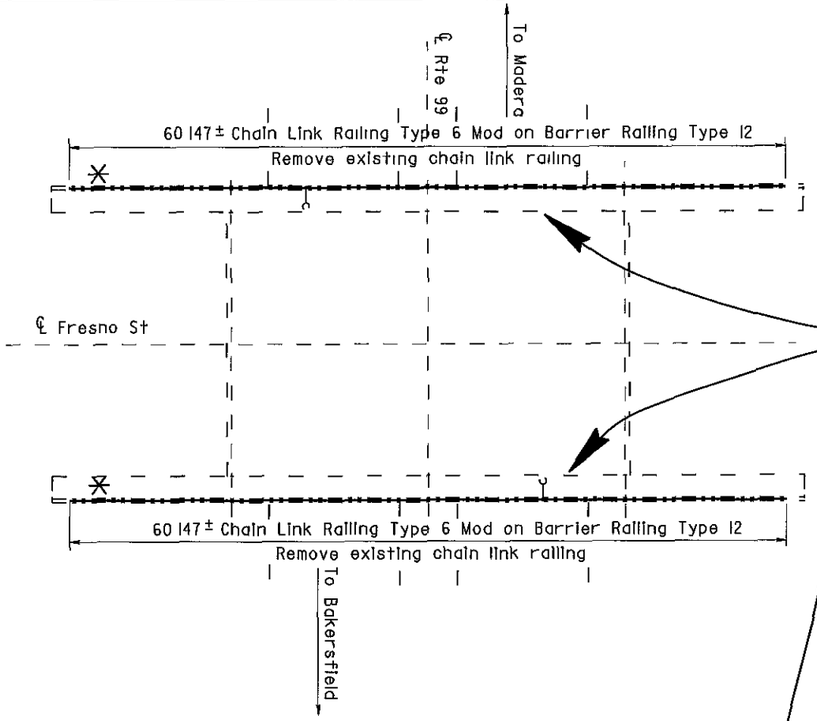
BRIDGE REMOVAL (PORTION), LOCATION J	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	120 m

EL DORADO STREET OC 42-0184
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION K	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	122 m

BELMONT AVENUE OC 42-0186
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION L	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	138 m



Handrail added to Fresno St. and Belmont Ave. OC

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

NOTES

— — Indicates existing

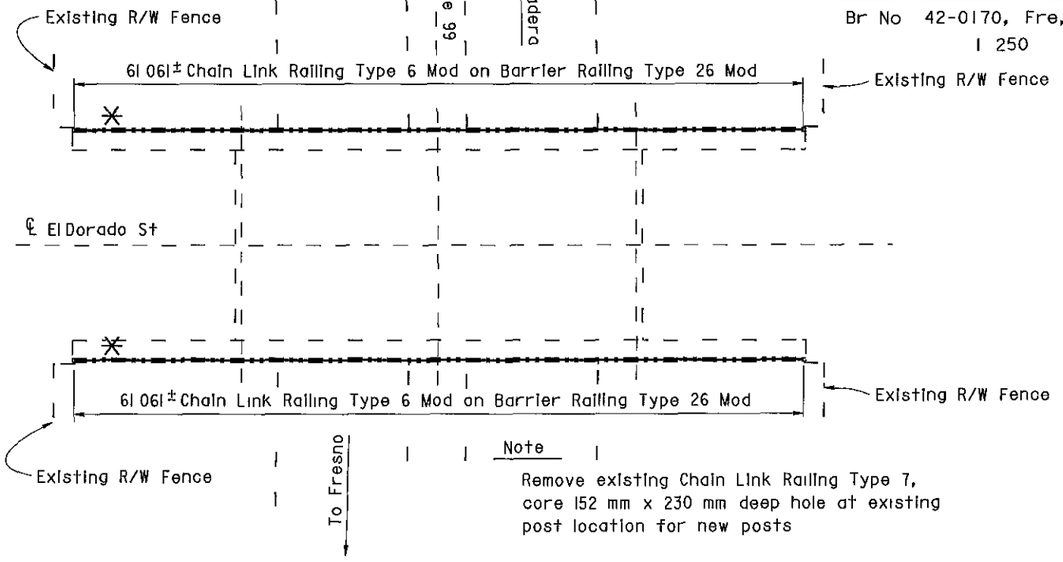
℄ Indicates approximate location of existing electrolier (To remain)

Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

FRESNO STREET OC

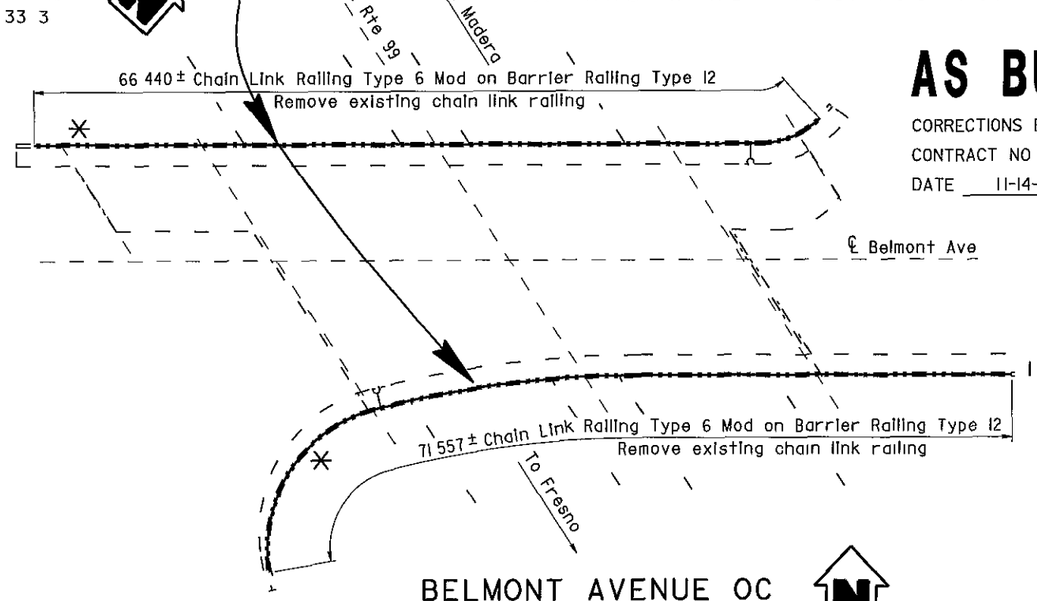
Br No 42-0170, Fre, KP 33 3
1 250



Note
Remove existing Chain Link Railing Type 7, core 152 mm x 230 mm deep hole at existing post location for new posts

EL DORADO STREET OC

Br No 42-0184, Fre, KP 34 6
1 250



BELMONT AVENUE OC

Br No 42-0186, Fre, KP 36 5
1 250

AS BUILT
MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED		LAYOUT	BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00		K Endow	4/00	D Acoba	4/00
DETAILS	K Endow	4/00	F Tannous	5/00				PLANS AND SPECS COMPARED	
QUANTITIES	D Acoba	5/00	F Tannous	5/00	SPECIFICATIONS	J Maroney	9/00	J Maroney	9/00

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

CU 06015
EA 440101

FILE => nogp5.dgn

BRIDGE NO	Various
KILOMETER POST	Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 5

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)									
5/15/00	7/17/00	9/26/00	10/3/00						

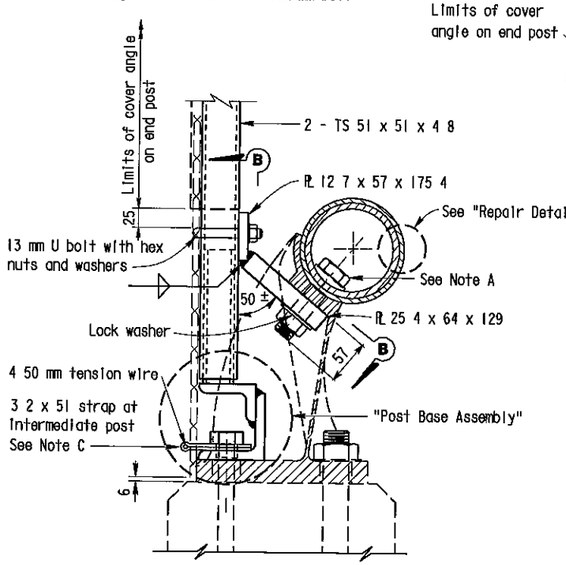
SHEET 5 OF 11

USERNAME => marison DATE PLOTTED => 03-JAN 2003 TIME PLOTTED => 06 50

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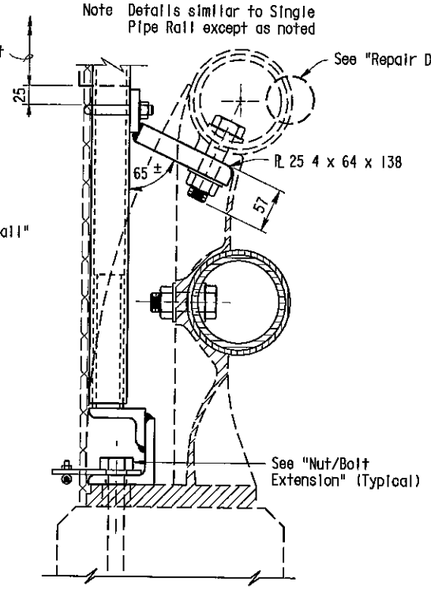
Note A

Replace existing bolt with 25 mm x 102 mm bolt



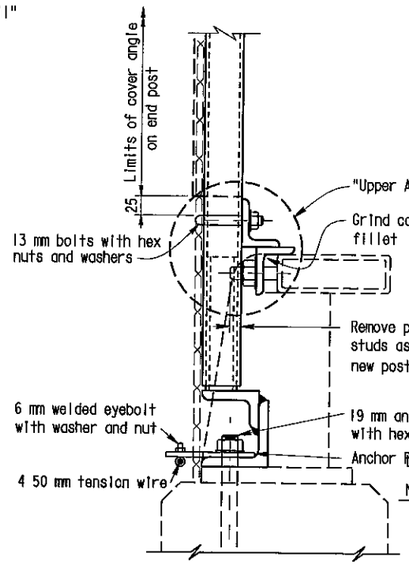
SECTION A-A (SINGLE PIPE RAIL)

Note Details similar to Single Pipe Rail except as noted



SECTION A-A (DOUBLE PIPE RAIL)

Note Details for Type 9 and Type 11 Metal Railing are similar, Type 11 not shown



SECTION A-A (TUBE RAIL)

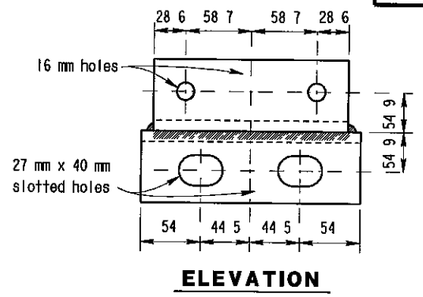
NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Note B

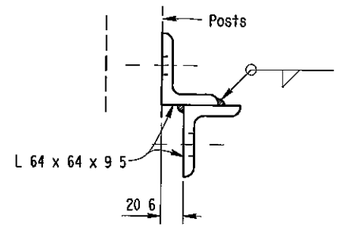
Paint all cut and ground surfaces with zinc rich paint

Note C

At intermediate posts only contractor has an alternate of 3 mm x 51 mm strap or 6 4 mm anchor plate with eyebolt



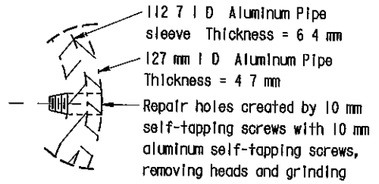
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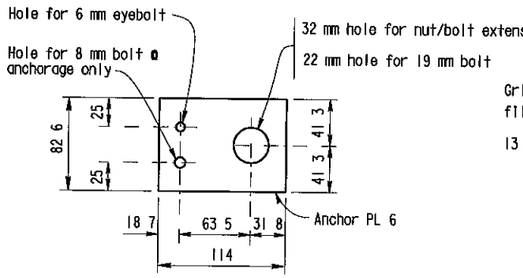
SIDE VIEW

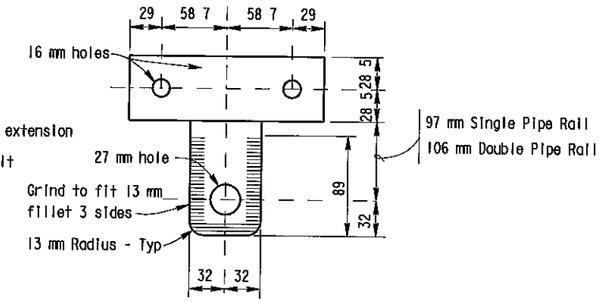
UPPER ANGLE BRACKET

ATTACHMENT DETAILS



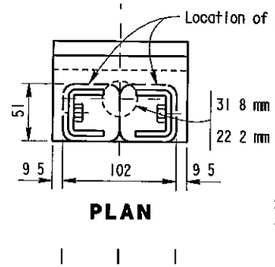
REPAIR DETAIL



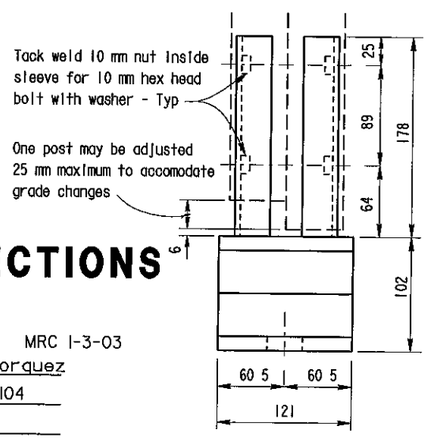


VIEW B-B

(Developed view of upper bracket)

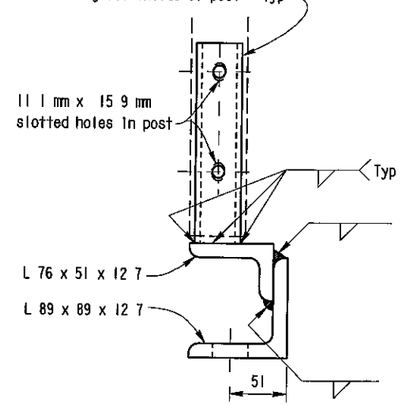


PLAN



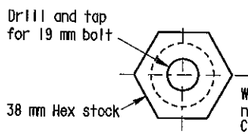
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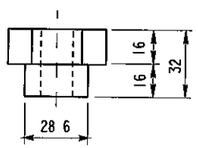
Sleeve formed from PL 4 7, bent thus ⊔ for sliding fit inside of post - Typ



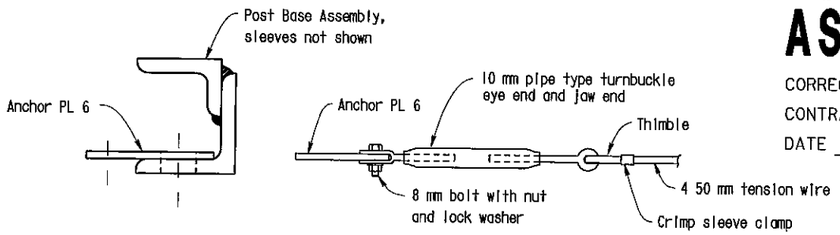
SIDE VIEW

POST BASE ASSEMBLY





NUT/BOLT EXTENSION



BOTTOM ANCHORAGE DETAIL

NO CORRECTIONS AS BUILT

MRC 1-3-03

CORRECTIONS BY John Borquez

CONTRACT NO 06-440104

DATE 11-14-02

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	132	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DIOSDADO ACOBA No 52003 Exp 12-31 02 CIVIL STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

DESIGN	BY D Acoba	5/00	CHECKED F Tannous	5/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY K Endow	5/00	CHECKED F Tannous	5/00	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE
QUANTITIES	BY D Acoba	5/00	CHECKED F Tannous	5/00	CU 06015 EA 440101

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
CHAIN LINK RAILING TYPE 6 MOD NO. 3

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

FILE > nat63 dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 7/17/00 9/26/00 10/3/00

SHEET 10 OF 11

USERNAME > mgarlson DATE PLOTTED > 03 JAN 2003 TIME PLOTTED > 13:26

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	124	133

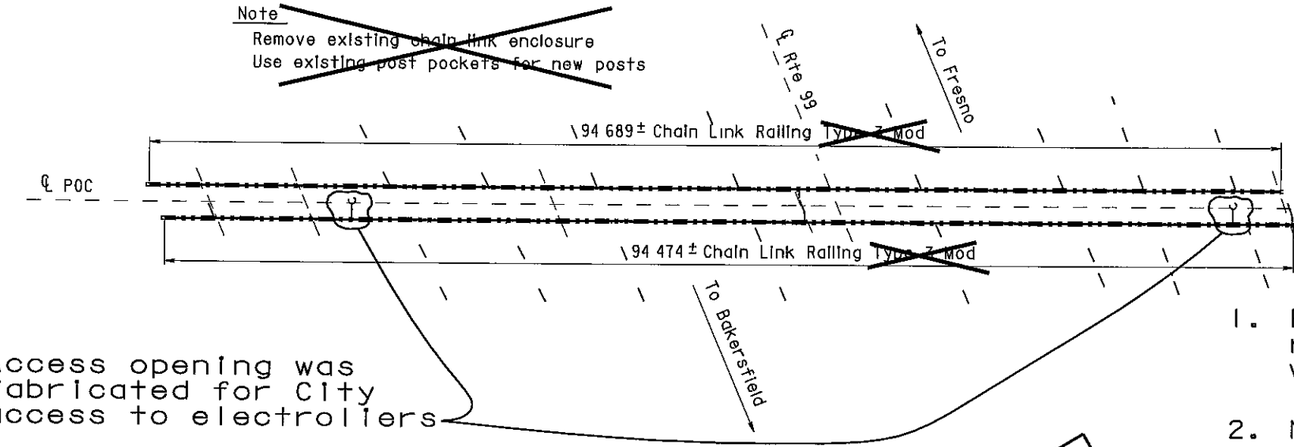
10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

Note
Remove existing chain link enclosure
Use existing post pockets for new posts



COSMOS PLAYGROUND POC

Br No 42-0215, Fre, KP 31 2
1 250

1. Existing chain link railing remained and was painted.
2. New 1" mesh was installed and replaced the old 2" mesh.
3. Existing electroliers remained.

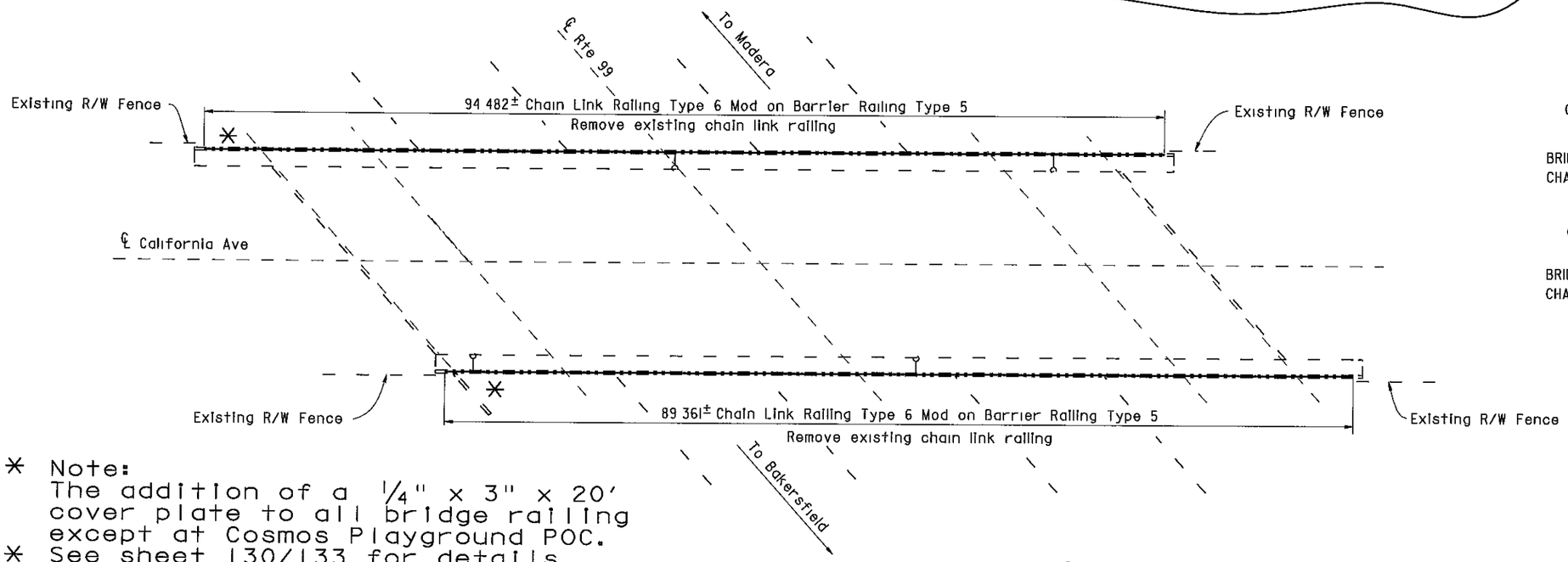
NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

NOTES

— — Indicates existing

℄ Indicates approximate location of existing electroliter (To remain)

Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details



COSMOS PLAYGROUND POC 42-0215
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION C	LUMP SUM
CHAIN LINK RAILING (TYPE 3 MODIFIED)	209 m

CALIFORNIA AVENUE OC 42-0217
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION D	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	184 m

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

CALIFORNIA AVENUE OC

Br No 42-0217, Fre, KP 32 0
1 250

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borguez
CONTRACT NO 06-440104
DATE 11-14-02

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00
DETAILS	K Endow	4/00	F Tannous	5/00
QUANTITIES	D Acoba	5/00	F Tannous	5/00
LAYOUT	K Endow	4/00	D Acoba	4/00
SPECIFICATIONS	J Maroney	9/00	J Maroney (PLANS AND SPECS COMPARED)	9/00

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

CU 06015
EA 440101

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 2

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

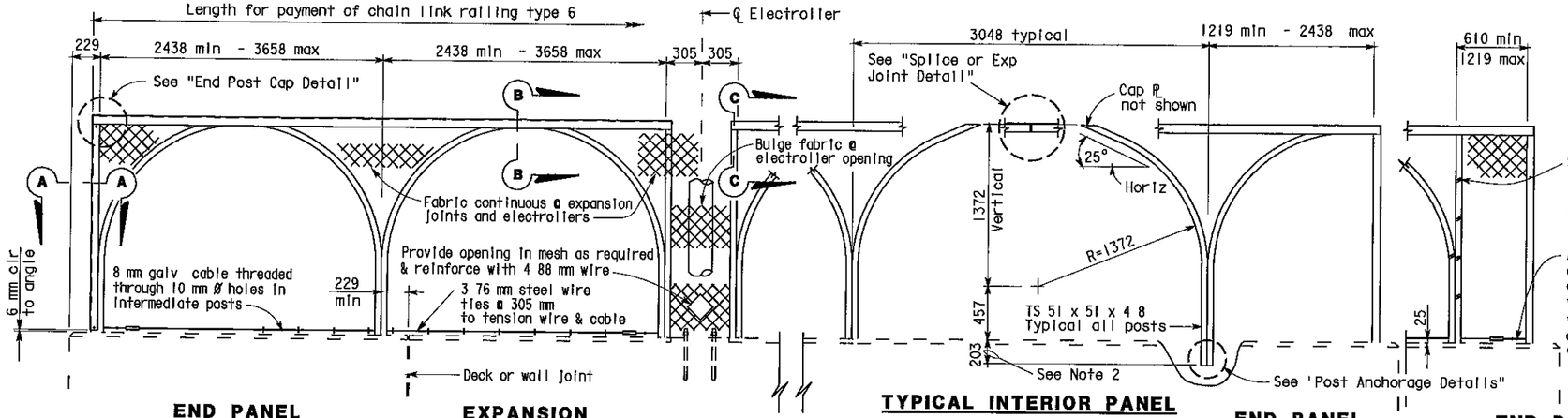
REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/12/00 | 9/26/00 | 10/3/00

SHEET 2 OF 11

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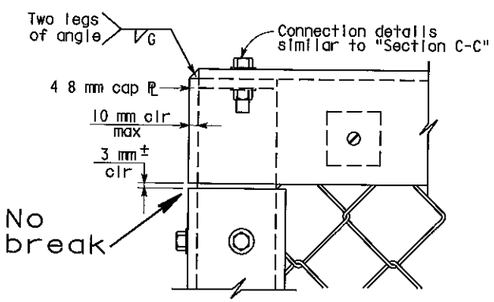
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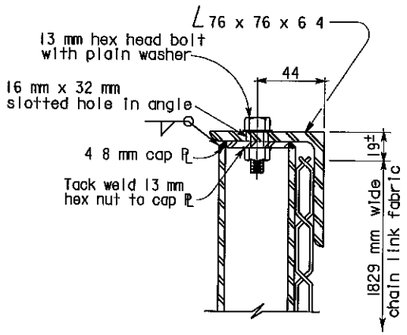


END PANEL 2438 mm - 3658 mm | **EXPANSION PANEL AT ELECTROLIER** | **TYPICAL INTERIOR PANEL** | **END PANEL 1219 mm - 2438 mm** | **END PANEL 610 mm - 1219 mm**

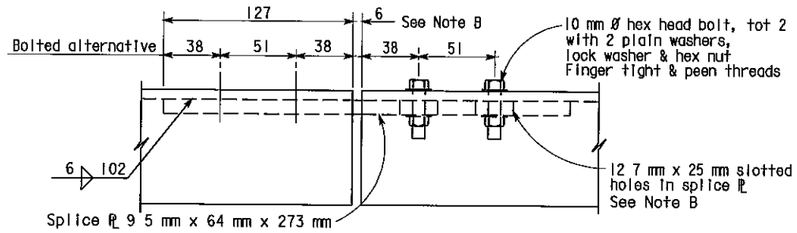
ELEVATION



END POST CAP DETAIL

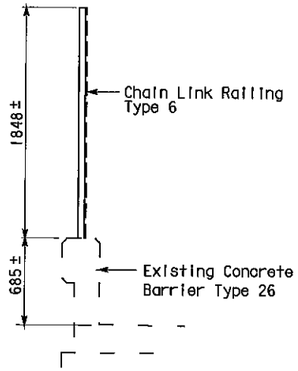


SECTION C-C

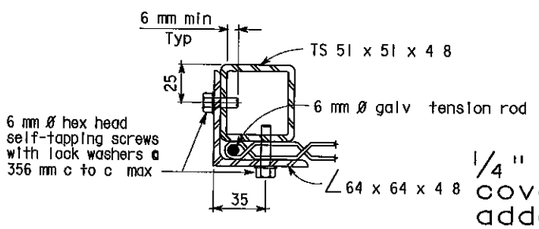


SPLICE OR EXPANSION JOINT DETAIL

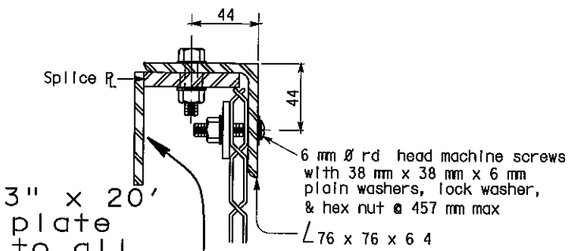
Note B Expansion joint same dimension as expansion joint in deck or wall Increase slotted hole length and splice ℙ length correspondingly



TYPICAL SECTIONS



SECTION A-A



SECTION B-B

NOTES

1. Horizontal angle shall be continuous over not less than two intermediate posts except that a shorter length is permitted at expansion joints, electrollers and other rail discontinuities
2. One post may be embedded 152 mm minimum to accomodate grade changes, otherwise fabricate post lengths as required
3. Curved posts may be rotated in plan within its post pocket to accomodate curved horizontal alignment
4. Straight posts and straight portions of curved posts shall be installed normal to bridge profile grade
5. Top horizontal angle shall be parallel to bridge profile grade and shall be shop bent to fit horizontal curves
6. When railing is on slope, fabric shall be placed parallel to slope
7. Alternative details may be submitted by Contractor for Engineer's approval
8. Railing assembly except chain link fabric shall be galvanized after fabrication
9. For details and reinforcement not shown, see "Concrete Barrier Type 25 or 26" sheet
10. See Bridge Plans for limits of Chain Link Railing Type 6 Mod
11. Provide thimbles at all cable loops
12. Chain link fabric to be 1829 mm wide with 25 mm mesh and with knuckled selvage top and bottom
13. When railing is placed on a horizontal alignment with a radius of 45 72 m or less, thread 8 mm cable through 10 mm Ø welded eye rods embedded 102 mm into the top of the concrete parapet and equally spaced to limit the middle ordinate distance between the 8 mm cable and the curve to 25 mm max
14. Splices and expansion joints shall be located at ℄ panel
15. Holes in posts for 8 mm cable and its anchorage may be field drilled and painted with zinc rich paint

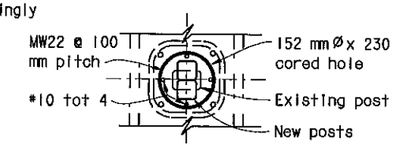
AS BUILT

MRC 1-3-03

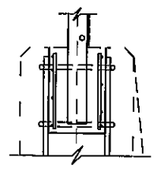
CORRECTIONS BY John Borquez

CONTRACT NO 06-440104

DATE 11-14-02



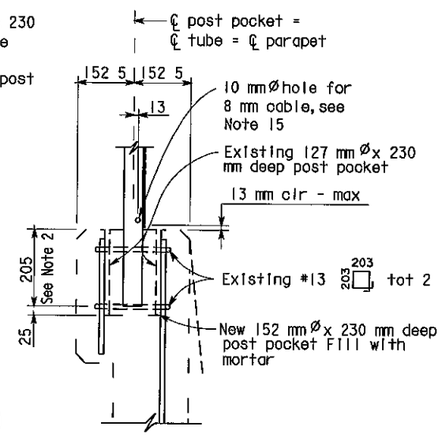
PLAN



SECTION

Detail omitted

POCKET DETAILS



POST ANCHORAGE DETAIL

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	130	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

DESIGN	BY D Acoba	5/00	CHECKED F Tannous	5/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY K Endow	5/00	CHECKED F Tannous	5/00	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE
QUANTITIES	BY D Acoba	5/00	CHECKED F Tannous	5/00	BRIDGE NO Various; KILOMETER POST Varies

ROUTE 99 BRIDGES

CHAIN LINK RAILING TYPE 6 MOD NO. 1

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV 10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE > nat61.dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/17/00 | 9/26/00 | 10/3/00

SHEET 8 OF 11

USERNAME mcarlson DATE PLOTTED > 03-JAN-2003 TIME PLOTTED => 12:11

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	131	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

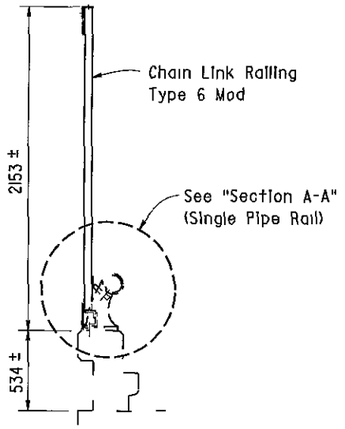
REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

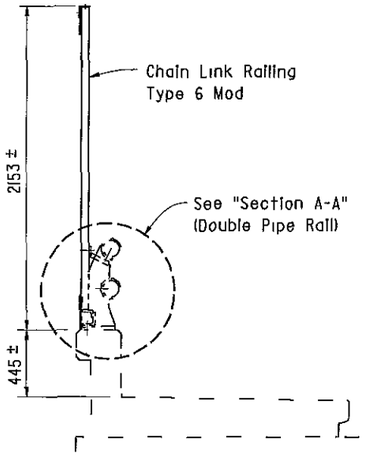
NO CORRECTIONS
AS BUILT

MRC 1-3-03

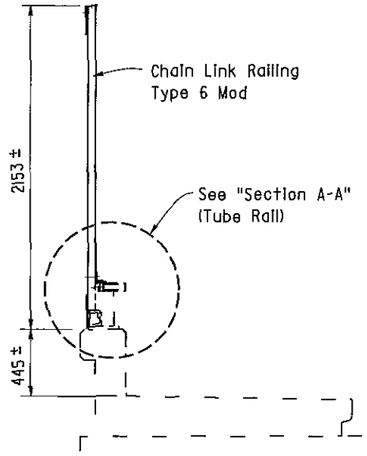
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02



TYPE 1



TYPE 5



TYPE 12

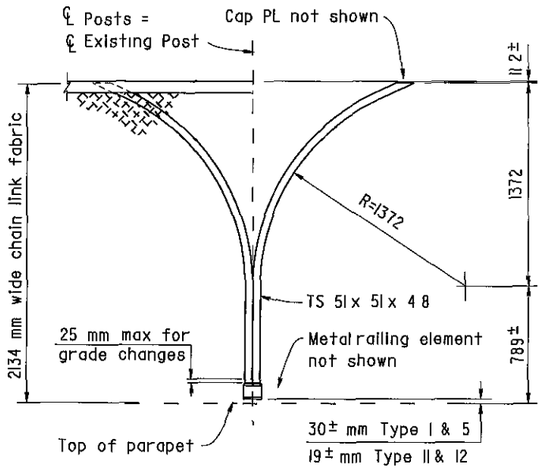
BARRIER RAILING SECTIONS

Existing chain link railing not shown

I 20

TYPE A
- NORTH AVE OC - 2 Locations
- CHURCH AVE OC - 4 Locations
- CALIFORNIA AVE OC - 4 Locations
- VENTURA ST OC - 4 Locations

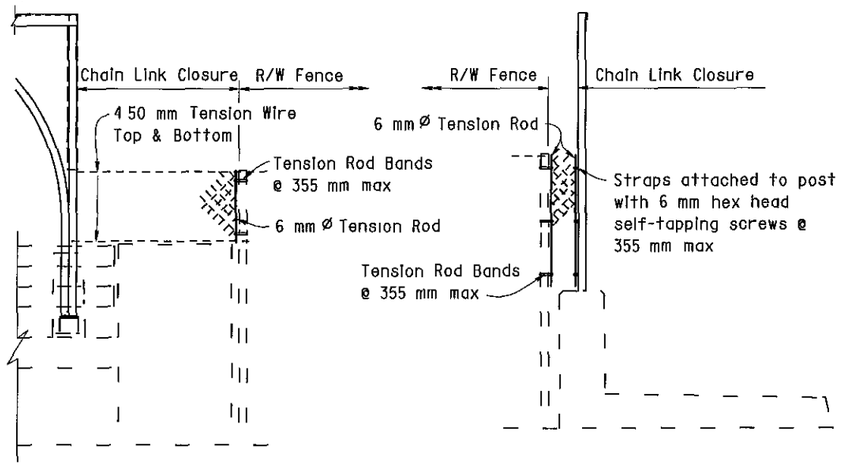
TYPE B
- KERN ST OC - 4 Locations
- TULARE ST OC - 4 Locations
- EL DORADO ST OC - 4 Locations



PART OUTSIDE ELEVATION

Note For details and notes not shown, see "Chain Link Railing Type 6 Mod No 1" sheet

I 10

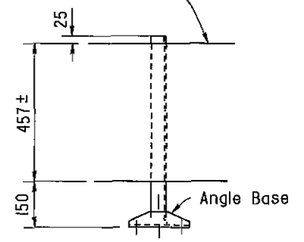


TYPE A TYPE B

R/W FENCE CONNECTION

I 10

Remove existing sign panels and reinstall on new post



TULARE ST OC

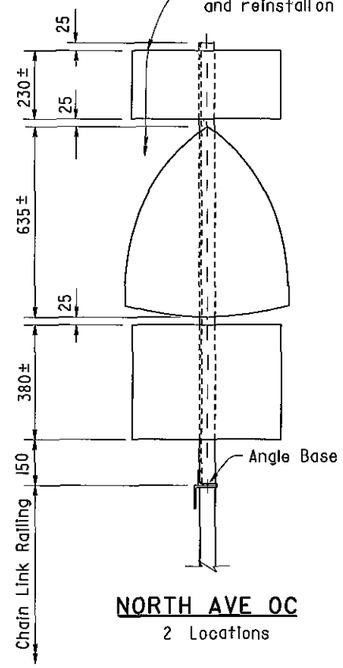
4 Loactions

Note

Reinstall signs at approximately the same location on chain link railing as existing

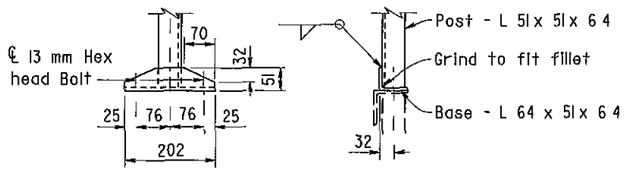
NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Remove existing sign panels and reinstall on new post



NORTH AVE OC

2 Locations



ANGLE BASE

Note

Hot dip galvanize sign post after fabrication
Field drilled holes to be painted with zinc rich paint

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

	BY		CHECKED	
DESIGN	D Acoba	5/00	F Tannous	5/00
DETAILS	K Endow	5/00	F Tannous	5/00
QUANTITIES	D Acoba	5/00	F Tannous	5/00

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
CHAIN LINK RAILING TYPE 6 MOD NO. 2

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/17/00 | 9/26/00 | 10/3/00

SHEET 9 OF 11

FILE > nat62.dgn

USERNAME => mcarlson DATE PLOTTED > 03-JAN-2003 TIME PLOTTED > 13:23

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NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Caltrans Metric

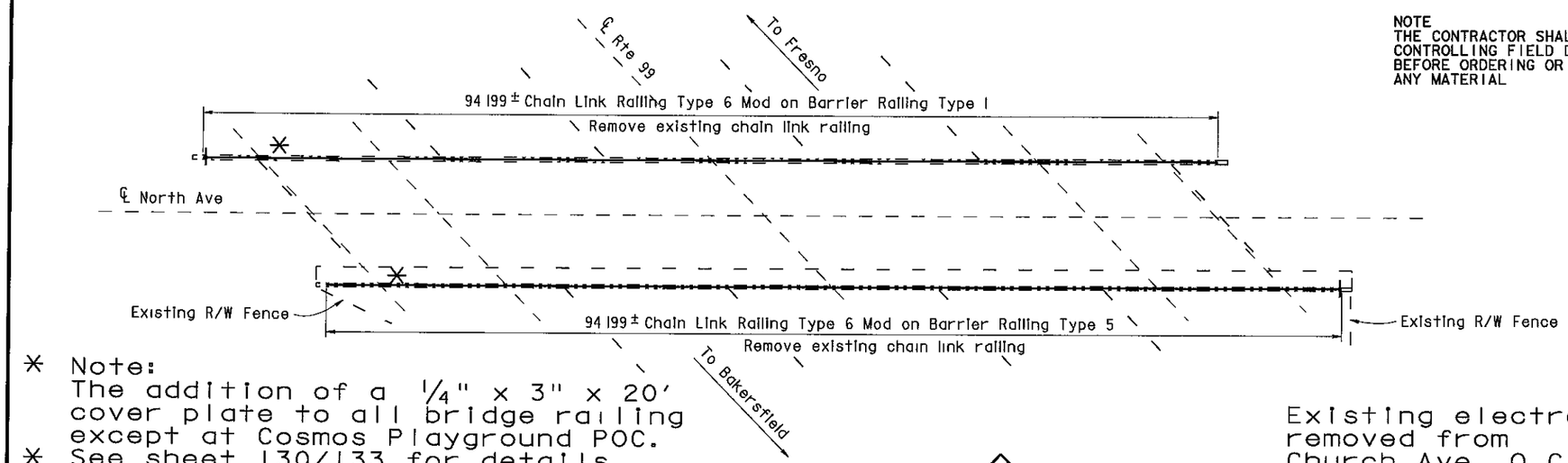
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	123	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DIOSDADO ACOBA
No 52003
Exp 12-31-02
CIVIL
STATE OF CALIFORNIA

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* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

NORTH AVENUE OC

Br No 42-0210, Fre, KP 27 8
1 250

Existing electroliers removed from Church Ave. O.C.

NOTES

— — Indicates existing

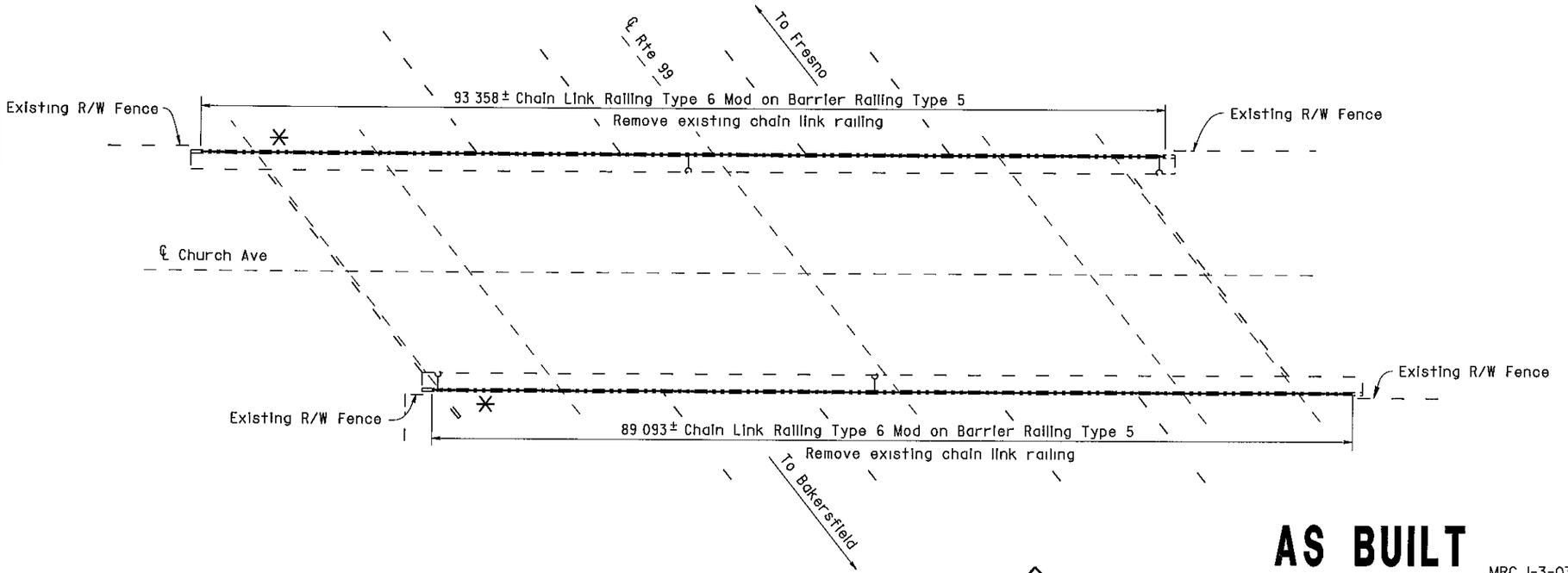
℄ Indicates approximate location of existing electrolier (To remain)

Indicates approximate location of remove and reinstall sign on new post

Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details

INDEX TO PLANS

SHEET NO	TITLE
1	GENERAL PLAN NO 1
2	GENERAL PLAN NO 2
3	GENERAL PLAN NO 3
4	GENERAL PLAN NO 4
5	GENERAL PLAN NO 5
6	GENERAL PLAN NO 6
7	GENERAL PLAN NO 7
8	CHAIN LINK RAILING TYPE 6 MOD NO 1
9	CHAIN LINK RAILING TYPE 6 MOD NO 2
10	CHAIN LINK RAILING TYPE 6 MOD NO 3
11	CHAIN LINK RAILING TYPE 3 MOD



CHURCH AVENUE OC

Br No 42-0214, Fre, KP 30 9
1 250

AS BUILT MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

NORTH AVENUE OC 42-0210
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION A	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	189 m

CHURCH AVENUE OC 42-0214
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION B	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	183 m

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED		BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00	LAYOUT	K Endow	4/00	D Acoba	4/00
DETAILS	K Endow	4/00	F Tannous	5/00				PLANS AND SPECS COMPARED	
QUANTITIES	D Acoba	5/00	F Tannous	5/00	SPECIFICATIONS	J Maroney	9/00	J Maroney	9/00

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 1

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 5/15/00 7/17/00 9/26/00 10/3/00

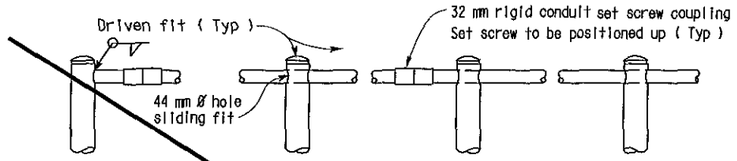
SHEET 1 OF 11

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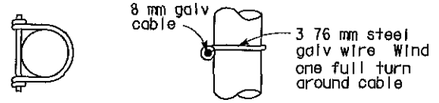
USERNAME -> mgarson DATE PLOTTED -> 02 JAN 2003 TIME PLOTTED -> 16:55

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RELEASED 6-9-98



END POST **INTERMEDIATE POSTS**



PLAN **ELEVATION**

DETAIL H

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
06	Fre	99	23 3/50 7	133	133

10-3-00
REGISTERED ENGINEER - CIVIL

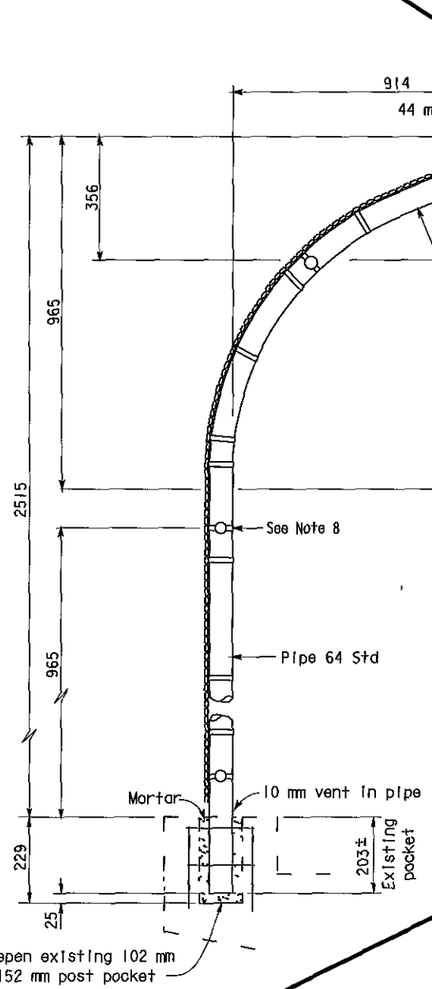
11-13-00
PLANS APPROVAL DATE

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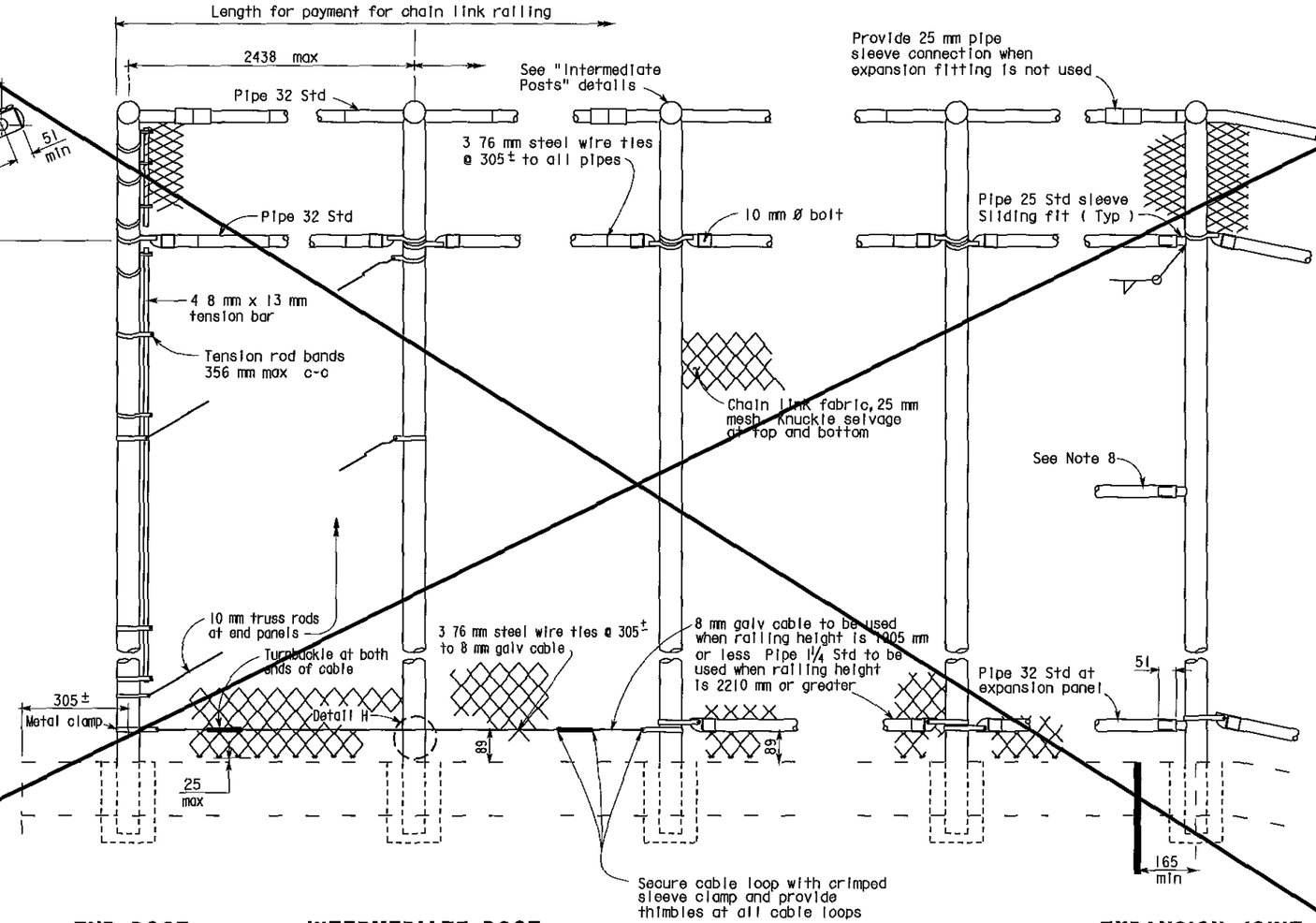
REGISTERED PROFESSIONAL ENGINEER
DIOSDADO ACOBA
No 52003
Exp 12 31 02
CIVIL
STATE OF CALIFORNIA

NOTES:

1 Railing assembly except chain link fabric to be galvanized after fabrication
2 Railing shall conform to horizontal and vertical alignment Posts shall be vertical Horizontal pipes shall be bent if radius is 45 72 m or less may be on 2 438 m chords If radius is over 45 72 m
3 Peen all 10 mm Ø bolts
4 When railing is on slope fabric shall parallel to slope
5 Alternative details may be submitted by Contractor for Engineer's approval
6 Additional pipe 32 std required on radius less than 45 72 m



TYPICAL POST DETAIL



END POST **INTERMEDIATE POST** **EXPANSION JOINT**

ELEVATION

Sheet Deleted

No Type 3 Modified Railing was used on this contract

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

SPECIAL DETAIL

NO SCALE
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

STANDARD DRAWING				
FILE NO XS 9 81	DESIGN BY R W BISHOP	CHECKED J HAMAGUCHI	APPROVAL RECOMMENDED BY	
DRAWING DATE Revised	DETAILS BY R YEE	CHECKED J HAMAGUCHI		
	SUBMITTED BY R W BISHOP		DESIGN SUPERVISOR	

DS OSD 2147A (METRIC) (REV 2/25/97)

1 Revised sheet - removed handrailing and electrical details and notes

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

CU 06105
EA 452001

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
CHAIN LINK RAILING TYPE 3 MOD 1

DISREGARD PRINTS BEARING EARLIER REVISION DATES
REVISION DATES (PRELIMINARY STAGE ONLY) 5/30/00 7/17/00 9/28/00 10/3/00

SHEET 11 OF 11

USERNAME > mgarlson
x5981 dgn
XS981 DGN

DATE PLOTTED > 03-JAN-2003 TIME PLOTTED > 13 32

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	128	133

10/3/00
REGISTERED CIVIL ENGINEER

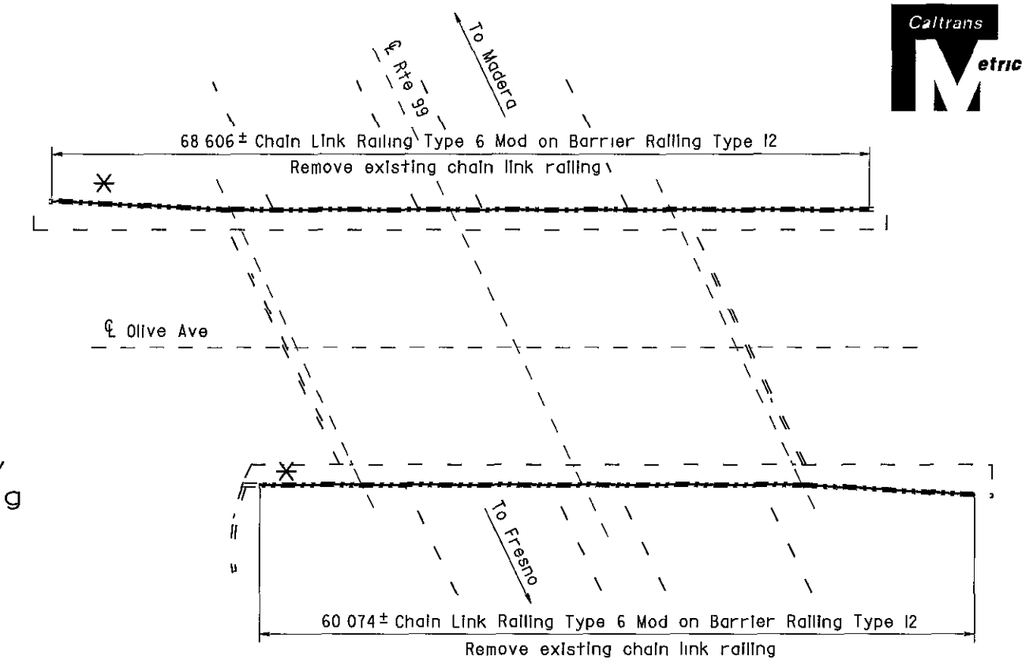
11-13-00
PLANS APPROVAL DATE

DIOSDADO ACOBA No 52003 Exp 12-31 02 CIVIL STATE OF CALIFORNIA REGISTERED PROFESSIONAL ENGINEER

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.



OLIVE AVENUE OC

Br No 42-0187, Fre, KP 37 5
1 250

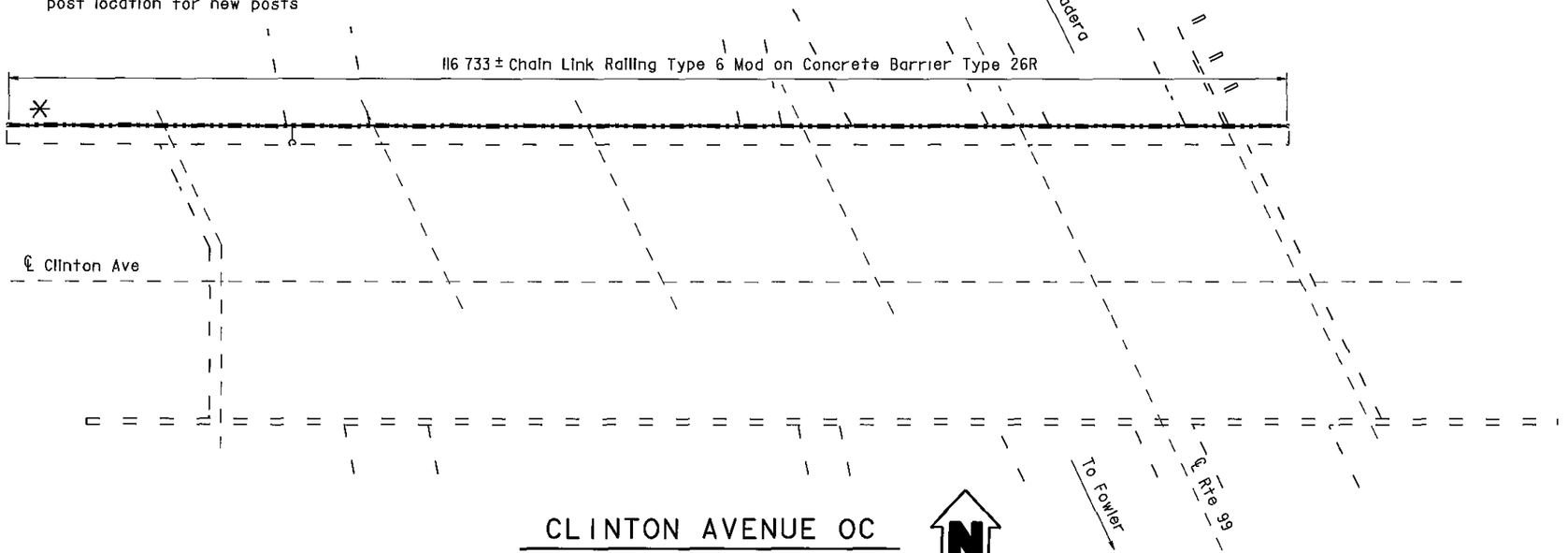
NOTES

— — Indicates existing

℄ Indicates approximate location of existing electrolier (To remain)

Note

Remove existing Chain Link Railing Type 7 core 152 mm x 230 mm deep hole at existing post location for new posts



CLINTON AVENUE OC

Br No 42-0183, Fre, KP 39 3
1 250

OLIVE AVENUE OC 42-0187
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION M	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	129 m

CLINTON AVENUE OC 42-0183
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION N	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	116 m

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED		BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00	LAYOUT	K Endow	4/00	D Acoba 4/00
DETAILS	K Endow	4/00	F Tannous	5/00				
QUANTITIES	D Acoba	5/00	F Tannous	5/00	SPECIFICATIONS	J Maroney	9/00	PLANS AND SPECS COMPARED J Maroney 9/00

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 6

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE => nagp6.dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/17/00 | 9/26/00 | 10/3/00

SHEET 6 OF 11

USERNAME => mcarlson DATE PLOTTED => 03 JAN-2003 TIME PLOTTED => 08 53

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	129	133

10/3/00
REGISTERED CIVIL ENGINEER

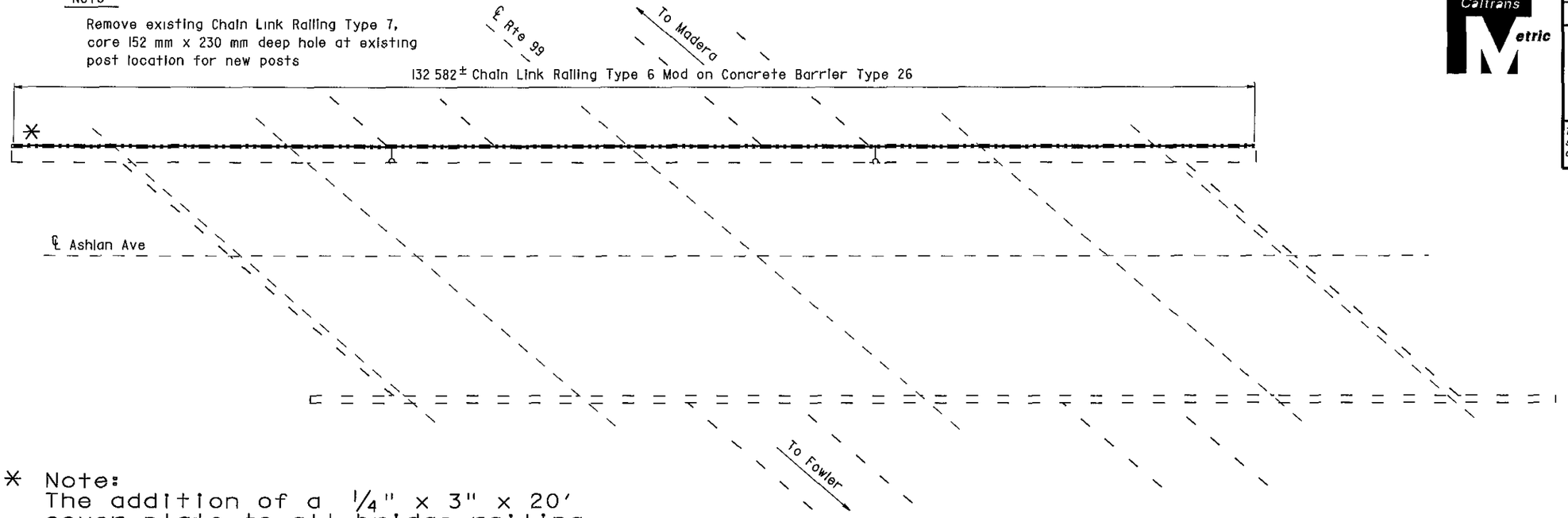
11-13-00
PLANS APPROVAL DATE

DIOSDADO ACOBA No 52003 Exp 12-31-02 CIVIL STATE OF CALIFORNIA

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Note

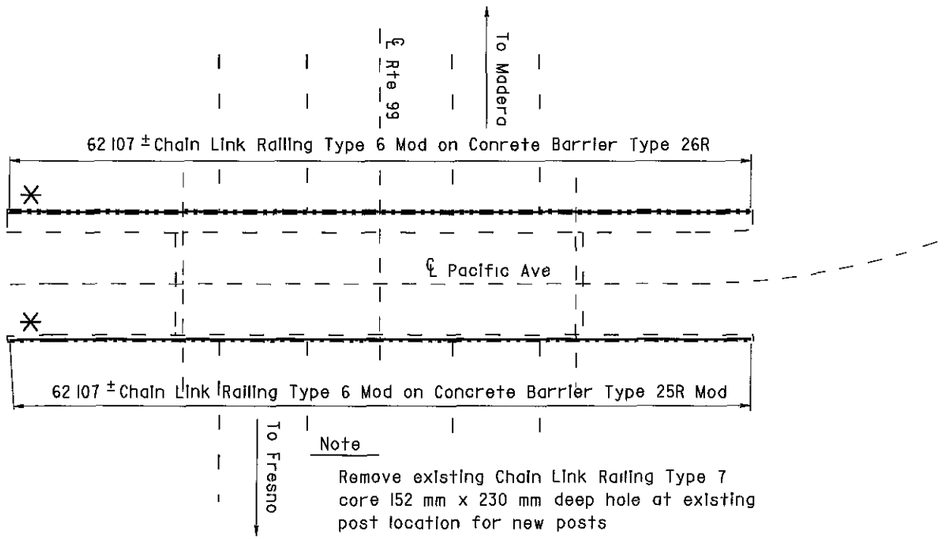
Remove existing Chain Link Railing Type 7, core 152 mm x 230 mm deep hole at existing post location for new posts



* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

ASHLAN AVENUE OC

Br No 42-0140, Fre, KP 42 8
1 250



Note

Remove existing Chain Link Railing Type 7 core 152 mm x 230 mm deep hole at existing post location for new posts

PACIFIC AVENUE OC

Br No 42-0189, Fre, KP 36 0
1 250

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

NOTES

— — Indicates existing

℄ ↓ Indicates approximate location of existing electrolier (To remain)

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

ASHLAN AVENUE OC 42-0140
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION O	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	133 m

PACIFIC AVENUE OC 42-0189
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION P	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	124 m

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

DESIGN	BY D Acoba 4/00	CHECKED F Tannous 5/00	LAYOUT	BY K Endow 4/00	CHECKED D Acoba 4/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE
DETAILS	BY K Endow 4/00	CHECKED F Tannous 5/00					
QUANTITIES	BY D Acoba 5/00	CHECKED F Tannous 5/00	SPECIFICATIONS	BY J Maroney 9/00	PLANS AND SPECS COMPARED J Maroney 9/00		

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 7

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE => nagp7.dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 5/15/00 7/17/00 9/26/00 10/3/00

SHEET 7 OF 11

USERNAME -> mgarrison DATE PLOTTED => 03 JAN 2003 TIME PLOTTED => 11:45

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DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre,Mad	99	17.3/11.1	5	24

BRIDGE ENGINEER — REGISTERED CIVIL ENGINEER NUMBER 8555

ASSISTANT STATE HIGHWAY ENGINEER — REGISTERED CIVIL ENGINEER NUMBER 8555

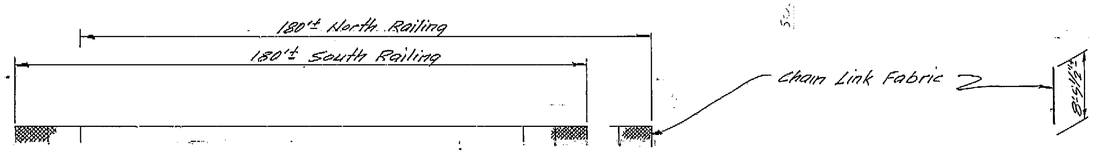
DATE APPROVED December 31, 1973

APPROXIMATE QUANTITIES

REMOVE LIGHTWEIGHT SIGN STRUCTURE	2 EA
MODIFY BRIDGE RAILING (LOCATION B)	360 LF

FINAL PAY QUANTITIES

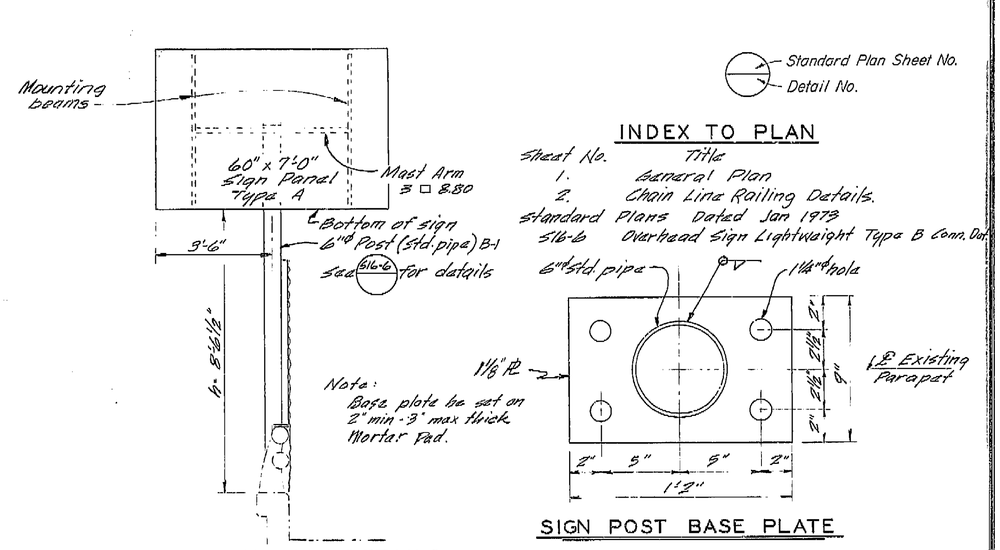
SIGN STRUCTURE (LIGHTWEIGHT)	1,340 LB



ELEVATION

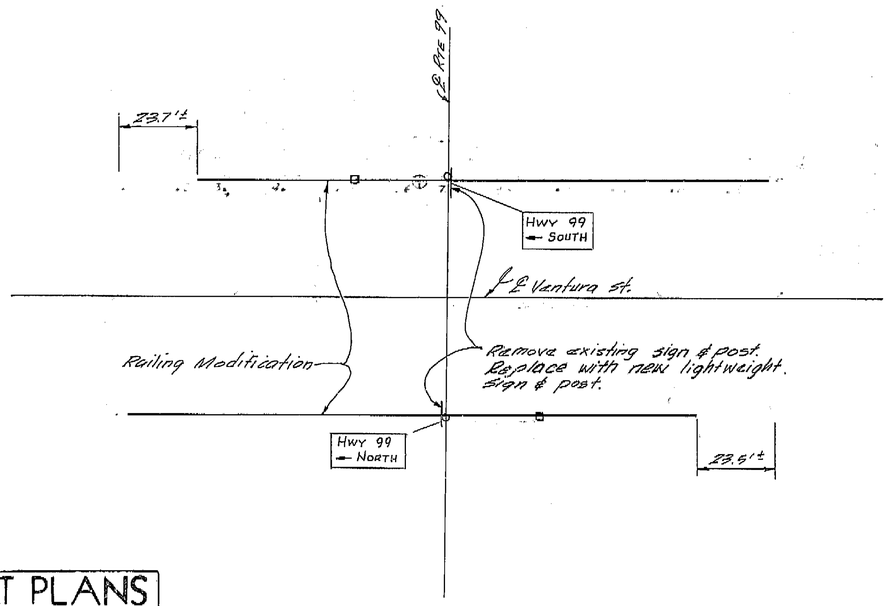
NOTE:
THE CONTRACTOR SHALL VERIFY ALL DEPENDENT DIMENSIONS IN THE FIELD BEFORE ORDERING OR FABRICATING ANY MATERIAL.

TYPICAL SECTION



SIGN POST DETAILS

SIGN POST BASE PLATE



□ Existing Electrolier

PLAN

AS BUILT PLANS
Contract No. 06-127904
Date Completed 7-18-74
Document No.

5

BRIDGE DEPARTMENT
DESIGN SECTION 13
Section Supervisor
Project Engineer Alex Smith

DESIGN	By W. Louie 3/73	Checked	J. Magnotta 7-73
DETAILS	By W. Louie 3/73	Checked	J. Magnotta 7-73
LAYOUT	By W. Louie 3/73	Checked	J. Magnotta 7-73
QUANTITIES	By W. Louie 7/73	Checked	J. Magnotta 12-73
SPECIFICATIONS	By J. Bernert 1/74	Final Set Prepared / Checked	

Approval Recommended by ... SPC Eastwood, Bridge Engineer — Registered Civil Engr. License No. ... 2013

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

VENTURA STREET OVERCROSSING
RAILING MODIFICATION

GENERAL PLAN

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-158	20.19		1	2

WO 127901
CU 06351

AS BUILT PLANS
Contract No. 06-127904
Date Completed 12-73
Document No. 6000 2092

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

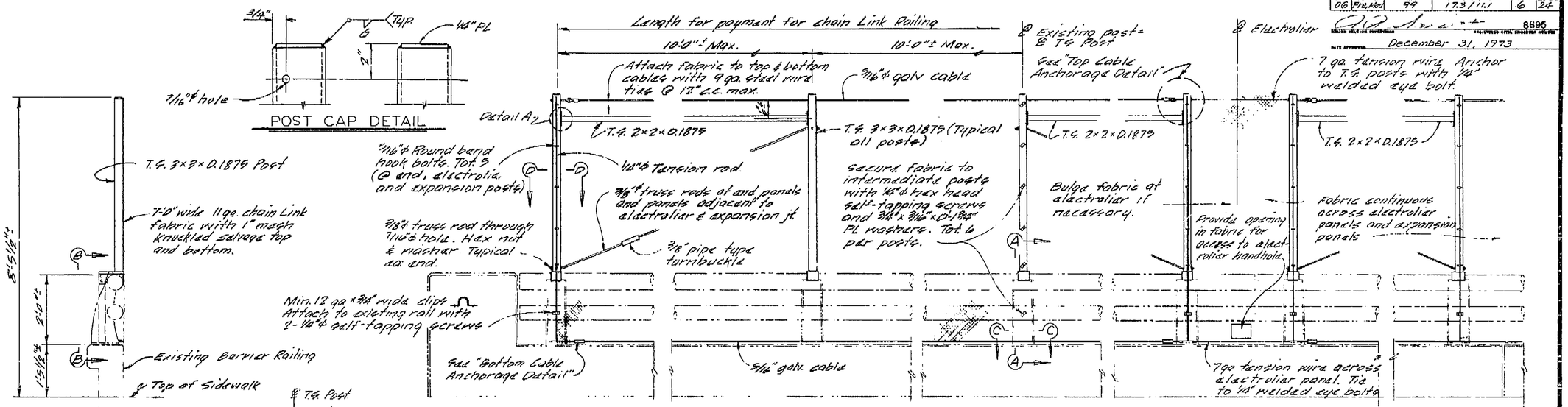
DATE 9-25-74 SIGNATURE [illegible] TITLE [illegible]

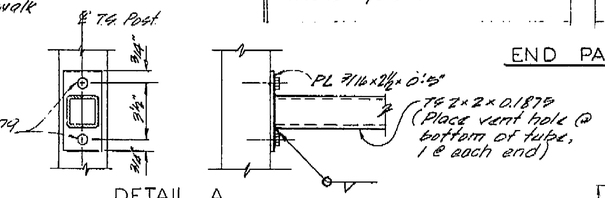
ClibPDF - www.fastio.com

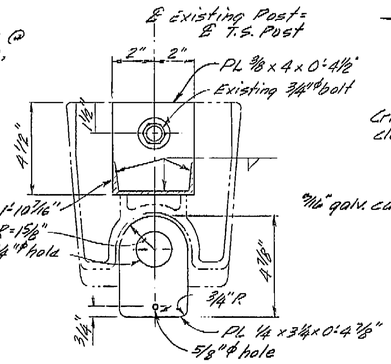
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06	Fre.Mad	99	17.3/11.1	6	24

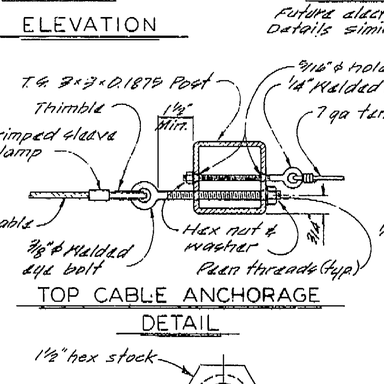
8695

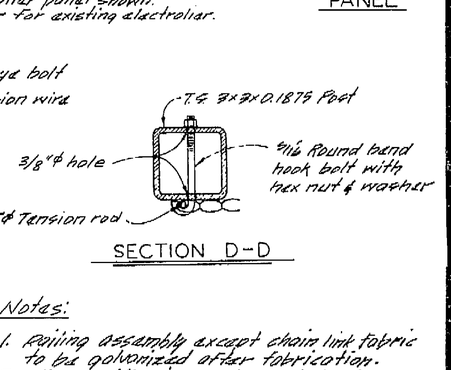
DATE APPROVED December 31, 1973

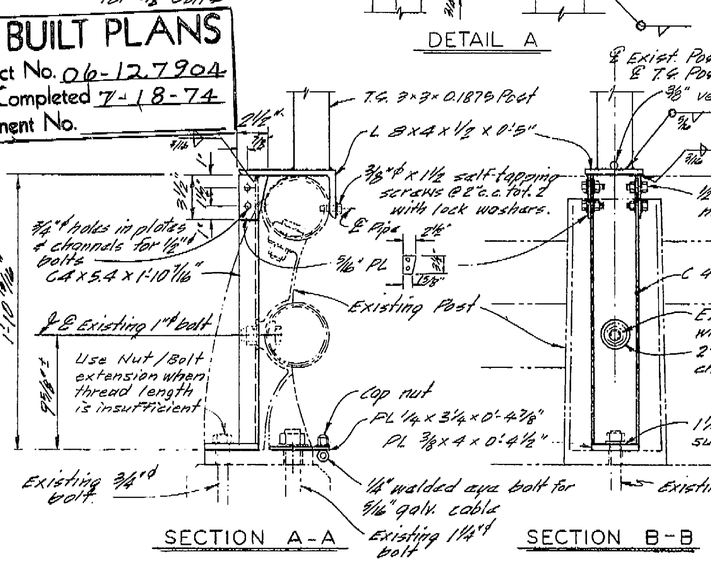


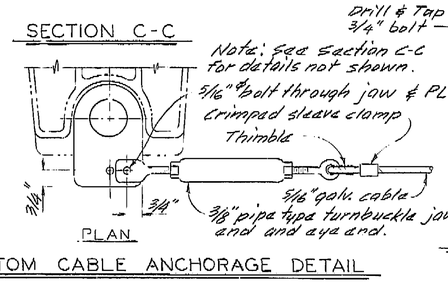


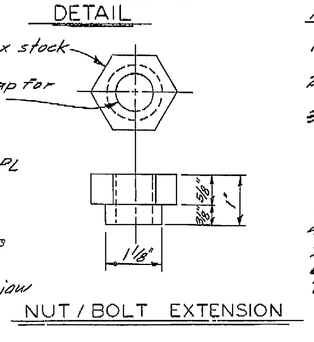












Notes:

1. Railing assembly except chain link fabric to be galvanized after fabrication.
2. When railing is on slope, chain link fabric shall be placed parallel to slope.
3. Post extensions and chain link fabric shall conform to horizontal and vertical alignment. Post extensions shall be vertical. Horizontal pipes shall be bent if radius is 150 ft. or less and may be on 10 ft. chords if radius is over 150 ft.
4. Peen all exposed bolts
5. Provide thimbles at all cable loops.
6. Existing structure shown thus: ———
7. Alternative details may be submitted by contractor for Engineers approval.

RAILING MODIFICATION

④ Existing Type S Barrier Railing with Aluminum Post (7-1-73)

DESIGN	By M. Pohll ve 6/73	Checked [illegible] 6-73	
DETAILS	By K. Endow 6/73	Checked [illegible] 6-73	
QUANTITIES	By W. Louie 7/73	Checked [illegible] 7-73	

State of CALIFORNIA DEPARTMENT OF TRANSPORTATION

BRIDGE DEPARTMENT DESIGN SECTION 13

PROJECT ENGINEER [illegible]

BRIDGE NO. 42-158

POST MILE 20.19

VENTURA STREET OVERCROSSING

CHAIN LINK RAILING DETAILS

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU WO

Disregard prints bearing earlier revision dates

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 6 OF 6

6

AS BUILT PLANS
Contract No. 06-127904
Date Completed 7-18-74
Document No.

AS BUILT PLANS
Contract No. 06-127904
Date Completed 12-73
Document No. 6 on 2092

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 9-25-74 SIGNATURE [illegible] TITLE [illegible]

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VI	Fre	99

U-006-2 (6)
F-006-2 (5)

FED. ROAD DIV. No.	STATE	F. A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.		392	424

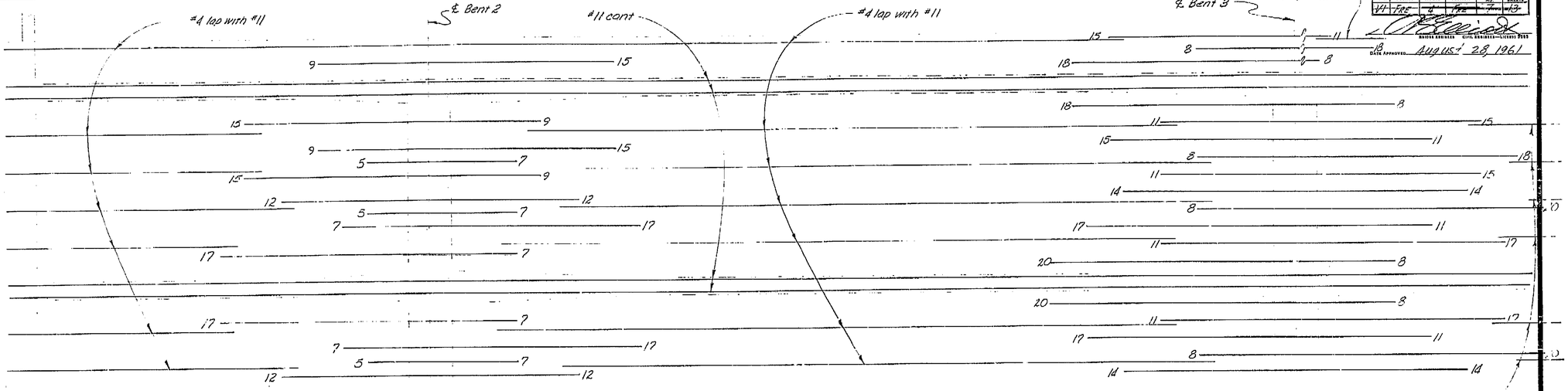
DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	Fre	99			

DATE APPROVED August 28, 1961

Typical Exterior Girder

Typical Interior Girder

#4 lap with #11 — ℄ Bent 2 — #11 cont. — #4 lap with #11 — ℄ Bent 3 — #4 lap with #11



TOP REINFORCEMENT

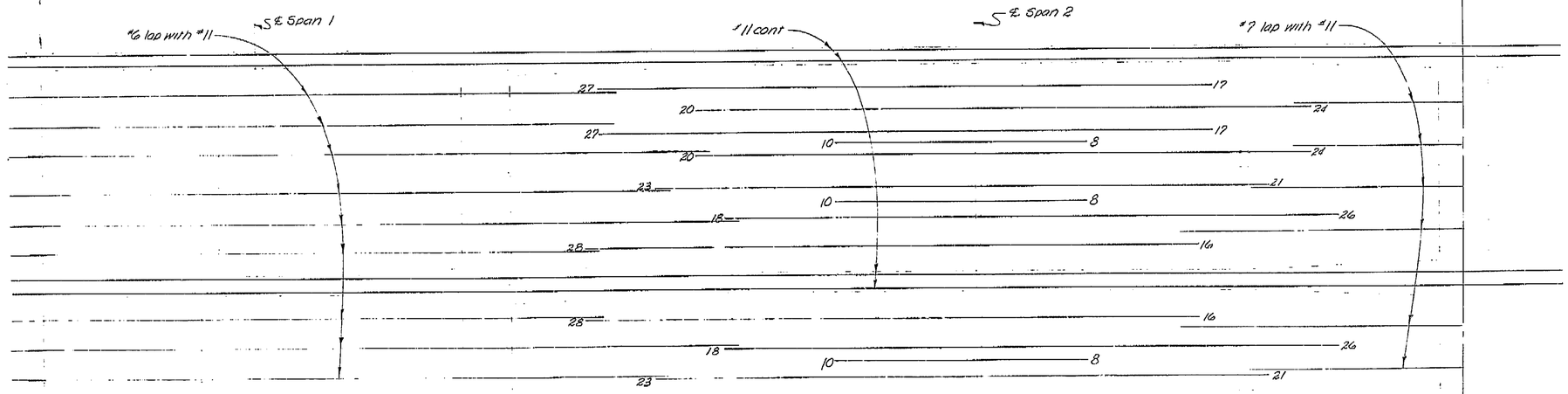
#4 lap with #11

Top and Bottom Reinforcement symmetrical about ℄ Bent 3 except as shown.

#6 lap with #11 — ℄ Span 1 — #11 cont. — ℄ Span 2 — #7 lap with #11

Typical Exterior Girder

Typical Interior Girder



BOTTOM REINFORCEMENT

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

392

Note: All bars are #11 except as noted. Numbers at ends of bars indicate distance in feet from ℄ Bent for Top Reinforcement or from ℄ Span for Bottom Reinforcement.
No splicing of #11 bars permitted near ℄ Bent in Top Reinforcement or near ℄ Span in Bottom Reinforcement.

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer: Earl E. Fortune
Chief Designer: M. J. Markwart

DESIGN	By ED Berry 10/60	Checked	Ray McTyre 11/60
DETAILS	By ED Berry 10/60	Checked	Ray McTyre 11/60
QUANTITIES	By [illegible] 6/61	Checked	ED Berry 7/61
SPECIFICATIONS	By	Time and Items Completed	

Approval Recommended by: [signature] Engineer of Design — Civil Engr. License No. 8489

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

VENTURA STREET OVERCROSSING

GIRDER REINFORCEMENT

SCALE None	BRIDGE 42-158	FILE	DRAWING C-42158-7

Disregard prints bearing earlier numbers → PREL. DRAWING No. P-42-158-0 (1/5)

36

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL OF THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-13-72 SIGNATURE [signature] TITLE [illegible]

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V1 Fre 99

U-006-2(6)
F-006-2(5)

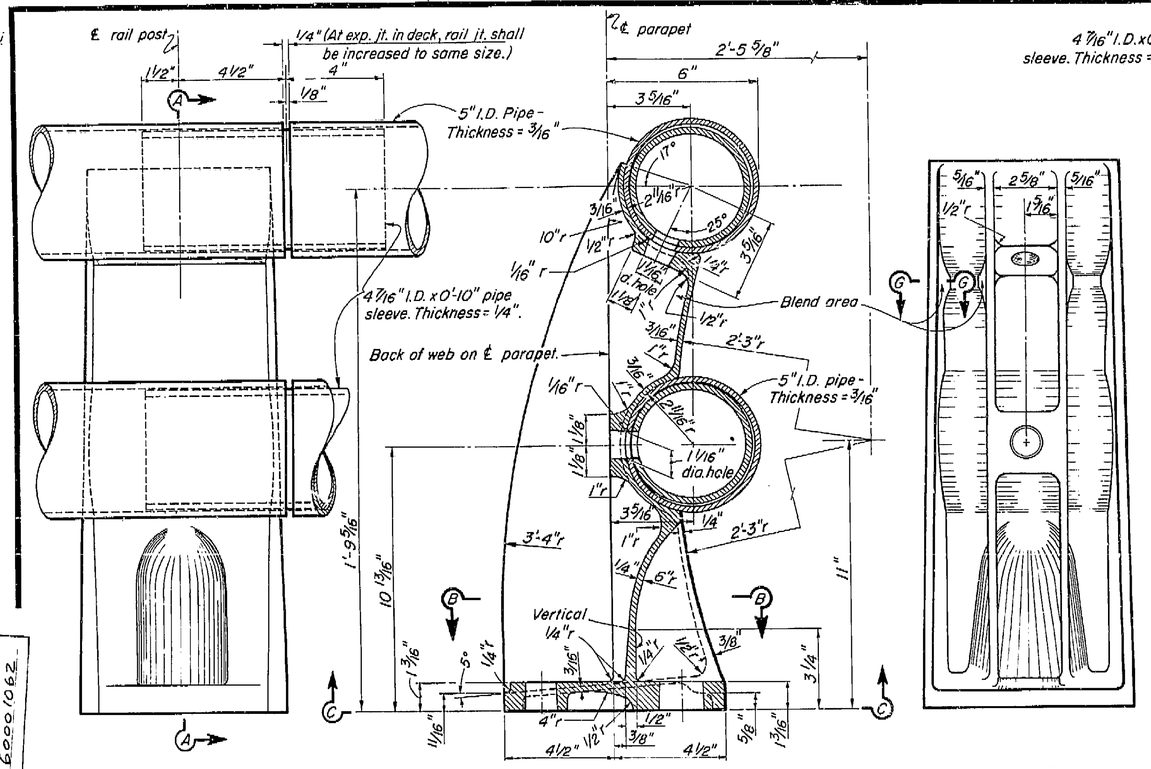
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7	CALIF.			396

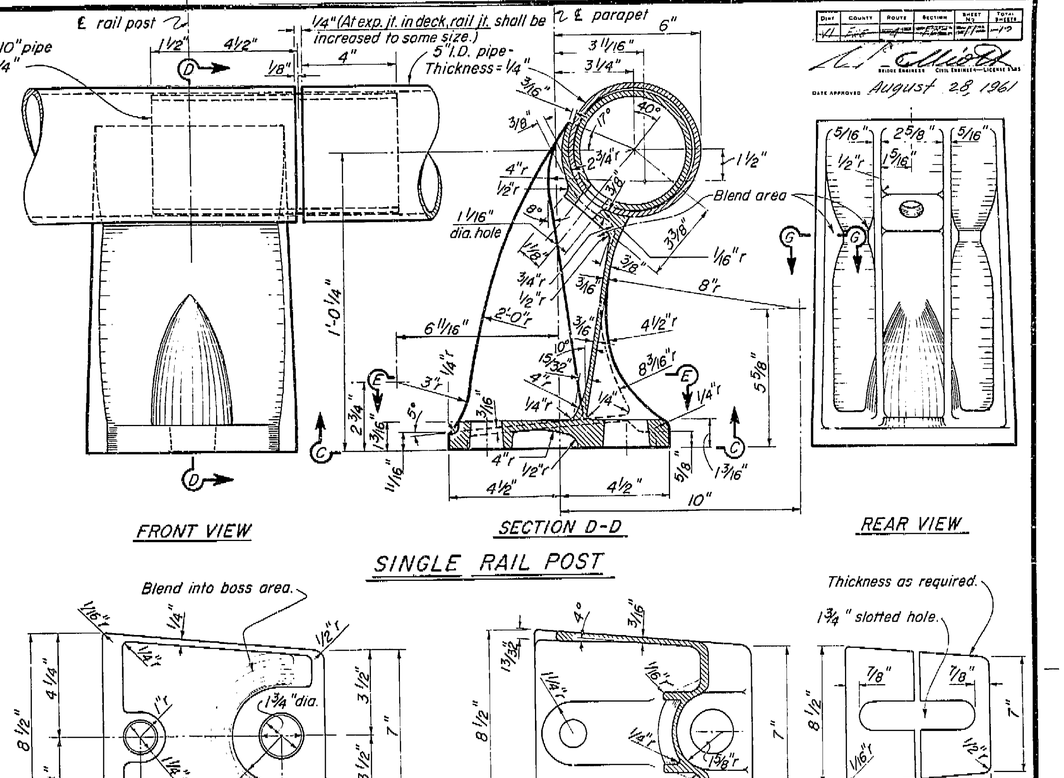
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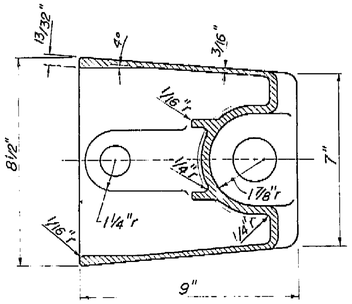
DATE APPROVED August 28 1961

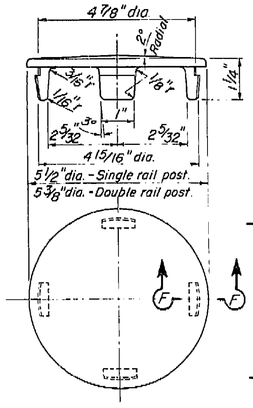
...-Added ½"r on ...tion A-A & D-D." ...ded 2¾" long dim.; "Rail Connection" ...del 60 RTK

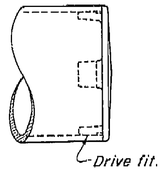
AS BUILT PLANS
Contract No. 62-671353
Date Completed
Document No. 6000 1062

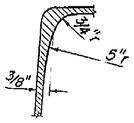


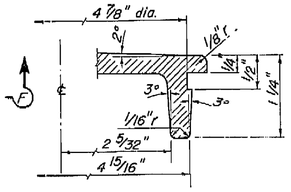


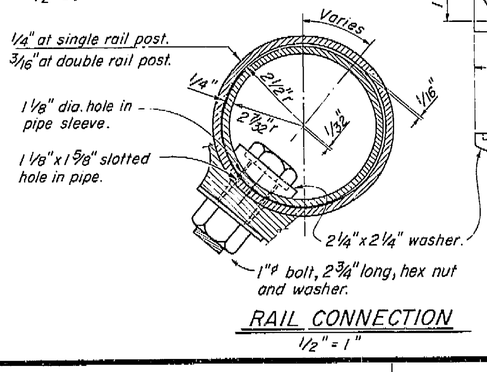












Notes:

1. At the option of the contractor, material for the railing shall be one of the following:
   a. Aluminum pipe rail and cast aluminum post.
   b. Steel pipe rail and cast steel post. Rail and posts to be galvanized. Steel pipe rail shall be 3/16" thick with 5" I.D. Rail post dimensions shall be revised as necessary to fit the steel pipe.
2. Shims are to be of asbestos sheet packing.
3. For railing on a horizontal curve the pipe rail shall be bent to the curve or the spacing of posts adjusted so that the middle ordinate between posts will not exceed 1".

AS BUILT PLANS HAS BEEN REVISED TO ... AS WAS REQUIRED ... MY KNOWLEDGE

BRIDGE DEPARTMENT DESIGN SECTION			
Section Supervisor	W.J. Jurkovich		
DESIGN	by E.D. Berry	11/60	
	Detail Ray M. Tye	11 60	
DETAILS	by E.D. Berry	11/60	
	Detail Ray M. Tye	11 60	
QUANTITIES	by W.J. Jurkovich	1-61	
	Detail E.D. Berry	1-61	

11/60

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

VENTURA STREET OVERCROSSING

BARRIER RAILING SHEET 2

Except as noted
Scale 3/8" = 1"

Bridge 42-153

XS-9-71
File

Drawing C-42158-11

Disregard prints bearing earlier numbers →

PREL. DRAWING No. P-42153-12 11/4/61

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

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M-FILM STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS MICROFILM

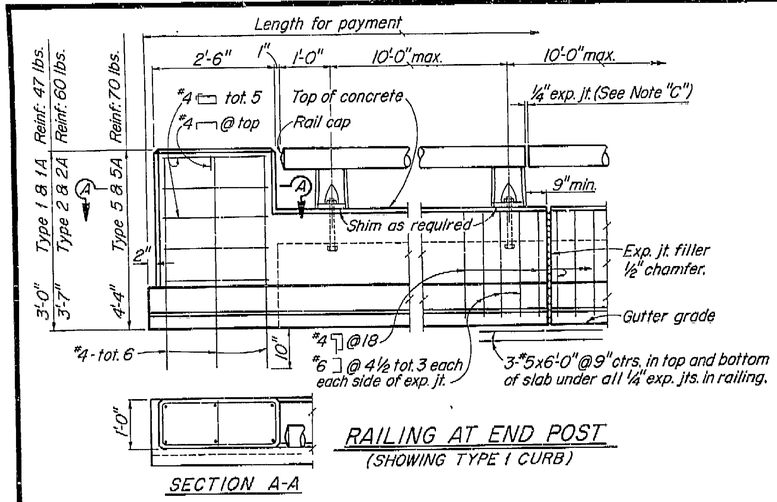
VI | Fre | 99

U-006-2 (6)
F-006-2 (5)

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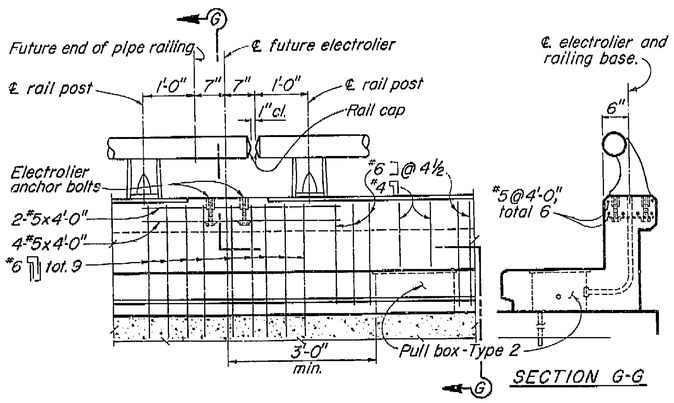
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11	Fre	4	~~Fresno~~	10F	14

DATE APPROVED August 28, 1961



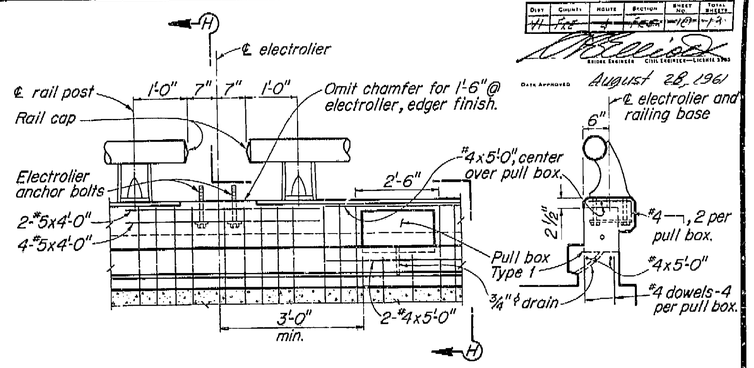
RAILING AT END POST
(SHOWING TYPE 1 CURB)

SECTION A-A



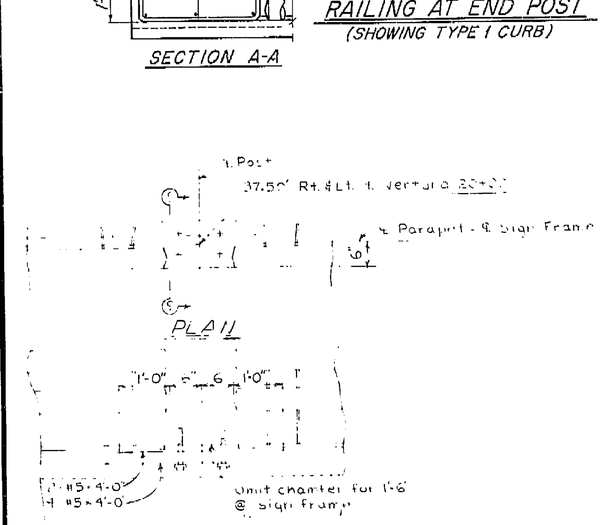
RAILING CLOSURE AT ELECTROLIER
(SHOWING TYPE 2 CURB)

SECTION G-G

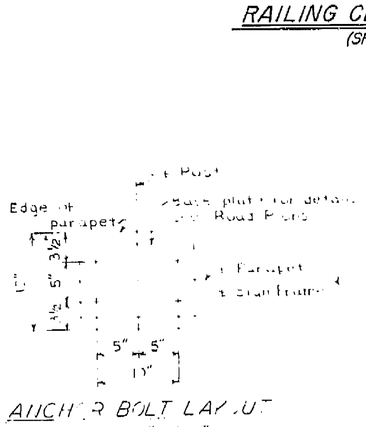


RAILING AT ELECTROLIER
(SHOWING TYPE 1 CURB)

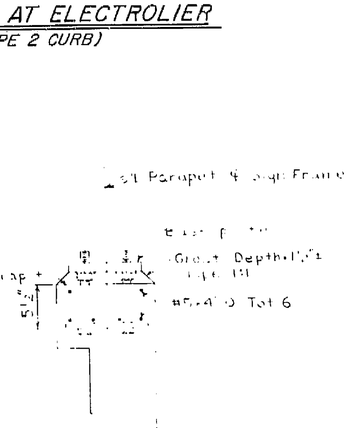
SECTION H-H



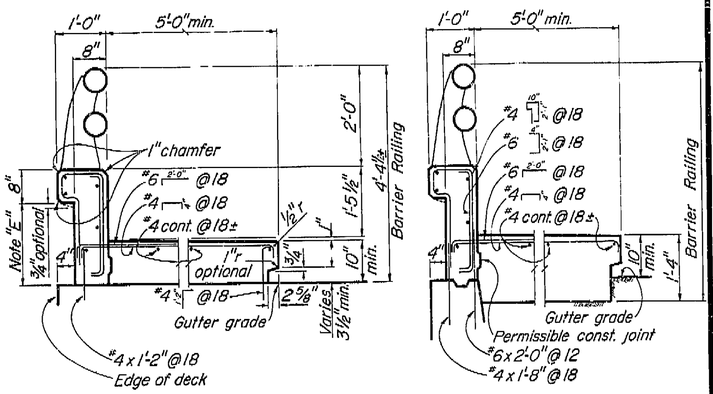
ELEVATION
RAILING AT SIGN FRAME



ANCHOR BOLT LAYOUT
Scale: 1 1/2" = 1'-0"



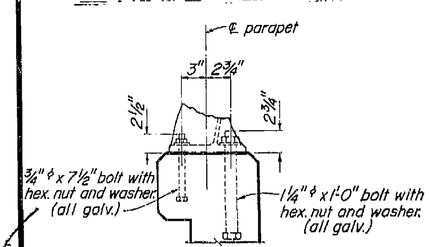
SECTION C-C
Scale: 1 1/2" = 1'-0"



TYPE 5
Conc. 6.10 cu.ft./lin.ft.
Reinf. 17.2 lbs./lin.ft.
— For 5'-0" width —
TYPE 5A
Conc. 8.35 cu.ft./lin.ft.
Reinf. 19.7 lbs./lin.ft.

Conc. 0.84 cu.ft./lin.ft.
Reinf. 2.1 lbs./lin.ft.
— Per additional ft.(width) —
Conc. 1.34 cu.ft./lin.ft.
Reinf. 2.1 lbs./lin.ft.

CURB AND RAIL SECTIONS



RAIL POST ANCHOR BOLT DETAIL
Scale: 1 1/2" = 1'-0"

STANDARD DRAWING
DETAILS
Approved Nov. 1959
W. J. Hall
Supersedes Plan No. 1729

Note:
A. Railing shall conform to horizontal and vertical alignment.
B. Posts shall be normal to railing.
C. Curb and wall exp. jts. to be located at all deck joints, at ℄ piers or bents and at uniform spacing (40' max.) between those specified. Joint size to be 1/4" min. and increased to match deck joints.
D. Construct 3" deep x 12" wide overflow scupper 2" above deck at low points in grade.
E. Dimension will vary with cross-slope of deck.
F. Walls are to be backfilled before railing is placed.
G. Clearance to reinforcing steel in curb and railing to be 1".

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

BRIDGE DEPARTMENT		
DESIGN SECTION		
Section Supervisor W. J. Leonhardt		
DESIGN	By E. C. Berry	11/60
	Checked Ray Mc Tyre	11 60
DETAILS	By E. D. Berry	11/60
	Checked Ray Mc Tyre	11 60
QUANTITIES	By E. C. Berry	11/60
	Checked E. D. Berry	11/60

10/60
STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

VENTURA STREET OVERCROSSING

BARRIER RAILING SHEET 1

Except as noted SCALE 3/4"=1'-0" | BRIDGE 42-153 | XS-9-63 FILE | DRAWING

Disregard prints bearing earlier numbers → PREL. DRAWING No. P-42158-41 | 1/23/61 | 4/20

356

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DATE _____ SIGNATURE _____ TITLE _____

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Revision: 9-22-60
Made #8 bar cont. in Detail J-1. ETK.

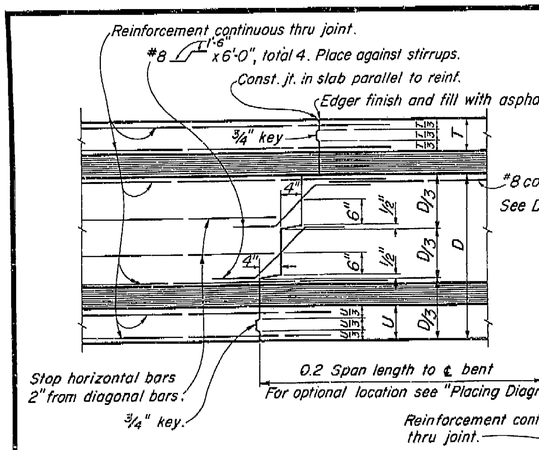
VI | Fre | 99

U-006-2(6)
F-006-2(5)

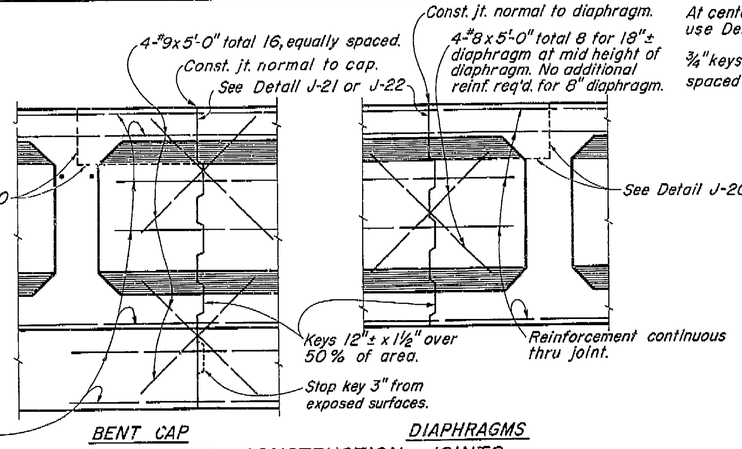
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7	CALIF.			393	424

DIST	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI		4			13

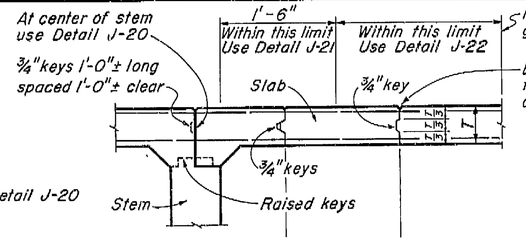
DATE APPROVED August 28, 1961

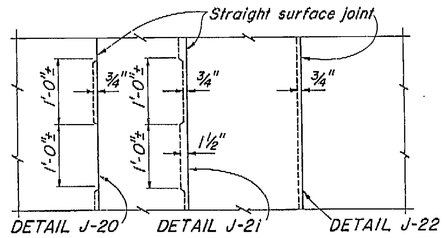


TRANSVERSE GIRDER CONSTRUCTION JOINTS
DETAIL J-3



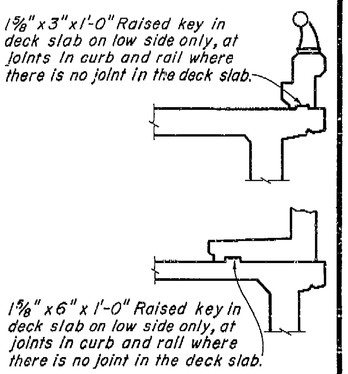
BENT CAP LONGITUDINAL CONSTRUCTION JOINTS DIAPHRAGMS
DETAIL J-4





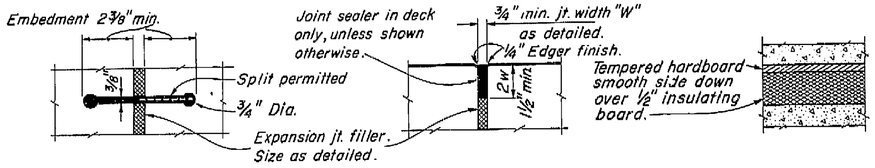
DECK SLAB
LONGITUDINAL CONSTRUCTION JOINTS

Note: Longitudinal construction joints in slab, if required, are to be located at edge of traffic lanes except as approved by the Engineer.



CURB AND SIDEWALK EXPANSION JOINT
DETAIL C-1

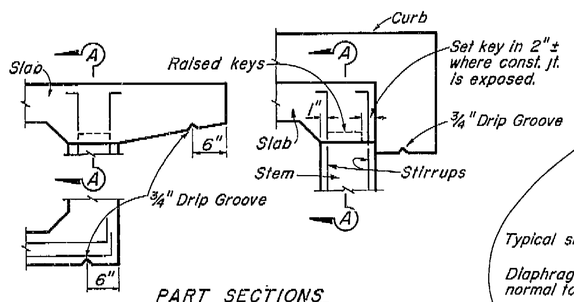
AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 6000 1062



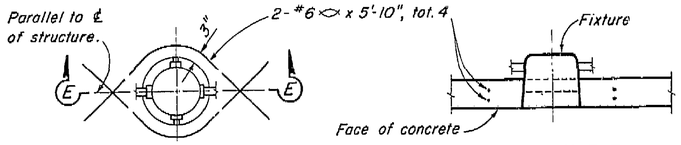
RUBBER WATERSTOP
DETAIL W-1

SEALED EXPANSION JOINT
DETAIL L-1

DETAIL M-1

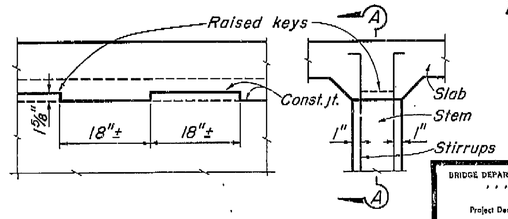


PART SECTIONS
EXTERIOR GIRDER WITH SLAB CANTILEVER
EXTERIOR GIRDER WITH CURB



ADDED REINFORCEMENT
RECESSED SOFFIT LIGHT
DETAIL F-1

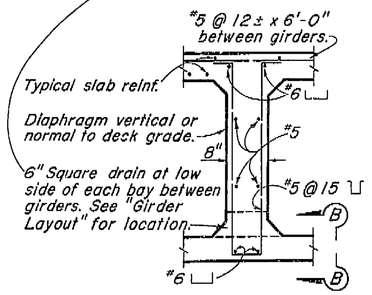
SECTION E-E



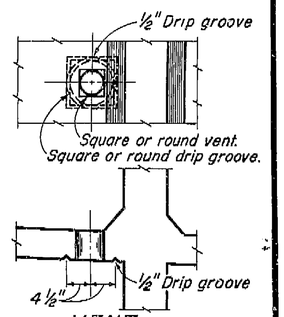
SECTION A-A
PART SECTION INTERIOR GIRDER

KEY-GIRDER STEM TO SLAB
DETAIL J-5

SECTION B-B



INTERMEDIATE DIAPHRAGM SECTION
DETAIL D-1



VENT
DETAIL V-1

Note:
5" ϕ Vent in lower slab.
Min. of two vents per span in each bay between girders. One vent to be located at low point of span and other vent to be located at opposite end of span @ 1'-6" from face of Abutment or Bent. See "Girder Layout."

STANDARD DRAWING
Drawn: W. B. O'Hara
Chief Draftsman:
DESIGN
DETAILS
QUANTITIES
SPECIFICATIONS
Approved & Recommended: W. J. Yenkevich
Date: 6-29

THIS SET OF PLANS HAS BEEN CORRECTED TO ... "AS BUILT" PRINTS DATED ... SUBMITTED BY RESIDENT ...
CORRECTED BY: ____ DATE: ____

BRIDGE DEPARTMENT
DESIGN SECTION "J" 2
Project Designer: E. C. Lindstrom
Chief Designer: W. J. Yenkevich

DESIGN	By E.D. Berry 10-60	Checked	Roy Mc Tye 11/60
DETAILS	By E. C. Lindstrom 10-60	Checked	Roy Mc Tye 11/60
QUANTITIES	By C. F. Swanson 10-60	Checked	E.D. Berry 11/60
SPECIFICATIONS	By	Plans and Bons Completed	

Appeal Recommended by: Roy Hutchinson, Engineer of Design — Field and Structural Unit, Lincoln, Nb. — 5839 613

9/60
STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

VENTURA STREET OVERCROSSING

STANDARD DETAILS NO. 1 (BOX GIRDER)

SCALE NONE | BRIDGE 42-158 | XS-16-22 FILE | DRAWING C-42158-8

PREL. DRAWING No. P-42-158-10 11/60

384

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE ____ SIGNATURE ____ TITLE ____

ClibPDF - www.fastio.com

VI | Fre | 99

U-006-2(6)
F-006-2(5)

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			386	424

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	[illegible]	[illegible]	[illegible]	424

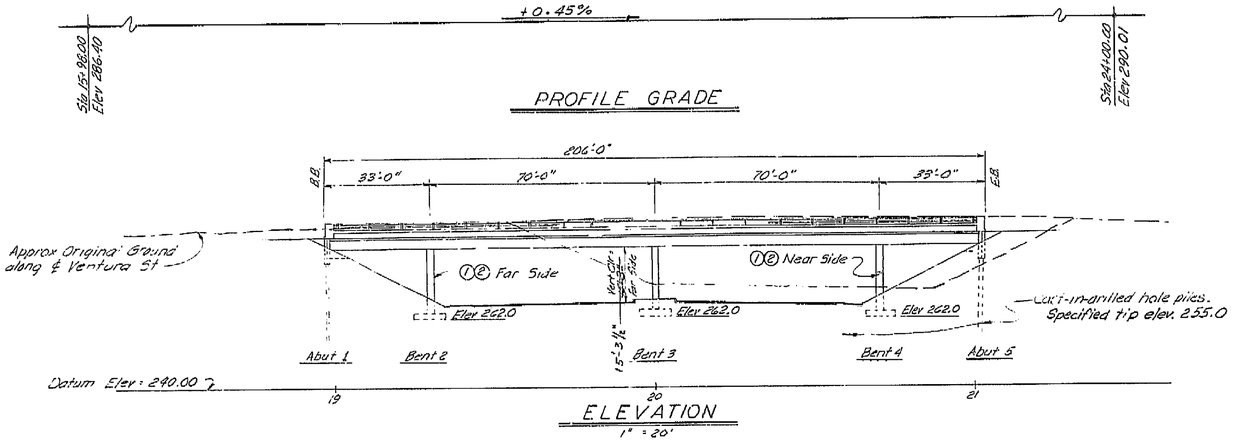
P.M. 20.2

99

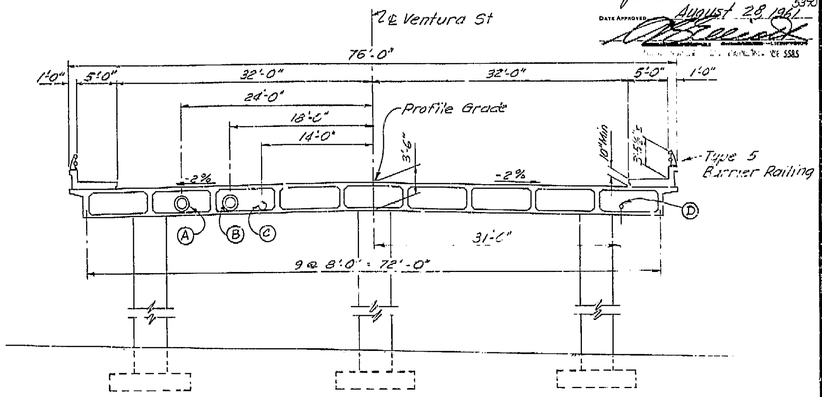
[signature] 530
ASSISTANT STATE HIGHWAY ENGINEER — CIVIL ENGINEER LICENSE NO.

DATE APPROVED August 28 1963

[signature] RCE 5585



ELEVATION
1" = 20'



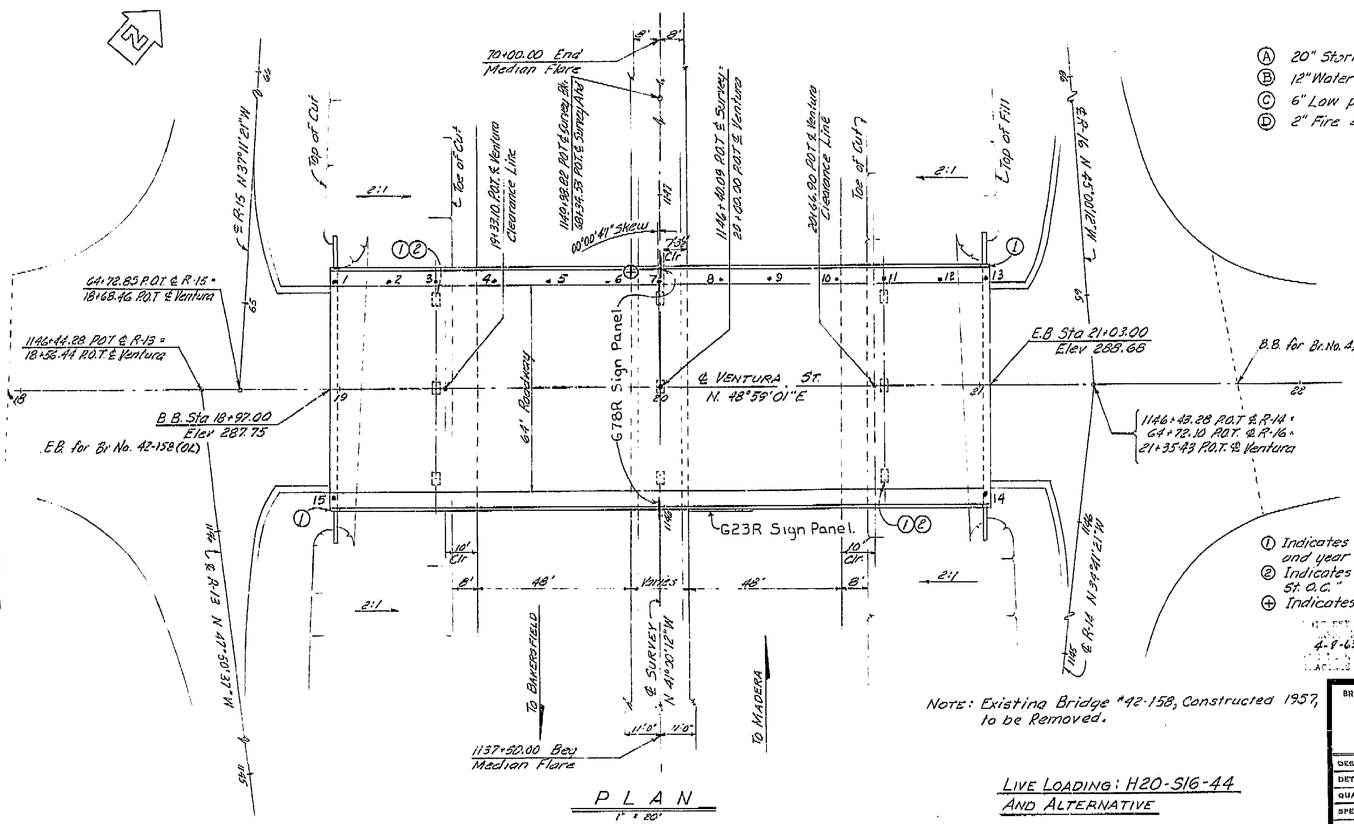
TYPICAL SECTION
⅜" = 1'-0"

Ⓐ 20" Storm Drain Casing (See "Road Plans")
Ⓑ 12" Water main in 20" casing, City of Fresno.
Ⓒ 6" Low pressure Gas main in 10" casing, PG & E.
Ⓓ 2" Fire alarm system conduit, City of Fresno. (See Road Plans)

APPROXIMATE QUANTITIES

REMOVING BRIDGE	LUMP SUM
*STRUCTURE EXCAVATION (BRIDGE)	610 C.Y.
*STRUCTURE BACKFILL (BRIDGE)	310 C.Y.
16" C.I.D.H. CONCRETE PILING	345 L.F.
*CLASS "A" CONCRETE (BRIDGE)	1,095 C.Y.
BARRIER RAILING (TYPE 5)	412 L.F.
*REINFORCING STEEL (BRIDGE)	315,000 LBS.

*FINAL QUANTITIES



PLAN
1" = 20'

Note: Existing Bridge #42-158, Constructed 1957, to be Removed.

LIVE LOADING: H20-S16-44 AND ALTERNATIVE

INDEX

Final Elevs Copper Nails	SHEET NO.	TITLE
1. 287.930	1.	General Plan
2 287.994	2.	Grid of Deck Elevations
3. 288.104	3.	Foundation Plan
4 288.177	4.	Abutment Details
5. 288.263	5.	Bent Details
6. 288.316	6.	Typical Section & Girder Layout
7 288.385	7.	Girder Reinforcement
8. 288.466	8.	Standard Details No.1
9 288.591	9.	Standard Utility Details No.1
10. 288.659	10.	Barrier Railing Sheet 1
11. 288.699	11.	Barrier Railing Sheet 2
12. 288.673	12.	Log of Test Borings
13. 288.659	13.	Existing Bridge
14. 288.863		
15. 287.914		

Note: For details of G23R sign brackets and G78R sign frames, see "Road Plans".
For anchor bolt layout and pedestal details for G78R signs, see "Barrier Railing Sheet 1."

Note: Route Change (VI-Fre-99)

Ⓘ Indicates location for painting Bridge Number and year constructed
Ⓒ Indicates location for painting "Ventura St. O.C."
⊕ Indicates point of minimum vertical clearance

4-8-63 J. W. Beck
DATE DESIGNED BY DATE CHECKED BY

For General Notes see "Grid of Deck Elevations" Sheet

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer [signature]
Chief Designer [signature]

DESIGN	By E.D. Berry 10/20	Checked Roy McTyre 10/60	
DETAILS	By K.C. Blechinger 10/60	Checked Roy McTyre 11/60	
QUANTITIES	By [illegible] 11/62	Checked E.D. Berry 11/62	
SPECIFICATIONS	By [illegible] 4/63	Plans and Specs. Completed	

Approval Recommended by [signature] Chief of Design — Full and Effective Engr. License No. 5539

Contract #62-6T123-F STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

VENTURA STREET OVERCROSSING
LOCATED IN THE CITY OF FRESNO

GENERAL PLAN

SCALE: AS NOTED | BRIDGE 42-158 | FILE | DRAWING C-42158-1

PREL. DRAWING No. P-42158-1

377

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 6000106Z

356

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1/11/72 SIGNATURE [signature] TITLE [illegible]

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"= 50' SCALE 1"= 20'
ClibPDF - www.fastio.com

V-006-2 (6)
F-006-2 (5)

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	99		397	424

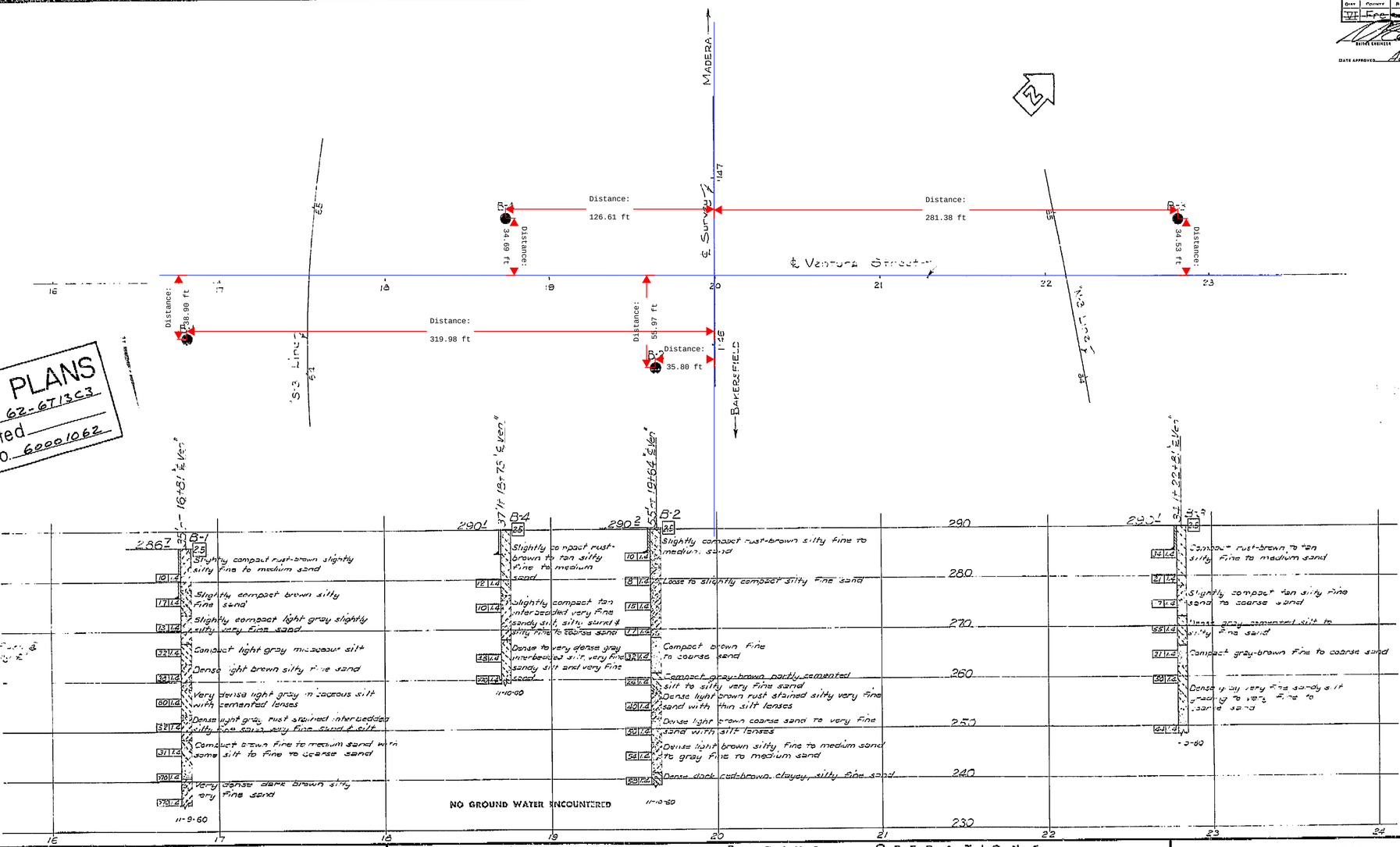
FED. ROAD DIV. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.			397	424

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	99		397	424

DATE APPROVED August 28, 1961

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

BRIDGE DEPARTMENT



CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS

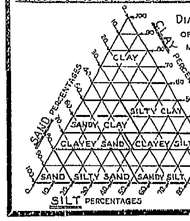


DIAGRAM SHOWING THE BASIS FOR ESTIMATES OF GRADE SIZE DISTRIBUTION USED IN DETERMINATION OF CLASS NAMES.

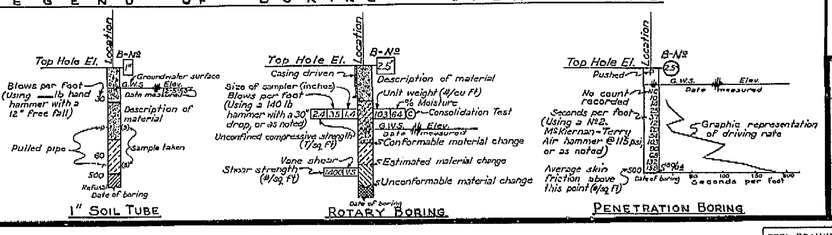
IF GRAVEL IS PRESENT IN APPRECIABLE AMOUNTS THE TERM "GRAVELLY" MAY BE ADDED TO THE CLASS NAME, VIZ, "GRAVELLY SAND." THE TERMS "COARSE", "MEDIUM" AND "FINE" WHEN USED TO DESCRIBE SAND, SILT AND GRAVEL REFER TO STANDARD GRADE SIZE LIMITS.

LEGEND OF EARTH MATERIALS

- GRAVEL
- SAND
- SILT
- CLAY
- SANDY CLAY OR CLAYEY SAND
- SANDY SILT OR SILTY SAND
- SILTY CLAY OR CLAYEY SILT
- PEAT AND/OR ORGANIC MATTER
- FILL MATERIAL
- IGNEOUS ROCK
- SEDIMENTARY ROCK
- METAMORPHIC ROCK

LEGEND OF BORING OPERATIONS

- PLAN OF ANY BORING
- P Penetrometer
- 2½" Cone Penetrometer
- S Sampler boring (dry)
- R Rotary boring (wet)
- A Auger boring (dry)
- J Jet boring
- C Core boring
- Test pit



NOTE

Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

VENTURA STREET OVERCROSSING

LOG OF TEST BORINGS

SCALE	BRIDGE	FILE	DRAWING
Horiz. 1"=30' Vert. 1"=10'	42-158 OL 42-158 OR		5-42158-12

PREL. DRAWING NO. P-42158-33 1/2/61

50-494-3 3-61

397

FIELD STUDY	H. Mills	2-60
DRAWN	A. Smith	2-60
CHECKED	A. Miller	2-60

Approved Recommended for Approval: [illegible] Materials Engineer

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE [illegible] SIGNATURE [illegible] TITLE [illegible]

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VI	Fre	99

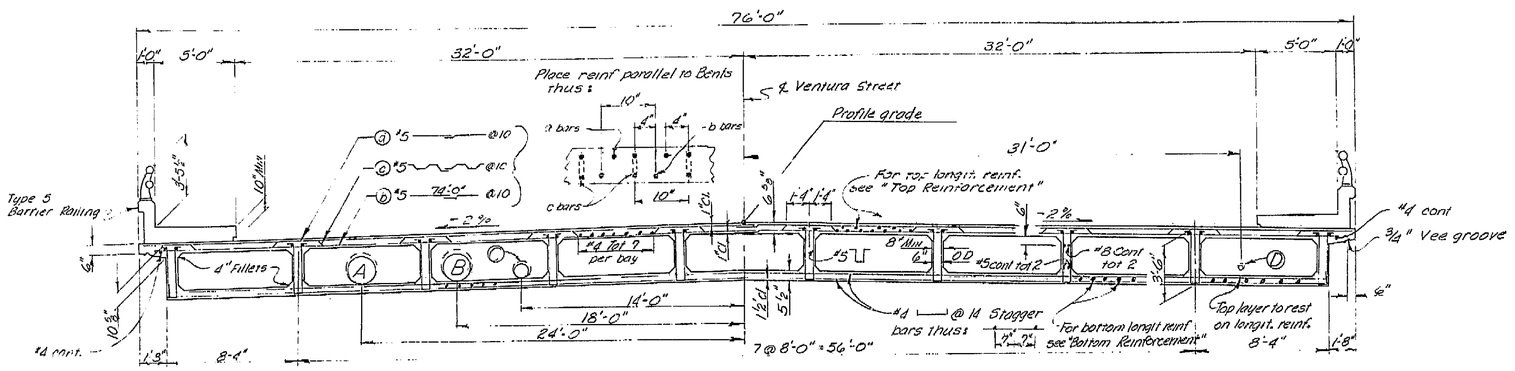
U-006-2 (6)
F-006-2 (5)

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7	CALIF.		391	424

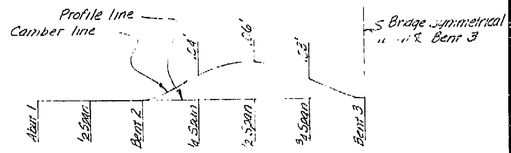
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre				

Bridge Engineer — Civil Engineer—License 8430

DATE APPROVED August 28, 1961

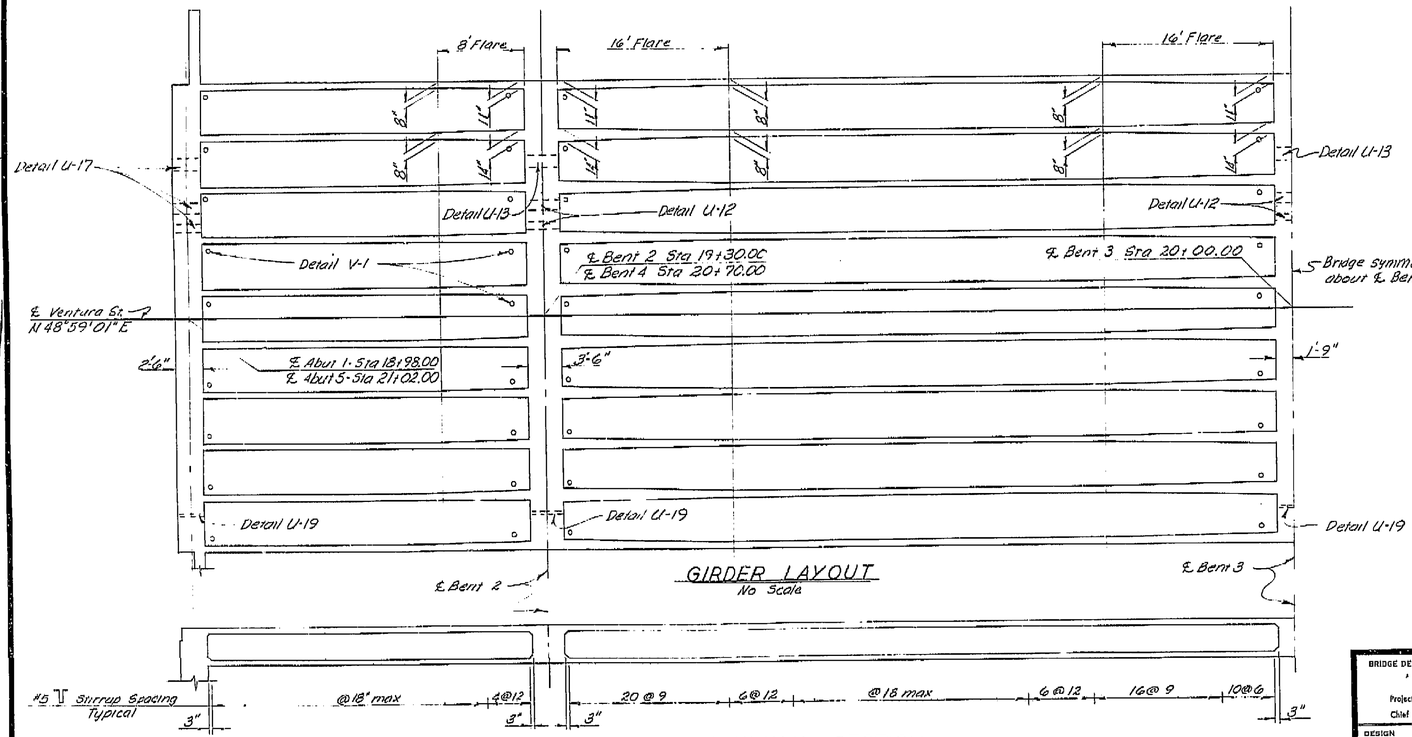


TYPICAL SECTION
4" = 1'-0"



CAMBER DIAGRAM
No Scale
(Total girder deflection due to dead loads)

Note: The total deflection will be reached about 4 years after falsework removal. For values at time of falsework removal, divide those shown by 4. The amount of camber for construction will be determined by the Engineer.

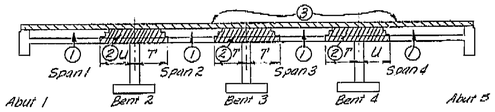


GIRDER LAYOUT
No Scale

LONGITUDINAL SECTION
No Scale

UTILITIES

(A) 20" Storm Drain Casing
(B) 12" Water Main in 20" Casing
(C) 6" Low Pressure Gas Main in 10" Casing
(D) 2" Fire Alarm System Conduit



BOX GIRDER SUPERSTRUCTURE PLACING DIAGRAM

Numbers (1) and (2) indicate sequence of placing bottom slab and girder stem concrete. (2) may be placed simultaneously with (1) when approved by the Engineer, and provided that the (1) sections are placed in adjoining spans.

Top slab concrete (3) shall be placed separately from (1) and (2). (3) may be placed continuously or in parts as approved by the Engineer, however the only joints permitted shall be located within 2'-0" of the girder joints between (1) and (2).

T = ⅓ span length
U = ¼ span length

For any deviation from the above the contractor shall submit a diagram to the Engineer.

AS BUILT PLANS
Contract No. 62-671303
Date Completed
Document No. 6000862

391

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer: [illegible]
Chief Designer: W. J. Sentleach

DESIGN	By ED Berry 10/60	Checked	Ray M. Tye 11/60
DETAILS	By ED Berry 10/60	Checked	Ray M. Tye 11/60
QUANTITIES	By [illegible] 10/60	Checked	ED Berry 11/60
SPECIFICATIONS	By	Plans and Rpts. Completed	

Approval Recommended by: [illegible] Engineer of Design — Civil Engr. License No. 8430

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

VENTURA STREET OVERCROSSING

TYPICAL SECTION AND GIRDER LAYOUT

SCALE AS SHOWN	BRIDGE 42-158	FILE	DRAWING C-42158-6

Disregard prints bearing earlier numbers →

PREL. DRAWING No. P-42-158-8

382

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DATE 1-11-72 SIGNATURE [illegible] TITLE [illegible]

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VI	Fre	99

U-006-2 (6)
F-006-2 (5)

FED. ROAD DIV. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.		390	422

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
7	Ven.	[illegible]	[illegible]	[illegible]	[illegible]

DATE APPROVED August 28, 1961

℄ VENTURA ST.
Bent 2-19+30.00
Bent 3-20+00.00
Bent 4-20+70.00

N 48°39'01" E

2'-0" Utility opening, Detail U-13
1'-2" Utility opening, Detail U-12
4" Utility opening, Detail U-19
2'-7" Utility opening, Detail U-12

℄ Bent
N 41°00'12" W

28'-0"
28'-0"

PLAN

℄ Column
1'-0"
4-ⓐ cont.
B
A
℄ Column
4-ⓑ x 14'-0"
4-ⓒ x 12'-0"
4-ⓓ x 10'-0"
Railing not shown
2-ⓔ x 16'-0"
2-ⓕ x 14'-0"
2-ⓖ x 12'-0"
2-ⓗ x 10'-0"
2-ⓚ x 16'-0"
2-Ⓛ x 18'-0"
2-ⓜ x 20'-0"
4-Ⓝ cont.
℄ Between co's.
#6 Stirrup Spacing @ 16 max
3"
3"
6@12
@18 max
6@12
3"
#11-tot. 10
#4 @12
#11 dowels total 4
#11 total 22
#10 total 22
2'-0"
2'-6"
1/4" exp. jt. mat'l.

ELEVATION

Elev. 262.0 Typical

Stop trans. 4" slab reinf.
2'-6"
4" Stop trans. slab reinf.
Const. jt. - raised keys 2'0" wide @ 4'-2" ctrs.
#6 [8]
#11 cont. - tot. 2
#5 cont. - tot. 2

SECTION A-A
1/2" = 1'-0"

Stop trans. 4" slab reinf.
5'-6"
4" Stop trans. slab reinf.
3'-6"
3"
5"

SECTION B-B
1/2" = 1'-0"

AS BUILT PLANS
Contract No. 62-67343
Date Completed
Document No. 6066062

4'-0"
#11-tot. 10
3'-0"
#4 @12

SECTION C-C
1/2" = 1'-0"

Note:
All bars are #11 except as noted. Numbers at ends of bars indicate distance in feet from ℄ Column for top reinf. and from ℄ Between co's. for bottom reinf.
No splicing of #11 bars permitted near ℄ column in top reinforcement or near ℄ span in bottom reinf.

℄ Column
1'-10" 2'-6" x 1 3/8" Depressed Key
#11 total 22
#10 total 22
5'-6"
5'-6"
11'-6"
5'-6"
5'-6"
11'-6"
#11 dowels total 4
℄ Bent
1'-0"
1'-0"

TYPICAL FOOTING PLAN

390

BRIDGE DEPARTMENT
DESIGN SECTION 2
Section Supervisor W. J. Wenrich

DESIGN	By	E.O. Berry	1/60
	Checked	Ray McTyre	11/60
DETAILS	By	[illegible]	10-60
	Checked	Ray McTyre	11/60
QUANTITIES	By	[illegible]	1-61
	Checked	E.O. Berry	1-61

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

VENTURA STREET OVERCROSSING

BENT DETAILS

Except as noted
SCALE 1/4" = 1'-0"
BRIDGE 42-158
FILE
DRAWING C-42158-5

Disregard prints bearing earlier numbers →
PREL. DRAWING NO. P-42-158-7 8/60 12/60 1/5 5/12

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.
DATE 1-13-72 SIGNATURE [illegible] TITLE [illegible]

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1" = 20'

ClibPDF - www.fastio.com

V1 | Fre | 99

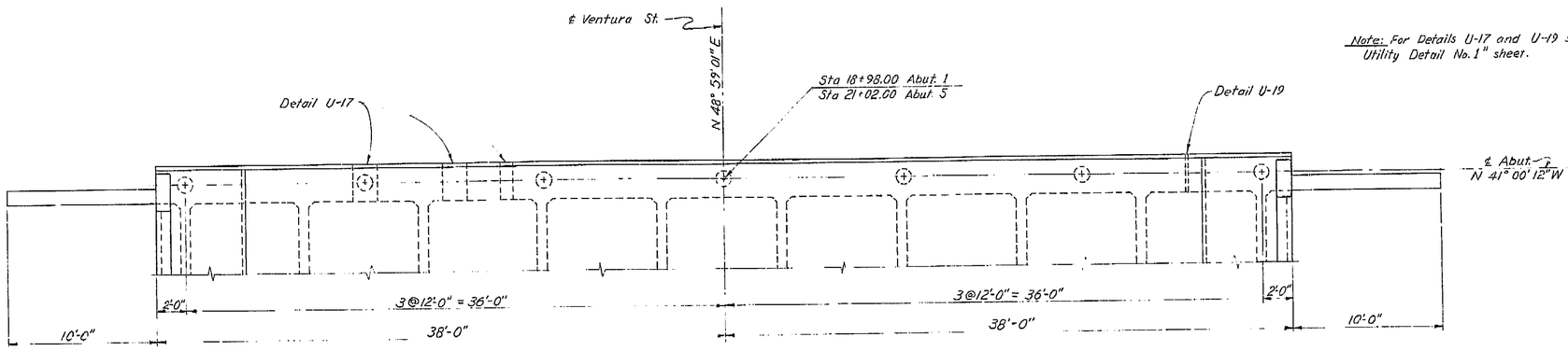
V-006-2 (6)
F-006-2 (5)

FED. ROAD DIV. NO.	STATE	P. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
7	CALIF.		389	424

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	[illegible]	[illegible]	[illegible]	[illegible]

BRIDGE ENGINEER — CIVIL ENGINEER — LICENSE 5793

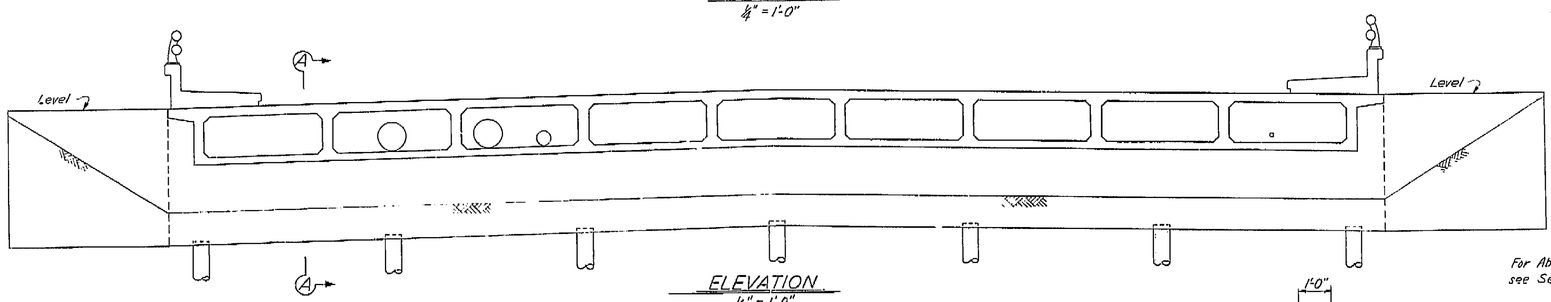
DATE APPROVED August 28, 1961



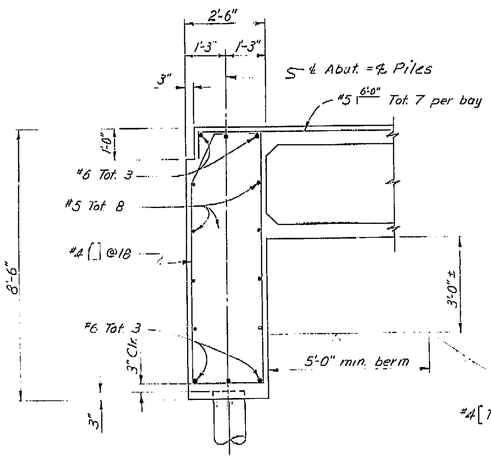
PLAN
¼" = 1'-0"

Note: For Details U-17 and U-19 see "Standard Utility Detail No. 1" sheet.

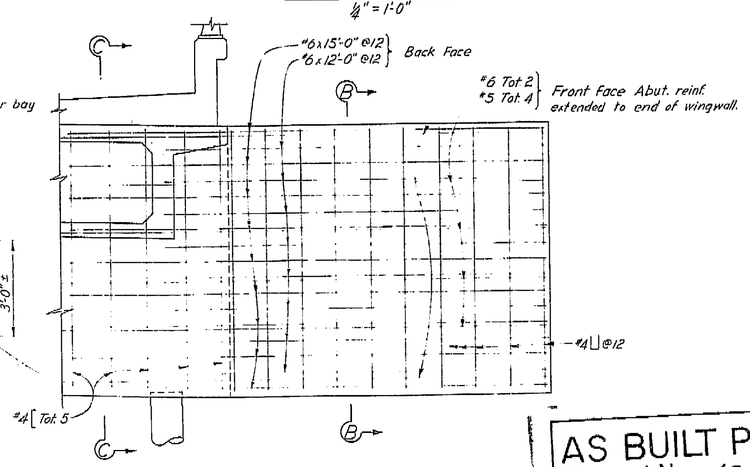
Note: Abut. 1 shown, Abut. 5 similar.



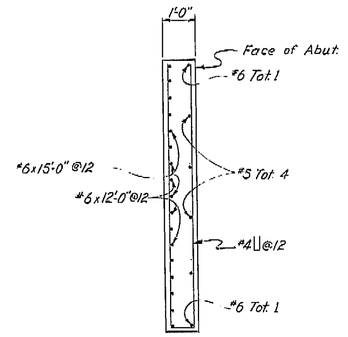
ELEVATION
¼" = 1'-0"



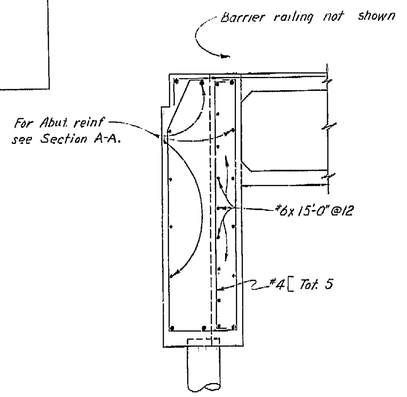
SECTION A-A
½" = 1'-0"



TYPICAL WINGWALL ELEVATION
½" = 1'-0"



SECTION B-B
½" = 1'-0"



SECTION C-C
½" = 1'-0"

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

BRIDGE DEPARTMENT
DESIGN SECTION 2
Section Supervisor W. J. Yerbich

DESIGN	by E.D. Berry	1/61
	Checked Kuchtyte	1/61
DETAILS	by D. F. Pollock	1/61
	Checked Kuchtyte	1/61
QUANTITIES	by [illegible]	1-61
	Checked E.D. Berry	1/61

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

VENTURA STREET OVERCROSSING

ABUTMENT DETAILS

SCALE As Shown | BRIDGE 42-158 | FILE | DRAWING C 42158 4

Disregard prints bearing earlier numbers → PREL. DRAWING No. P-42-158-39 [illegible] 125

389

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE [illegible] SIGNATURE [illegible] TITLE [illegible]

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V1 | Fre | 99

U-006-2 (6)
F-006-2 (5)

FED. ROAD DIST. NO	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.			394	424

DIST.	COUNTY	ROUTE	SECTION	BRIDGE NO.	TOTAL SHEETS
V1	Fre	99		48	

BRIDGE ENGINEER — CIVIL ENGINEER-LICENSE 5093

APPROVED August 28, 1961

STANDARD DRAWING

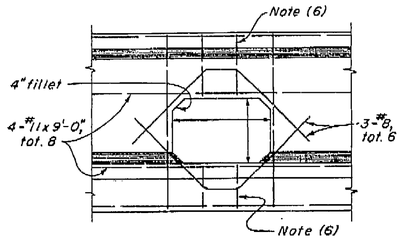
DESIGN — By Ed Berry 3-56 | Checked T. Iwamoto 5-57

DETAILS — By Paul Mayo 3-58 | Checked TIB

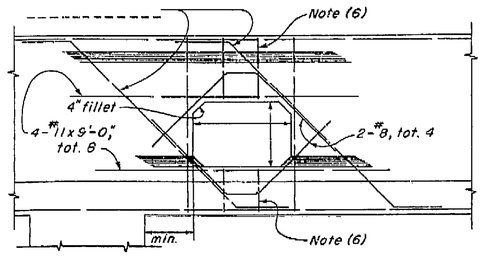
Approved for Use — Dec 15th 1958

Acting Chief Bridge Engineer

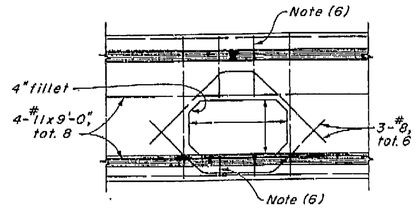
STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS
BRIDGE DEPARTMENT



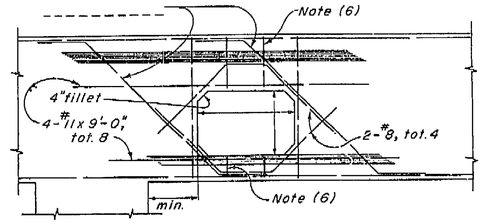
TYPICAL
DETAIL U1



NEAR COLUMN
DETAIL U2

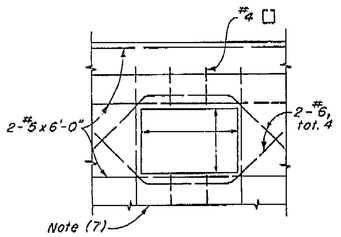


TYPICAL
DETAIL U3

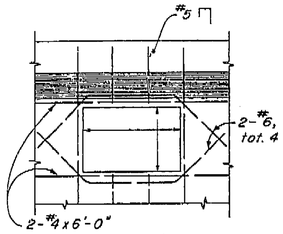


NEAR COLUMN
DETAIL U4

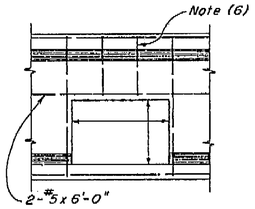
BENT CAP



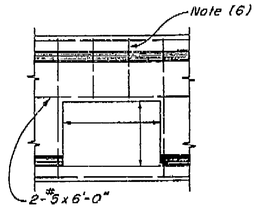
RIGID FRAME
DETAIL U5



CANTILEVER TYPE
DETAIL U6

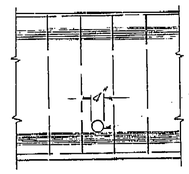


END
DETAIL U7



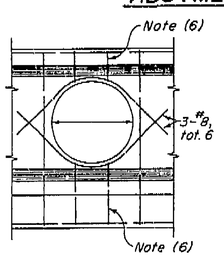
INTERMEDIATE
DETAIL U8

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

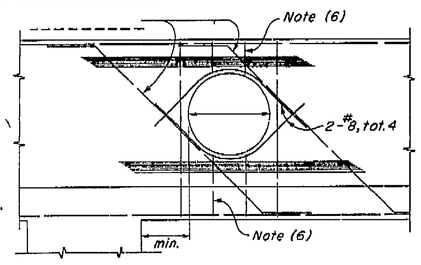


DETAIL U19

ABUTMENT BACKWALL

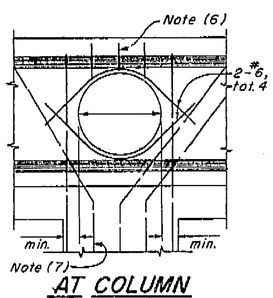


TYPICAL
DETAIL U9

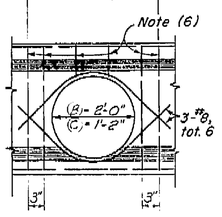


NEAR COLUMN
DETAIL U10

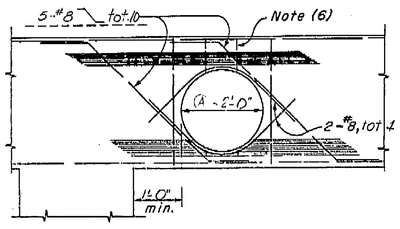
DIAPHRAGMS



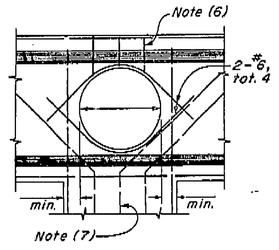
AT COLUMN
DETAIL U11



TYPICAL
DETAIL U12

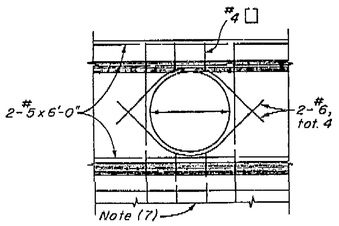


NEAR COLUMN
DETAIL U13

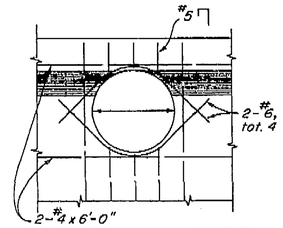


AT COLUMN
DETAIL U14

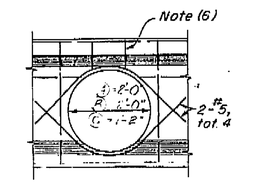
BENT CAP



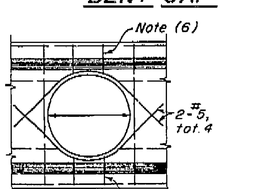
RIGID FRAME
DETAIL U15



CANTILEVER TYPE
DETAIL U16



END
DETAIL U17



INTERMEDIATE
DETAIL U18

ABUTMENT BACKWALL

DIAPHRAGMS

NOTES

(1) For exact location and direction of openings see other sheets.
(2) Location and size of utility openings may be modified as directed by the Engineer, provided minimum dimensions are maintained.
(3) Girders not shown, see other sheets.
(4) Seal around utilities at abutments to be of sufficient strength to withstand earth pressure.
(5) All reinforcement detailed to be placed in addition to reinforcement shown on other sheets.
(6) Stirrups are same size as adjacent stirrups shown on other sheets.
(7) Main reinforcement to clear opening as detailed on other sheets.

THIS SET OF PLANS HAS BEEN CORRECTED TO AGREE WITH AS BUILT PRINTS DATED ... AS CHECKED BY RESIDENT ENGINEER

DATE ...

BRIDGE DEPARTMENT
DESIGN SECTION 2

PROJECT DESIGNER Wayne E. Thomas
CHIEF DESIGNER M. J. Kulicke

DESIGN	BY ED Berry 9-60	CHECKED Wayne E. Thomas 11/60
DETAILS	BY ED Berry 11-60	CHECKED Wayne E. Thomas 11/60
QUANTITIES	BY ... 7-61	CHECKED ED Berry 7-61
SPECIFICATIONS	BY	PLANS AND SPECS. COMPARED
APPROVAL RECOMMENDED BY	... Chief and Structural Engr. License No. ...	

7/57

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

VENTURA STREET OVERCROSSING

STANDARD UTILITY DETAIL NO. I — BOX GIRDER

SCALE NONE | BRIDGE 42-158 | XS-16-49 FILE | DRAWING C-42158.9

PREL. DRAWING NO. P-42158.9 (10) 133/61

34

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE ... SIGNATURE ... TITLE ...

ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			387	424

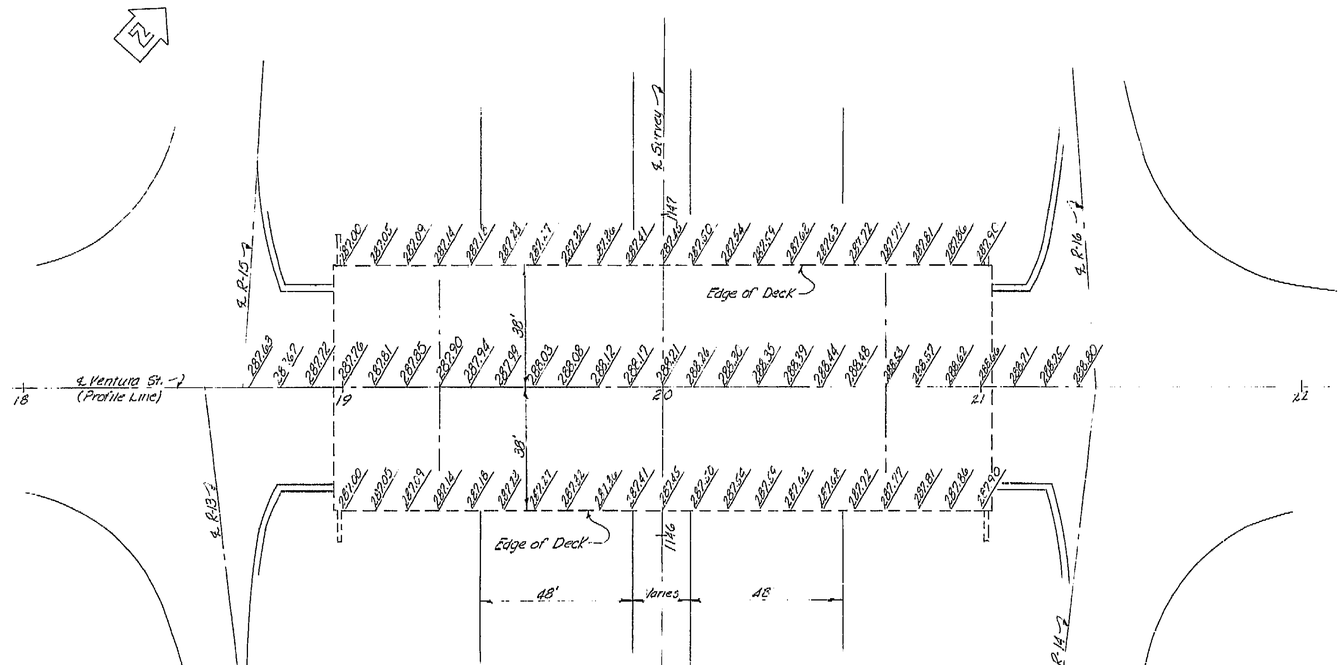
VI | Fre | 99

U-006-2 (6)
F-006-2 (5)

DIST.	COUNTY	ROUTE	SECTION	BRIDGE No.	TOTAL BRIDGES
VI	Fre	41	[illegible]	42-158	N/A

BRIDGE ENGINEER — CIVIL ENGINEER—LICENSE NO.

DATE APPROVED August 28, 1961



Note: Elevations are figured from profile line at 10' stations along ℄ Ventura St.

Elevations do not include camber.

PLAN

GENERAL NOTES

Specifications

Design: AASHO Dated 1957 with revisions and as supplemented by Bridge Planning and Design Manual.

Construction: Standard Specifications of the State of California dated January 1960 and the Special Provisions.

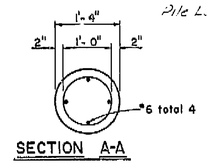
Live Loading: H 20-S16-44 and Alternative

Unit Stresses

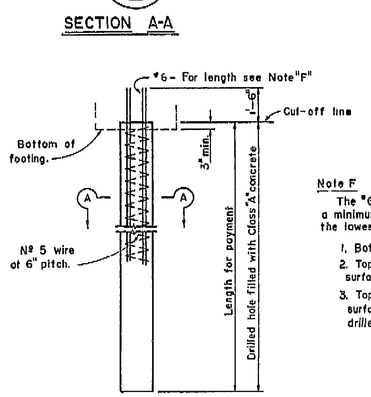
Reinforced Concrete: $f_s = 20{,}000$ psi $n = 10$
$f_c = 1{,}200$ psi

Footing Pressure @ Piers: 4 Tons per square foot.

Pile Loading @ Abut.: 45 Tons Type: Concrete CIDH



SECTION A-A



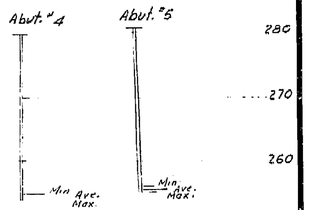
CAST-IN-DRILLED HOLE CONCRETE PILE

Concrete to be placed in dry hole.

Note F

The #6 bars shall extend a minimum of 12'-0" below the lowest of the following:

1. Bottom of footing.
2. Top of final ground surface.
3. Top of original ground surface when piles are drilled through fill.



AS BUILT PLANS
Contract No. 62-6T133
Date Completed
Document No. 60001062

387

BRIDGE DEPARTMENT
DESIGN SECTION 2
Project Designer E. E. Ritter
Chief Designer W. J. Yelverton

DESIGN	By ED Berry 1/60	Checked Kirkpatrick 11/60	
DETAILS	By ED Berry 1/60	Checked Kirkpatrick 11/60	
QUANTITIES	By [illegible] 1/61	Checked ED Berry 2/61	
SPECIFICATIONS	By	Plans and Rivers Prepared	

Approval Recommended by [illegible] Engineer of Design — Civil and Structural Engr. License No. 5619

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

VENTURA STREET OVERCROSSING

GRID OF DECK ELEVATIONS

SCALE 1"=20' | BRIDGE 42-158 | FILE | DRAWING C-12158-2

PREL. DRAWING No. P-42-158-4 | 12/61 | 1/62 | 1/65

370

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DATE 1-13-72 SIGNATURE [illegible] TITLE [illegible]

ClibPDF - www.fastio.com

SCALE 1"= 50' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"= 50' SCALE 1"= 20' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1"= 20'

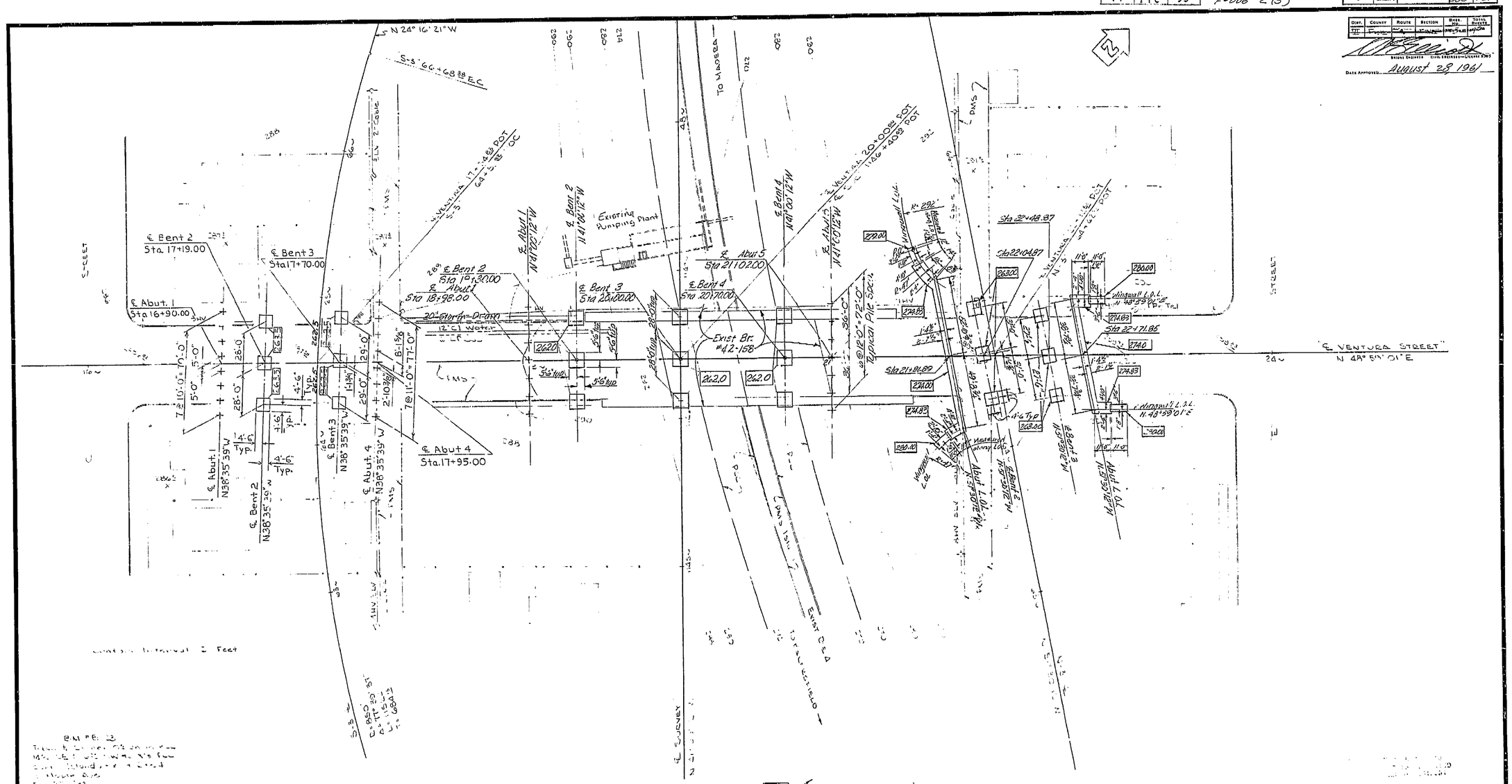
FED. ROAD DIV. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.		388	424

VI Fre 99 V-006-2 (6) F-006-2 (5)

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VII	Ven	99	12.0/R13.6	388	424

Bridge Engineer — Civil Engineer—License 5063

Date Approved: August 28 1961



000 Indicates bottom of footing elevation.

B.M. #B-13

T.M. #M-1

LEVEL DATUM: USC & GS
ROD ALIGNMENT TIES SEE PR 4034-5
CONTOURS AS OF 8-60
SITE PLAN FROM DISTRICT DATA.
SURVEY BY U.S.I.-L.L.B. DATE 8-60
DRAWN BY A.S. DATE 8-60
TRACED BY A.S. DATE 8-31-60

388

AS BUILT PLANS
Contract No. 62-6T13C3
Date Completed
Document No. 60001062

BRIDGE DEPARTMENT
DESIGN SECTION

Section Supervisor	W.J. Vantrease	
DESIGN	by ED Berry	8/60
	Checked Rayleigh Tye	11/60
DETAILS	by ED Berry	10/60
	Checked Rayleigh Tye	11/60
QUANTITIES	by	1/61
	Checked ED Berry	1/61

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

VENTURA STREET OVERCROSSING

FOUNDATION PLAN

SCALE 1"= 30' | BRIDGE 42-158 | FILE- 92 | DRAWING C-42158-3

PREVIOUS DRAWING NO. P. 42-158-5 | 9/18 | PR 4034-7 | 389

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-13-72 SIGNATURE Thomas E. Grant TITLE SR. RMO

ClibPDF - www.fastio.com

California Department of Transportation
Division of Maintenance

Structure Maintenance and Investigations

BRIDGE

INSPECTION

RECORDS

INFORMATION

SYSTEM

The requested documents have been generated by BIRIS.

These documents are the property of the California Department of Transportation and should be handled in accordance with Deputy Directive 55 and the State Administrative Manual.

Records for “Confidential” bridges may only be released outside the Department of Transportation upon execution of a confidentiality agreement.

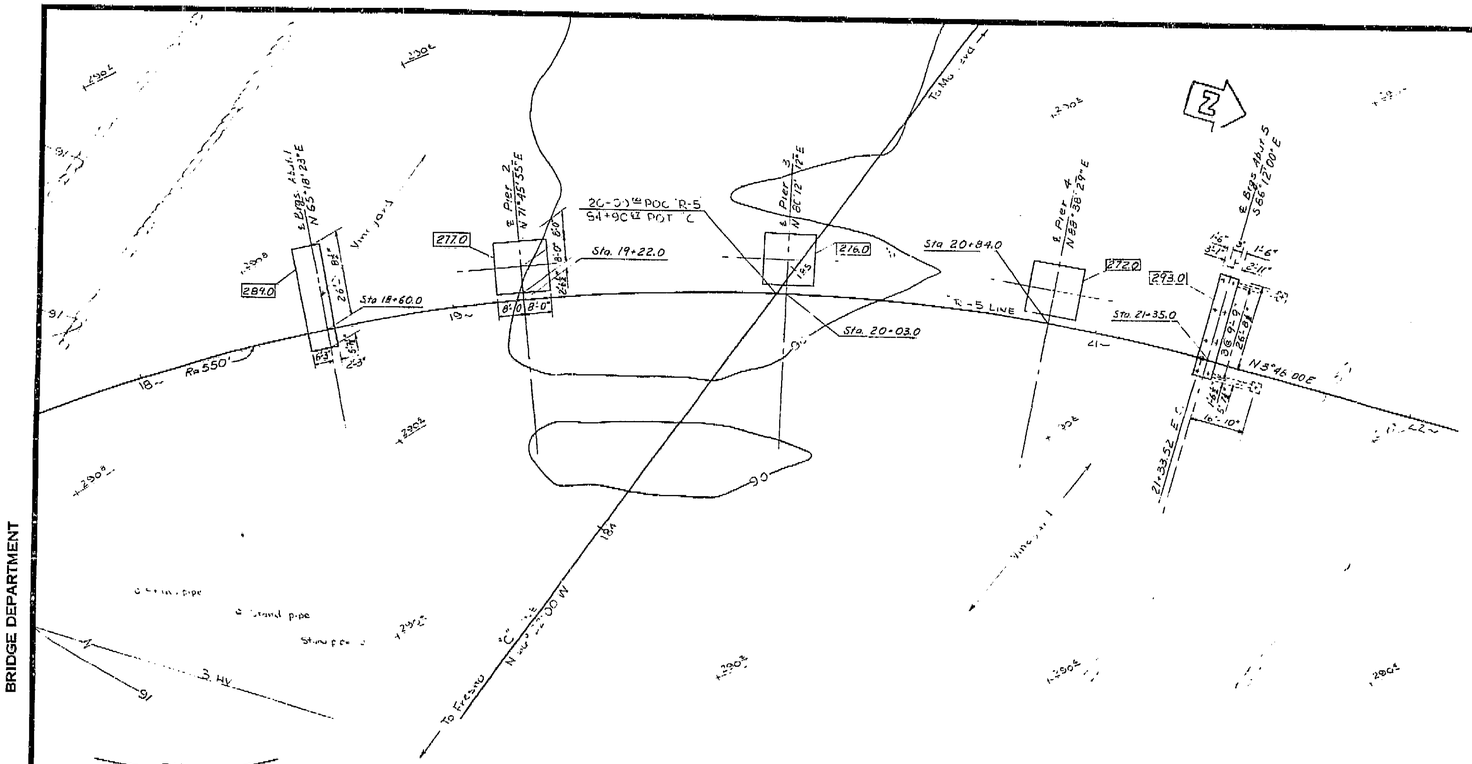
F-0194(4)

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			116	210

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS

DATE APPROVED

BRIDGE DEPARTMENT



"R-5" Line
R= 550'
Δ= 78° 28'
T= 449 10'
L= 753 23'

R-5 LINE Scaled from District Site Plan

Note: Vertical Piles are shown thus +
Battered Piles ↓ direction of batter shown thus ⊣+

270.0 Denotes Elev. of bottom of footing

Piles: Concrete Load: 32 ton
Footing pressures @ Abut. 1 4 t.s.f.
@ all Piers 2½ t.s.f.

All Pier footings are similar

AS BUILT PLANS
Contract No. 59-67610
Date Completed
Document No. 60000997

AS BUILT
Corrections by R.C. Hawkins
Date November 18, 1959
Contract 59-87010-Y

LEVEL DATUM: DISTRICT
FOR ALIGNMENT TIES SEE: PS 530-2
CONTOURS AS OF: 1-31-57
SITE PLAN TO SUPPLEMENT DISTRICT DATA.
SURVEY BY: H.I.C. DATE: 1-57
DRAWN BY: W.M.S. DATE: 1-30-57
TRACED BY: J.S. DATE: 1-31-57

	By	Date
DESIGN		
DETAILS		
QUANTITIES		
SPECIFICATIONS		

Submitted by: Chief Engineer
Approved Recommended by: Engineer of Design
Chief Bridge Engineer

BRIDGE DEPARTMENT

DESIGN SECTION

Project Designer C. Eccleston
Chief Designer John J. Kunz

DESIGN	C. Eccleston	1-57
DETAILS	C. Eccleston	2-57
QUANTITIES	E. Hammerstrom	2-57
SPECIFICATIONS		

Approved Recommended by: Engineer of Design — Date Submitted to S.E.A.C.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

DAKOTA AVENUE OVERCROSSING

FOUNDATION PLAN

SCALE 1"=20' | BRIDGE 42 148 | FILE E--- | DRAWING C-5382-2

PREL. DRAWING NO. P 5382 X 10

116

C-5382-2

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 9/16/71 SIGNATURE W. S. Hall TITLE HAC II

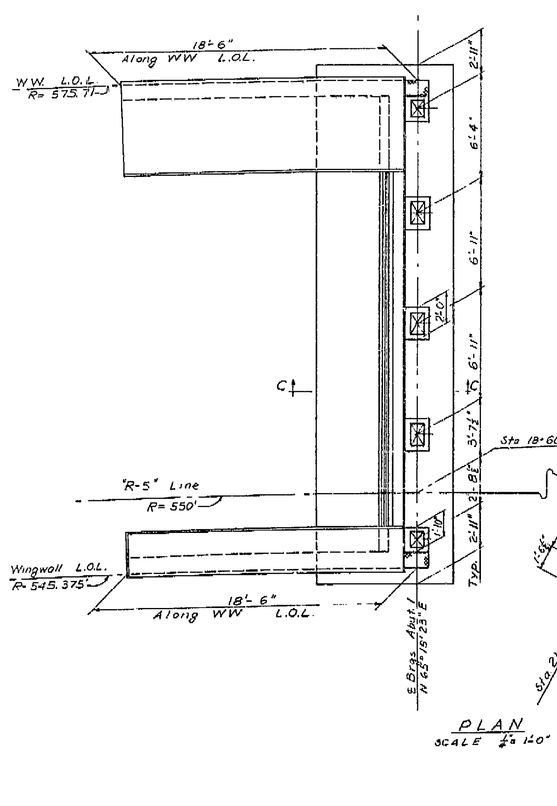
ClibPDF - www.fastio.com

F-0194(4)

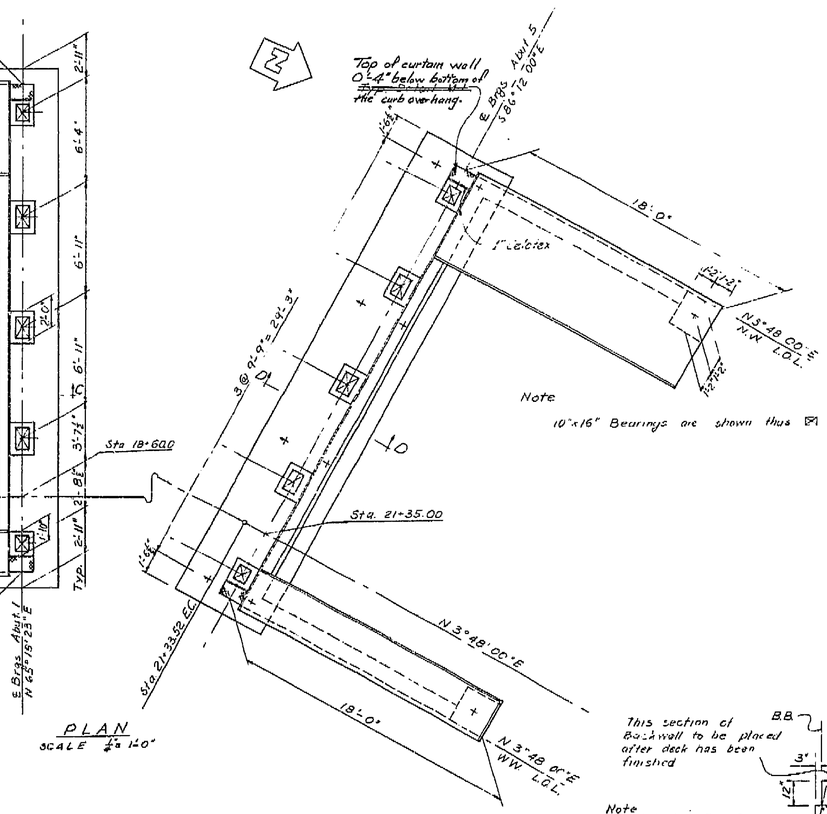
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7	CALIF.			117	210

DIST	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	Fre	4	C	3	11

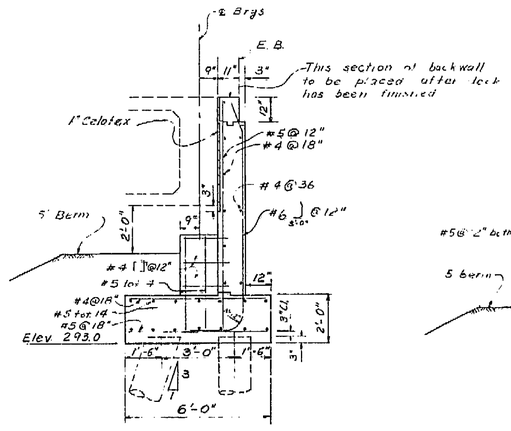
DATE APPROVED AUGUST 1 [illegible]



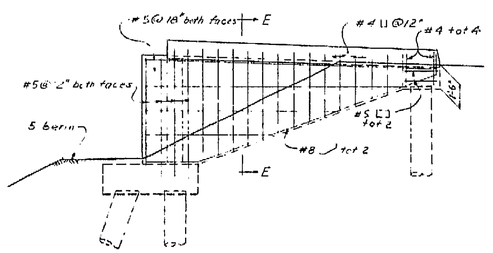
PLAN
SCALE 1/8" = 1'-0"



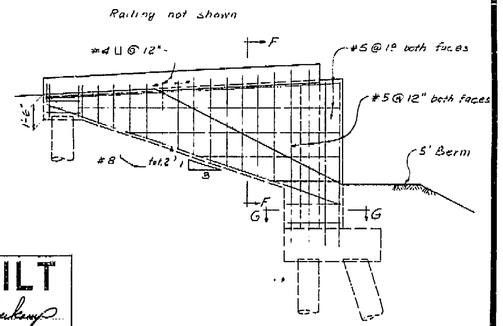
Note
10"x16" Bearings are shown thus ▭



SECTION D-D
SCALE 3/8" = 1'-0"

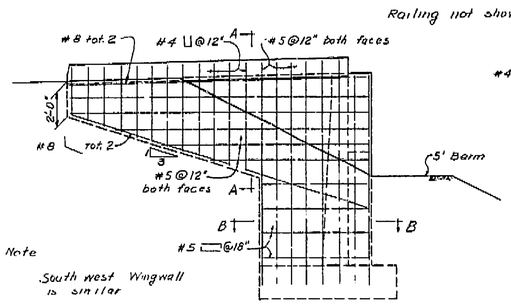


NORTH EAST WINGWALL
SCALE 1/4" = 1'-0"



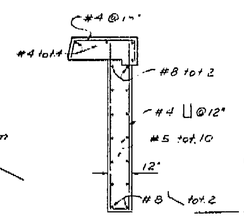
NORTH WEST WINGWALL
SCALE 1/4" = 1'-0"

AS BUILT
Corrections by R.C. Hardesty
Date November 18, 1959
Contract 59-67010-K

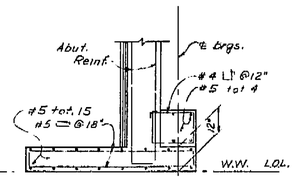


Note
South west Wingwall is similar

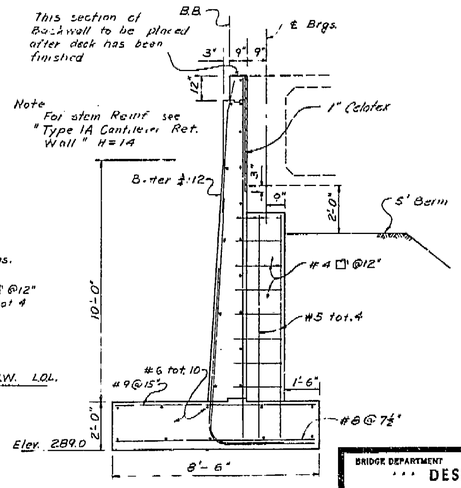
SOUTH EAST WINGWALL
SCALE 1/4" = 1'-0"



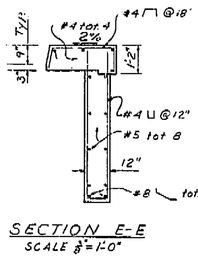
SECTION A-A
SCALE 3/8" = 1'-0"



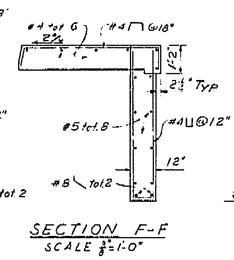
SECTION B-B
SCALE 3/8" = 1'-0"



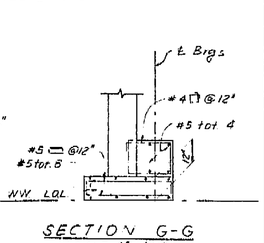
SECTION C-C
SCALE 3/8" = 1'-0"



SECTION E-E
SCALE 3/8" = 1'-0"



SECTION F-F
SCALE 3/8" = 1'-0"



SECTION G-G
SCALE 3/8" = 1'-0"

AS BUILT PLANS
Contract No. 59-67010
Date Completed
Document No. 60000997

BRIDGE DEPARTMENT			
DESIGN SECTION 6			
Project Designer	C. Beckley		
Chief Designer	[illegible]		
DESIGN	By C. Beckley	Checked [illegible]	
DETAILS	By C. Beckley	Checked [illegible]	
QUANTITIES	By [illegible]	Checked [illegible]	
SPECIFICATIONS	By [illegible]	Plans and Specs. Compared	
Approval Recommended by [illegible] Engineer of Design		Civil and Structural Design Engineer	5439 465

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

DAKOTA ~~TOWER~~ OVERCROSSING

ABUTMENT DETAILS

SCALE As Shown	BRIDGE 42-148	FILE	DRAWING C 5382-3

PREL. DRAWING No. P- 5382 V HH

543

117

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 7/16/01 SIGNATURE [signature] TITLE HAC II

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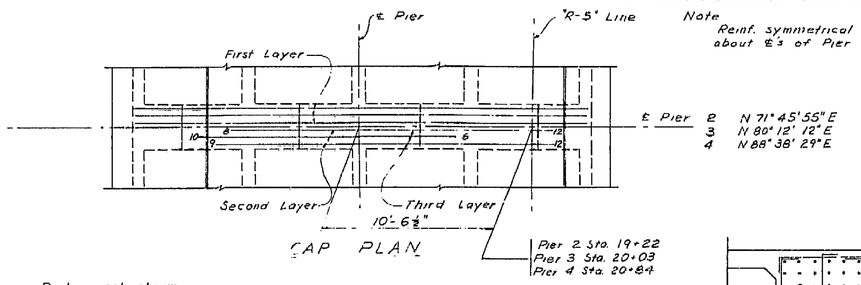
F-0194(4)

FED. ROAD DIV. No.	STATE	PROJ. No	FED. CAL. No.	SHEET No	TOTAL SHEETS
7	CALIF.			118	210

DIST	COUNTY	ROUTE	SECTION	SHEET No	TOTAL SHEETS
VI	Fre	41	C	4	11

BRIDGE ENGINEER — CIVIL ENGINEER—CALIFORNIA

DATE APPROVED AUGUST



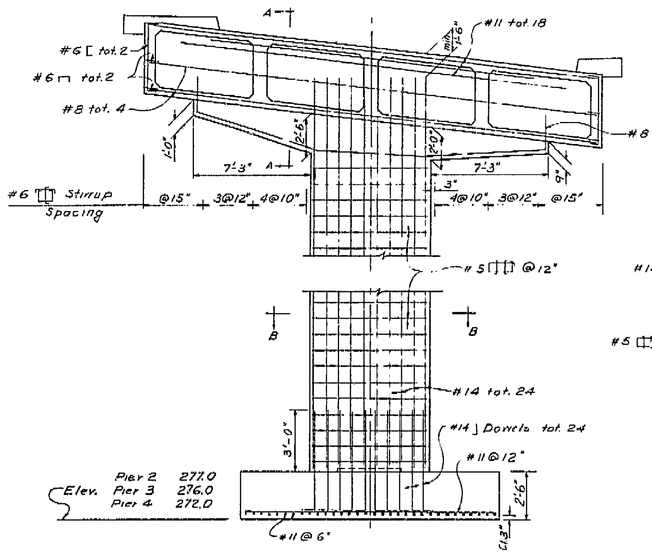
Note
Reinf. symmetrical about ℄'s of Pier

℄ Pier 2 N 71° 45' 55" E
3 N 80° 12' 12" E
4 N 88° 38' 29" E

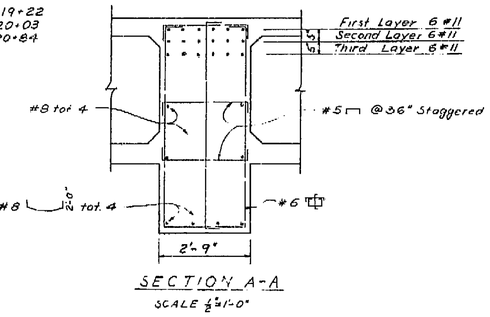
CAP PLAN

Pier 2 Sta. 19+22
Pier 3 Sta. 20+03
Pier 4 Sta. 20+84

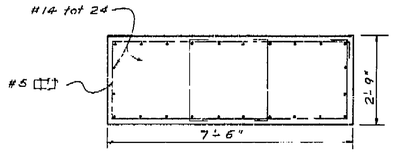
Railing not shown



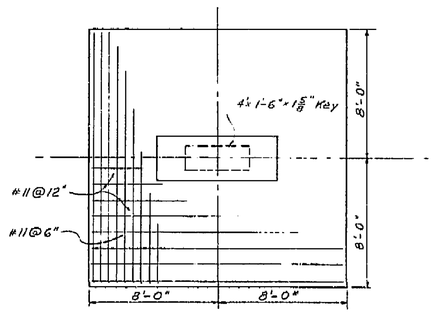
ELEVATION



SECTION A-A
SCALE ½"=1'-0"



SECTION B-B
SCALE ½"=1'-0"



FOOTING PLAN

TYPICAL PIER
SCALE ½"=1'-0"

AS BUILT PLANS
Contract No. 59-67C10
Date Completed
Document No. 60000997

AS BUILT
Corrections by R.C. Havenkamp
Date November 18, 1959
Contract 59-67C10-F

BRIDGE DEPARTMENT
DESIGN SECTION 6
Project Designer C. Bender
Chief Designer John L. Lyle

DESIGN	By C. Bender	Checked A.J. Bruton	
DETAILS	By C. Bender	Checked T.Y. Parker	
QUANTITIES	By L. Yamaguchi	Checked W.B. Ingalls	
SPECIFICATIONS	By	Plans and Form Completed	

Approved Recommended by R.L. Stephens, Engineer of Design — Civil and Structural Chief Engineer 9439 4/58

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

DAKOTA ~~TOWER~~ OVERCROSSING

PIER DETAILS

SCALE As Shown | BRIDGE 42-148 | FILE | DRAWING C5382-4

PREL. DRAWING No. P- 5282 E 12

545

118

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DATE 9/16/59 SIGNATURE W.B. Ell TITLE HAC II

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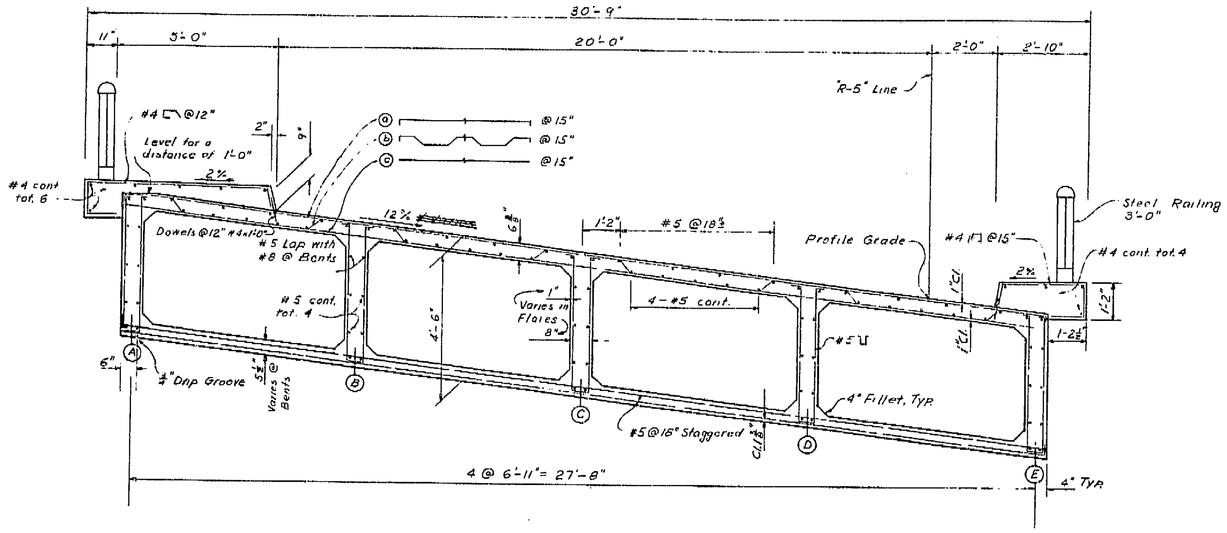
F-0194(4)

FED. ROAD DIV. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			119	210

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VII	FRE	~~A~~	~~C~~	~~5~~	~~7~~

Bridge Engineer — Civil Engineer — License Expires

DATE APPROVED: AUGUST 1, 1958



Note
Only part of main girder reinf. shown. see "Girder Reinforcement" sht.
All transverse bars to be placed radially and spaced as shown along ℄ of girder "C"

AS BUILT PLANS
Contract No. 59-67210
Date Completed
Document No. 60000997

AS BUILT
Corrections by R.C. Hawkamp
Date November 18, 1959
Contract 59-67210-F

BRIDGE DEPARTMENT		
DESIGN SECTION 6		
Project Designer O. Peck Jr.		
Chief Designer John J. Kyel		
DESIGN	By E Beutler	Checked
DETAILS	By C Beutler	Checked
QUANTITIES	By R Hamojka	Checked
SPECIFICATIONS	By	Plans and Bars Prepared
Approval Recommended by		Chief and Structural Engineer, Bridges

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

DAKOTA ~~TOWER~~ OVERCROSSING

TYPICAL SECTION

SCALE	BRIDGE	FILE	DRAWING
½" = 1'-0"	42-148		C5382-5

PREL. DRAWING No. P-5382 16 13

544

119

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DATE 9/16/71 SIGNATURE [illegible] TITLE HAC II

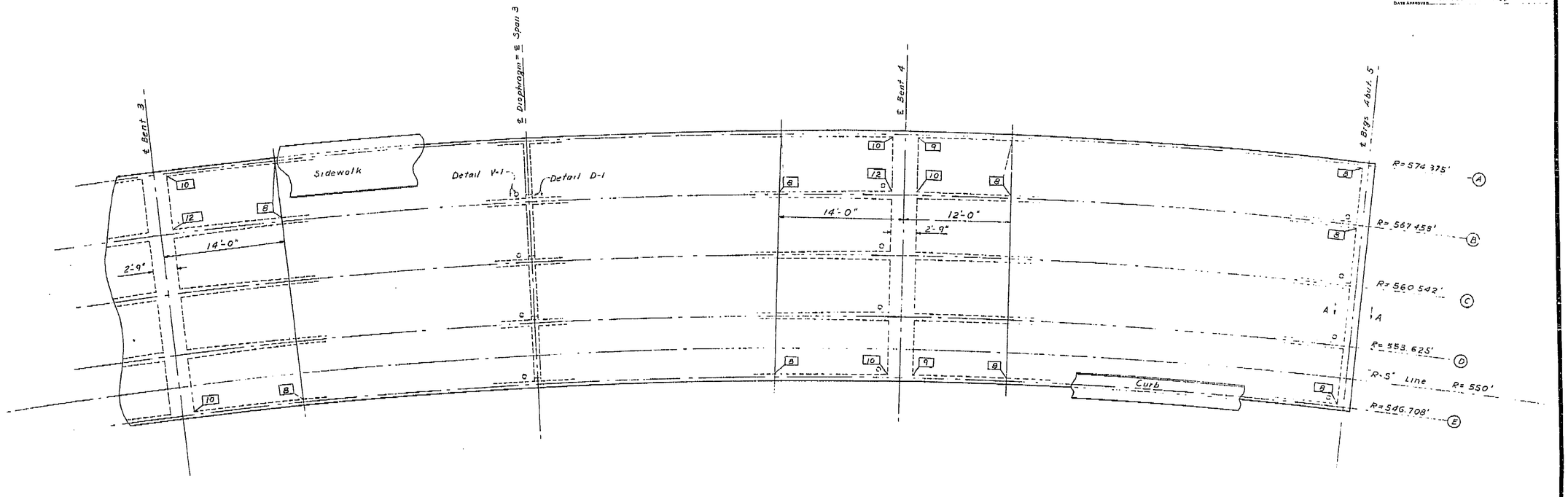
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7	CALIF.			121	210

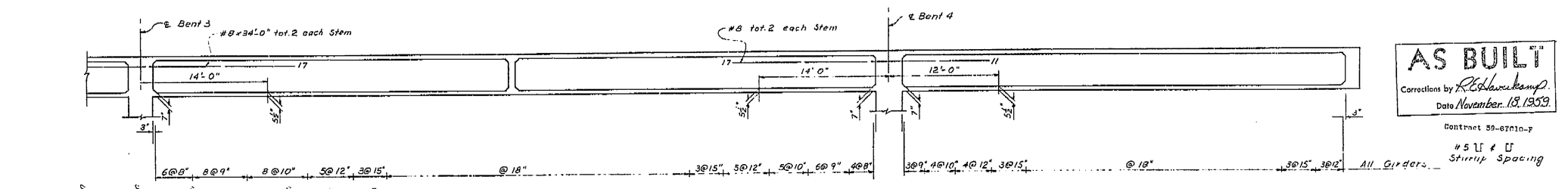
F-0194(4)

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	41	C	7	11

DATE APPROVED AUGUST 1 1958



PLAN



LONGITUDINAL SECTION

ULTIMATE DEAD LOAD DEFLECTION DIAGRAM

No Scale

AS BUILT

Corrections by R.C. Hawkamp.

Date November 18, 1959.

Contract 59-67C10-F

For Section A-A & Notes see "Girder Layout Spans 1 & 2" sht.

AS BUILT PLANS
Contract No. 59-67C10
Date Completed
Document No. 60000997

BRIDGE DEPARTMENT
DESIGN SECTION 6
Project Designer O. Bender
Chief Designer

DESIGN	By P. Ellerbe	Checked
DETAILS	By C. Bender	Checked
QUANTITIES	By R. Hayward	Checked O. Bender
SPECIFICATIONS	By	Plans and Form C-Memo'd

Approval Recommended by

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

DAKOTA ~~TOWER~~ OVERCROSSING

GIRDER LAYOUT SPANS 3 & 4

SCALE 3/16" = 1'-0" | BRIDGE 42-148 | FILE | DRAWING C-5382-7

PREL. DRAWING No. P-5386 X 45

121

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DATE 9/16/71 SIGNATURE [illegible] TITLE HAC II

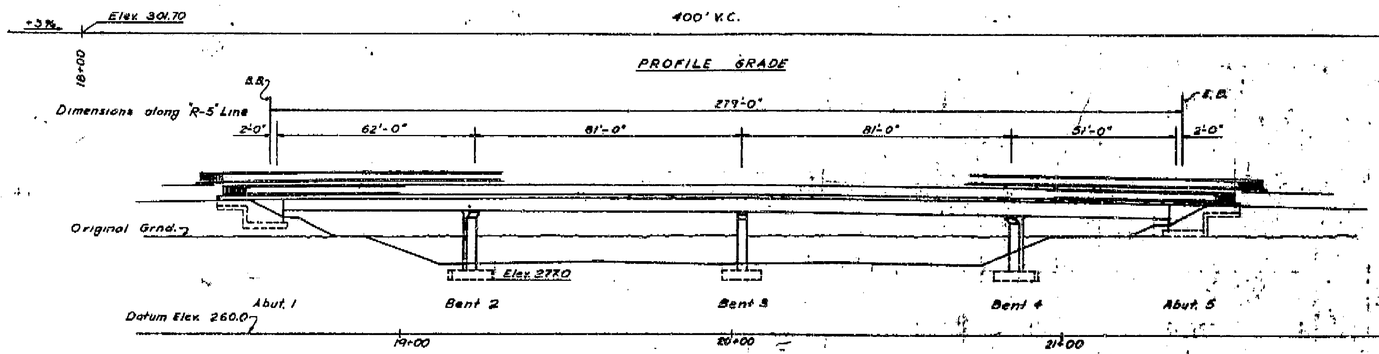
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F-0194(4)

Dist.	Co.	Rte.	Sec.	Sheet No.	Total Sheets
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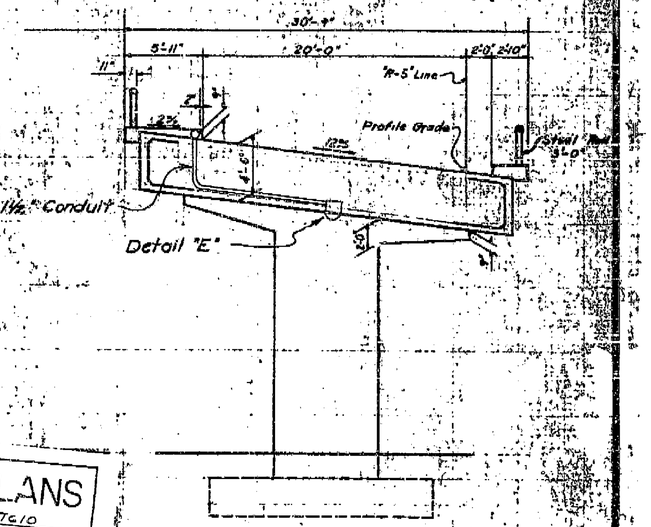
DISTRICT ENGINEER AUG 05 4 1959

Traffic Engineer
Civil Engineer License No. 5429



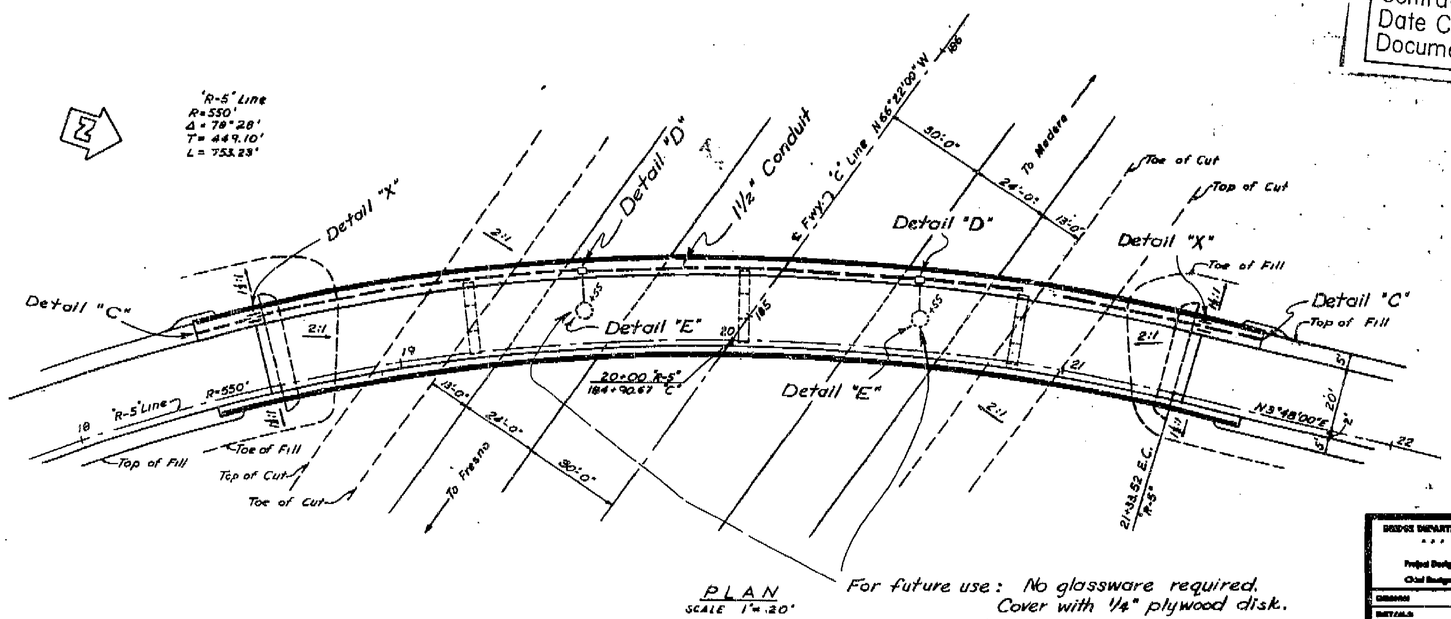
ELEVATION
SCALE 1"=20'

Elev. 299.70
400' V.C.
22+00



TYPICAL SECTION
SCALE 1"=5'

AS BUILT PLANS
Contract No. 59-67610
Date Completed
Document No. 60000997



PLAN
SCALE 1"=20'

Note: Wrap Detail "X" at wingwall joint with ½" sponge rubber for 1'± on each side of expansion joint.

Use 1½" conduit throughout.

No conductor to be installed on this structure.

AS BUILT
Corrections by R. E. Haverkamp
Date November 18 1959
District Specialist

Note: This plan accurate for highway lighting only.

For future use: No glassware required. Cover with ¼" plywood disk.

BRIDGE DEPARTMENT
*** DESIGN SECTION *** 6
Project Designer O. Bender
Chief Designer John Kunke

DESIGN	by O. Bender	checked A.A.E.	
DETAILS	by O. Bender 5-57	checked	
QUANTITIES	by J. Gonzalez	checked O. Banks	
SPECIFICATIONS	by	checked	
Approved Recommended by			

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

DAKOTA TOWER OVERCROSSING
LOCATED ABOUT 1.5 MILE NORTHWEST OF THE BEGINNING OF THE FRESNO-ST. HELENA AVENUE IN FRESNO

LIGHTING PLAN

SCALE AS SHOWN | BRIDGE 42-126 | FILE | DRAWING C-5382-10

FED. PROJECT NO. F-3974(4)

124

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 8/15/61 SIGNATURE _____ TITLE _____

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F-0194(4)

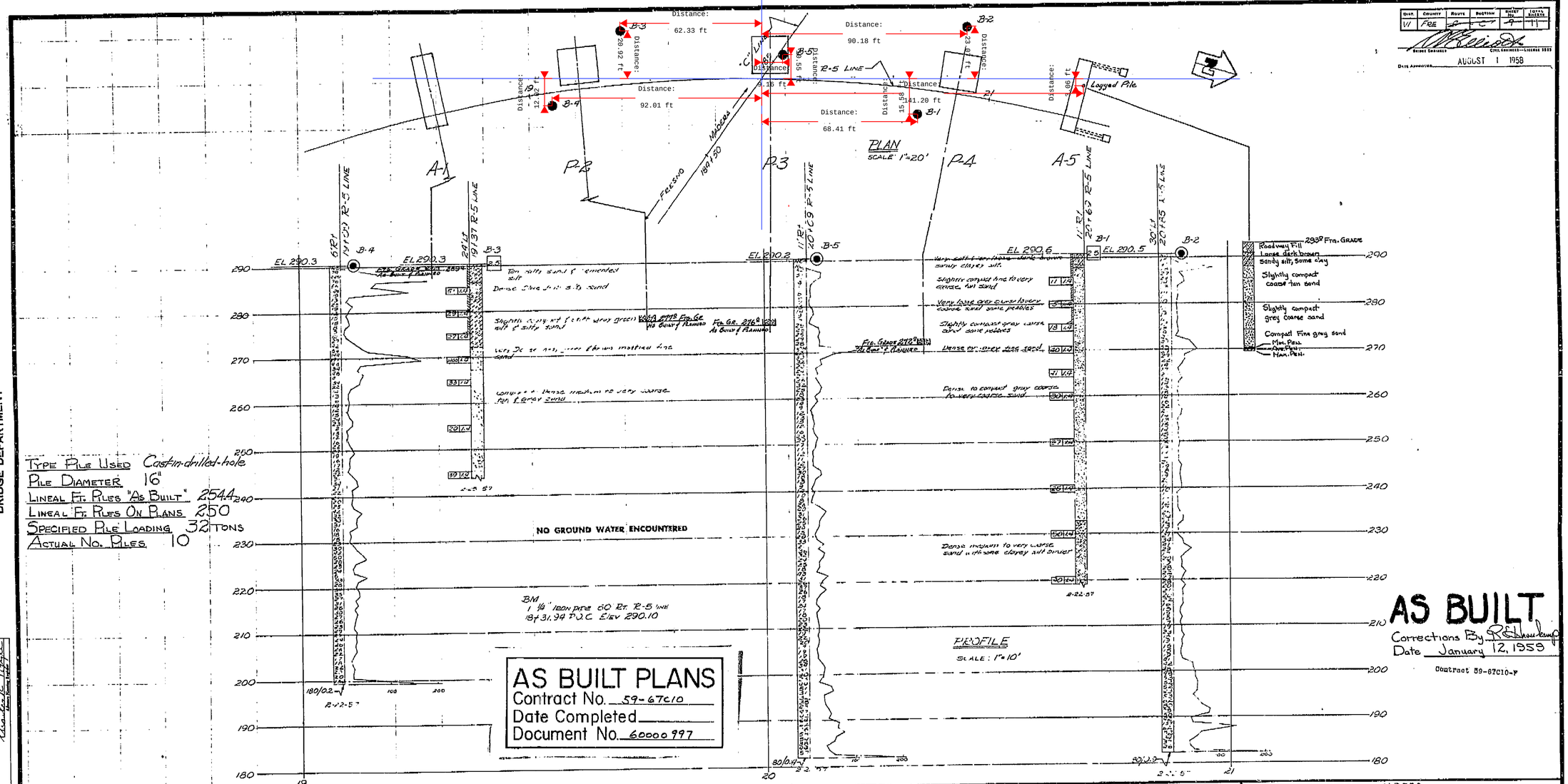
FED. ROAD DIV. NO.	STATE	PROJ. NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
7	CAL.			123	210

DIST.	COUNTY	ROUTE	SECTION	SHEET NO	TOTAL SHEETS
VI	FRE	99	C	9	11

BRIDGE ENGINEER — CIVIL ENGINEER—LICENSE 5882

DATE APPROVED AUGUST 1 1958

BRIDGE DEPARTMENT



FIELD STUDY	1- SHOWER - MELSON-SEN	
DRAWN	2- SILVERAC - SEPARATE	
CHECKED	3- WINNER - 29 MARCH 57	

Approved Recommended by [illegible]

Classification of Material Based on Standard Grade Size Limits

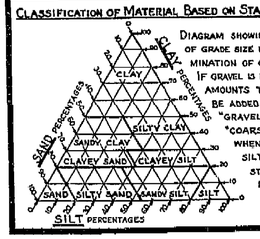


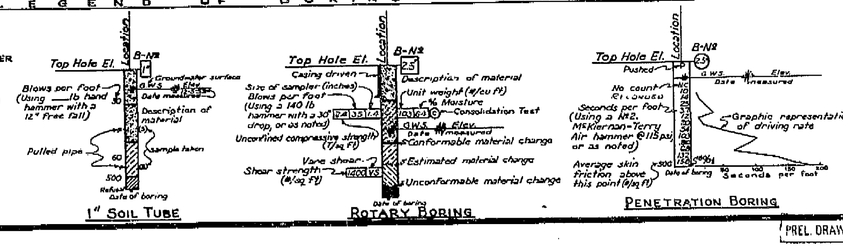
Diagram showing the basis for estimates of grade size distribution used in determination of class names. If gravel is present in appreciable amounts the term "gravelly" may be added to the class name, viz. "gravelly sand." The terms "coarse," "medium" and "fine" when used to describe sand, silt and gravel refer to standard grade size limits.

Legend of Earth Materials

- Gravel
- Sand
- Silt
- Clay
- Sandy Clay or Clayey Sand
- Sandy Silt or Silty Sand
- Silty Clay or Clayey Silt
- Peat and/or Organic Matter
- Fill Material
- Igneous Rock
- Sedimentary Rock
- Metamorphic Rock

Legend of Boring Operations

- Plan of any boring
- Penetrometer
- 2½" Cone Penetrometer
- Sampler boring (dry)
- Rotary boring (wet)
- Auger boring (dry)
- Jet boring
- Core boring
- Test pit



NOTES

The contractor's attention is directed to Section 2, Article (c) of the Standard Specifications and to the Special Provisions accompanying this set of plans.

Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

DAKOTA OVERCROSSING

LOG OF TEST BORINGS

SCALE AS SHOWN	BRIDGE 42-148	FILE	DRAWING C5382-9

PREL. DRAWING NO. P-5382 LT

123

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 9/16/21 SIGNATURE [illegible] TITLE HAC II

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F-0194(4)

FED. ROAD DIV. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			115	210

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	41	G	—	—

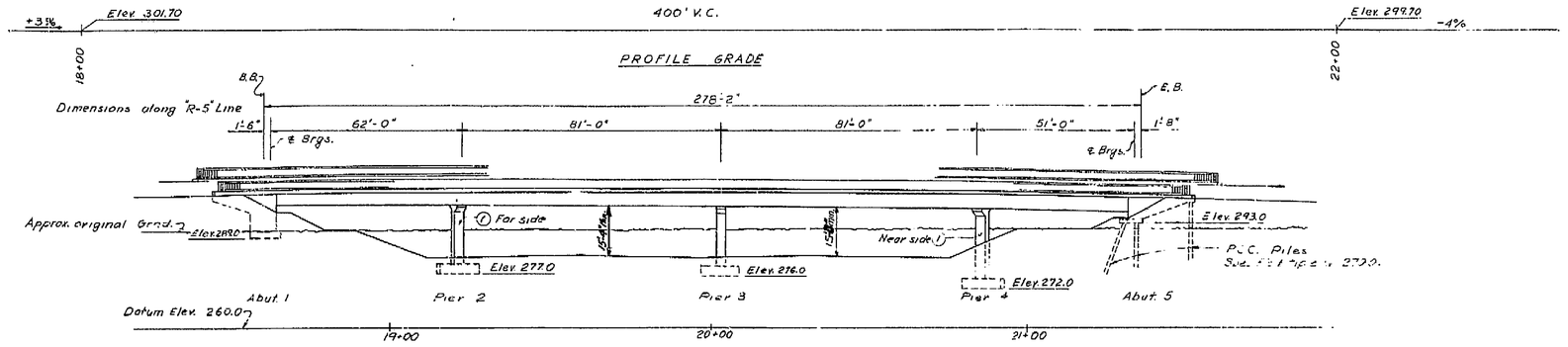
P.M. 26.2.

ASSISTANT STATE HIGHWAY ENGINEER — CIVIL ENGINEER LICENSE 1876

DATE APPROVED: 1

G. T. McCoy
STATE HIGHWAY ENGINEER — CIVIL ENGINEER—LICENSE 2086

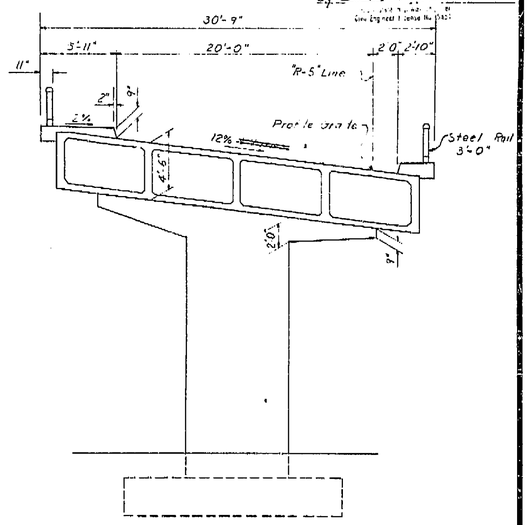
by: Edw. E. Evans
Civil Engineer License No. C-[illegible]



ELEVATION
SCALE 1" = 20'

APPROXIMATE QUANTITIES

STRUCTURE EXCAVATION	600 C.Y.
STRUCTURE BACKFILL	410 C.Y.
CLASS "A" CONCRETE (BRIDGES)(800 C.Y.)	LUMP SUM
BAR REINFORCING STEEL (BRIDGES)(200,000 LBS.)	LUMP SUM
FURNISHING CONCRETE PILING	250 L.F.
DRIVING PILES	10 EA.
MISCELLANEOUS IRON AND STEEL	3,000 LBS.
STEEL RAILING	633 L.F.



TYPICAL SECTION
SCALE 1"=5'

INDEX TO PLANS

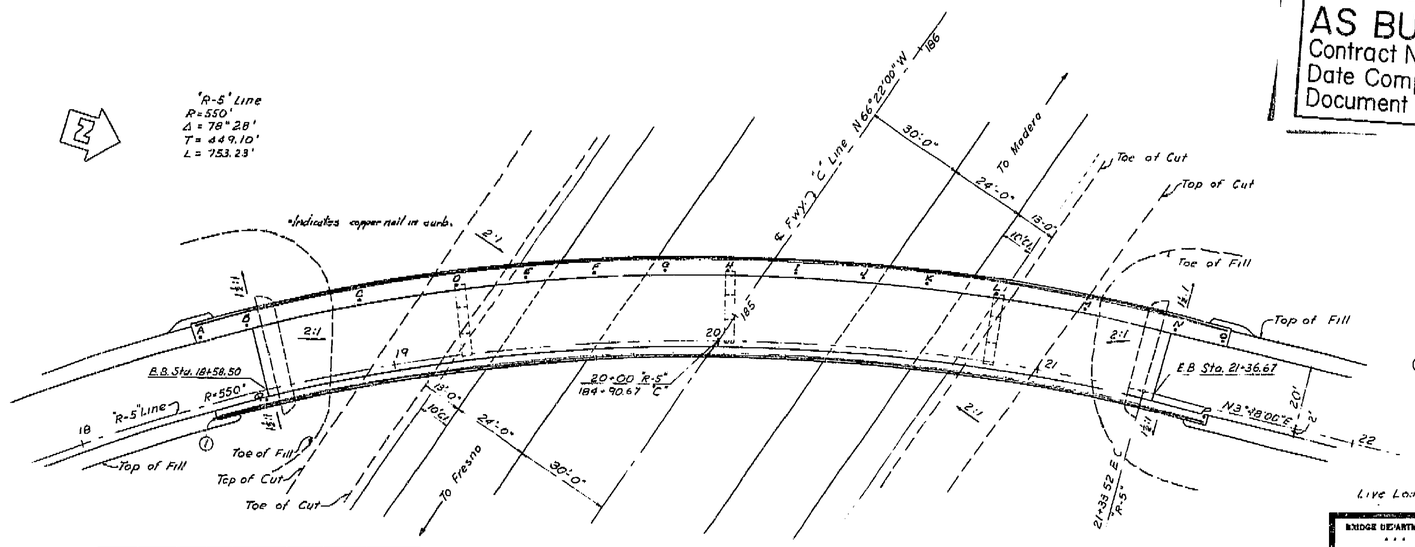
1 General Plan
2 Foundation Plan
3 Abutment Details
4 Pier Details
5 Typical Section
6 Girder Layout Spans 1 & 2
7 Girder Layout Spans 3 & 4
8 Girder Reinforcement
9 Log of Test Borings
10 Lighting Plan
11 Standard Lighting Details

Note: For Additional Lighting Details see Road Plans.

Note: See Bridge # 42-126 For 'G' Sheets

AS BUILT
Corrections by R.C. Haverkamp
Date November 18, 1959
Contract 59-67C10

AS BUILT PLANS
Contract No. 59-67C10
Date Completed
Document No. 60000997



PLAN
SCALE 1"= 20'

TABLE OF FINAL ELEVATIONS

POINT	ELEVATION	POINT	ELEVATION	POINT	ELEVATION	POINT	ELEVATION
A	305.98	F	307.45	K	306.66	P	301.93
B	306.34	G	307.45	L	306.31	Q	303.70
C	306.87	H	307.34	M	305.72		
D	307.27	I	307.19	N	305.03		
E	307.40	J	306.99	O	304.55		

Shots Taken 8/20/59 Falsework Struck 4/6/59

Live Load H20-S16-44 For General Notes & Std Details not shown see "Princeton Ave. to Herndon Bridge Standards"

BRIDGE DEPARTMENT
··· DESIGN SECTION ··· 6

Project Designer	O. Brandev	
Chief Designer	[illegible]	
DESIGN	By [illegible]	Checked [illegible]
DETAILS	By [illegible] 3-57	Checked [illegible]
QUANTITIES	By [illegible]	Checked [illegible]
SPECIFICATIONS	By [illegible] 9-57	Checked [illegible] 7-57

Approved and Recommended by [illegible] Engineer of Design — Date and Numerical Design Unit No. 0348 485

59-6TC10

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

DAKOTA ~~TOWER~~ AVENUE OVERCROSSING

LOCATED ABOUT 1.5 MILE NORTHWEST OF THE BEGINNING OF THE PROJECT AT PRINCETON AVENUE IN FRESNO

GENERAL PLAN

SCALE AS SHOWN | BRIDGE 42-148 | FILE | DRAWING C-5382-1

PREL. DRAWING No. P- 5382

115

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 9/16/01 SIGNATURE [illegible] TITLE HAC II

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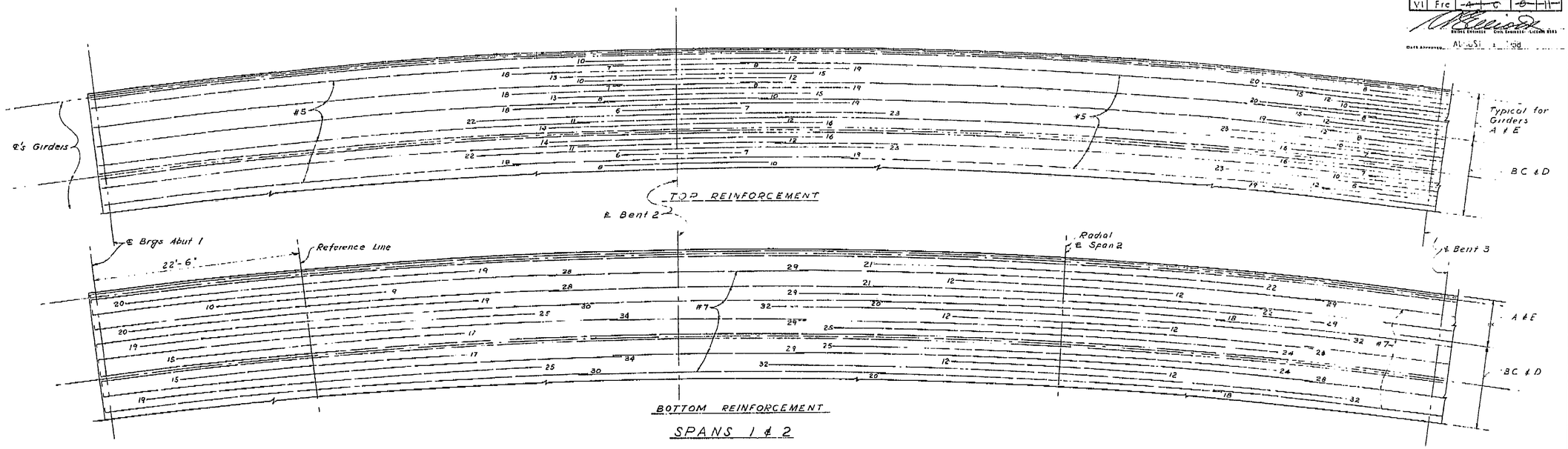
F-0194(4)

FED. ROAD DIV NO	STATE	PROJ No	FISCAL YEAR	SHEET NO	TOTAL SHEETS
7	CALIF.			122	210

DIST.	COUNTY	ROUTE	REVISION	BRIDGE NO	TOTAL SHEETS
VI	Fre	-A-	C	-0-	11

Bridge Engineer — Civil Engineer — Location Engr.

Date Approved: August 1960



Note:
All bars #10 except as shown
Numbers @ ends of bars indicate length of bars from ℄ Brgs @ Abut., ℄ of Bent, ℄ Span or Reference Line
Bars in top of girder stems to be lapped 35 bar dia.

AS BUILT
Corrections by R. E. Hawkamp
Date November 18, 1959
Contract 59-87C10-F

AS BUILT PLANS
Contract No. 59-67C10
Date Completed
Document No. 60000997

BRIDGE DEPARTMENT
DESIGN SECTION 6
Project Designer: O. Borden
Chief Designer: [illegible]

DESIGN	By T. Bowler	Checked [illegible]	
DETAILS	By C. Fuentes	Checked [illegible]	
QUANTITIES	By L. Yamagishi	Checked L. Bartlett	
SPECIFICATIONS	By	Plans and Specs. Checked	
Approval Recommended by: [illegible] Engineer of Design		Civil and Structural Engr. License No. 7439	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

DAKOTA ~~TOWER~~ OVERCROSSING

GIRDER REINFORCEMENT

SCALE	BRIDGE	FILE	DRAWING
NONE	42-148		C5382-8

PREL. DRAWING No. P-5382 (6-46)

122

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 11/16/71 SIGNATURE [signature] TITLE HAC II

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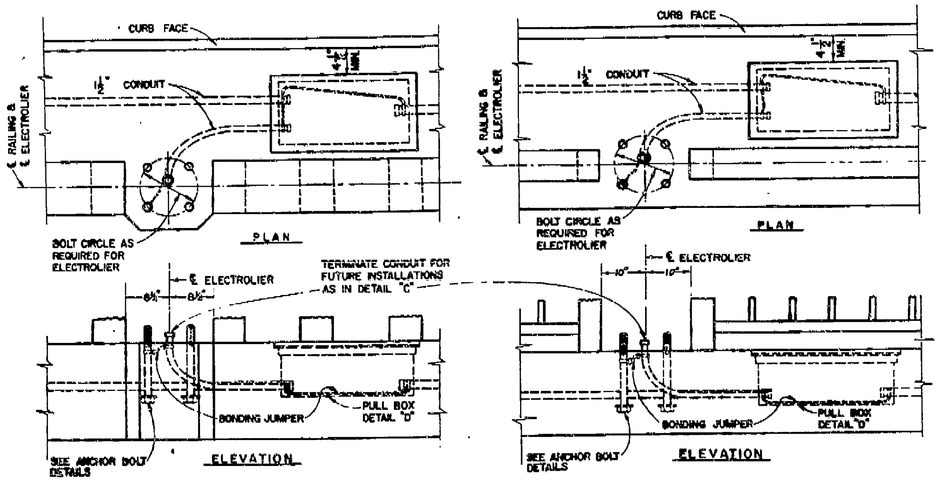
PROJECT NO.	STATE	ROUTE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CAL.			125	210

DIST.	COUNTY	ROUTE	POST MILE	SHEET NO.	TOTAL SHEETS
VI	FRE	4	6	11	11

APPROVED 99

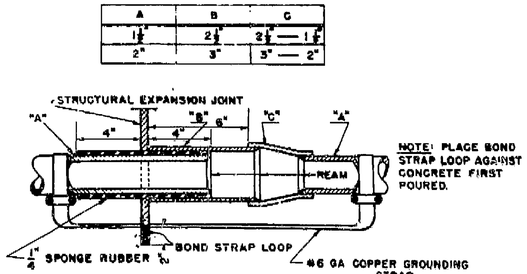
AUGUST 4 1958

BRIDGE DEPARTMENT



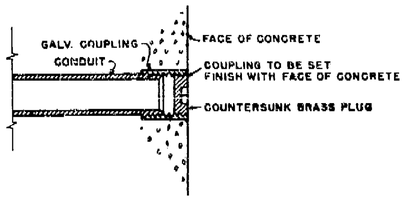
TYPICAL ELECTROLIER BASE - DETAIL "A"
SCALE: 1" = 1'-0"
CONCRETE RAILING STRUCTURE

TYPICAL ELECTROLIER BASE - DETAIL "B"
SCALE: 1" = 1'-0"
STEEL RAILING STRUCTURE

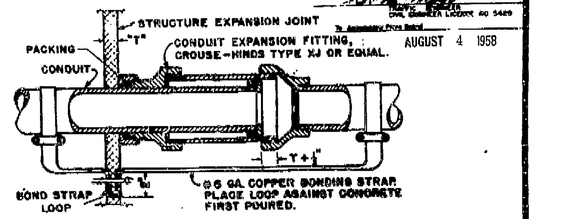


EXPANSION JOINT FITTING - DETAIL "Y"
SCALE: 3" = 1'

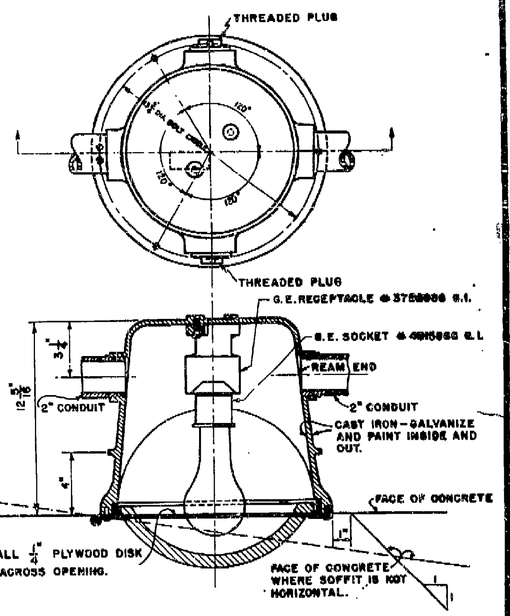
2" CONDUIT SHOWN. CONSTRUCTION SIMILAR FOR OTHER SIZE CONDUIT. GALVANIZE FITTING AFTER FABRICATION



CONDUIT STUB - DETAIL "C"
NOT TO SCALE

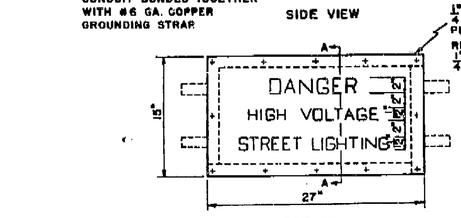


CONDUIT EXPANSION FITTING - DETAIL "X"



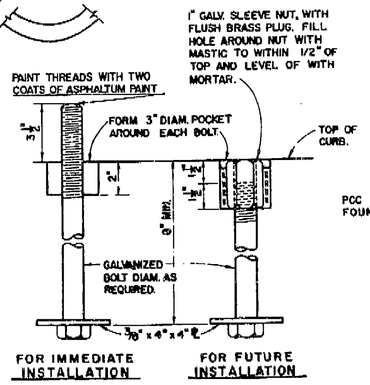
RECESS SOFFIT LIGHT - DETAIL "E"
SCALE: ¼" = 1"

HOLOPHANE #15545 UNLESS OTHERWISE SPECIFIED. FIXTURE TO BE INSTALLED WITH AXIS VERTICAL AND LIGHT DIRECTED TOWARDS CENTER OF ROADWAY.

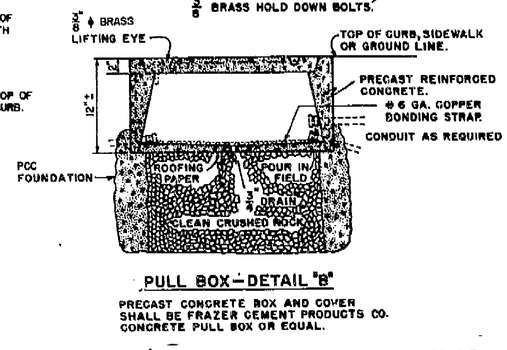


NOTE: FRAME AND COVER TO BE GALVANIZED AFTER FABRICATION.

TYPICAL BRIDGE PULL BOX - DETAIL "D"
SCALE: 1½" = 1'-0"



ANCHOR BOLT ARRANGEMENT
SCALE: 3" = 1'-0"



PULL BOX - DETAIL "B"

PRECAST CONCRETE BOX AND COVER SHALL BE FRAZER CEMENT PRODUCTS CO. CONCRETE PULL BOX OR EQUAL.

AS BUILT
Corrections by P. E. Haverkamp
Date November 18, 1959
Contract 59-67C10-F

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

DAKOTA ~~TOWER~~ OVERCROSSING
LOCATED ABOUT 1.5 MILE NORTHWEST OF THE BEGINNING OF THE PROJECT AT PRINCETON AVENUE IN FRESNO

STANDARD LIGHTING DETAILS - BRIDGE

SCALE AS NOTED	BRIDGE	FILE	DRAWING C5382-11

PREL. DRAWING NO. P- 5382 49

AS BUILT PLANS
Contract No. 59-67C10
Date Completed
Document No. 60000997

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 9/16/21 SIGNATURE [illegible] TITLE HAC II

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F-0194(4)

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			120	210

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	4	C	40	44

ROBERT ERSKINE Civil Engineer License 5865

DATE APPROVED AUG 31 1959

#6
#5 □ @ 18" (3")
#5 tot. 4
#6
1'-6"
Sole ℄ Fillet

SECTION A-A
SCALE 1½" = 1'-0"

End diaphragm
1:1
Sole ℄
ELEVATION

℄ Brg
℄ End Diaphragm
BOTTOM VIEW

DETAIL OF FILLET AT SOLE PLATE
Scale: 1½" = 1'-0"

℄ Brgs. Abut. 1
℄ Bent No. 2
℄ Diaphragm = ℄ Span 2
℄ Bent 3

Sidewalk
Curb
Detail D-1
Detail V-1
"R-5" Line R = 550'
A
B
C
D
E
R=574.375'
R=567.458'
R=560.542'
R=553.625'
R=546.708'
12'-0"
14'-0"
2'-9"
8'-0"

PLAN

℄ Bent 2
#8 tot 2 each stem
#8 x 34'-0" tot 2 each stem
℄ Bent 3
12'-0"
14'-0"
14'-0"
2'-9"
3"

#5 □ & U Stirrup Spacing
All Girders
3@10" 6@12" 3@15" @18" 3@15" 5@12" 8@10" 4@9" 5@9" 7@9" 10@9" 4@12" 4@15" @18" 3@15" 5@12" 8@10" 9@9" 5@8"

Note
Numbers at ends of bars indicate length from ℄ Bent

LONGITUDINAL SECTION

¼ Span ½ Span ¾ Span 1 Span ½ Span ¾ Span
1" 9/16" 1" 1" 13/16" 1" 9/16"
A but. No. 1
Bent No. 2
Bent No. 3

ULTIMATE DEAD LOAD DEFLECTION DIAGRAM
No Scale

AS BUILT
Corrections by R. E. Hawkesworth
Date November 18, 1959.
Contract 59-67C10-F

AS BUILT PLANS
Contract No. 59-67C10
Date Completed
Document No. 60000797

BRIDGE DEPARTMENT
DESIGN SECTION 6

Project Designer	C. Pressler	
Chief Designer	[illegible]	
DESIGN	By C. Pressler	Checked [illegible]
DETAILS	By C. Pressler	Checked [illegible]
QUANTITIES	By S. Yamasaki	Checked [illegible]
SPECIFICATIONS	By	Plans and Specs. Compared
Approval Recommended by [illegible] Engineer of Design		Field and Structural Steel Approved No. 6330

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

DAKOTA ~~TOWER~~ OVERCROSSING

GIRDER LAYOUT SPANS 1 & 2

SCALE	BRIDGE	FILE	DRAWING
1/8" = 1'-0"	42-148		5382-6

PREL. DRAWING NO. P- 5382 4 14

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 9/16/21 SIGNATURE [signature] TITLE HAC II

120

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California Department of Transportation
Division of Maintenance

Structure Maintenance and Investigations

BRIDGE

INSPECTION

RECORDS

INFORMATION

SYSTEM

The requested documents have been generated by BIRIS.

These documents are the property of the California Department of Transportation and should be handled in accordance with Deputy Directive 55 and the State Administrative Manual.

Records for “Confidential” bridges may only be released outside the Department of Transportation upon execution of a confidentiality agreement.

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	99	23 3/50 7	125	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

VENTURA STREET OC 42-0158K
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION E	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	78 m

VENTURA STREET OC 42-0158E
QUANTITIES

BRIDGE REMOVAL (PORTION) LOCATION F	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	122 m

VENTURA STREET OC 42-0158S
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION G	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	74 m

NOTES

— — Indicates existing

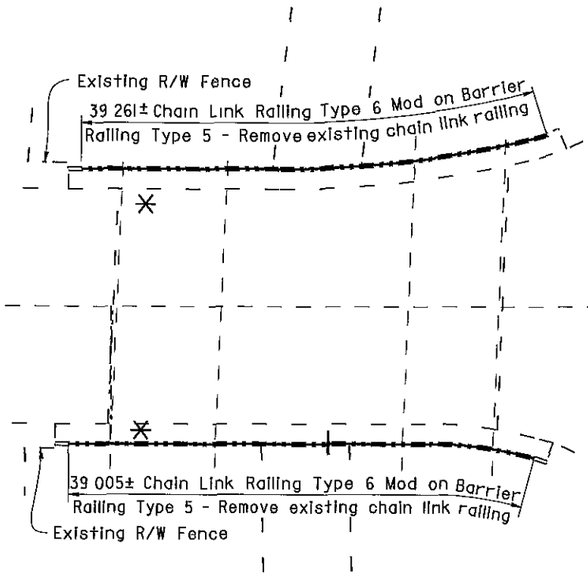
℄ Indicates approximate location of existing electroller (To remain)

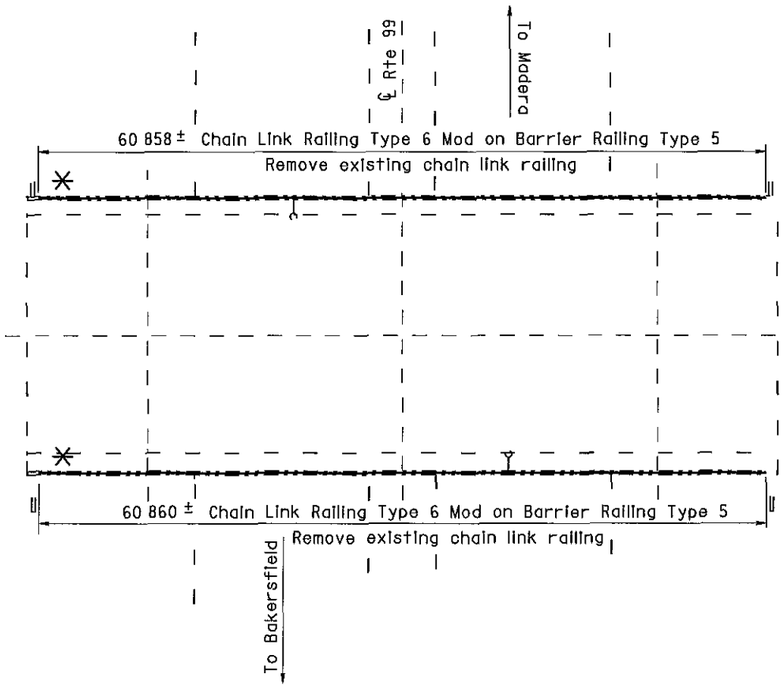
Indicates approximate location of remove and reinstall sign on new post

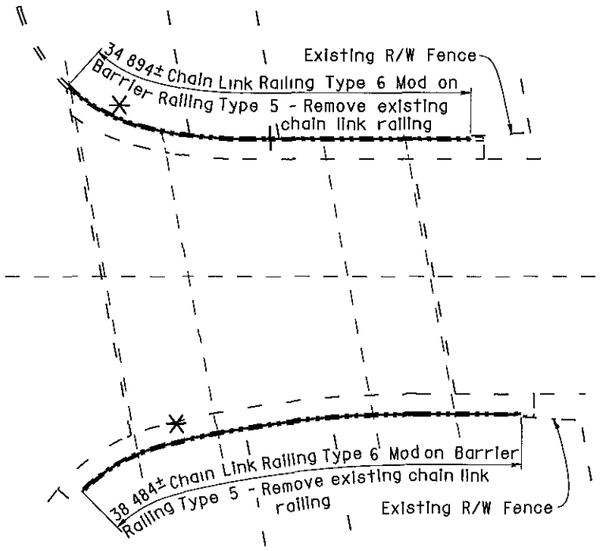
Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.







Br No 42-0158K

Bridges 42-0158K and 42-0158S were both painted with Color No. 20109 - "Deep red".

Br No. 42-0158E

VENTURA STREET OC

Fre, KP 32 5
I 250

AS BUILT
MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

Br No 42-0158S

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

	BY		CHECKED			BY		CHECKED			
DESIGN	D Acoba	4/00	F Tannous	5/00	LAYOUT	K Endow	4/00	D Acoba	4/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE
DETAILS	K Endow	4/00	F Tannous	5/00				PLANS AND SPECS COMPARED			
QUANTITIES	D Acoba	5/00	F Tannous	5/00	SPECIFICATIONS	J Maroney	9/00	J Maroney	9/00		

Michael J Lee 10/3/00
DESIGN ENGINEER

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE => nagp3.dgn

BRIDGE NO Various
KILOMETER POST Varies

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/17/00 | 9/28/00 | 10/1/00

ROUTE 99 BRIDGES
GENERAL PLAN NO. 3

SHEET 3 OF 11

USERNAME => mcarlson DATE PLOTTED => 03 JAN 2003 TIME PLOTTED => 08 32

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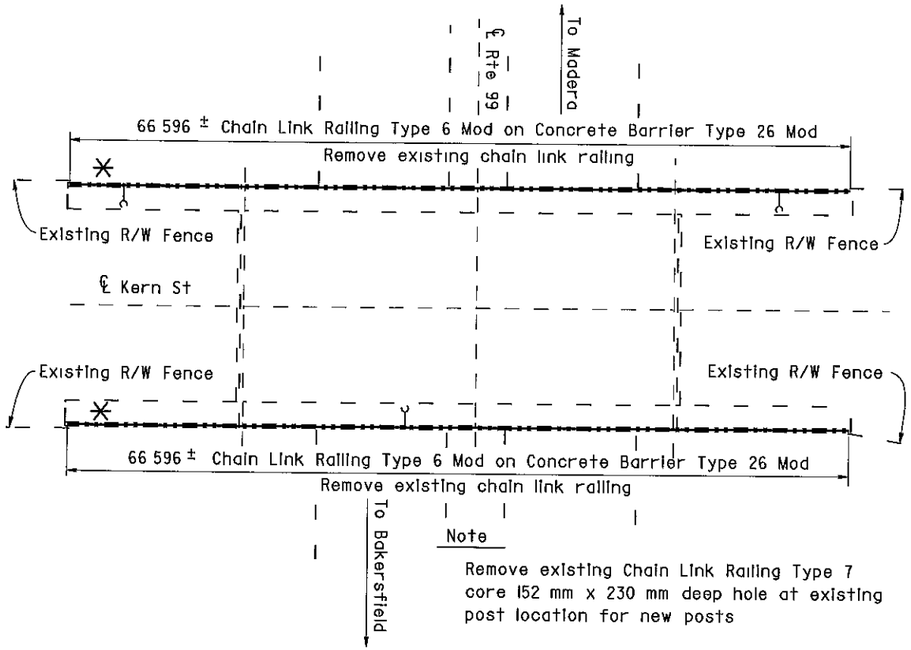
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	126	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

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Note

Remove existing Chain Link Railing Type 7 core 152 mm x 230 mm deep hole at existing post location for new posts

KERN STREET OC

Br No 42-0159, Fre, KP 33 0
1 250

KERN STREET OC 42-0159
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION H	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	133 m

TULARE STREET OC 42-0169
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION I	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	166 m

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

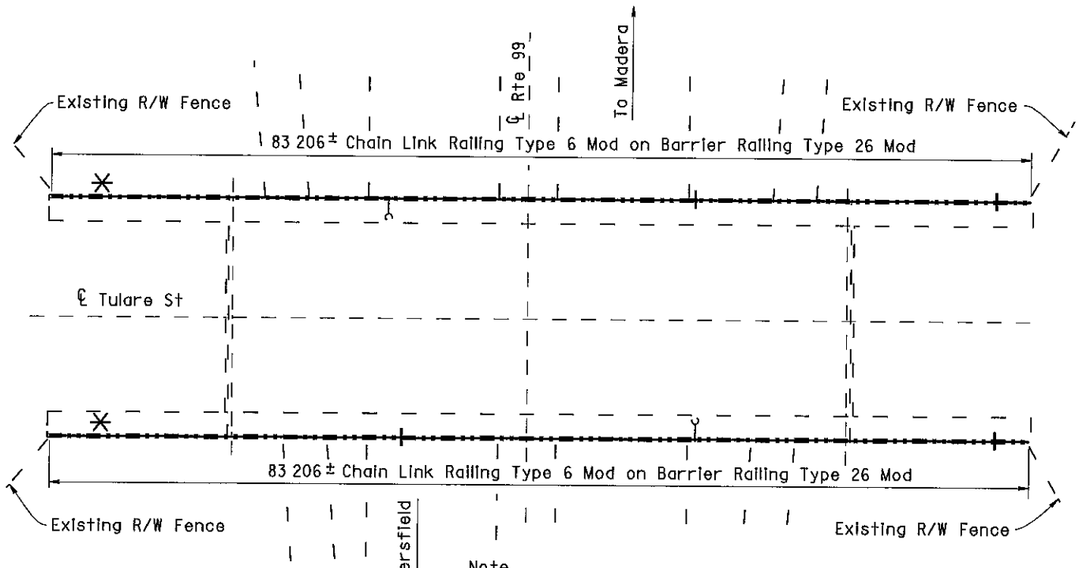
NOTES

— — Indicates existing

℄ Indicates approximate location of existing electrolier (To remain)

Indicates approximate location of remove and reinstall sign on new post

Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details



Note

Remove existing Chain Link Railing Type 7 core 152 mm x 230 mm deep hole at existing post location for new posts

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

TULARE STREET OC

Br No 42-0169, Fre, KP 33 2
1 250

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00 DESIGN ENGINEER	DESIGN	BY D Acoba 4/00	CHECKED F Tannous 5/00	LAYOUT	BY K Endow 4/00	CHECKED D Acoba 4/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE	BRIDGE NO Various
	DETAILS	BY K Endow 4/00	CHECKED F Tannous 5/00						KILOMETER POST Varies
	QUANTITIES	BY D Acoba 5/00	CHECKED F Tannous 5/00	SPECIFICATIONS	BY J Maroney 9/00	PLANS AND SPECS COMPARED J Maroney 9/00		CU 06015 EA 440101	DISREGARD PRINTS BEARING EARLIER REVISION DATES

ROUTE 99 BRIDGES
GENERAL PLAN NO. 4

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 7/17/00 9/26/00 10/3/00

SHEET 4 OF 11

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

FILE > nagp4 dgn

USERNAME > mcarlson DATE PLOTTED > 03-JAN-2003 TIME PLOTTED => 08:38

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	127	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

FRESNO STREET OC 42-0170
QUANTITIES

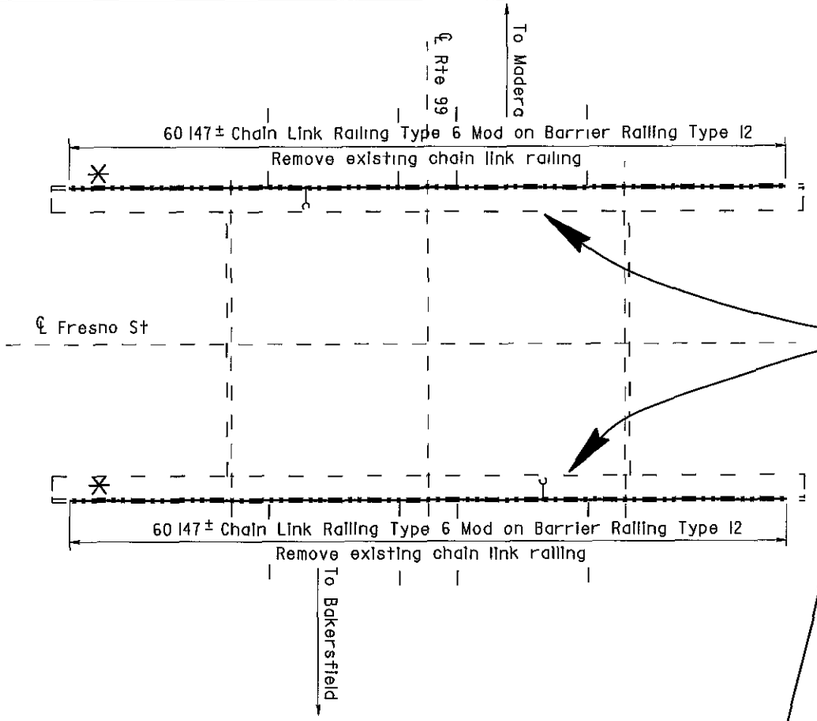
BRIDGE REMOVAL (PORTION), LOCATION J	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	120 m

EL DORADO STREET OC 42-0184
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION K	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	122 m

BELMONT AVENUE OC 42-0186
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION L	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	138 m



Handrail added to Fresno St. and Belmont Ave. OC

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

NOTES

— — Indicates existing

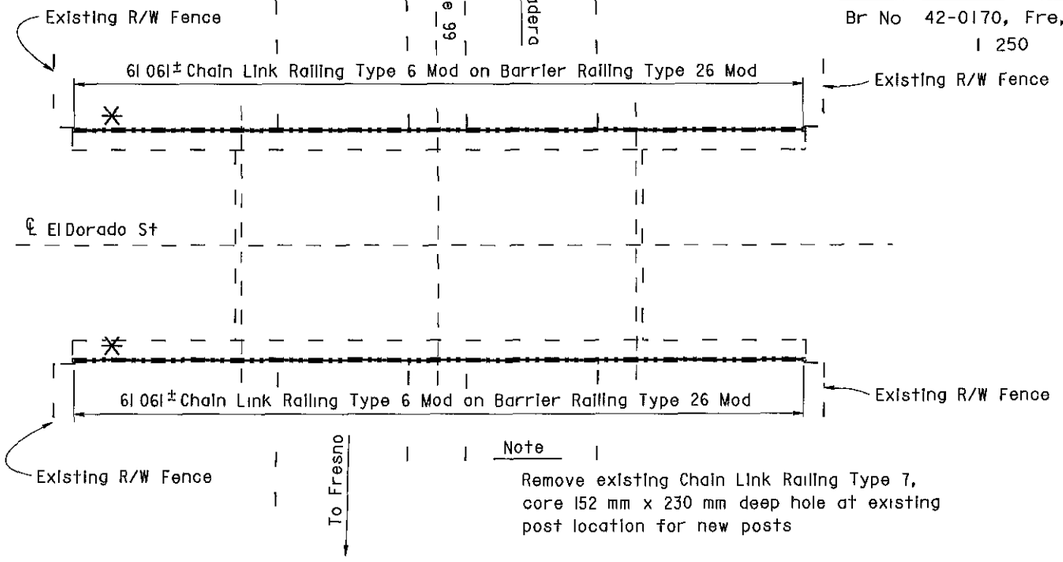
℄ Indicates approximate location of existing electrolier (To remain)

Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

FRESNO STREET OC

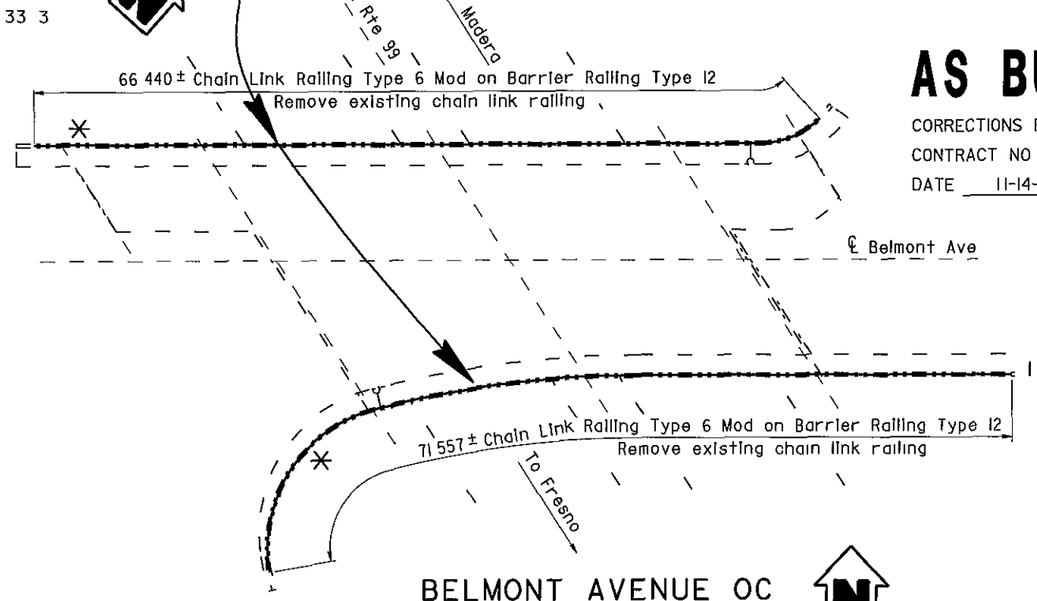
Br No 42-0170, Fre, KP 33 3
1 250



Note
Remove existing Chain Link Railing Type 7, core 152 mm x 230 mm deep hole at existing post location for new posts

EL DORADO STREET OC

Br No 42-0184, Fre, KP 34 6
1 250



BELMONT AVENUE OC

Br No 42-0186, Fre, KP 36 5
1 250

AS BUILT
MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED		LAYOUT	BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00		K Endow	4/00	D Acoba	4/00
DETAILS	K Endow	4/00	F Tannous	5/00				PLANS AND SPECS COMPARED	
QUANTITIES	D Acoba	5/00	F Tannous	5/00	SPECIFICATIONS	J Maroney	9/00	J Maroney	9/00

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

CU 06015
EA 440101

FILE => nogp5.dgn

BRIDGE NO	Various
KILOMETER POST	Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 5

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)									
5/15/00	7/17/00	9/26/00	10/3/00						

SHEET 5 OF 11

USERNAME => marison DATE PLOTTED => 03-JAN 2003 TIME PLOTTED => 06 50

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	128	133

10/3/00
REGISTERED CIVIL ENGINEER

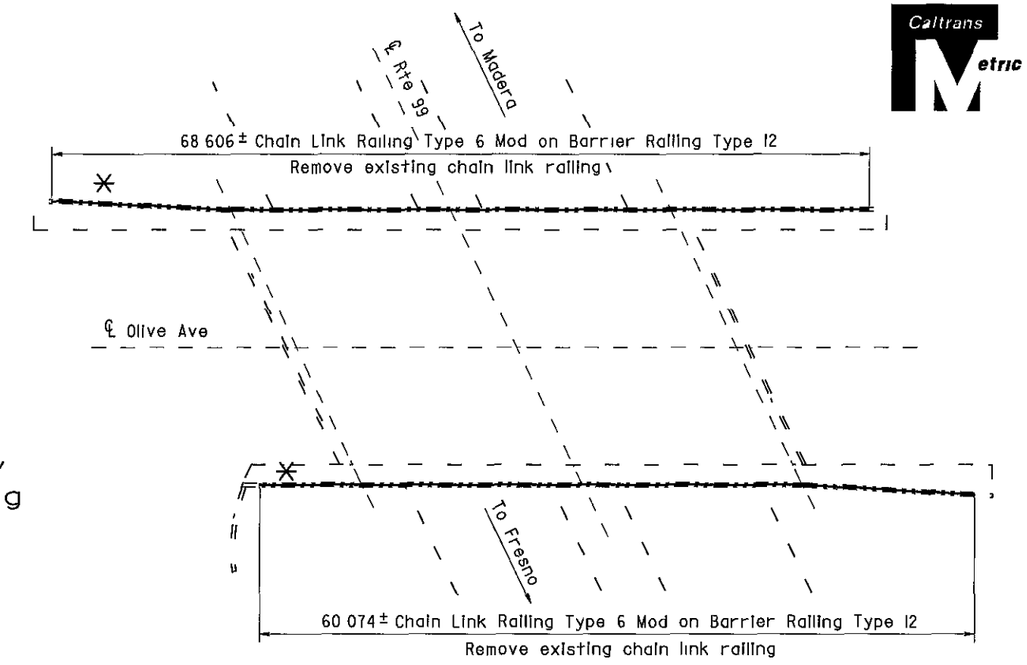
11-13-00
PLANS APPROVAL DATE

DIOSDADO ACOBA No 52003 Exp 12-31 02 CIVIL STATE OF CALIFORNIA REGISTERED PROFESSIONAL ENGINEER

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.



OLIVE AVENUE OC

Br No 42-0187, Fre, KP 37 5
1 250

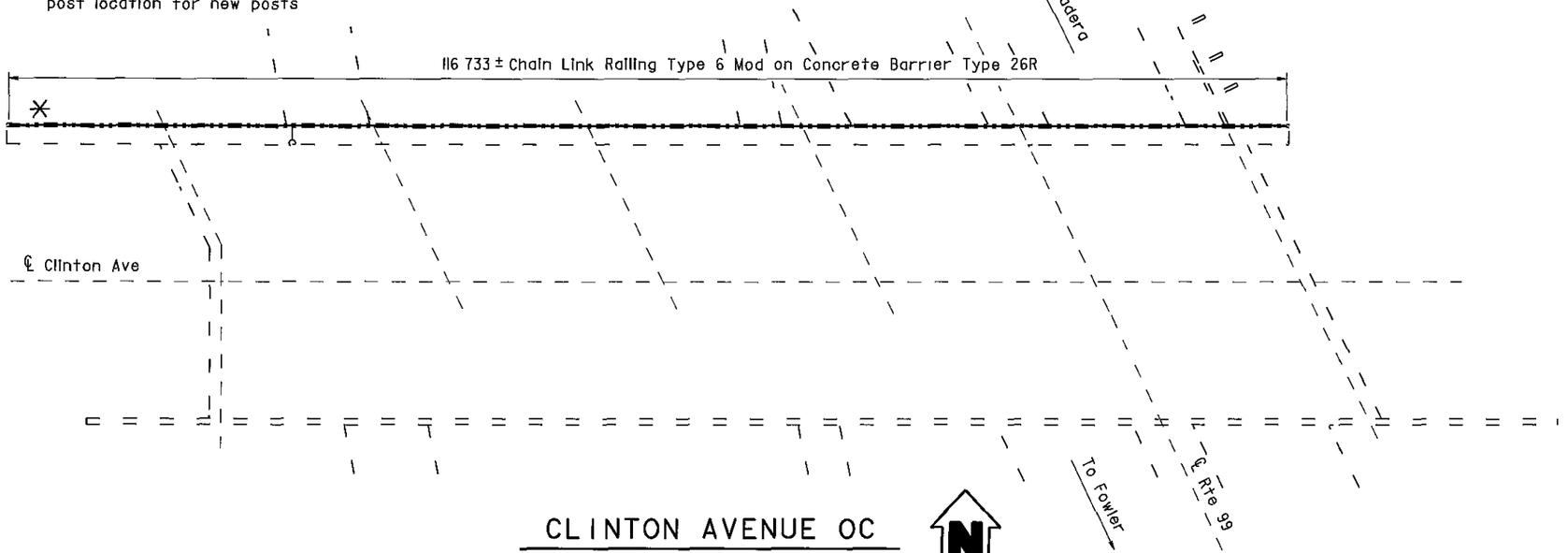
NOTES

— — Indicates existing

℄ Indicates approximate location of existing electrolier (To remain)

Note

Remove existing Chain Link Railing Type 7 core 152 mm x 230 mm deep hole at existing post location for new posts



CLINTON AVENUE OC

Br No 42-0183, Fre, KP 39 3
1 250

OLIVE AVENUE OC 42-0187
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION M	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	129 m

CLINTON AVENUE OC 42-0183
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION N	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	116 m

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED		BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00	LAYOUT	K Endow	4/00	D Acoba 4/00
DETAILS	K Endow	4/00	F Tannous	5/00				
QUANTITIES	D Acoba	5/00	F Tannous	5/00	SPECIFICATIONS	J Maroney	9/00	PLANS AND SPECS COMPARED J Maroney 9/00

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 6

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE => nagp6.dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/17/00 | 9/26/00 | 10/3/00

SHEET 6 OF 11

USERNAME => mcarlson DATE PLOTTED => 03 JAN-2003 TIME PLOTTED => 08 53

ClibPDF - www.fastio.com

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	129	133

10/3/00
REGISTERED CIVIL ENGINEER

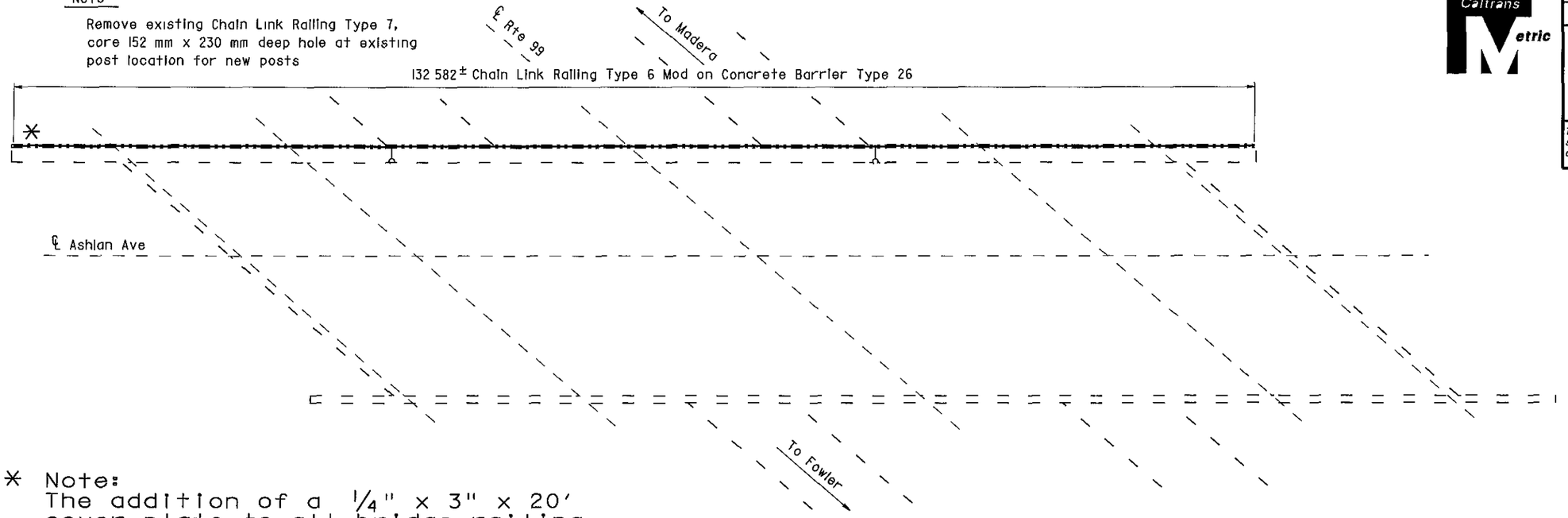
11-13-00
PLANS APPROVAL DATE

DIOSDADO ACOBA No 52003 Exp 12-31-02 CIVIL STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

Note

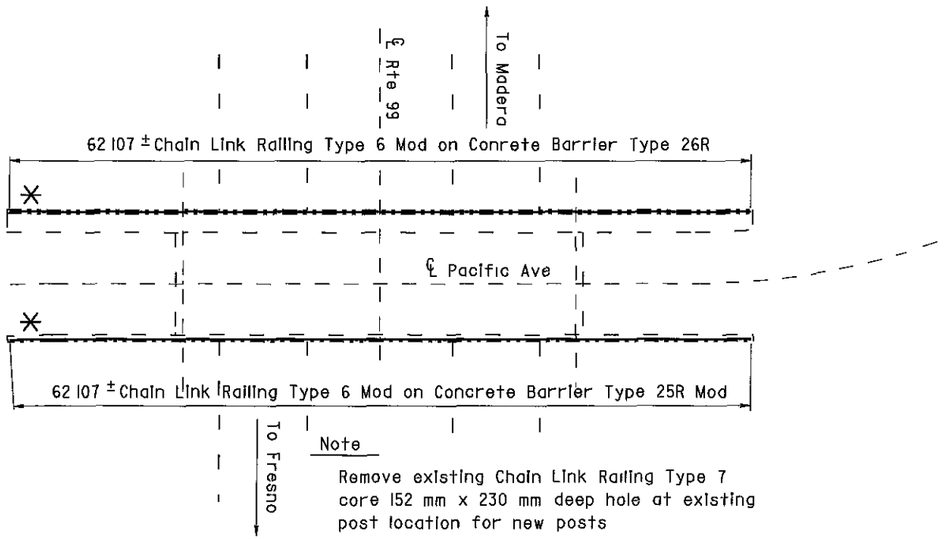
Remove existing Chain Link Railing Type 7, core 152 mm x 230 mm deep hole at existing post location for new posts



* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

ASHLAN AVENUE OC

Br No 42-0140, Fre, KP 42 8
1 250



Note

Remove existing Chain Link Railing Type 7 core 152 mm x 230 mm deep hole at existing post location for new posts

PACIFIC AVENUE OC

Br No 42-0189, Fre, KP 36 0
1 250

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

NOTES

— — Indicates existing

℄ ↓ Indicates approximate location of existing electrolier (To remain)

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

ASHLAN AVENUE OC 42-0140
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION O	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	133 m

PACIFIC AVENUE OC 42-0189
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION P	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	124 m

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

DESIGN	BY D Acoba 4/00	CHECKED F Tannous 5/00	LAYOUT	BY K Endow 4/00	CHECKED D Acoba 4/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE
DETAILS	BY K Endow 4/00	CHECKED F Tannous 5/00					
QUANTITIES	BY D Acoba 5/00	CHECKED F Tannous 5/00	SPECIFICATIONS	BY J Maroney 9/00	PLANS AND SPECS COMPARED J Maroney 9/00		

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 7

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

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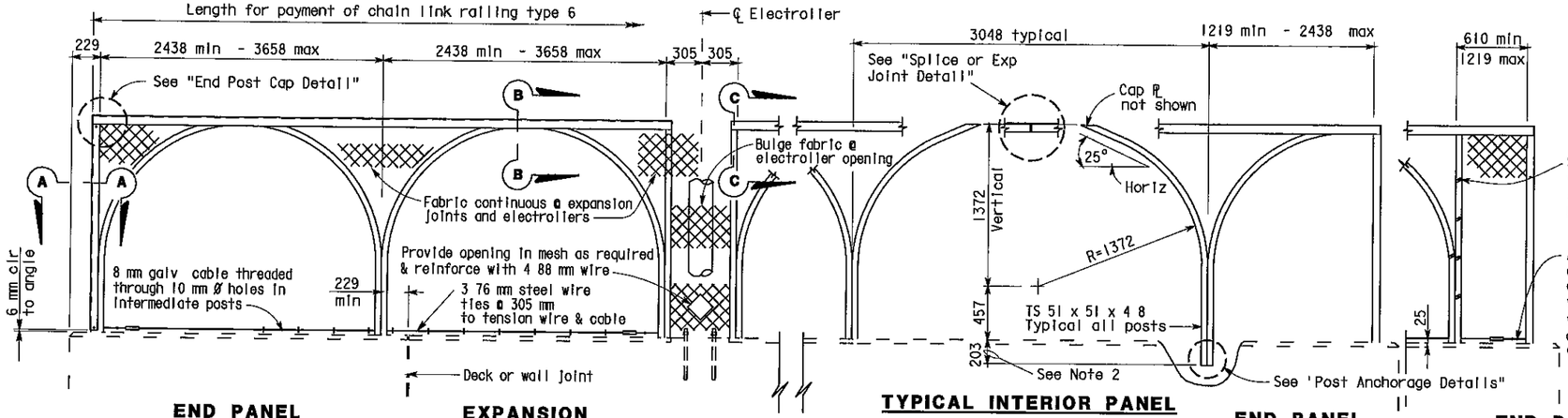
DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 5/15/00 7/17/00 9/26/00 10/3/00

SHEET 7 OF 11

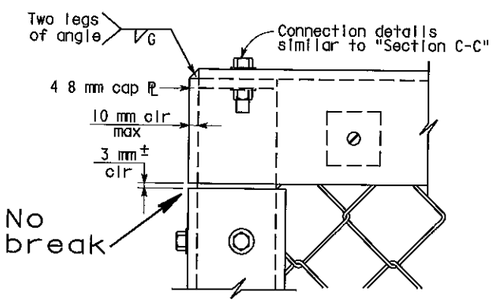
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ClibPDF - www.fastio.com

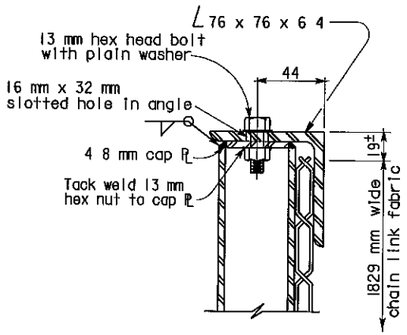


END PANEL 2438 mm - 3658 mm | **EXPANSION PANEL AT ELECTROLIER** | **TYPICAL INTERIOR PANEL** | **END PANEL 1219 mm - 2438 mm** | **END PANEL 610 mm - 1219 mm**

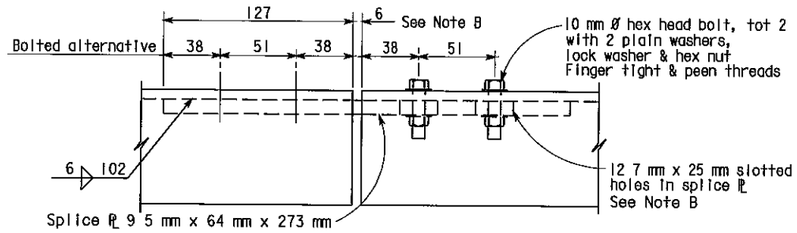
ELEVATION



END POST CAP DETAIL

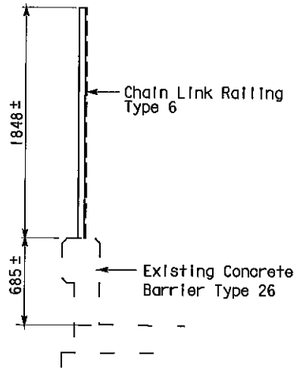


SECTION C-C

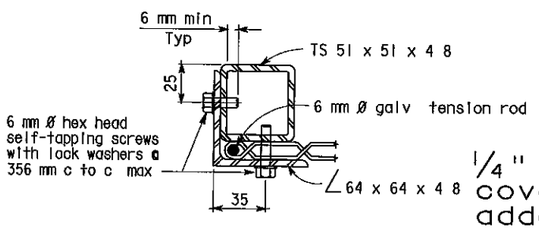


SPLICE OR EXPANSION JOINT DETAIL

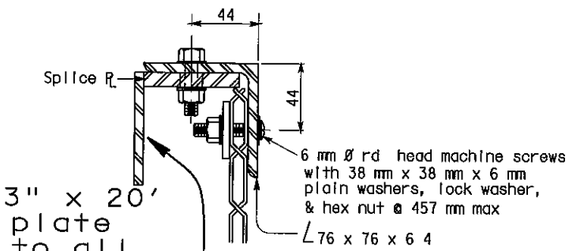
Note B Expansion joint same dimension as expansion joint in deck or wall Increase slotted hole length and splice ℙ length correspondingly



TYPICAL SECTIONS



SECTION A-A



SECTION B-B

NOTES

1. Horizontal angle shall be continuous over not less than two intermediate posts except that a shorter length is permitted at expansion joints, electrollers and other rail discontinuities
2. One post may be embedded 152 mm minimum to accomodate grade changes, otherwise fabricate post lengths as required
3. Curved posts may be rotated in plan within its post pocket to accomodate curved horizontal alignment
4. Straight posts and straight portions of curved posts shall be installed normal to bridge profile grade
5. Top horizontal angle shall be parallel to bridge profile grade and shall be shop bent to fit horizontal curves
6. When railing is on slope, fabric shall be placed parallel to slope
7. Alternative details may be submitted by Contractor for Engineer's approval
8. Railing assembly except chain link fabric shall be galvanized after fabrication
9. For details and reinforcement not shown, see "Concrete Barrier Type 25 or 26" sheet
10. See Bridge Plans for limits of Chain Link Railing Type 6 Mod
11. Provide thimbles at all cable loops
12. Chain link fabric to be 1829 mm wide with 25 mm mesh and with knuckled selvage top and bottom
13. When railing is placed on a horizontal alignment with a radius of 45 72 m or less, thread 8 mm cable through 10 mm Ø welded eye rods embedded 102 mm into the top of the concrete parapet and equally spaced to limit the middle ordinate distance between the 8 mm cable and the curve to 25 mm max
14. Splices and expansion joints shall be located at ℄ panel
15. Holes in posts for 8 mm cable and its anchorage may be field drilled and painted with zinc rich paint

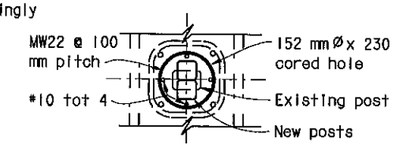
AS BUILT

MRC 1-3-03

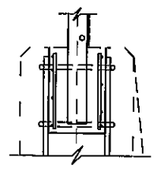
CORRECTIONS BY John Borquez

CONTRACT NO 06-440104

DATE 11-14-02



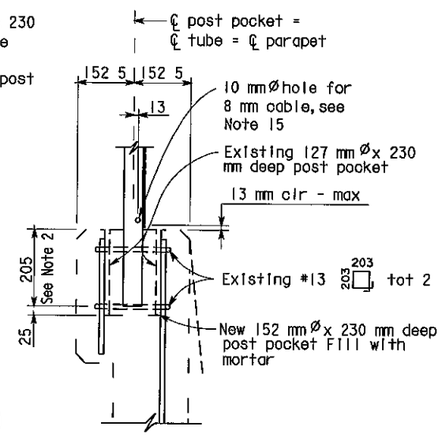
PLAN



SECTION

Detail omitted

POCKET DETAILS



POST ANCHORAGE DETAIL

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	130	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

DESIGN	BY D Acoba	5/00	CHECKED F Tannous	5/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY K Endow	5/00	CHECKED F Tannous	5/00	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE
QUANTITIES	BY D Acoba	5/00	CHECKED F Tannous	5/00	BRIDGE NO Various; KILOMETER POST Varies

ROUTE 99 BRIDGES

CHAIN LINK RAILING TYPE 6 MOD NO. 1

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV 10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE > nat61.dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

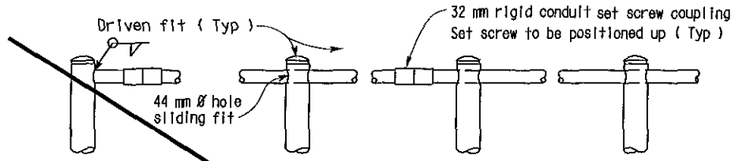
REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/17/00 | 9/26/00 | 10/3/00

SHEET 8 OF 11

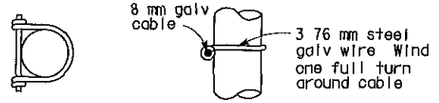
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ClibPDF - www.fastio.com

RELEASED 6-9-98



END POST **INTERMEDIATE POSTS**



PLAN **ELEVATION**

DETAIL H

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
06	Fre	99	23 3/50 7	133	133

10-3-00
REGISTERED ENGINEER - CIVIL

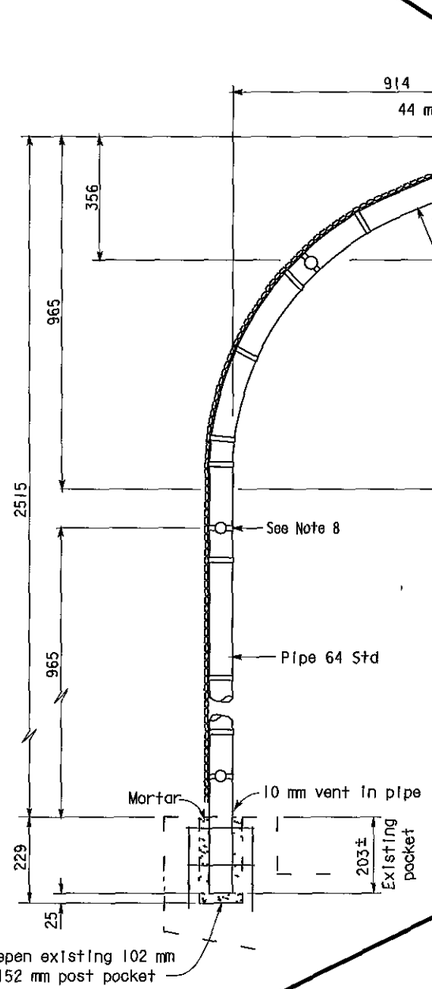
11-13-00
PLANS APPROVAL DATE

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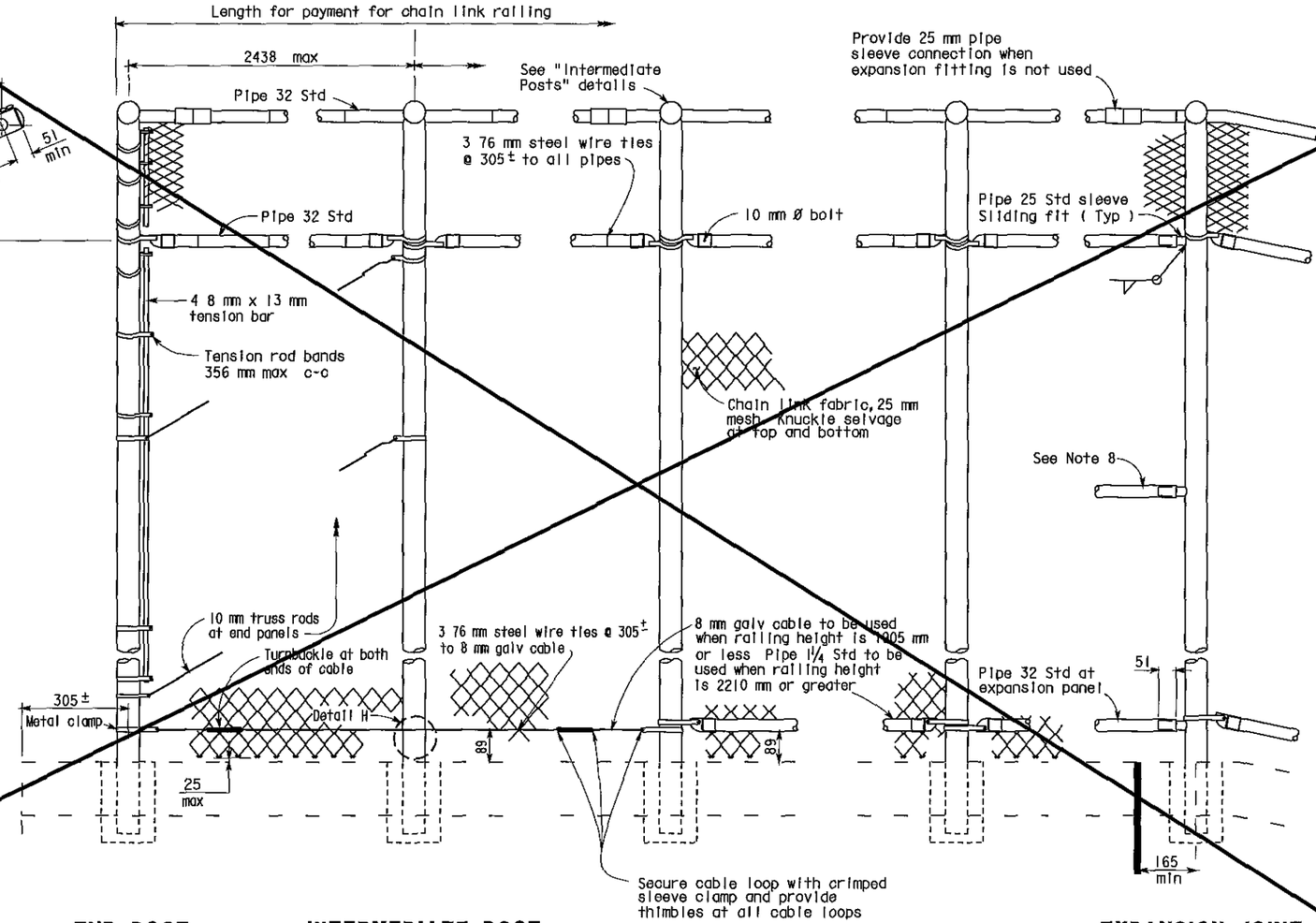
REGISTERED PROFESSIONAL ENGINEER
DIOSDADO ACOBA
No 52003
Exp 12 31 02
CIVIL
STATE OF CALIFORNIA

NOTES:

1 Railing assembly except chain link fabric to be galvanized after fabrication
2 Railing shall conform to horizontal and vertical alignment Posts shall be vertical Horizontal pipes shall be bent if radius is 45 72 m or less may be on 2 438 m chords If radius is over 45 72 m
3 Peen all 10 mm Ø bolts
4 When railing is on slope fabric shall parallel to slope
5 Alternative details may be submitted by Contractor for Engineer's approval
6 Additional pipe 32 std required on radius less than 45 72 m



TYPICAL POST DETAIL



END POST **INTERMEDIATE POST** **EXPANSION JOINT**

ELEVATION

Sheet Deleted

No Type 3 Modified Railing was used on this contract

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

SPECIAL DETAIL

NO SCALE
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

STANDARD DRAWING				
FILE NO XS 9 81	DESIGN BY R W BISHOP	CHECKED J HAMAGUCHI	APPROVAL RECOMMENDED BY	
DRAWING DATE Revised	DETAILS BY R YEE	CHECKED J HAMAGUCHI		
	SUBMITTED BY R W BISHOP		DESIGN SUPERVISOR	

DS OSD 2147A (METRIC) (REV 2/25/97)

1 Revised sheet - removed handrailing and electrical details and notes

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

CU 06105
EA 452001

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
CHAIN LINK RAILING TYPE 3 MOD 1

DISREGARD PRINTS BEARING EARLIER REVISION DATES
REVISION DATES (PRELIMINARY STAGE ONLY) 5/30/00 7/17/00 9/28/00 10/3/00

SHEET 11 OF 11

USERNAME > mgarlson
x5981 dgn
XS981 DGN

DATE PLOTTED > 03-JAN-2003 TIME PLOTTED > 13 32

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	131	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

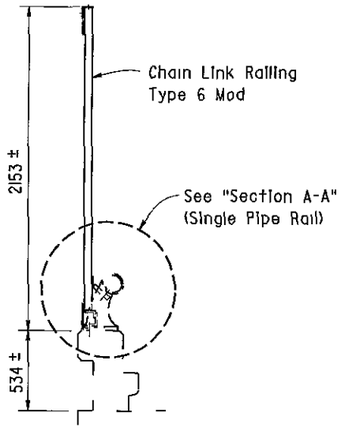
REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

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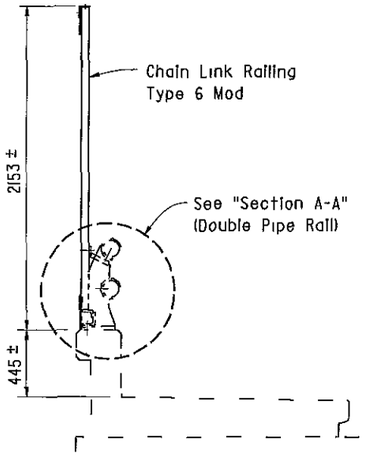
NO CORRECTIONS
AS BUILT

MRC 1-3-03

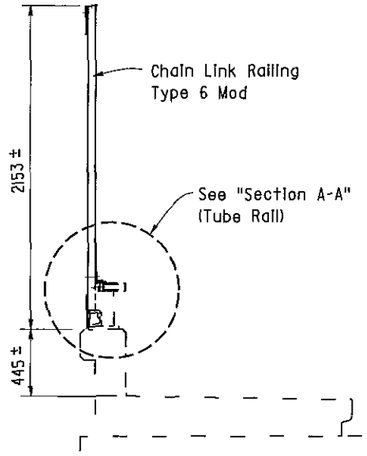
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02



TYPE 1



TYPE 5



TYPE 12

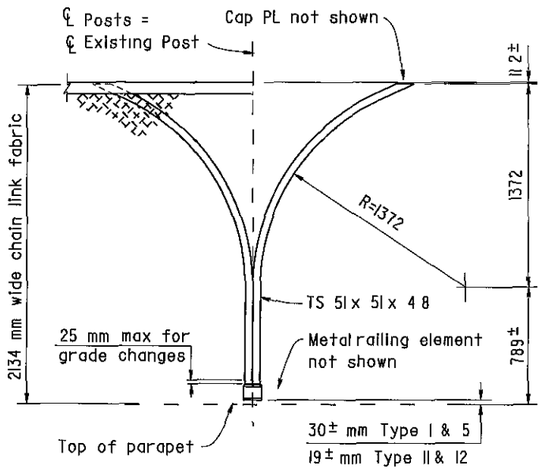
BARRIER RAILING SECTIONS

Existing chain link railing not shown

I 20

TYPE A
- NORTH AVE OC - 2 Locations
- CHURCH AVE OC - 4 Locations
- CALIFORNIA AVE OC - 4 Locations
- VENTURA ST OC - 4 Locations

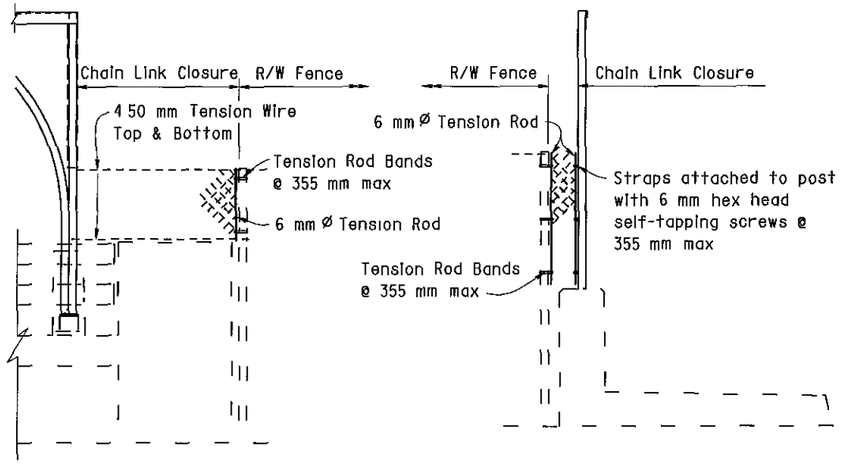
TYPE B
- KERN ST OC - 4 Locations
- TULARE ST OC - 4 Locations
- EL DORADO ST OC - 4 Locations



PART OUTSIDE ELEVATION

Note For details and notes not shown, see "Chain Link Railing Type 6 Mod No 1" sheet

I 10

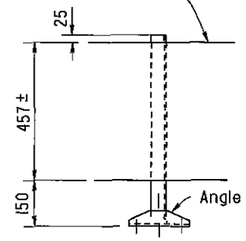


TYPE A TYPE B

R/W FENCE CONNECTION

I 10

Remove existing sign panels and reinstall on new post



TULARE ST OC

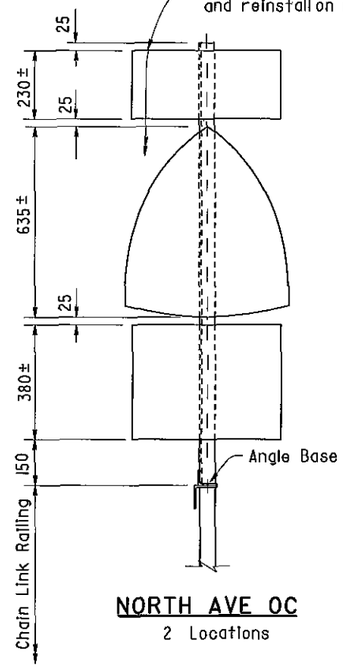
4 Loactions

Note

Reinstall signs at approximately the same location on chain link railing as existing

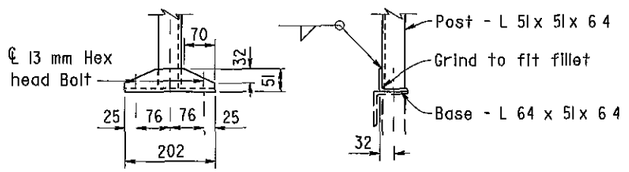
NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Remove existing sign panels and reinstall on new post



NORTH AVE OC

2 Locations



ANGLE BASE

Note

Hot dip galvanize sign post after fabrication
Field drilled holes to be painted with zinc rich paint

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

	BY		CHECKED	
DESIGN	D Acoba	5/00	F Tannous	5/00
DETAILS	K Endow	5/00	F Tannous	5/00
QUANTITIES	D Acoba	5/00	F Tannous	5/00

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
CHAIN LINK RAILING TYPE 6 MOD NO. 2

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

FILE > nat62.dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/17/00 | 9/26/00 | 10/3/00

SHEET 9 OF 11

USERNAME => mcarlson DATE PLOTTED > 03-JAN-2003 TIME PLOTTED > 13:23

ClibPDF - www.fastio.com

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Caltrans Metric

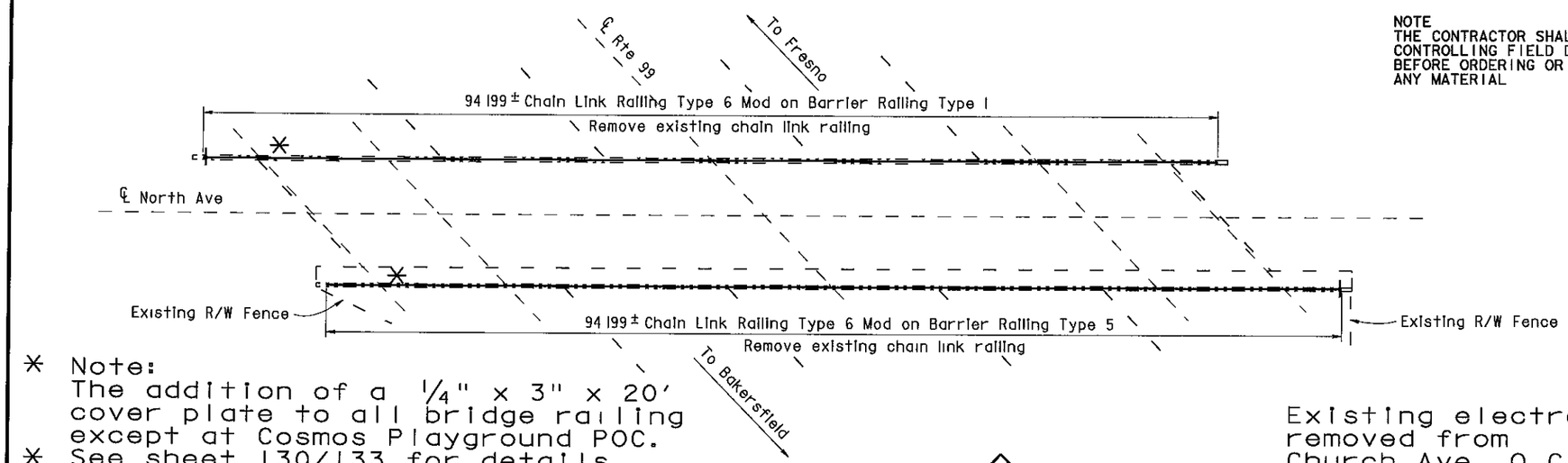
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	123	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DIOSDADO ACOBA
No 52003
Exp 12-31-02
CIVIL
STATE OF CALIFORNIA

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* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

NORTH AVENUE OC

Br No 42-0210, Fre, KP 27 8
1 250

Existing electroliers removed from Church Ave. O.C.

NOTES

— — Indicates existing

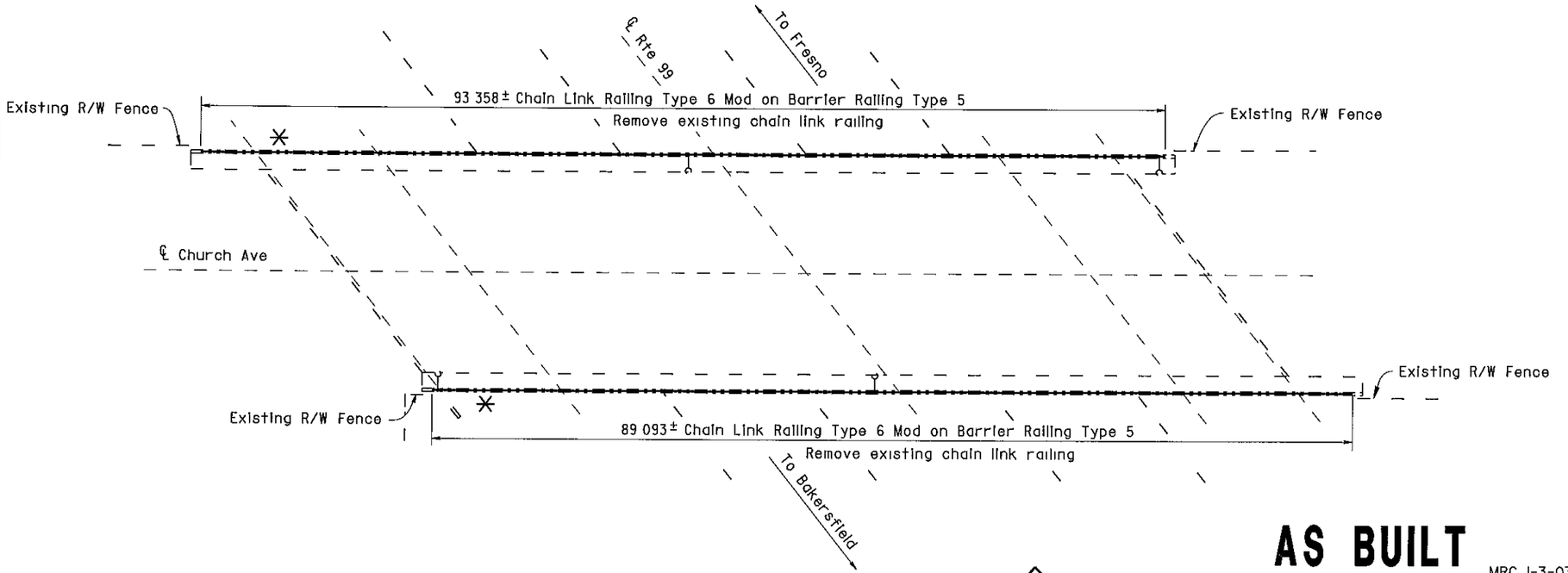
℄ Indicates approximate location of existing electrolier (To remain)

Indicates approximate location of remove and reinstall sign on new post

Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details

INDEX TO PLANS

SHEET NO	TITLE
1	GENERAL PLAN NO 1
2	GENERAL PLAN NO 2
3	GENERAL PLAN NO 3
4	GENERAL PLAN NO 4
5	GENERAL PLAN NO 5
6	GENERAL PLAN NO 6
7	GENERAL PLAN NO 7
8	CHAIN LINK RAILING TYPE 6 MOD NO 1
9	CHAIN LINK RAILING TYPE 6 MOD NO 2
10	CHAIN LINK RAILING TYPE 6 MOD NO 3
11	CHAIN LINK RAILING TYPE 3 MOD



CHURCH AVENUE OC

Br No 42-0214, Fre, KP 30 9
1 250

AS BUILT MRC 1-3-03
CORRECTIONS BY John Borquez
CONTRACT NO 06-440104
DATE 11-14-02

NORTH AVENUE OC 42-0210
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION A	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	189 m

CHURCH AVENUE OC 42-0214
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION B	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	183 m

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED		BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00	LAYOUT	K Endow	4/00	D Acoba	4/00
DETAILS	K Endow	4/00	F Tannous	5/00				PLANS AND SPECS COMPARED	
QUANTITIES	D Acoba	5/00	F Tannous	5/00	SPECIFICATIONS	J Maroney	9/00	J Maroney	9/00

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 1

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06015
EA 440101

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 5/15/00 7/17/00 9/26/00 10/3/00

SHEET 1 OF 11

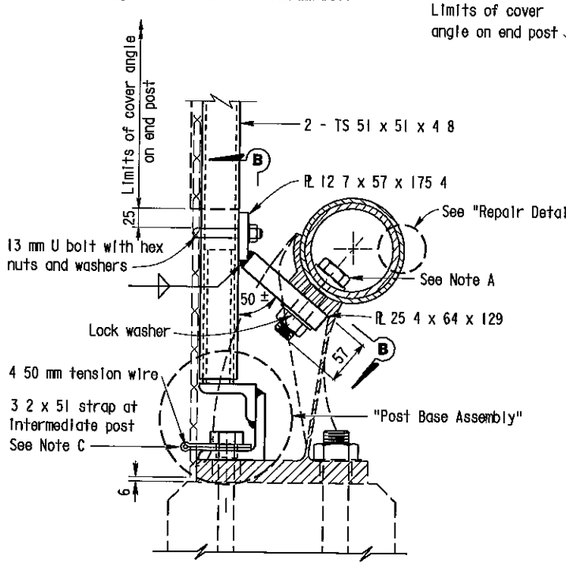
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USERNAME -> mgarson DATE PLOTTED -> 02 JAN 2003 TIME PLOTTED -> 16:55

ClibPDF - www.fastio.com

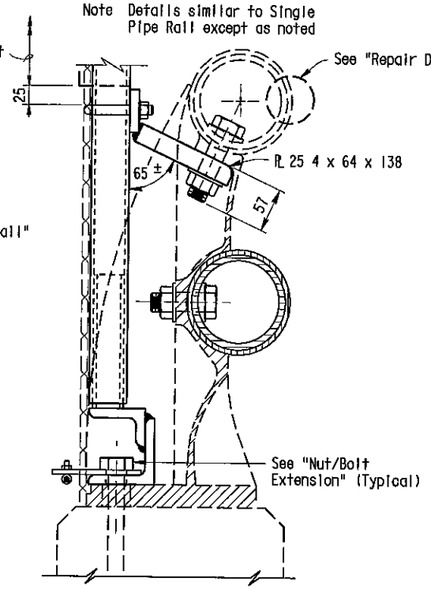
Note A

Replace existing bolt with 25 mm x 102 mm bolt



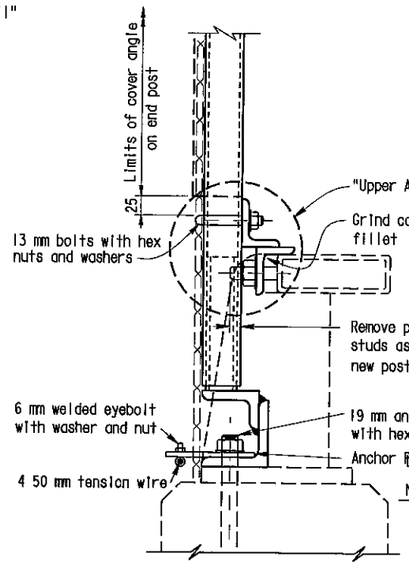
SECTION A-A (SINGLE PIPE RAIL)

Note Details similar to Single Pipe Rail except as noted



SECTION A-A (DOUBLE PIPE RAIL)

Note Details for Type 9 and Type 11 Metal Railing are similar, Type 11 not shown



SECTION A-A (TUBE RAIL)

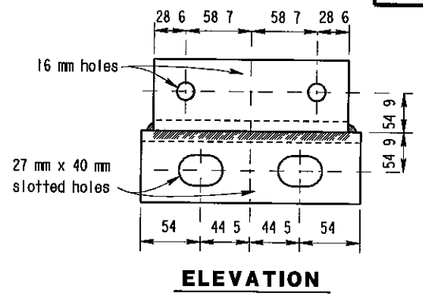
NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Note B

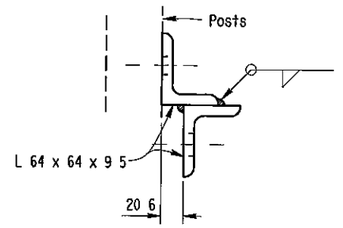
Paint all cut and ground surfaces with zinc rich paint

Note C

At intermediate posts only contractor has an alternate of 3 mm x 51 mm strap or 6 4 mm anchor plate with eyebolt



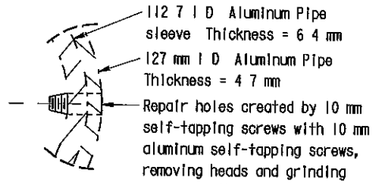
ELEVATION



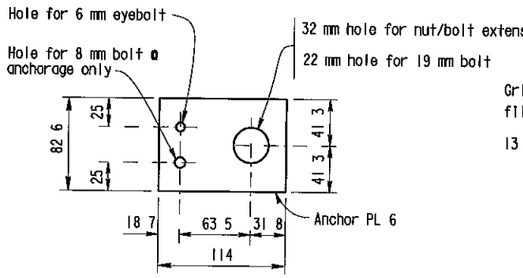
SIDE VIEW

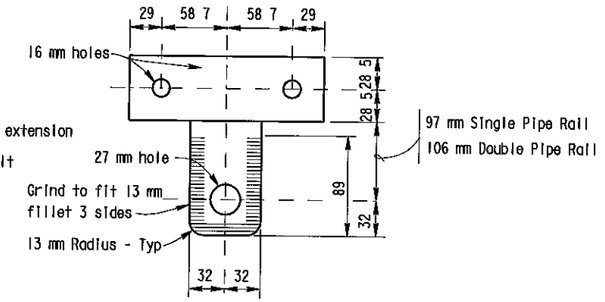
UPPER ANGLE BRACKET

ATTACHMENT DETAILS



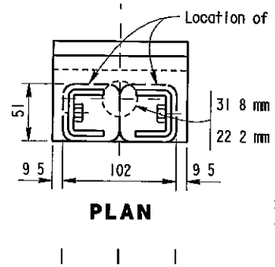
REPAIR DETAIL



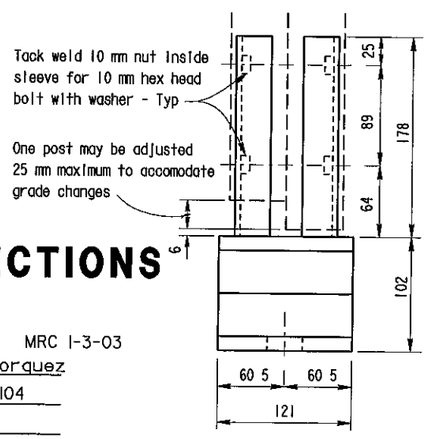


VIEW B-B

(Developed view of upper bracket)

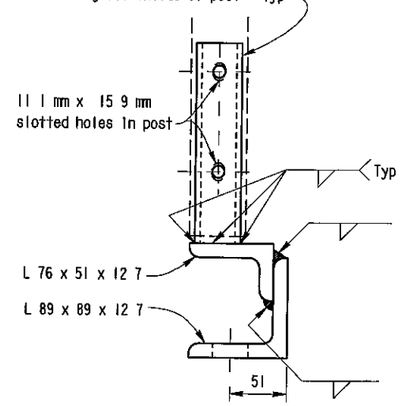


PLAN



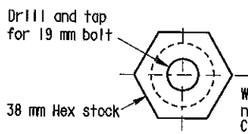
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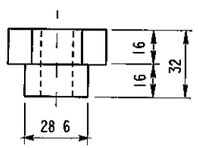
Sleeve formed from PL 4 7, bent thus ⊔ for sliding fit inside of post - Typ



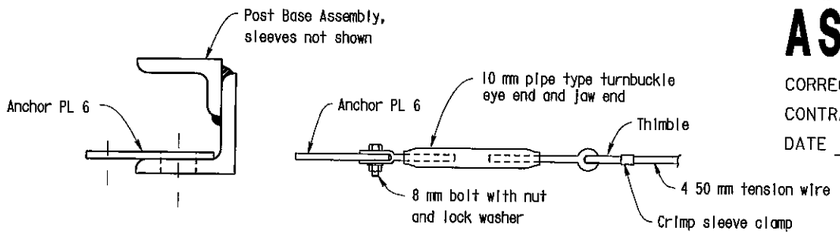
SIDE VIEW

POST BASE ASSEMBLY





NUT/BOLT EXTENSION



BOTTOM ANCHORAGE DETAIL

NO CORRECTIONS AS BUILT

MRC 1-3-03

CORRECTIONS BY John Borquez

CONTRACT NO 06-440104

DATE 11-14-02

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	132	133

10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DIOSDADO ACOBA No 52003 Exp 12-31 02 CIVIL STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

DESIGN	BY D Acoba	5/00	CHECKED F Tannous	5/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY K Endow	5/00	CHECKED F Tannous	5/00	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE
QUANTITIES	BY D Acoba	5/00	CHECKED F Tannous	5/00	CU 06015 EA 440101

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
CHAIN LINK RAILING TYPE 6 MOD NO. 3

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

FILE > nat63 dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 7/17/00 9/26/00 10/3/00

SHEET 10 OF 11

USERNAME > mgarlson DATE PLOTTED > 03 JAN 2003 TIME PLOTTED > 13:26

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	99	23 3/50 7	124	133

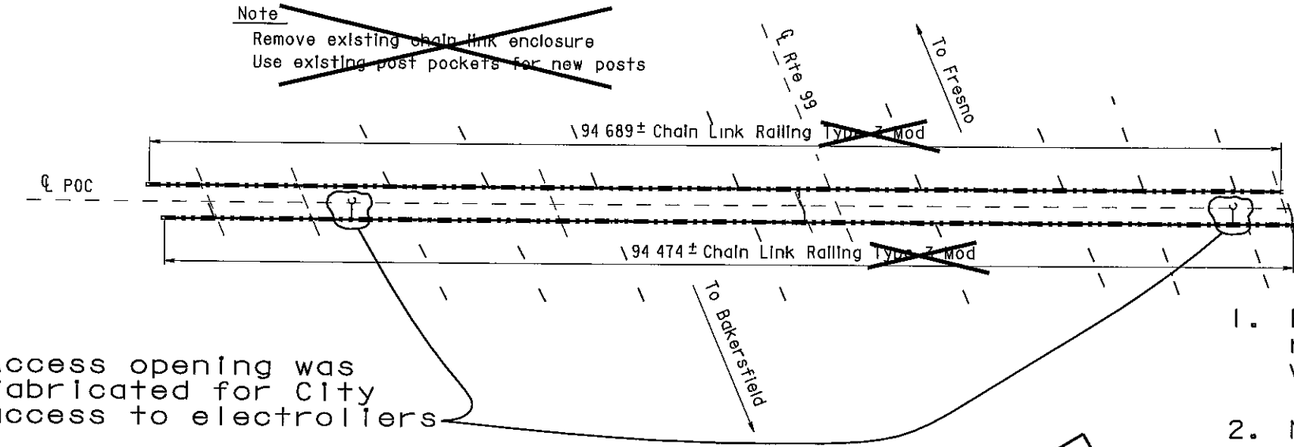
10/3/00
REGISTERED CIVIL ENGINEER

11-13-00
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — Exp 12-31-02 — CIVIL — STATE OF CALIFORNIA

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Note
Remove existing chain link enclosure
Use existing post pockets for new posts



COSMOS PLAYGROUND POC

Br No 42-0215, Fre, KP 31 2
1 250

1. Existing chain link railing remained and was painted.
2. New 1" mesh was installed and replaced the old 2" mesh.
3. Existing electroliers remained.

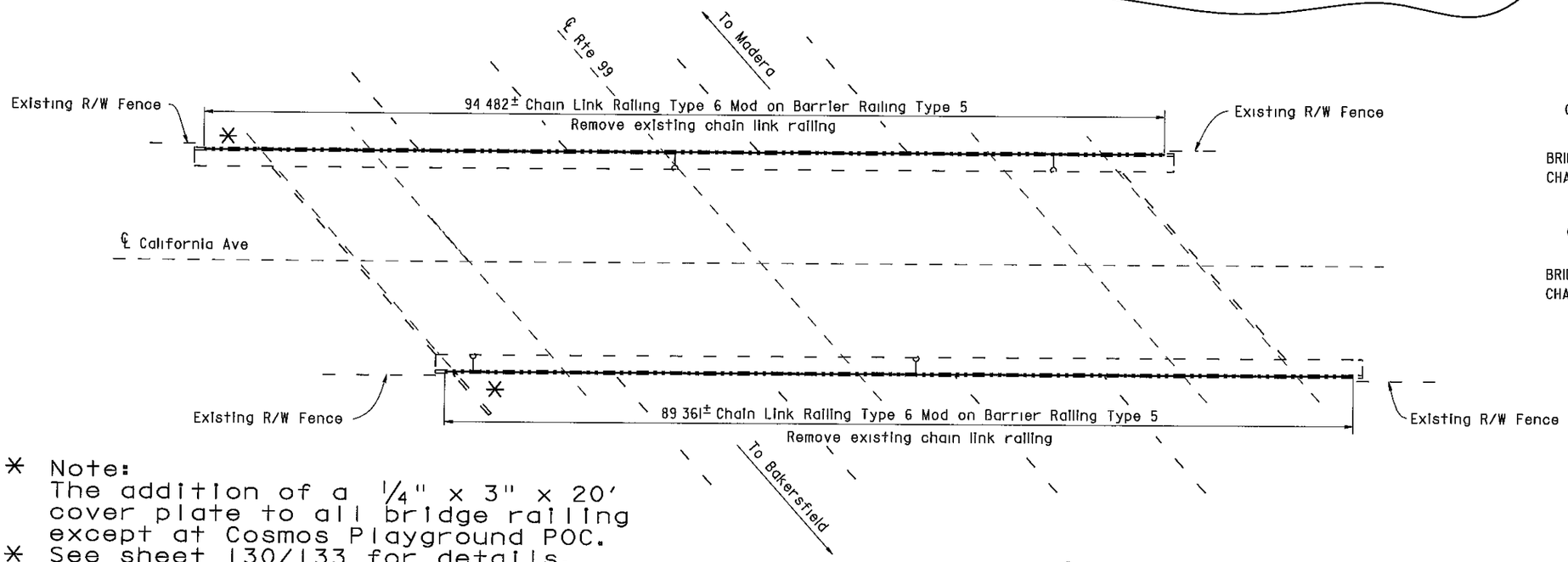
NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

NOTES

— — Indicates existing

℄ Indicates approximate location of existing electroliter (To remain)

Closure between existing R/W Fence and new Chain Link Railing to be made at all existing locations, see "Chain Link Railing Type 6 Mod No 2" sheet for details



COSMOS PLAYGROUND POC 42-0215
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION C	LUMP SUM
CHAIN LINK RAILING (TYPE 3 MODIFIED)	209 m

CALIFORNIA AVENUE OC 42-0217
QUANTITIES

BRIDGE REMOVAL (PORTION), LOCATION D	LUMP SUM
CHAIN LINK RAILING (TYPE 6 MODIFIED)	184 m

* Note:
The addition of a 1/4" x 3" x 20' cover plate to all bridge railing except at Cosmos Playground POC.
* See sheet 130/133 for details.

CALIFORNIA AVENUE OC

Br No 42-0217, Fre, KP 32 0
1 250

AS BUILT

MRC 1-3-03
CORRECTIONS BY John Borguez
CONTRACT NO 06-440104
DATE 11-14-02

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 10/3/00
DESIGN ENGINEER

	BY		CHECKED	
DESIGN	D Acoba	4/00	F Tannous	5/00
DETAILS	K Endow	4/00	F Tannous	5/00
QUANTITIES	D Acoba	5/00	F Tannous	5/00
LAYOUT	K Endow	4/00	D Acoba	4/00
SPECIFICATIONS	J Maroney	9/00	J Maroney (PLANS AND SPECS COMPARED)	9/00

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

CU 06015
EA 440101

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 99 BRIDGES
GENERAL PLAN NO. 2

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 5/15/00 | 7/12/00 | 9/26/00 | 10/3/00

SHEET 2 OF 11

FILE -> nagp2.dgn

USERNAME -> morrison DATE PLOTTED -> 03 JAN 2003 TIME PLOTTED -> 08:15

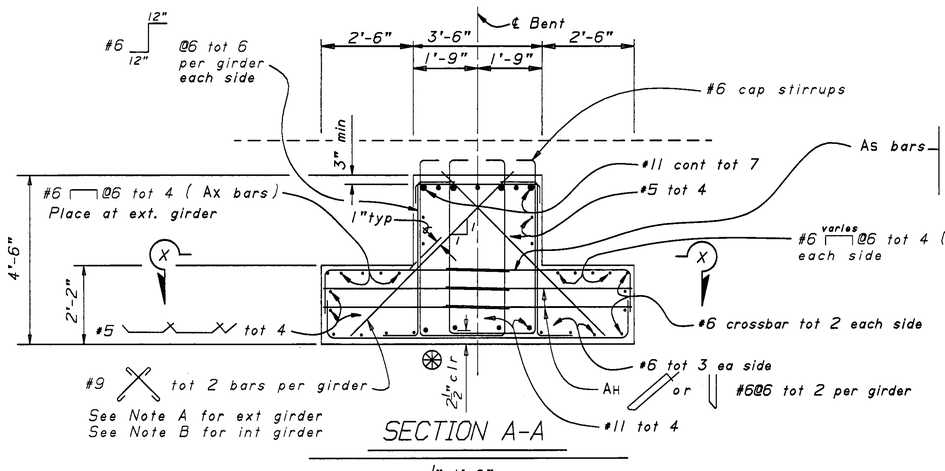
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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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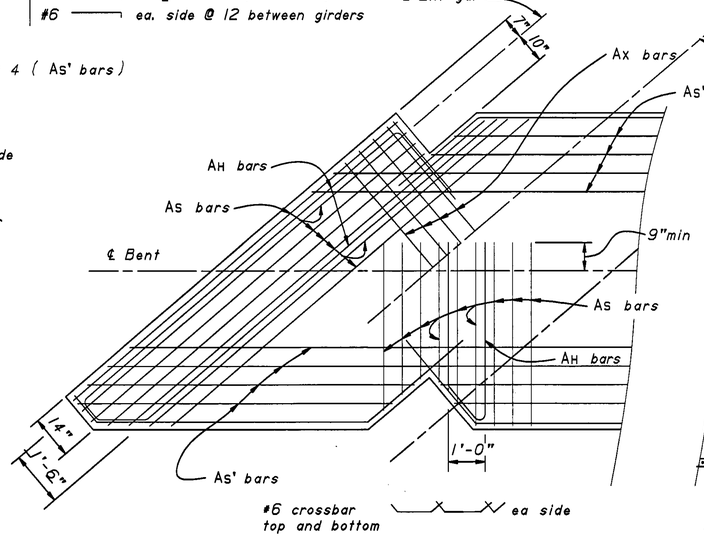
REGISTERED ENGINEER - CIVIL

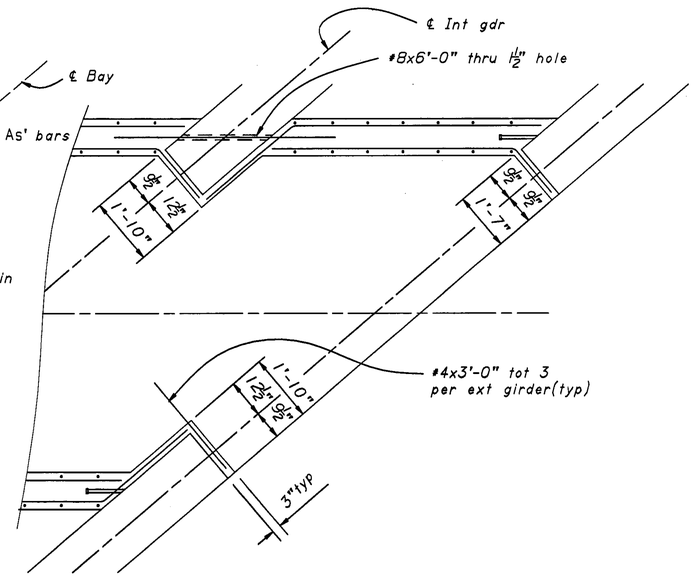
REGISTERED PROFESSIONAL ENGINEER — J. Fujimoto — No. 43943 — Exp. 06-30-93 — CIVIL — STATE OF CALIFORNIA

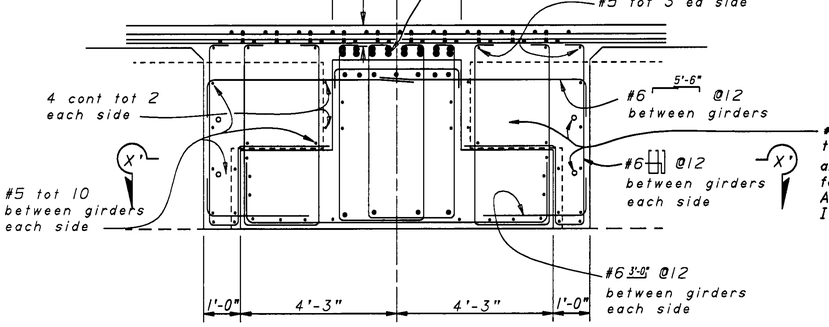
3-11-91
PLANS APPROVAL DATE

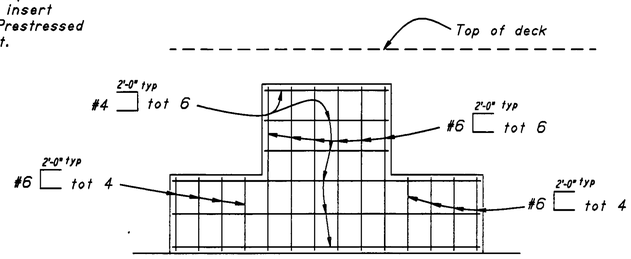


⊛ Clearance to main cap reinforcement.









Note: Left Widening shown
Right Widening similar

"NO AS-BUILT CORRECTIONS"
AS BUILT
CORRECTIONS BY DAVID VALLEJOS
CONTRACT NO. 06-342934
DATE 4-16-93 VMH 6/7/94

For location of Section A-A and Section B-B see "Bent 3 Details-Left and Bent 3 Details -Right" sheets

Note A : Place bars parallel to ℄ Girder and hook bars normal to ℄ Girder.

Note B : Place bars normal to ℄ Bent and hook parallel to ℄ Bent.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	BY J. FUJIMOTO 8-90	CHECKED R. FERNANDES 9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 2	BRIDGE NO. 42-140
DETAILS	BY AES 8-90	CHECKED R. FERNANDES 9-90			POST MILE 26.6
QUANTITIES	BY J.FUJIMOTO 9-90	CHECKED R. TANAKA 9-90			

ASHLAN AVENUE O.C.(WIDEN)
BENT 3 DETAILS

DS OSD 2139 (CADD 4/89)
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3
CU 06
EA 342931
DISREGARD PRINTS BEARING EARLIER REVISION DATES
REVISION DATES (PRELIMINARY STAGE ONLY): 8-7-90 8-30-90 10-2-90 11-8-90 11-28-90
SHEET 14 OF 32

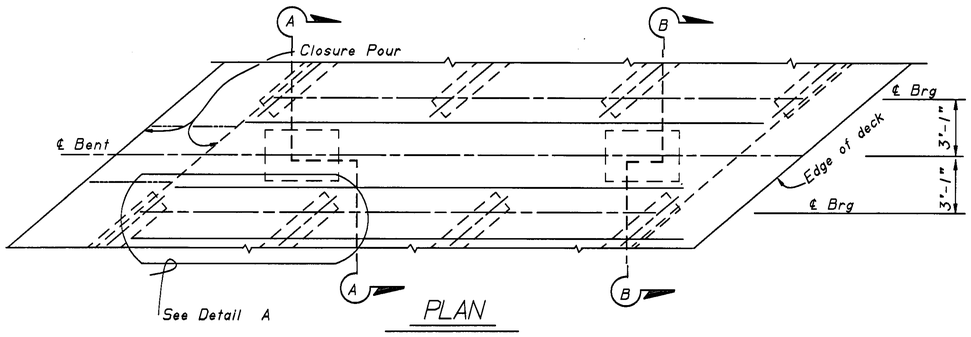
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	24.4, 26.6	180	199

John Fujimoto
REGISTERED ENGINEER - CIVIL

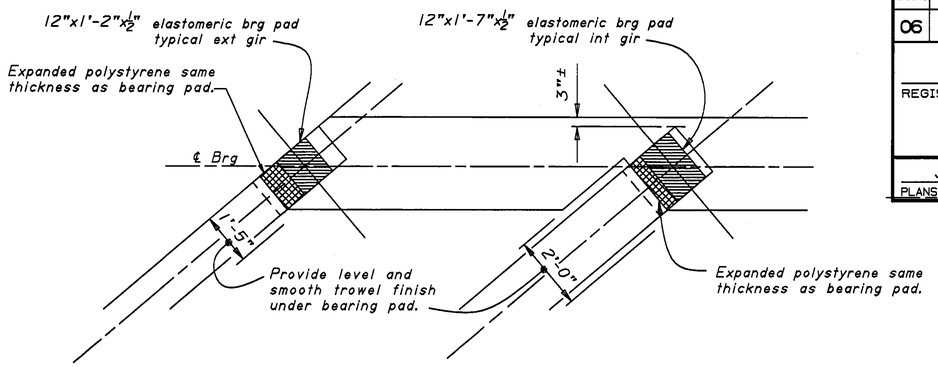
REGISTERED PROFESSIONAL ENGINEER — J. Fujimoto, No. 43943, Exp. 06-30-93, CIVIL, STATE OF CALIFORNIA

3-11-91
PLANS APPROVAL DATE



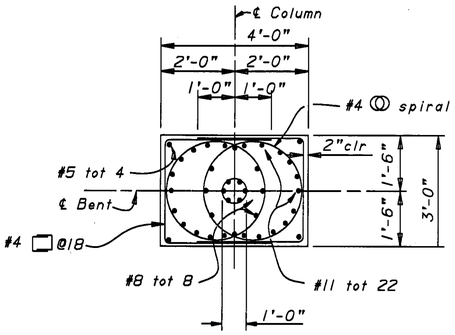
PLAN

For Section A-A and Section B-B see "Bent 3 Detail No.2" sheet



DETAIL A

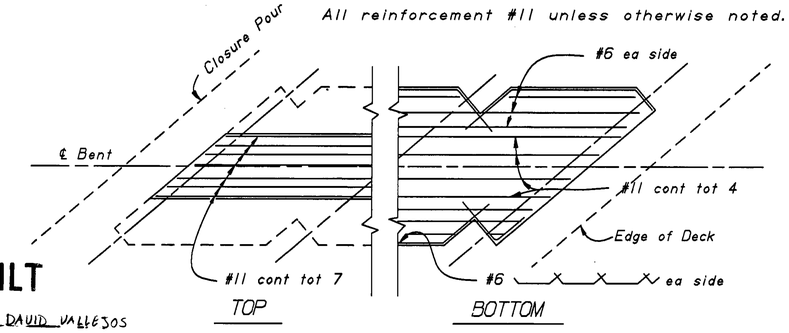
½"=1'-0"



SECTION C-C

½"=1'-0"

Notes:
All reinforcement #11 unless otherwise noted.



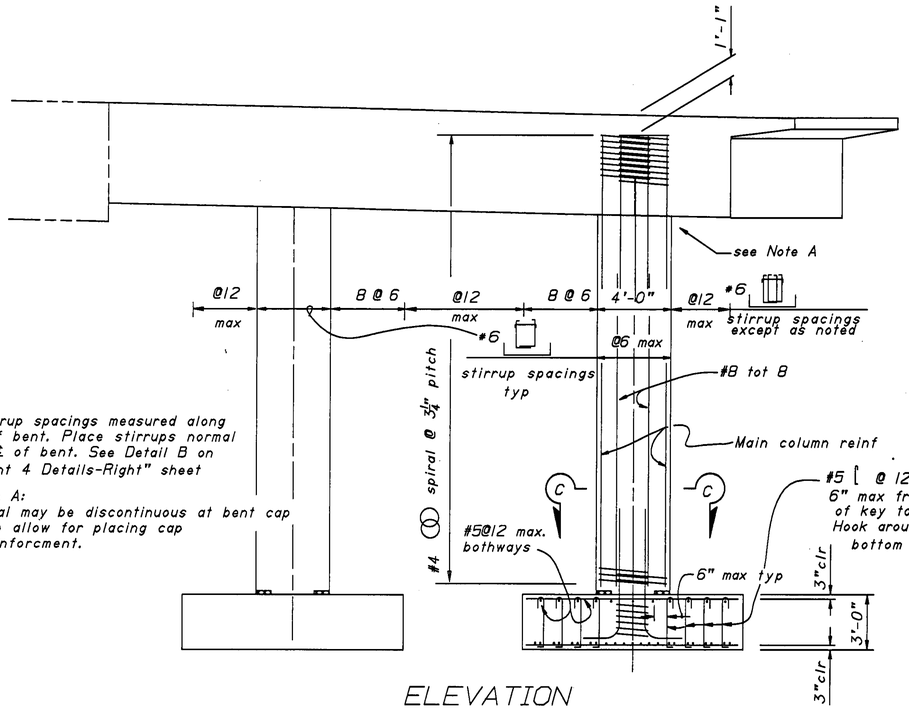
PLAN CAP REINFORCEMENT

AS BUILT

CORRECTIONS BY DAVID VALLEJOS

CONTRACT NO. 06-342934

DATE 4-16-93 VMH 6/7/94

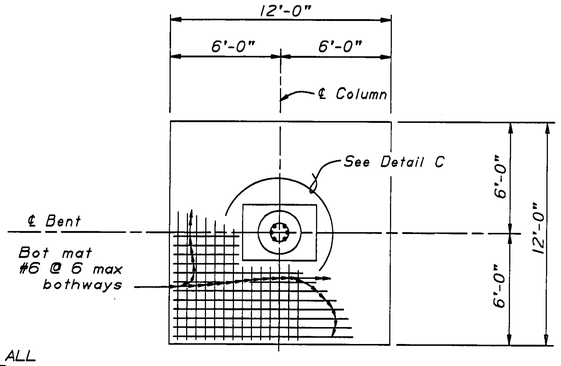


ELEVATION

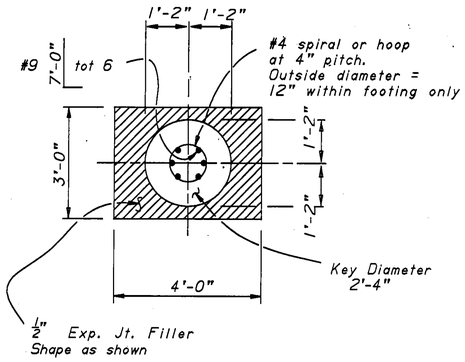
¼"=1'-0" except as noted

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

"AS BUILT" CORRECTIONS"



FOOTING PLAN



DETAIL C

DESIGN	BY John Fujimoto	CHECKED Ruth Fernandes	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 2	BRIDGE NO. 42-140
DETAILS	BY J. KLOVACH 9-90	CHECKED Ruth Fernandes			POST MILE 26.6
QUANTITIES	BY John Fujimoto	CHECKED Bob Tanaka		CU 06 EA 342931	

ASHLAN AVENUE O.C.(WIDEN)
BENT 3 DETAILS -RIGHT

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 7-25-90 | 8-30-90 | 9-25-90 | 10-1-90 | 11-1-90 | 11-27-90

SHEET 13 OF 32

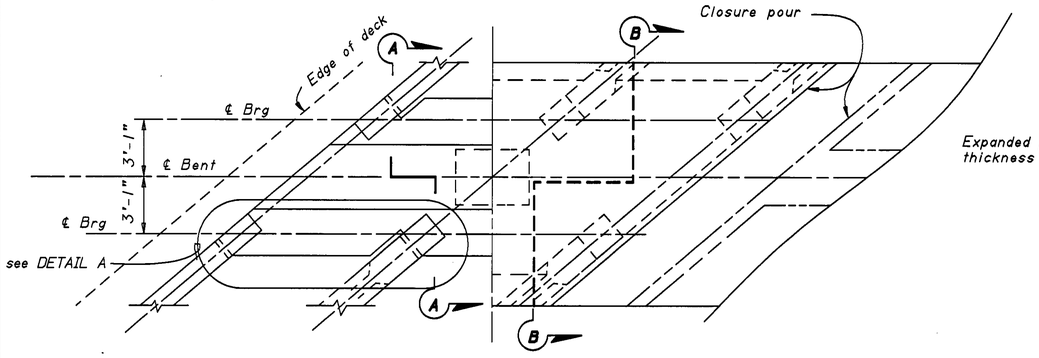
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	24.4, 25.6	179	199

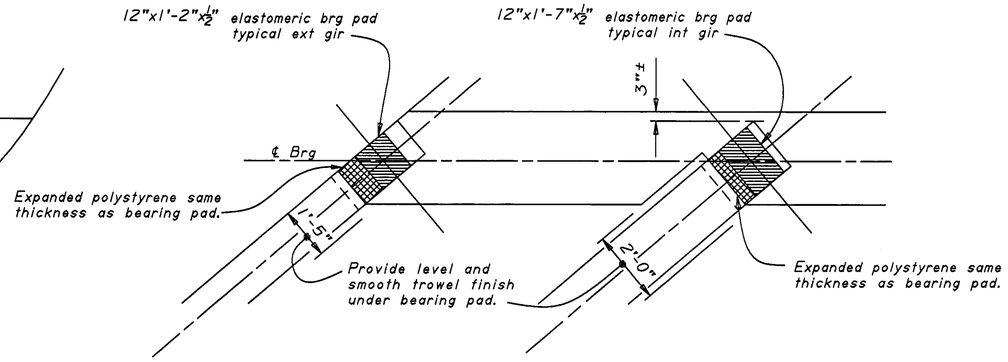
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — J. Fujimoto — No. 43943 — Exp. 06-30-93 — CIVIL — STATE OF CALIFORNIA

3-11-91
PLANS APPROVAL DATE



PLAN

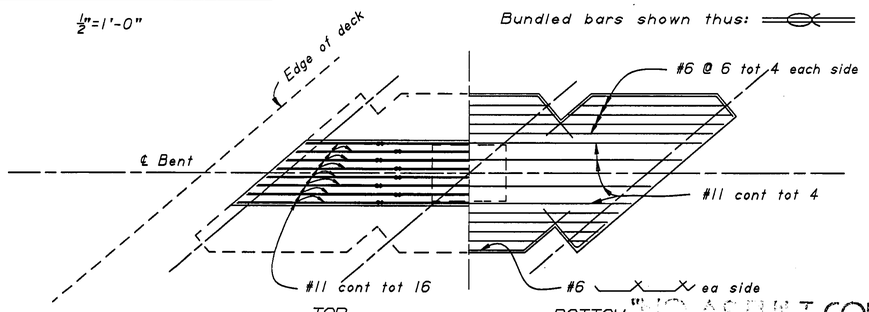


DETAIL A

½"=1'-0"

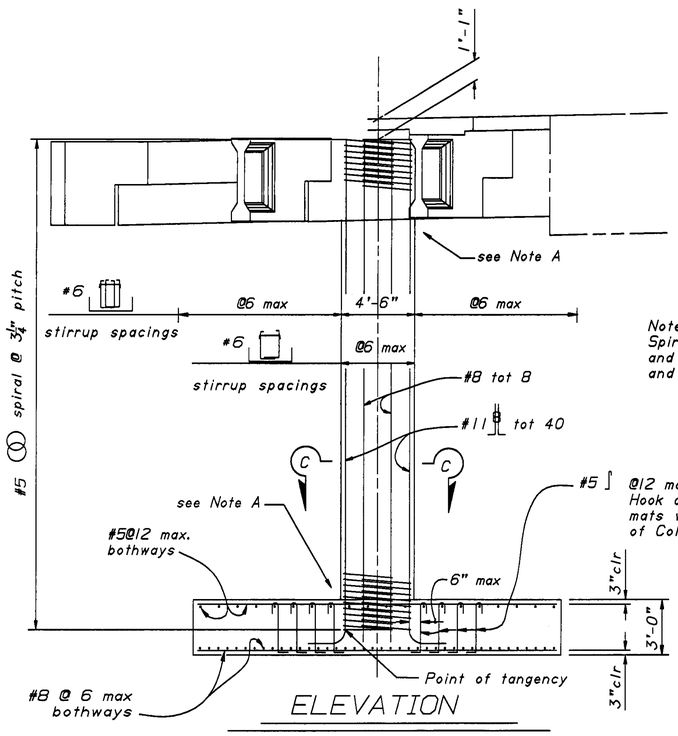
Notes:
All reinforcement #11 unless otherwise noted.

Bundled bars shown thus:



PLAN CAP REINFORCEMENT

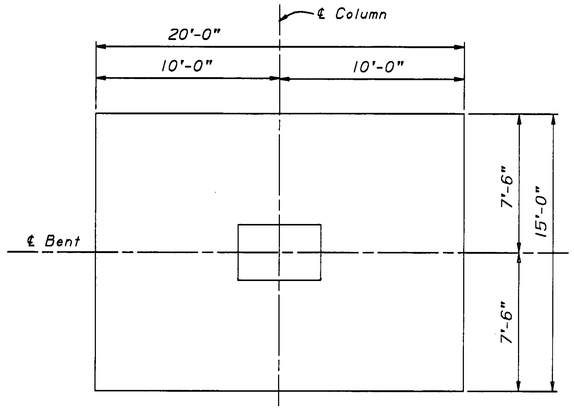
For Section A-A and Section B-B see "BENT 3 DETAIL 2" sheet



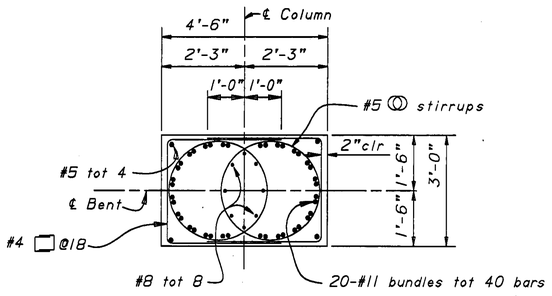
ELEVATION

Note A:
Spiral may be discontinuous at bent cap and footing to allow for placing cap and footing reinforcment.

Stirrup spacings measured along ℄ of bent. Place stirrups normal to ℄ of bent. See Detail B on "Bent 4 Details-Right" sheet.



FOOTING PLAN



SECTION C-C

½"=1'-0"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

"AS BUILT CORRECTIONS"
AS BUILT
CORRECTIONS BY DAVID VALLEJOS
CONTRACT NO. 06-342934
DATE 4-16-93
VAR 6/7/94

Scale: ¼"=1'-0" unless noted otherwise

	BY		CHECKED	
DESIGN	J. FUJIMOTO	8-90	R. FERNANDES	9-90
DETAILS	AES	7-90	R. FERNANDES	9-90
QUANTITIES	J.FUJIMOTO	9-90	R. TANAKA	9-90

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 2

CU 06
EA 342931

BRIDGE NO. 42-140
POST MILE 26.6

ASHLAN AVENUE O.C.(WIDEN)
BENT 3 DETAILS -LEFT

DS 050 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 7-25-90 8-10-90 10-5-90 10-9-90 10-24-90

SHEET 12 OF 32

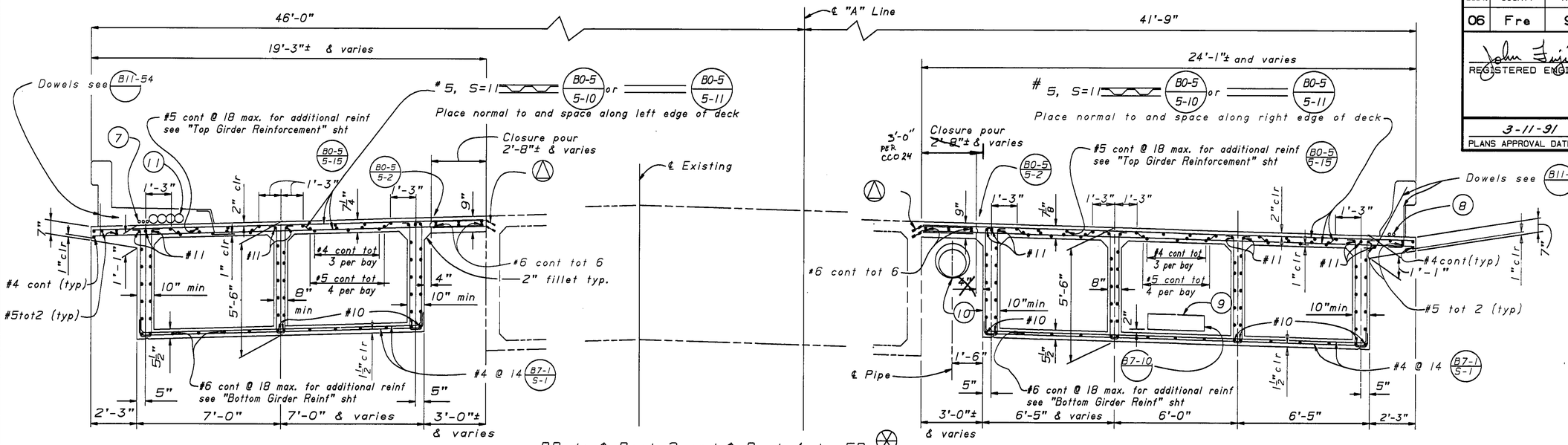
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	24.4, 26.6	185	199

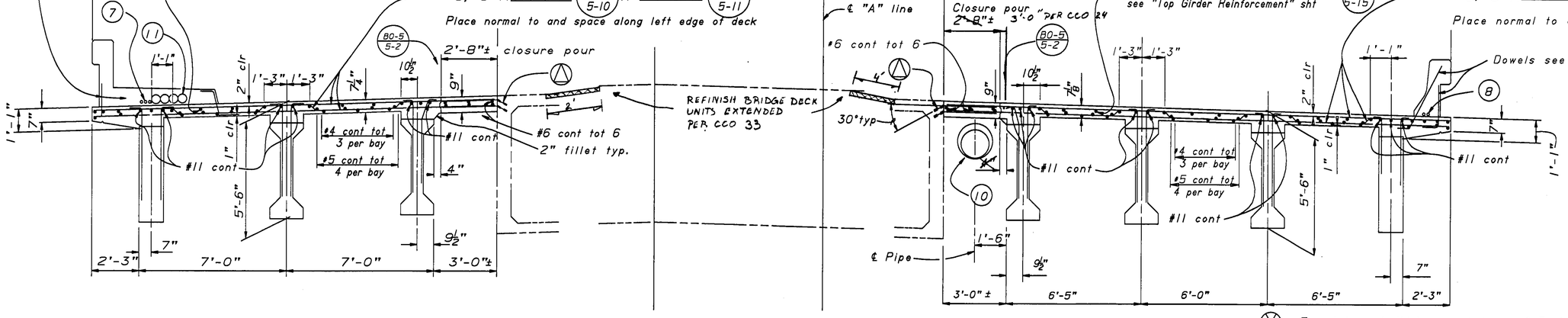
John Fujimoto
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — J. Fujimoto — No. 43943 — Exp. 06-30-93 — CIVIL — STATE OF CALIFORNIA

3-11-91
PLANS APPROVAL DATE



BB to ℄ Bent 2 and ℄ Bent 4 to EB



℄ Construction Joint Span 2 to ℄ Construction Joint Span 3

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

TYPICAL SECTION B7-1 B0-5

Scale: 3/8" = 1'-0"

AS BUILT
CORRECTIONS BY DAVID WALLEJOS
CONTRACT NO. 06-342934
DATE 4-16-93 UNH 6/7/94

⊗ For girder web thicknesses betyween ℄ Bent 2 to ℄ Const joint and ℄ Bent 4 to ℄ Const joint see "Girder Layout -Left" & "Girder Layout-Right" sheet.

(7) 3-1½"Ø Rigid conduit (1 City of Fresno, 2 State of Calif)

(8) 2-1½"Ø Rigid conduit (1 City of Fresno, 1 State of Calif)

(9) Future Utility opening H=1'-0", W=2'-0"

(10) 16" Water Line in 24" c ing. City of Fresno Water Division PER CCO 24
For details see "Water ne Details" sheet.

(11) 4-5"Ø ducts (future ut ties)

DESIGN	BY J. FUJIMOTO	8-90	CHECKED R. FERNANDES	9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 2
DETAILS	BY AES	7-90	CHECKED R. FERNANDES	9-90		
QUANTITIES	BY J.FUJIMOTO	9-90	CHECKED R. TANAKA	9-90		

CU 06
EA 342931

BRIDGE NO. 42-140
POST MILE 26.6

ASHLAN AVENUE O.C.(WIDEN)
TYPICAL SECTION

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 7-3-90 | 7-16-90 | 8-31-90 | 9-7-90 | 10-19-90 | 10-24-90 | 11-1-90 | 11-27-90 | 12-3-90

SHEET 18 OF 32

DS OSD 2139 (CADD 4/89)

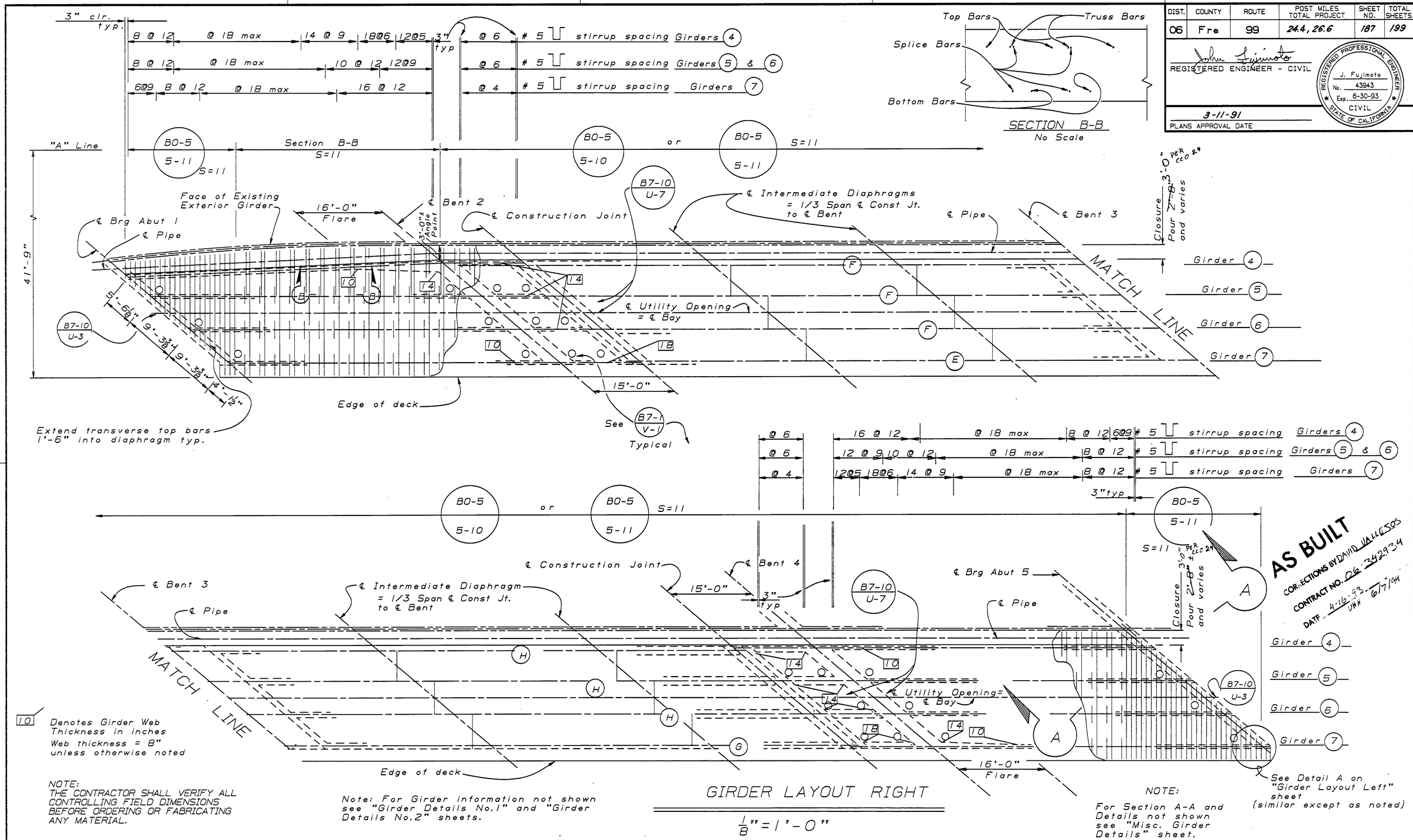
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	24.4, 26.6	187	199

REGISTERED ENGINEER - CIVIL — J. Fujimoto, No. 43943, Exp. 6-30-93, CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

3-11-91
PLANS APPROVAL DATE



AS BUILT
CORRECTIONS BY DAVID VALLEJOS
CONTRACT NO. 06-342934
DATE 4-16-93 UNK 6/7/94

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

Note: For Girder information not shown see "Girder Details No.1" and "Girder Details No.2" sheets.

NOTE:
For Section A-A and Details not shown see "Misc. Girder Details" sheet.

GIRDER LAYOUT RIGHT

1/8" = 1'-0"

DESIGN	BY John Fujimoto	CHECKED Ruth Fernandes	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY Jim Klovach 8-90	CHECKED Ruth Fernandes	DIVISION OF STRUCTURES STRUCTURE DESIGN 2
QUANTITIES	BY John Fujimoto	CHECKED Bob Tanaka	

BRIDGE NO. 42-140
POST MILE 26.6

ASHLAN AVENUE O.C. (WIDEN)
GIRDER LAYOUT RIGHT

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06
EA 342931

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 8-24-90 9-6-90 10-16-90 10-26-90 11-1-90 11-28-90

SHEET 20 OF 32

ClibPDF - www.fastio.com

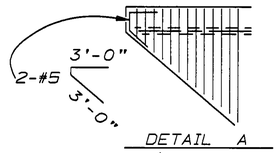
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	24.4, 26.6	186	199

REGISTERED ENGINEER - CIVIL

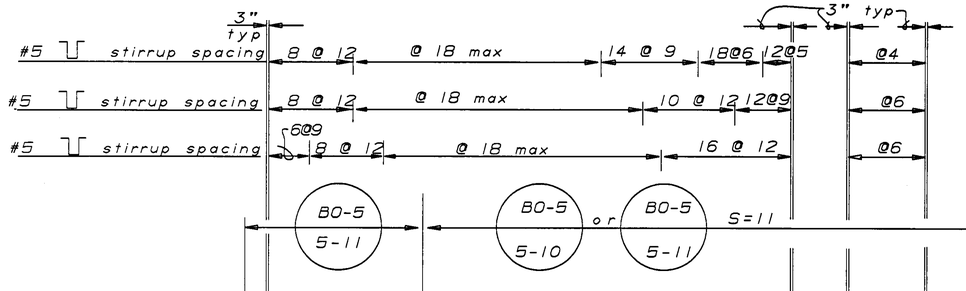
REGISTERED PROFESSIONAL ENGINEER — J. FUJIMOTO — No. 43943 — Exp. 6-30-93 — CIVIL — STATE OF CALIFORNIA

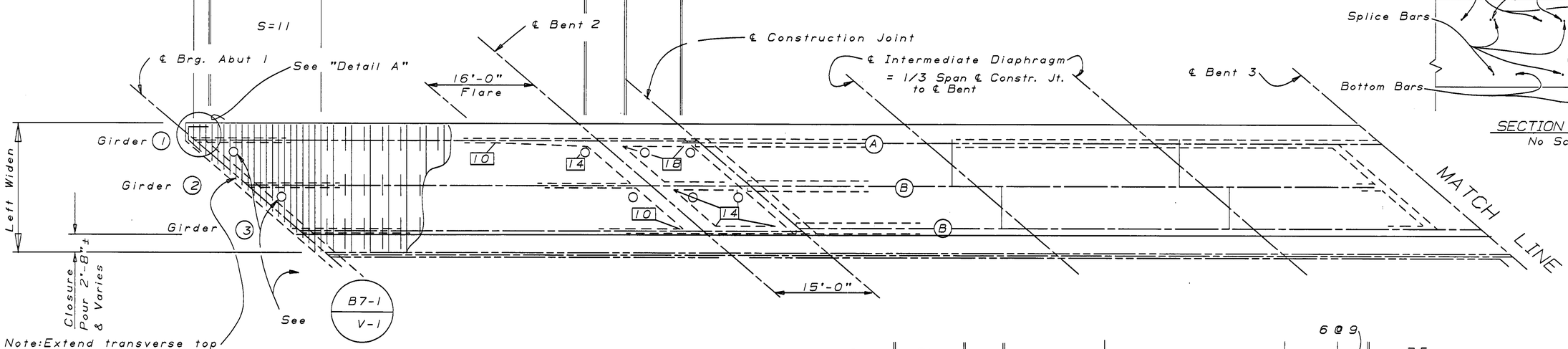
3-11-91
PLANS APPROVAL DATE

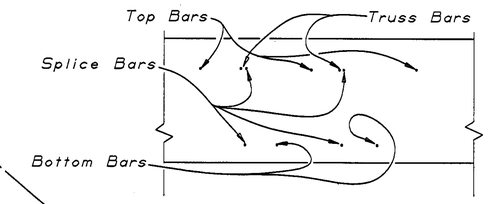
10 Denotes Girder Web Thickness in inches
Web Thickness = 8" unless otherwise noted



DETAIL A
1/8"=1'-0"

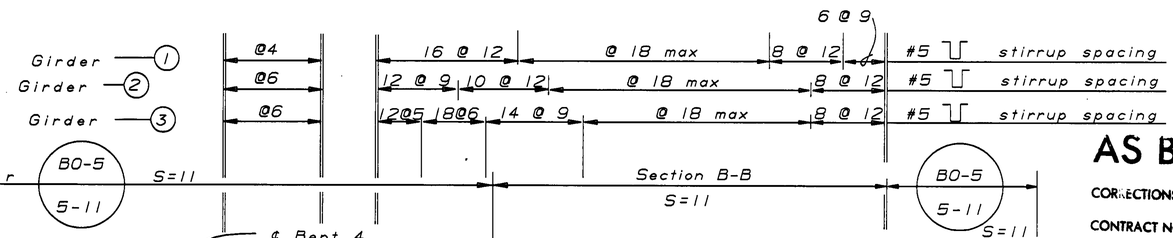


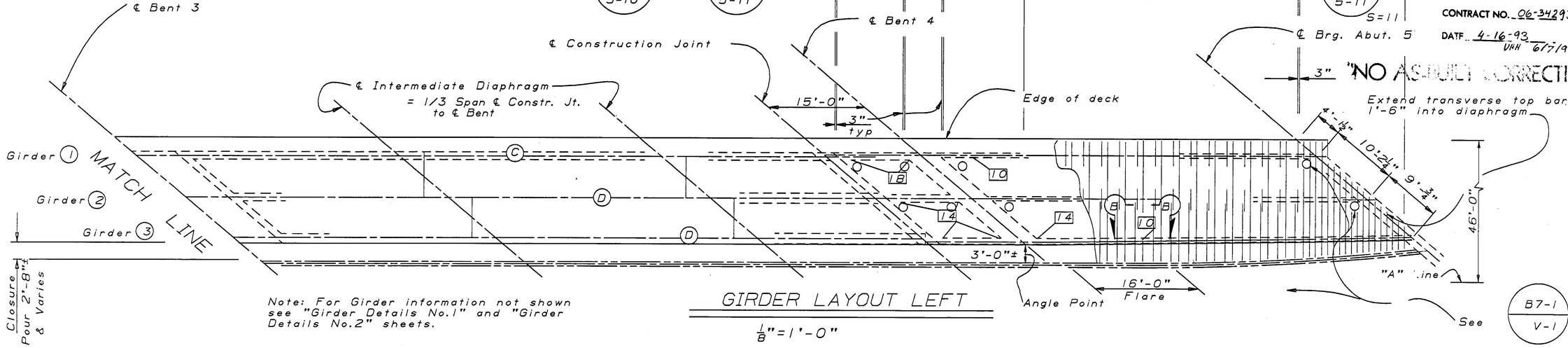




SECTION B-B
No Scale

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.





Note: For Girder information not shown see "Girder Details No.1" and "Girder Details No.2" sheets.

GIRDER LAYOUT LEFT
1/8"=1'-0"

AS BUILT
CORRECTIONS BY DAVID VALLEJOS
CONTRACT NO. 06-342934
DATE 4-16-93 VHH 6/7/94
"NO AS-BUILT CORRECTIONS"

DESIGN	BY John Fujimoto	CHECKED Ruth Fernandes	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 2	BRIDGE NO. 42-140
DETAILS	BY Jim Klovach 8-90	CHECKED Ruth Fernandes			POST MILE 26.6
QUANTITIES	BY John Fujimoto	CHECKED Bob Tanaka		CU 06 EA 342931	

ASHLAN AVENUE O.C. (WIDEN)
GIRDER LAYOUT LEFT

DS OSD 2139 (CADD 4/89)
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3
DISREGARD PRINTS BEARING EARLIER REVISION DATES →
REVISION DATES (PRELIMINARY STAGE ONLY): 8-15-90 | 9-4-90 | 10-9-90 | 10-19-90 | 11-27-90

SHEET 19 OF 32

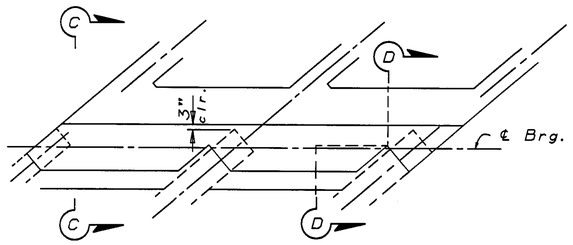
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	24.4, 26.6	184	199

REGISTERED ENGINEER - CIVIL

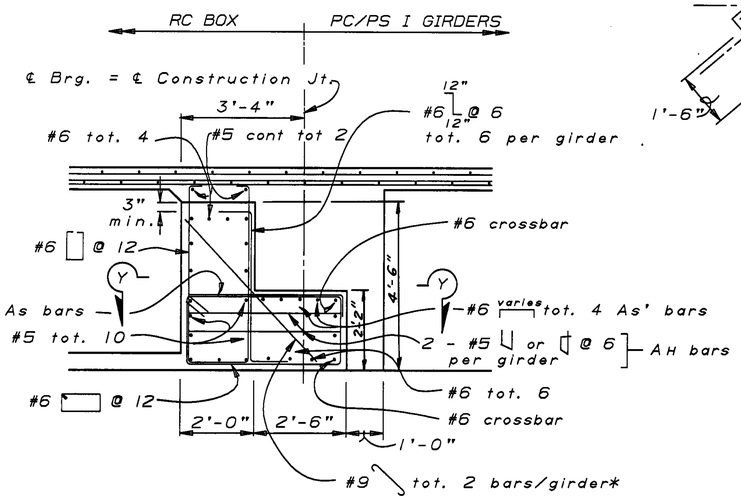
REGISTERED PROFESSIONAL ENGINEER — J. Fujimoto — No. 43943 — Exp. 06-30-93 — CIVIL — STATE OF CALIFORNIA

3-11-91
PLANS APPROVAL DATE



PLAN

1/4" = 1'-0"



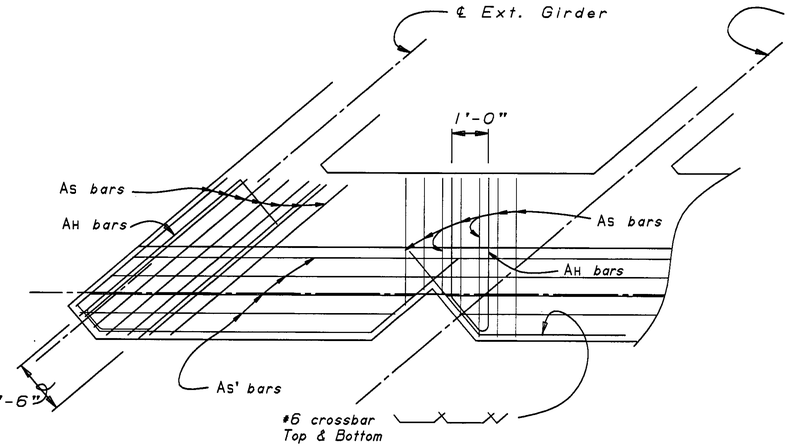
#6 Tot. 7 at 4 1/2 ext. girder
#6 Tot. 7 at 6 int. girder
#6 @ 12 btwn. girder

*Ext. Girder: Place bars parallel to ℄ girder and hook bars normal to ℄ girder.
Int. Girder: Place bars normal to ℄ bent and hook bars parallel to ℄ bent.

SECTION C-C

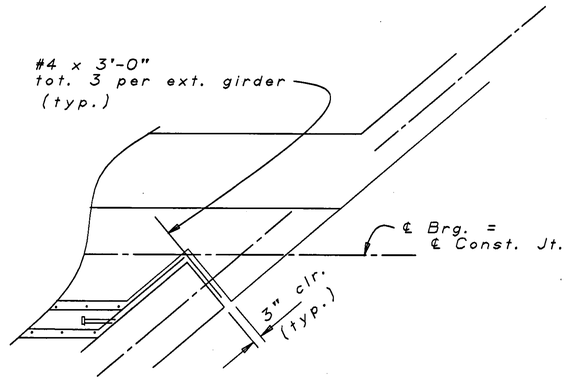
1/2" = 1'-0"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



SECTION Y-Y

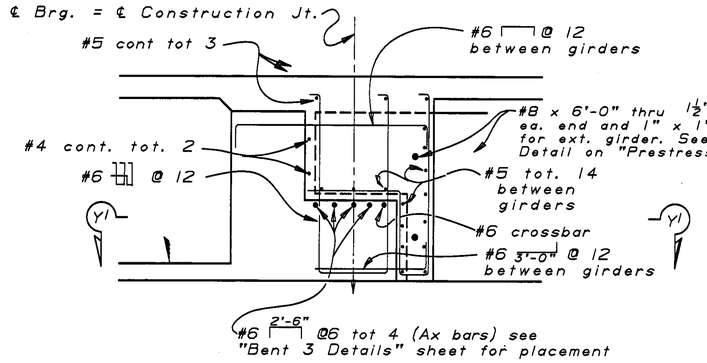
1/2" = 1'-0"



SECTION Y'-Y'

1/2" = 1'-0"

For details not shown, see Section X-X and Section X'-X' on "Bent 3 Details" sheet.



SECTION D-D

1/2" = 1'-0"

AS BUILT
CORRECTIONS BY DAVID VALLEJOS
CONTRACT NO. 06-342934
DATE 4-16-93 VIR 6-17-94

"NO AS-BUILT CORRECTIONS"

Left widening shown, right widening similar.

	BY		CHECKED	
DESIGN	J. Fujimoto	9-90	R. Fernandes	9-90
DETAILS	Mardi Johnson	9-90	R. Fernandes	9-90
QUANTITIES	J. Fujimoto	9-90	R. Tanaka	9-90

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 2

CU 06
EA 342931

BRIDGE NO. 42-140
POST MILE 26.6

ASHLAN AVENUE O.C.(WIDEN)
CONSTRUCTION JOINT DETAIL

DS 050 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 9-9-90 | 9-26-90 | 10-2-90 | 10-12-90 | 10-31-90

SHEET 17 OF 32

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F-0193(4)

FED. ROAD DIV. No.	STATE	PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
7	CAL.			199	210

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	24.4, 26.6	199	199

APPROVED 3-11-91

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	Fre	0	C	10	12

AUGUST 1958

ENGINEERING GEOLOGY BRANCH - TRANSPORTATION LABORATORY

Ronald L. Richman

REGISTERED ENGINEER - CIVIL

ASHLAN AVE. OVERCROSSING

LOG OF TEST BORINGS

CU: 06
EA: 342931

BRIDGE No. 42-140

R.L. RICHMAN No. 39869 Exp. 12-31-93 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

"NO ..." CORRECTIONS

AS BUILT

CORRECTIONS BY DAVID VALLEJO

CONTRACT NO. 06-342934

DATE 4-16-93
VHH 6/5/94

B-5 B-3 B-6 B-2 B-7 B-1 B-4

A-1 P-2 P-3 P-4 A-5

8+21 8+82 9 10 11 11+21.75 11+82.75

ASHLAN AVE LINE

"C" LINE

Abut. A2 Ln 102

NOTE
THIS LOG OF TEST BORINGS IS AVAILABLE ON MICROFILM AT OFFICE OF STRUCTURES DESIGN SACRAMENTO, CALIFORNIA

Profile Ashlan Ave Line

B-5: 8165 Ashlan Ave Line 10.4' Rt — EL 292.4
B-3: 24' Rt 9+10 Ashlan Ave Line — EL 292.2
B-6: 9+02 Ashlan Ave Line 7.1' Rt — EL 291.8
B-2: 10+16 Ashlan Ave Line 14' Rt — EL 292.5
B-7: 12+09 Ashlan Ave Line 9.4' Rt — EL 292.0
B-1: 11+99 Ashlan Ave Line 9.2' Rt — EL 292.7

300 / 290 / 280 / 270 / 260 / 250 / 240 / 230 / 220

Red brown silty sand
Red brown sandy silt
Red brown mottled sandy silt with thin layers of fine fine sand
Compact red gray silty sand
A2 Point Planned — El. 282.2 Elev. of Fdn.
Hard gray green, silty, silty sand to sandy silt
Compact gray medium to coarse sand
Compact gray silt some sand
Compact gray green medium to coarse sand
A2 Point Planned — El. 265 Elev. Fdn.
Hard gray green silty fine sand, lenses of silt and layers of sandy cemented silt and medium (coarse sand)
Dense gray fine to coarse sand some gray green silt to dense red silty medium sand
Dense red to green mottled silty very fine sand.
Compact red gray silty sand.
A2 Point Planned — El. 288 Elev. Fdn.
Dense gray medium sand
Dense gray green silt to fine sand
Loose gray, slightly silty very fine medium sand
Very dense, partly cemented silt some fine sand streaks
Dense gray green silty very fine sand to medium to coarse sand with interbedded silt some partly cemented silt 0.5 feet of very coarse sand at 19.0
Dense to hard gray green silty very fine sand some partly cemented silt
Dense gray green fine to medium clayey sand to silty sand
Dense gray green silty very fine sand
Dense gray graded 6" layers of fine to very coarse sand with some gravel
Compact green very fine silty sand to very fine to coarse sand some gravel
Very hard gray green silt to sandy silt

2-20-57 — 2-20-57 — 2-21-57 — 2-20-57

BM
1½" IP 25' Rt Sta 13+00
"Ashlan Ave" Elev 291.66

No ground water encountered

AS BUILT PLANS
Contract No. 59-67C10
Date Completed
Document No. 60000997

AS BUILT
Corrections By RE Hawkins
Date March 31, 1959

SHEET	No.
32	32

CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS

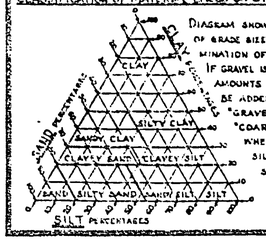


DIAGRAM SHOWING THE BASIS FOR ESTIMATES OF GRADE SIZE DISTRIBUTION USED IN DETERMINATION OF CLASS NAMES.

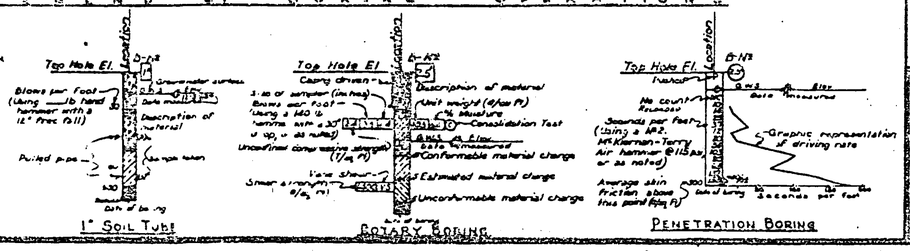
IF GRAVEL IS PRESENT IN APPRECIABLE AMOUNTS THE TERM "GRAVELLY" MAY BE ADDED TO THE CLASS NAME, VIZ. "GRAVELLY SAND." THE TERMS "COARSE", "MEDIUM" AND "FINE" WHEN USED TO DESCRIBE SAND, SILT AND GRAVEL REFER TO STANDARD GRADE SIZE LIMITS.

LEGEND OF EARTH MATERIALS

- GRAVEL
- SAND
- SILT
- CLAY
- SANDY CLAY OR CLAYEY SAND
- SANDY SILT OR SILTY SAND
- SILTY CLAY OR CLAYEY SILT
- PEAT AND/OR ORGANIC MATTER
- FILL MATERIAL
- IGNEOUS ROCK
- SEDIMENTARY ROCK
- METAMORPHIC ROCK

LEGEND OF BORING OPERATIONS

- PLAN OF ANY BORING
- PENETROMETER
- 2½" CONE PENETROMETER
- SAMPLER BORING (DRY)
- ROTARY BORING (WET)
- AUGER BORING (DRY)
- JET BORING
- CORE BORING
- TEST PIT



NOTES

The contractor's attention is directed to Section 2, Article (c) of the Standard Specifications and to the Special Provisions accompanying this set of plans.

Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ASHLAN AVE OVERCROSSING

LOG OF TEST BORINGS

SCALE 1" = 10' | BRIDGE 42-140 | FILE E-42 | DRAWING C-5383-10

PR 5383-4

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ENTIRE DOCUMENT GIVEN

BRIDGE DEPARTMENT

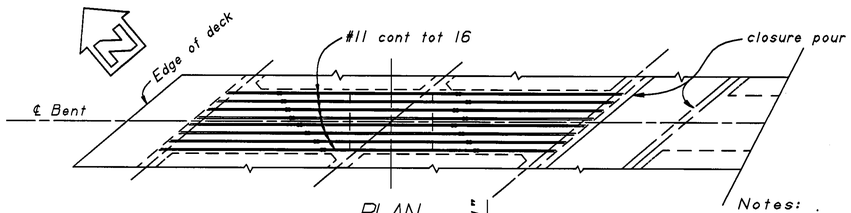
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	24.4, 26.6	182	199

John Fujimoto
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER
J. Fujimoto
No. 43943
Exp. 06-30-93
CIVIL
STATE OF CALIFORNIA

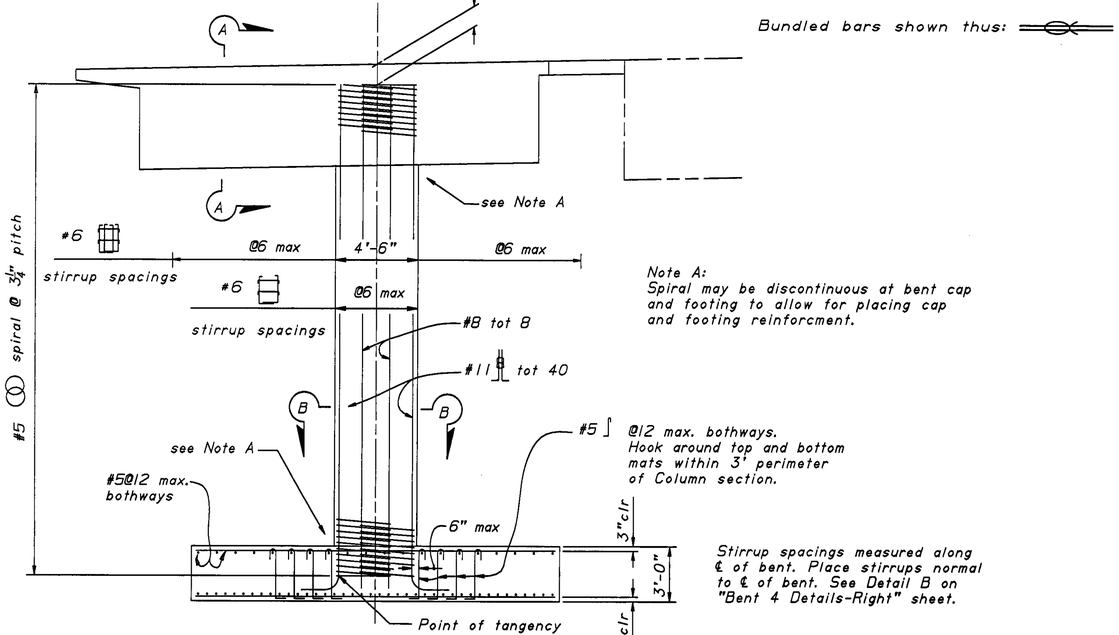
3-11-91
PLANS APPROVAL DATE



PLAN

Notes:
All reinforcement #11 unless otherwise noted.

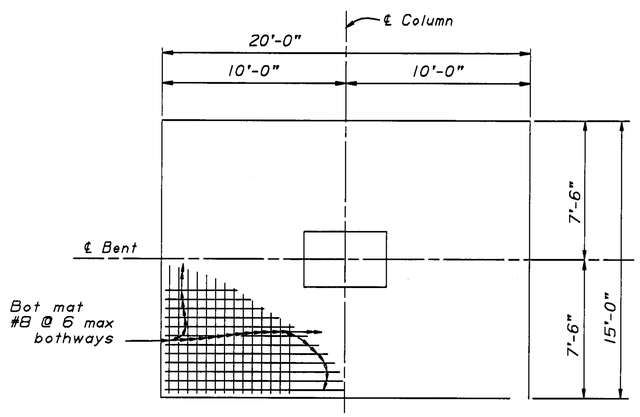
Bundled bars shown thus:



ELEVATION

Note A:
Spiral may be discontinuous at bent cap and footing to allow for placing cap and footing reinforcment.

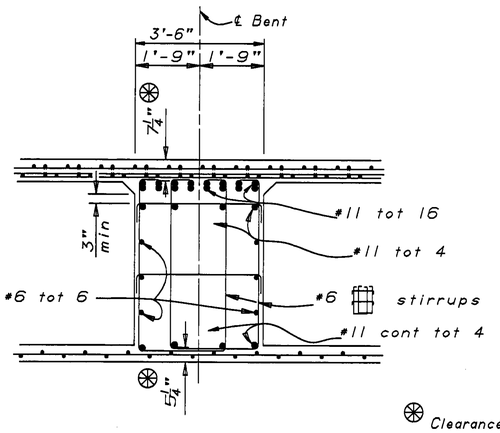
Stirrup spacings measured along ℄ of bent. Place stirrups normal to ℄ of bent. See Detail B on "Bent 4 Details-Right" sheet.



FOOTING PLAN

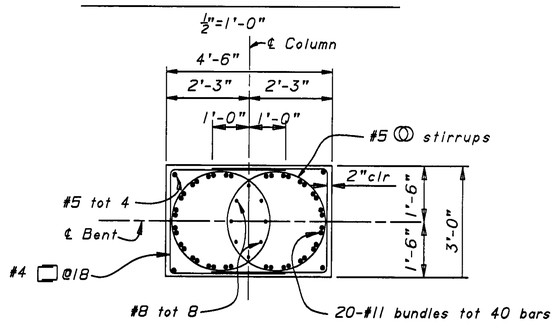
Note:
Bent 4 shown, Bent 2 similar.

Scale: 1"=1'-0" unless noted otherwise



SECTION A-A

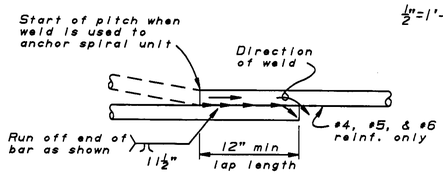
⊛ Clearance to main cap reinforcement.



SECTION B-B

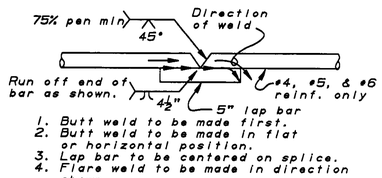
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

AS BUILT
CORRECTIONS BY DAVID VALLEJOS
CONTRACT NO. 06-342934
DATE 4-16-93 VHH 6/7/94



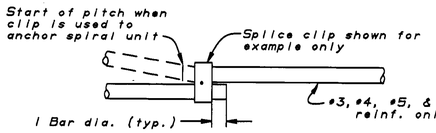
Note: Flare weld to be made in direction shown.

WELDED LAP SPLICE AND ANCHOR

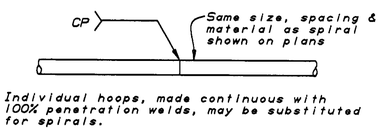


1. Butt weld to be made first.
2. Butt weld to be made in flat or horizontal position.
3. Lap bar to be centered on splice.
4. Flare weld to be made in direction shown.
5. Lap bar equal size to spiral bar.

VEE GROOVE WELDED SPLICE



MECHANICAL LAP SPLICE AND ANCHOR



Individual hoops, made continuous with 100% penetration welds, may be substituted for spirals.

BUTT WELDED CONTINUOUS HOOP

BAR SPIRAL SPLICE & SPIRAL ANCHOR AND HOOP DETAIL

DESIGN	BY J. FUJIMOTO 6-90	CHECKED R. FERNANDES 9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 2	BRIDGE NO. 42-140
DETAILS	BY AES 7-90	CHECKED R. FERNANDES 9-90			POST MILE 26.6
QUANTITIES	BY J.FUJIMOTO 9-90	CHECKED R. TANAKA 9-90			

ASHLAN AVENUE O.C.(WIDEN)
BENT 4 DETAILS-LEFT

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06
EA 342931

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): ~~7-26-90~~ ~~8-28-90~~ 10-9-90 10-24-90 11-27-90

SHEET 15 OF 32

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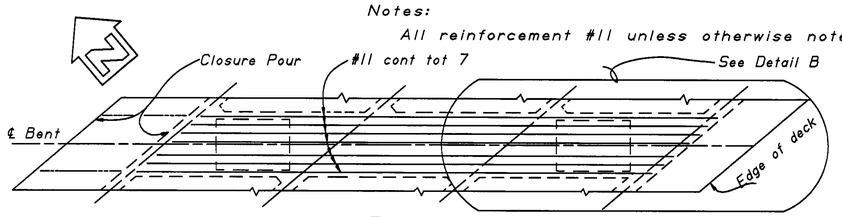
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	24.4, 26.6	183	199

John Fujimoto
REGISTERED ENGINEER - CIVIL

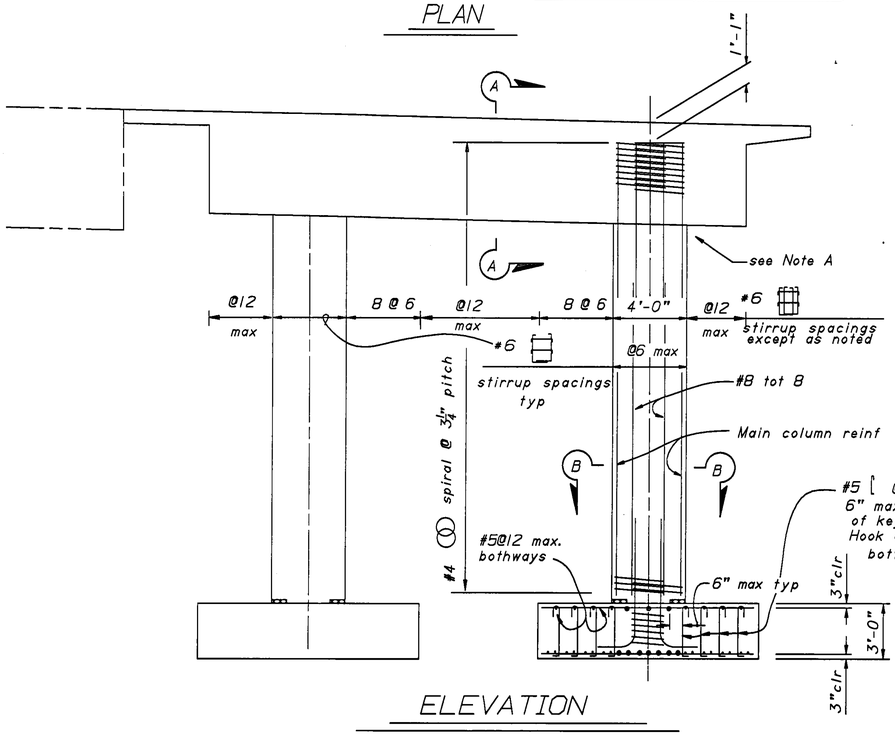
REGISTERED PROFESSIONAL ENGINEER
J. Fujimoto
No. 43943
Exp. 06-30-93
CIVIL
STATE OF CALIFORNIA

3-11-91
PLANS APPROVAL DATE

Notes:
All reinforcement #11 unless otherwise noted.



PLAN

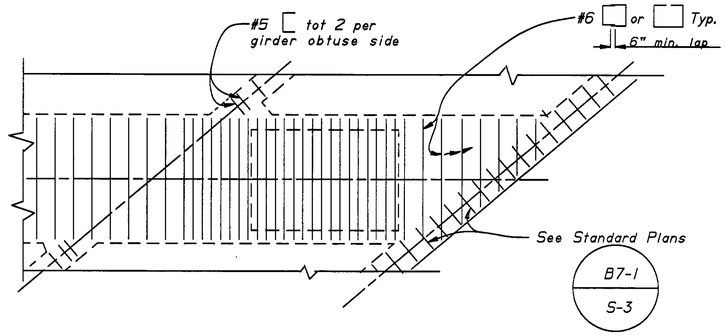


ELEVATION

Note A:
Spiral may be discontinuous at bent cap to allow for placing cap reinforcment.

Stirrup spacings measured along ℄ of bent. Place stirrups normal to ℄ of bent.

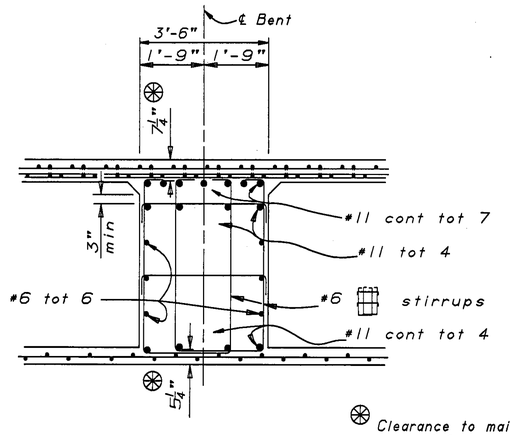
Note: Bent 4 shown
Bent 2 similar



DETAIL B

No Scale

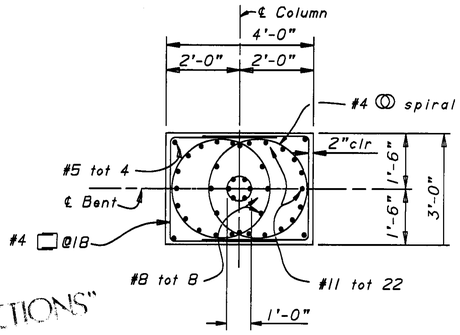
Note: Bent 4 shown
Bents 2 and 3 similar



℄ Clearance to main cap reinforcement.

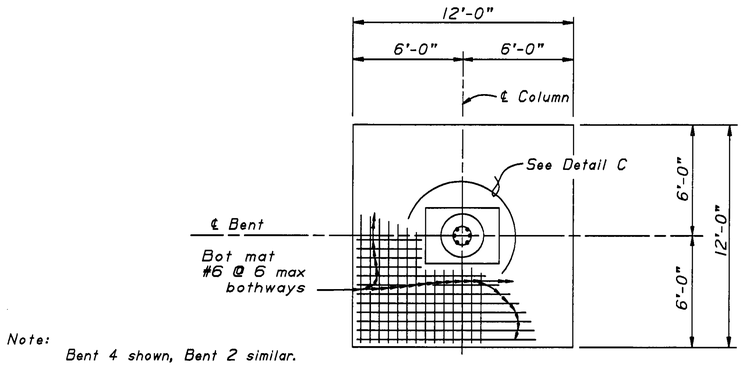
SECTION A-A

½"=1'-0"



SECTION B-B

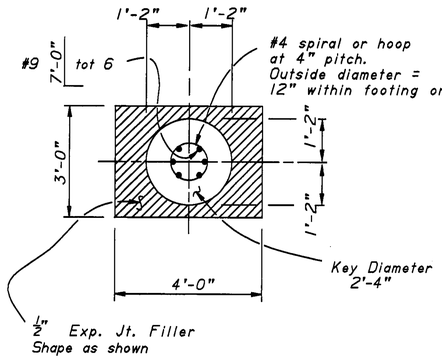
½"=1'-0"



Note:
Bent 4 shown, Bent 2 similar.

FOOTING PLAN

Scale: ¼"=1'-0" unless noted otherwise



DETAIL C

½"=1'-0"

"NO AS BUILT CORRECTIONS"
AS BUILT
CORRECTIONS BY DAVID VALLEJOS
CONTRACT NO. 06-342934
DATE 4-16-93 VHM 6/7/94

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	BY John Fujimoto	CHECKED Ruth Fernandes	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 2	BRIDGE NO. 42-140
DETAILS	BY J. Klovach 9-90	CHECKED Ruth Fernandes			POST MILE 26.6
QUANTITIES	BY John Fujimoto	CHECKED Bob Tanaka		CU 06 EA 342931	ASHLAN AVENUE O.C.(WIDEN) BENT 4 DETAILS RIGHT

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 7-25-90 | 8-30-90 | 9-11-90 | 10-1-90 | 11-5-90 | 11-27-90

SHEET 16 OF 32

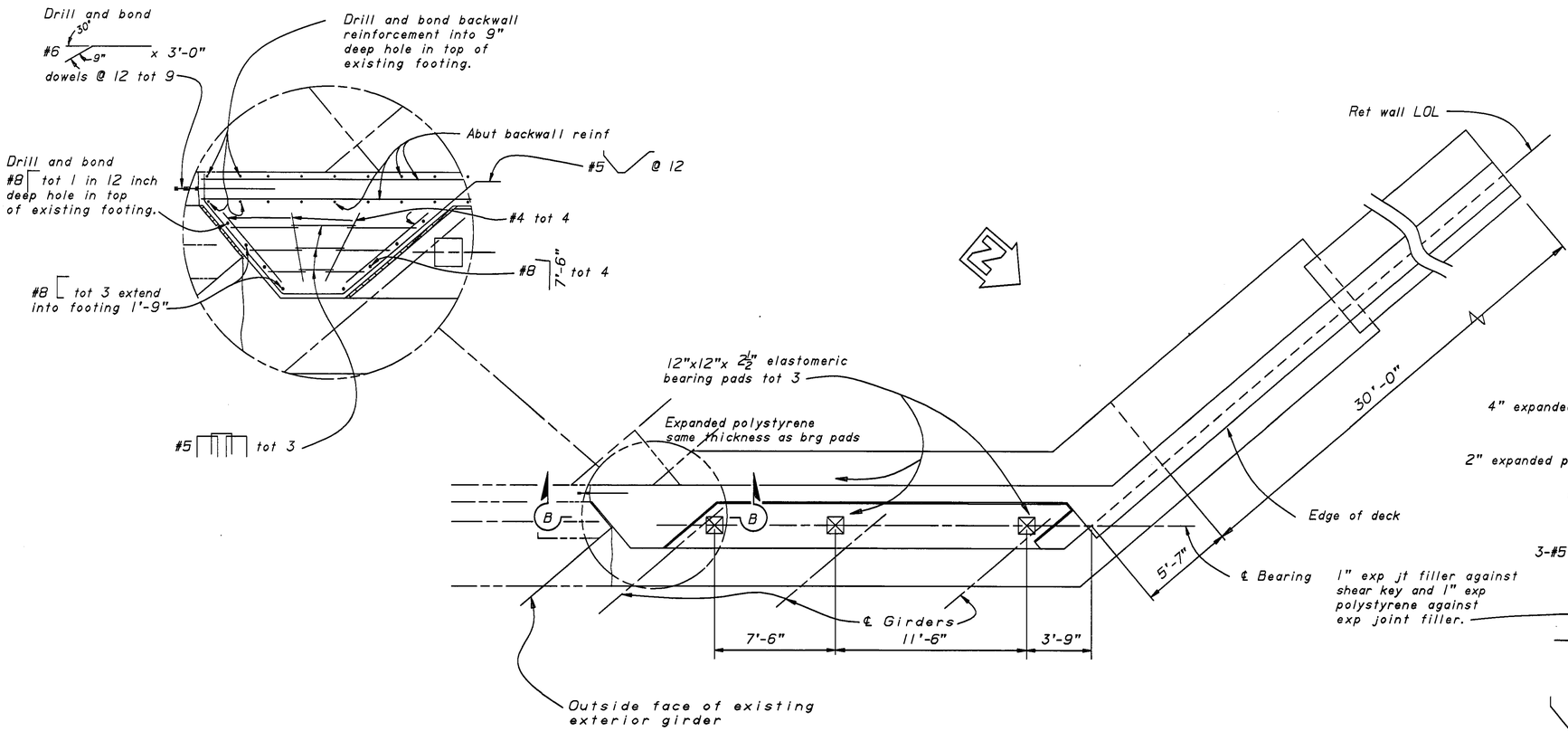
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	24.4, 26.6	171	199

John Fujimoto
REGISTERED ENGINEER - CIVIL

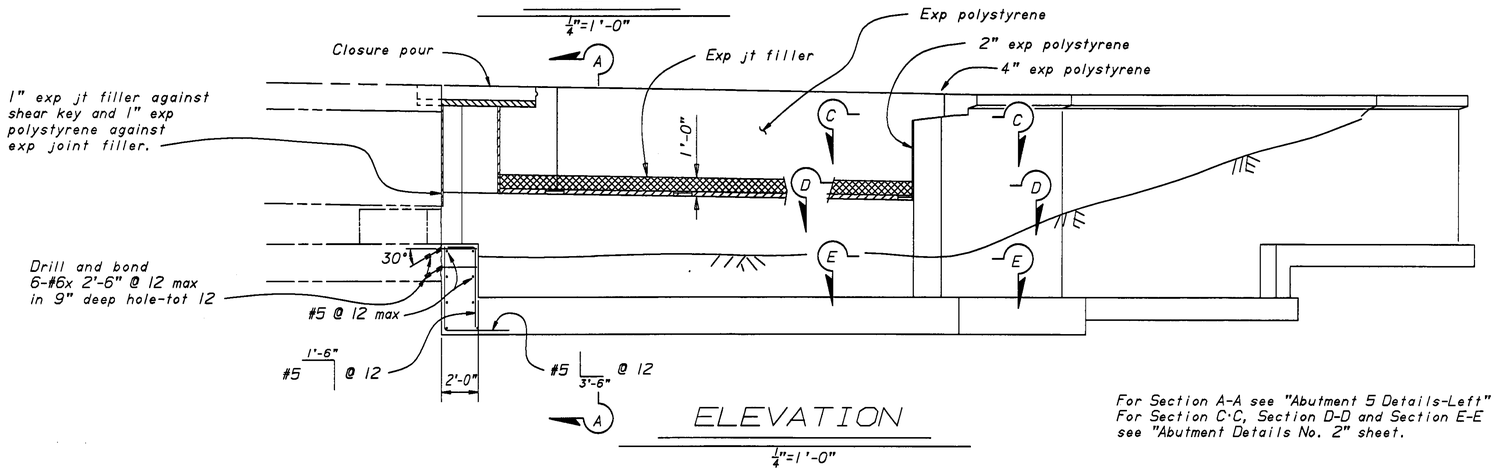
REGISTERED PROFESSIONAL ENGINEER
J. Fujimoto
No. 43943
Exp. 06-30-93
CIVIL
STATE OF CALIFORNIA

3-11-91
PLANS APPROVAL DATE



PLAN

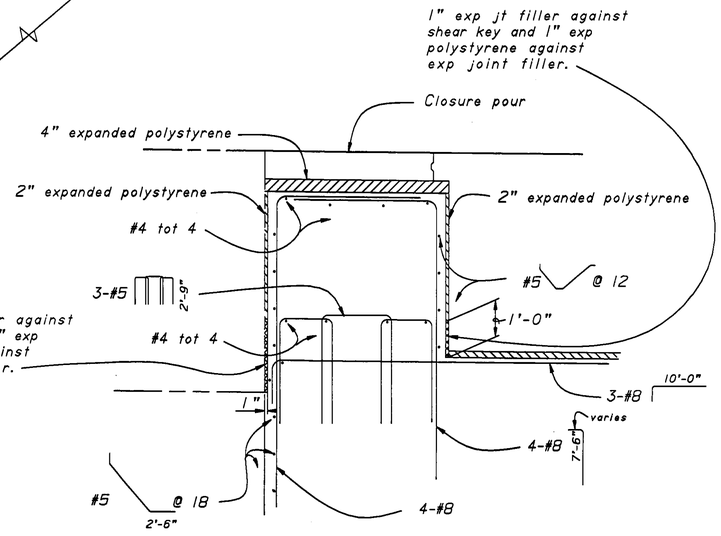
¼"=1'-0"



ELEVATION

¼"=1'-0"

For Section A-A see "Abutment 5 Details-Left" sheet
For Section C-C, Section D-D and Section E-E see "Abutment Details No. 2" sheet.



SECTION B-B

½"=1'-0"

AS BUILT

CORRECTIONS BY DAVID VALLEJOS

CONTRACT NO. 06 - 342934

DATE 4-16-93 VHH 6/6/94

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

"NO AS-BUILT CORRECTIONS"

DESIGN	BY J. FUJIMOTO	8-90	CHECKED R. FERNANDES	9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY AES	9-90	CHECKED R. FERNANDES	9-90	DIVISION OF STRUCTURES STRUCTURE DESIGN 2
QUANTITIES	BY J.FUJIMOTO	9-90	CHECKED R. TANAKA	9-90	

BRIDGE NO. 42-140
POST MILE 26.6

ASHLAN AVENUE O.C.(WIDEN)
ABUTMENT 1 DETAILS-LEFT

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06
EA 342931

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 9-5-90 | 9-28-90 | 10-4-90 | 10-15-90 | 10-19-90 | 11-26-90

SHEET 4 OF 32

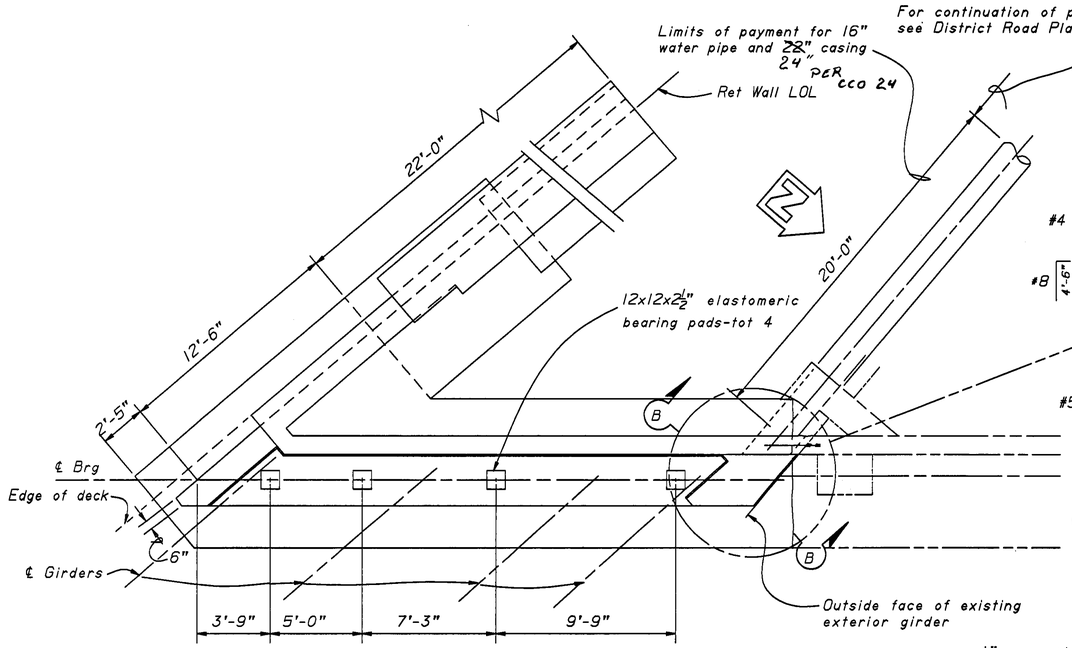
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	24.4, 26.6	172	199

REGISTERED ENGINEER - CIVIL

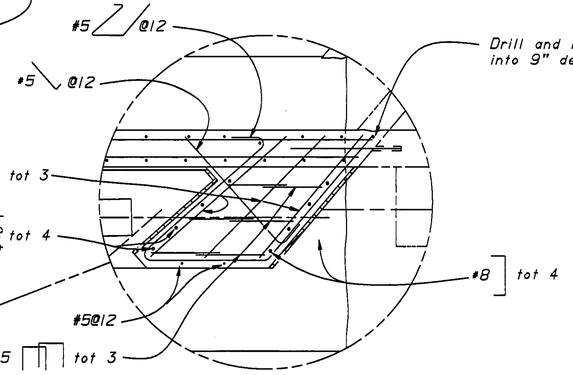
REGISTERED PROFESSIONAL ENGINEER — J. Fujimoto, No. 43943, Exp. 06-30-93, CIVIL — STATE OF CALIFORNIA

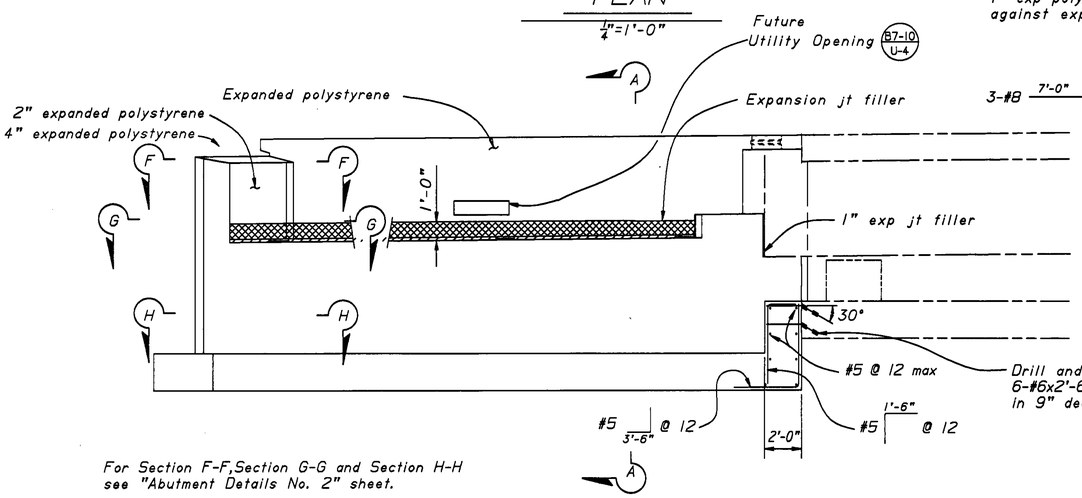
3-11-91
PLANS APPROVAL DATE



PLAN

¼"=1'-0"

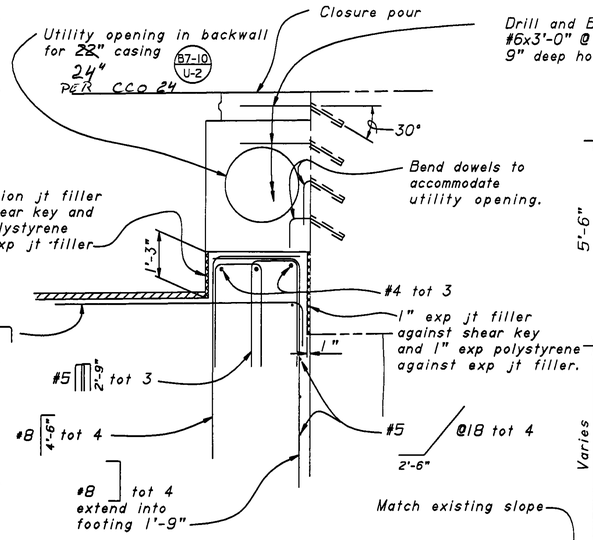




For Section F-F, Section G-G and Section H-H see "Abutment Details No. 2" sheet.

ELEVATION

¼"=1'-0"



SECTION B-B

½"=1'-0"

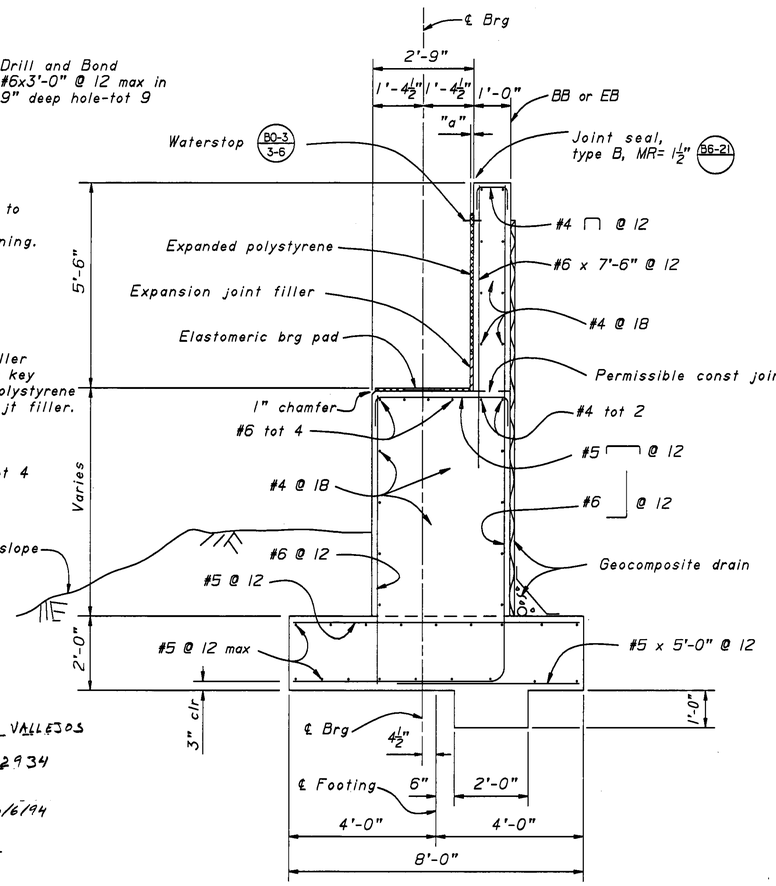
AS BUILT

CORRECTIONS BY DAVID VALLEJOS

CONTRACT NO. 06-342934

DATE 4-16-93 UNM 6/6/94

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



SECTION A-A

½"= 1'-0"

DESIGN	BY J. FUJIMOTO	8-90	CHECKED R. FERNANDES	9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY AES	9-90	CHECKED R. FERNANDES	9-90	DIVISION OF STRUCTURES STRUCTURE DESIGN 2
QUANTITIES	BY J.FUJIMOTO	9-90	CHECKED R. TANAKA	9-90	CU 06 EA 342931

BRIDGE NO. 42-140
POST MILE 26.6

ASHLAN AVENUE O.C.(WIDEN)
ABUTMENT 1 DETAILS-RIGHT

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 9-4-90, 9-24-90, 9-25-90, 10-5-90, 10-11-90, 10-29-90, 11-27-90

SHEET 5 OF 32

ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	24.4, 26.6	173	199

REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — J. Fujimoto — No. 43943 — Exp. 06-30-93 — CIVIL — STATE OF CALIFORNIA

3-11-91
PLANS APPROVAL DATE

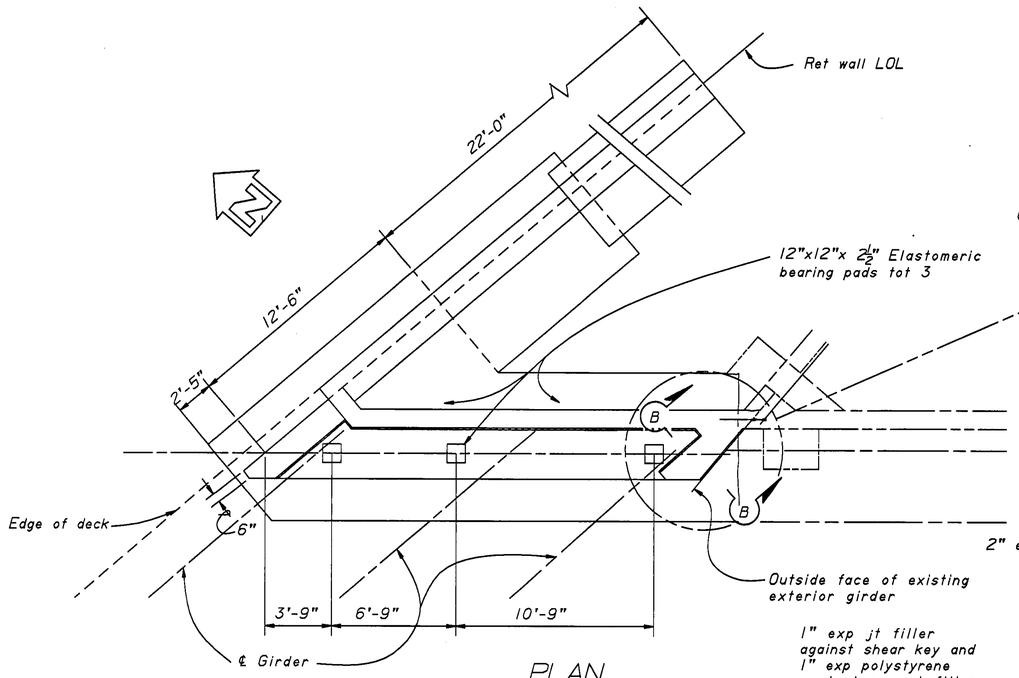
"NO AS-BUILT CORRECTIONS"

AS BUILT

CORRECTIONS BY DAVID VALLEJOS

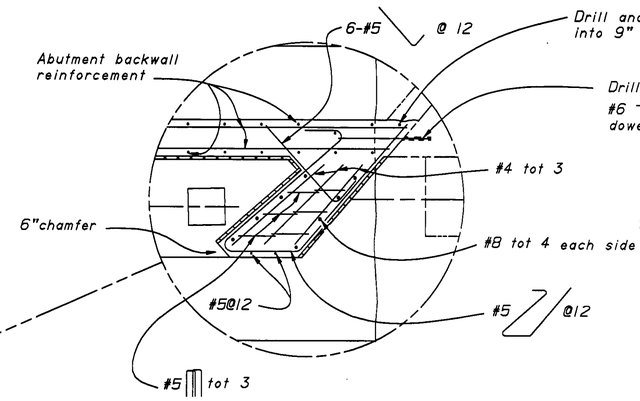
CONTRACT NO. 06-342934

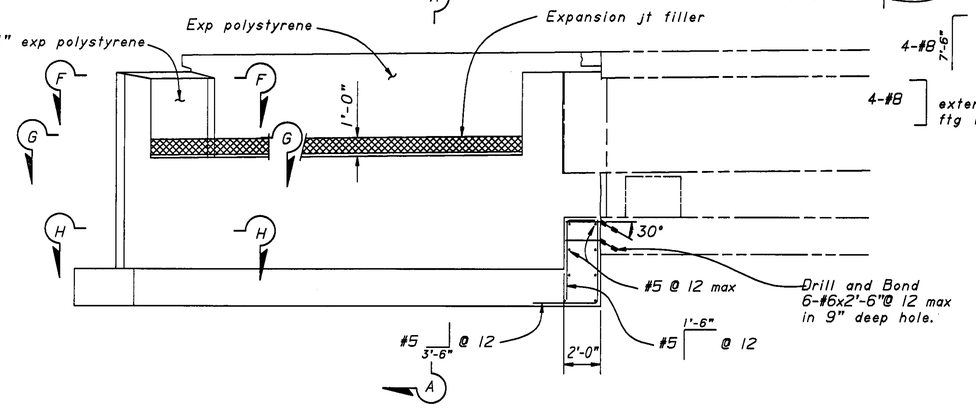
DATE 4-16-93
4/7/94



PLAN

¼"=1'-0"

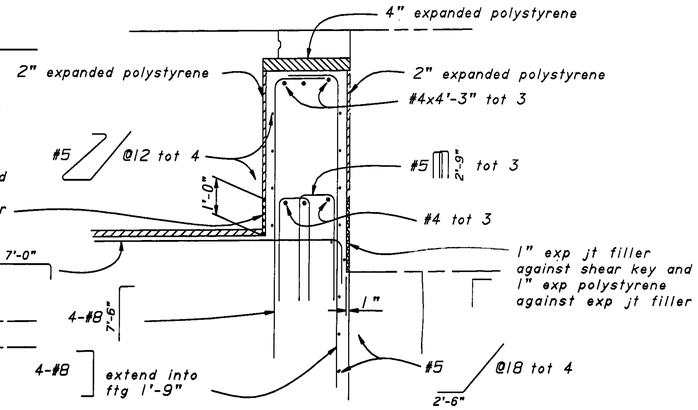




ELEVATION

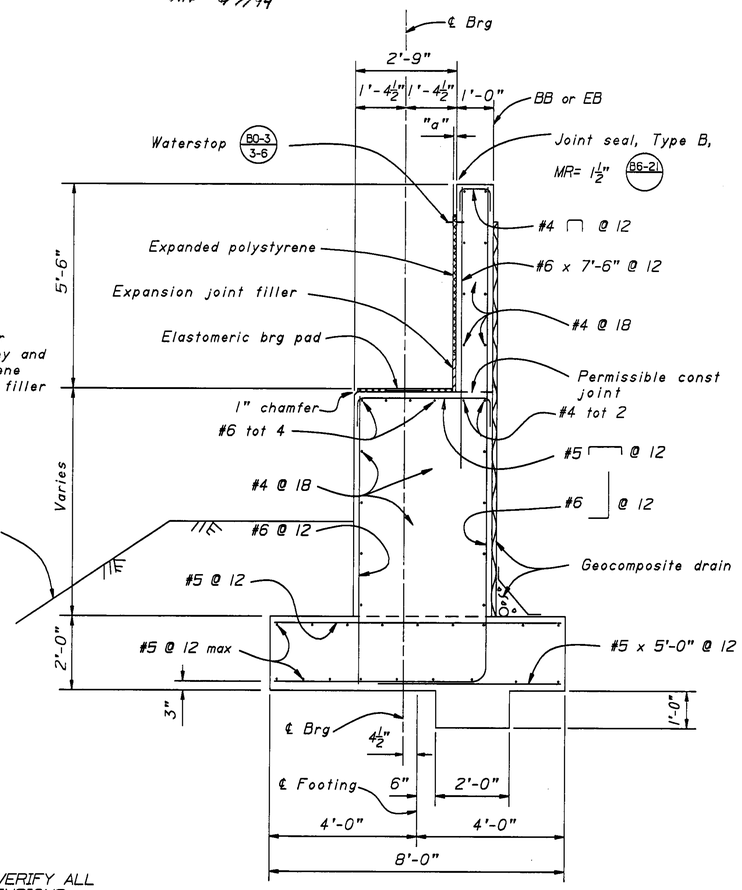
¼"=1'-0"

For Section F-F, Section G-G and Section H-H see "Abutment Details No. 2" sheet.



SECTION B-B

½"=1'-0"



SECTION A-A

½"= 1'-0"

NOTE:
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DESIGN	BY J. FUJIMOTO	8-90	CHECKED R. FERNANDES	9-90
DETAILS	BY AES	9-90	CHECKED R. FERNANDES	9-90
QUANTITIES	BY J.FUJIMOTO	9-90	CHECKED R. TANAKA	9-90

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 2

CU 06
EA 342931

BRIDGE NO. 42-140
POST MILE 26.6

ASHLAN AVENUE O.C.(WIDEN)
ABUTMENT 5 DETAILS-LEFT

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 9-4-90 | 9-19-90 | 10-5-90 | 10-19-90 | 10-29-90 | 11-26-90

SHEET 6 OF 32

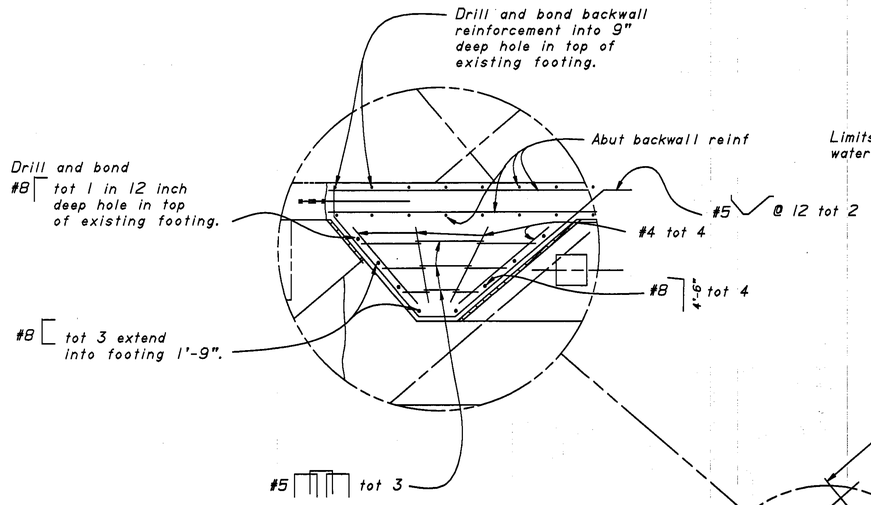
ClibPDF - www.fastio.com

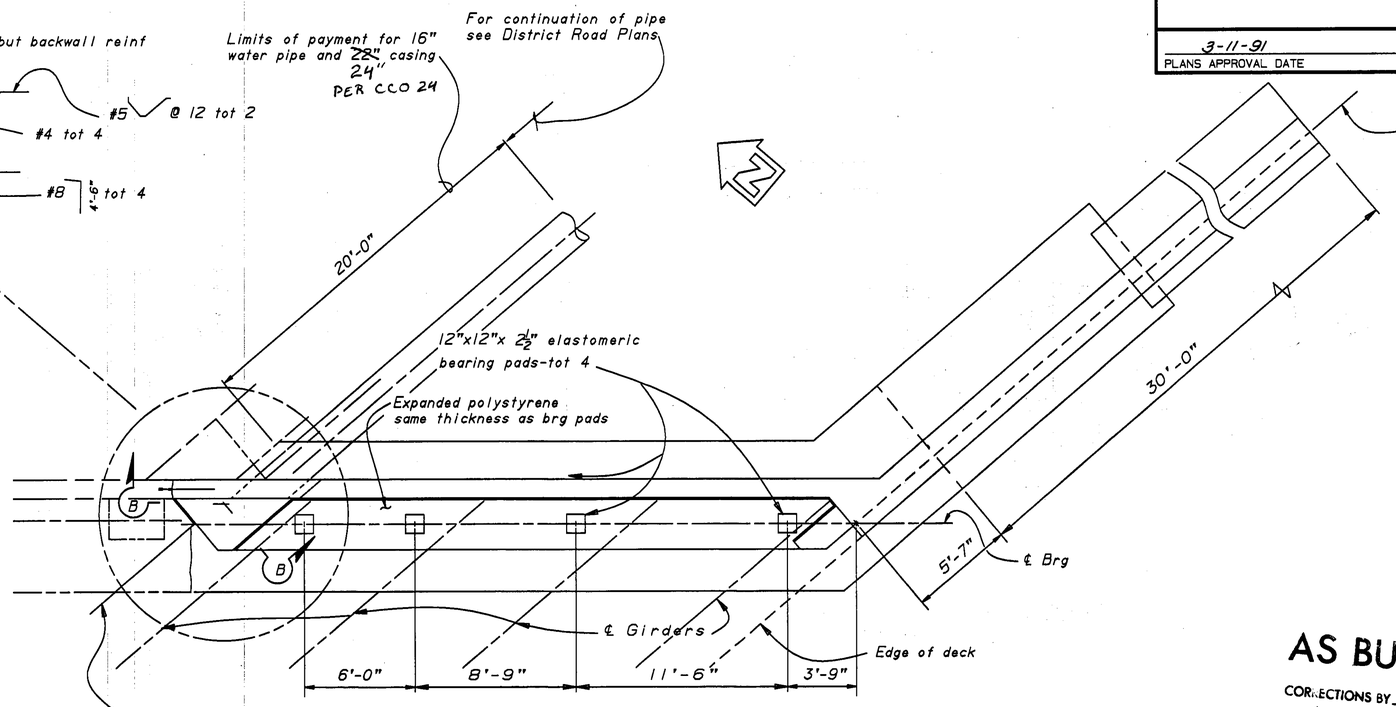
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	24.4, 26.6	174	199

REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — J. Fujimoto, No. 43943, Exp. 06-30-93, CIVIL, STATE OF CALIFORNIA

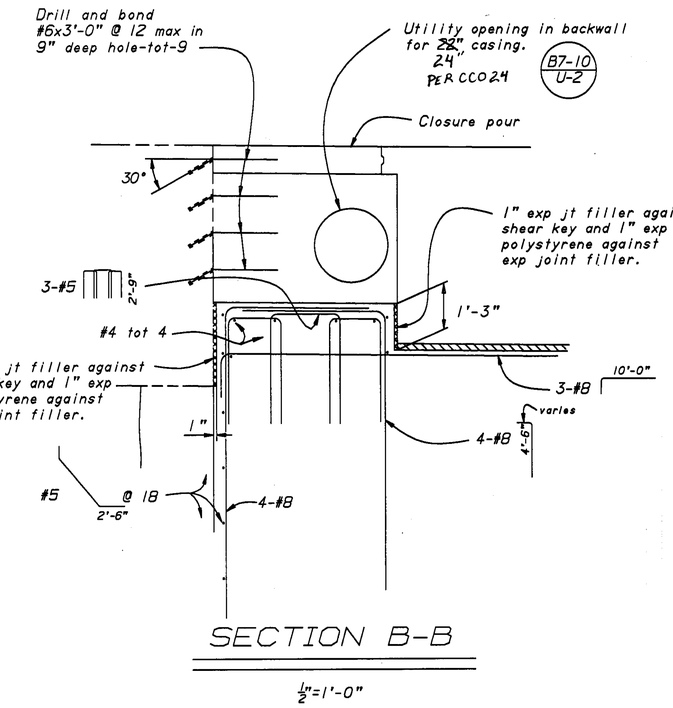
3-11-91
PLANS APPROVAL DATE





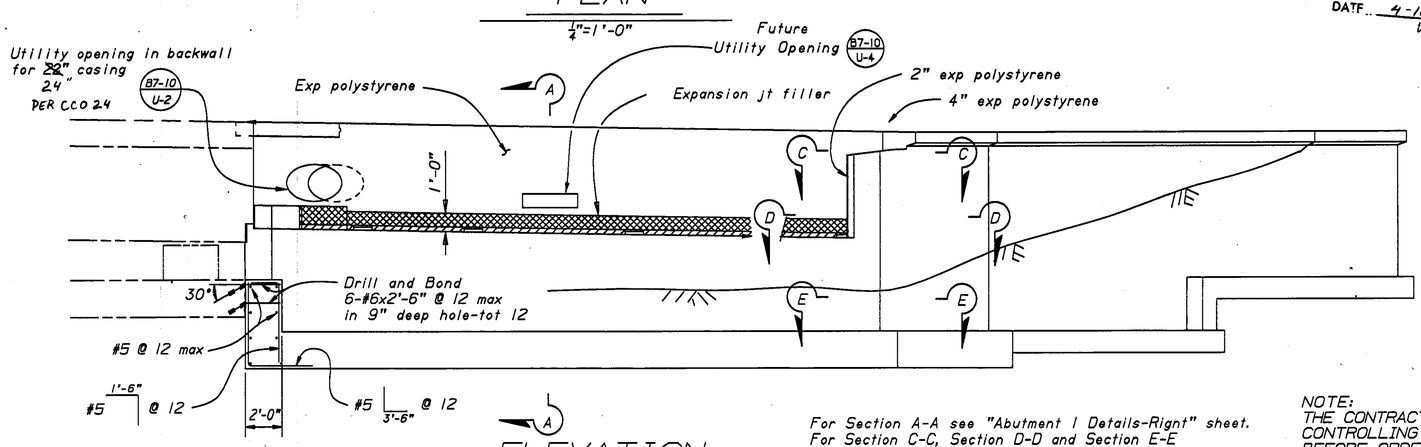
PLAN

1/4"=1'-0"



SECTION B-B

1/2"=1'-0"



ELEVATION

1/4"=1'-0"

For Section A-A see "Abutment 1 Details-Right" sheet.
For Section C-C, Section D-D and Section E-E see "Abutment Details No. 2" sheet.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

AS BUILT
CORRECTIONS BY DAVID VALLEJOS
CONTRACT NO. 06-342934
DATE 4-16-93 VH # 6/7/94

DESIGN	BY J. FUJIMOTO	8-90	CHECKED R. FERNANDES	9-90
DETAILS	BY AES	9-90	CHECKED R. FERNANDES	9-90
QUANTITIES	BY J.FUJIMOTO	9-90	CHECKED R. TANAKA	9-90

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 2

BRIDGE NO. 42-140
POST MILE 26.6

ASHLAN AVENUE O.C.(WIDEN)
ABUTMENT 5 DETAILS-RIGHT

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06
EA 342931

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 9-5-90, 9-24-90, 10-5-90, 10-11-90, 10-22-90, 11-05-90, 11-27-90

SHEET 7 OF 32

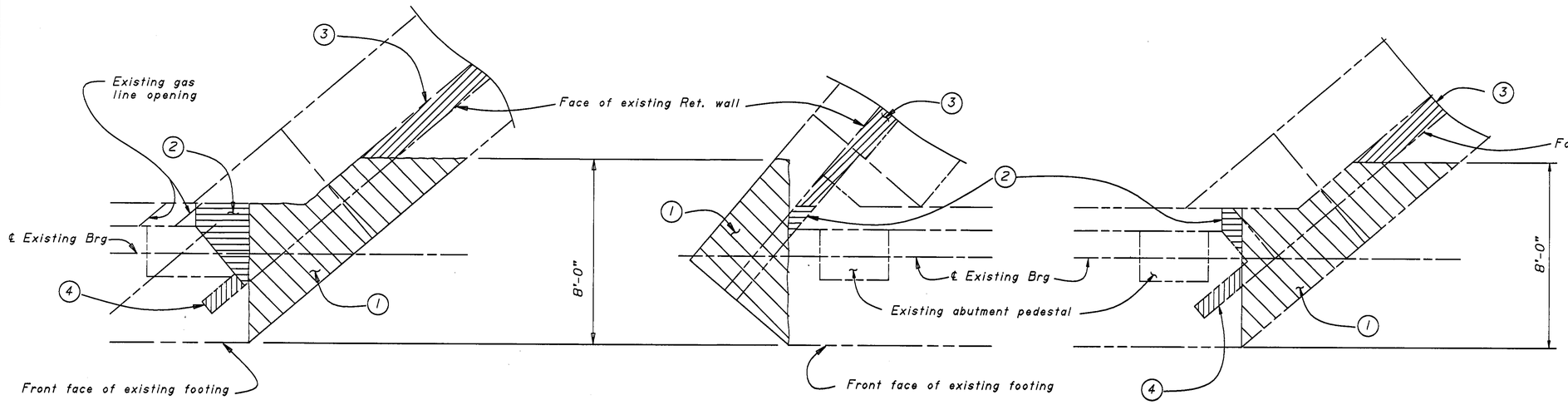
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	24.4, 26.6	175	199

John Fujimoto
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER
J. Fujimoto
No. 43943
Exp. 06-30-93
CIVIL
STATE OF CALIFORNIA

3-11-91
PLANS APPROVAL DATE



ABUT 1 LEFT WIDENING

Looking back on station.

ABUT 5 LEFT-WIDENING

ABUT 5 RIGHT-WIDENING

PART PLAN CONCRETE REMOVAL LIMITS

$\frac{3}{8}$"=1'-0"

Abutment 1 right concrete removal limits similar to abutment 5 left concrete removal limits.

(1) Remove existing curtain wall, backwall and footing.

(2) Remove to top of footing.

(3) Remove existing retaining wall 3' (feet) below finish grade.

(4) Remove existing curtain wall to top of footing. Remove exposed steel 1" (inch) below concrete surface and patch with grout.

"AS BUILT CORRECTIONS"

AS BUILT

CORRECTIONS BY DAVID VALLEJOS

CONTRACT NO. 06-342934

DATE 4-16-93
VHH 6/7/94

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	BY J. FUJIMOTO 8-90	CHECKED R. FERNANDES 9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 2
DETAILS	BY AES 8-90	CHECKED R. FERNANDES 9-90		
QUANTITIES	BY J.FUJIMOTO 9-90	CHECKED R. TANAKA 9-90		

DS 050 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06
EA 342931

BRIDGE NO.	ASHLAN AVENUE O.C.(WIDEN)
42-140	ABUTMENT DETAILS NO. 1
POST MILE 26.6	

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 8-29-90 | 9-27-90 | 10-4-90 | 10-31-90 | 11-27-90

SHEET 8 OF 32

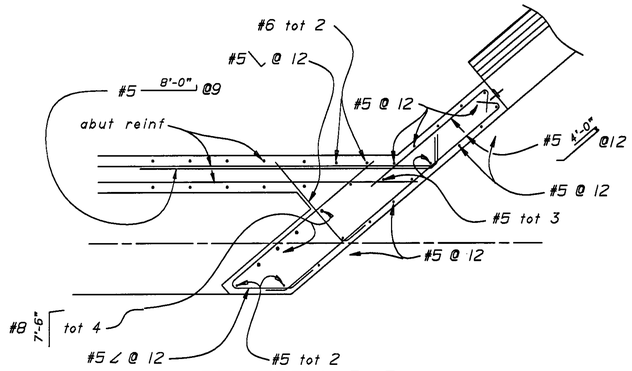
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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	24.4, 26.6	176	199

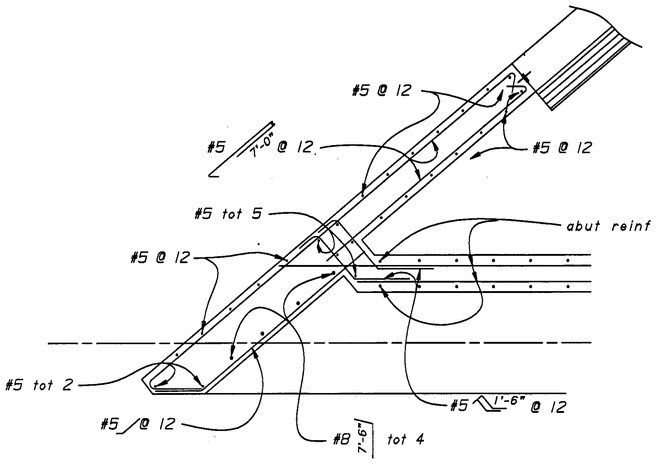
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — J. Fujimoto, No. 43943, Exp. 06-30-93, CIVIL — STATE OF CALIFORNIA

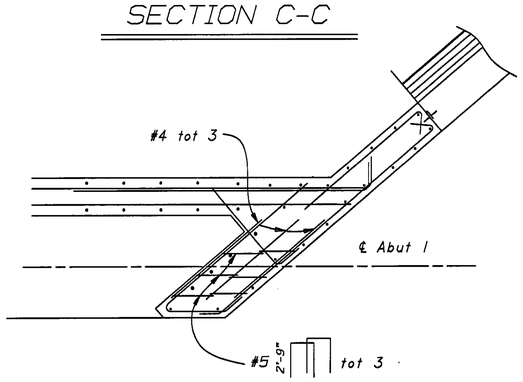
3-11-91
PLANS APPROVAL DATE



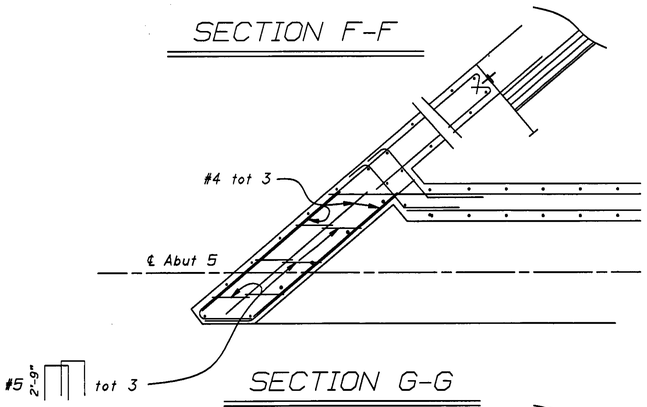
SECTION C-C



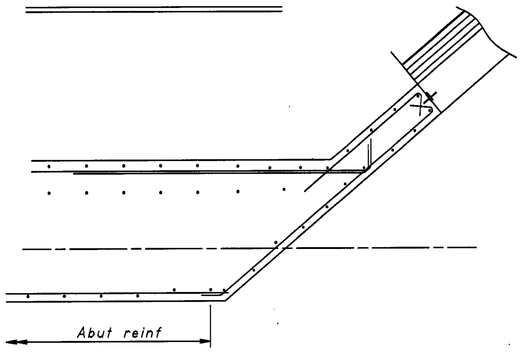
SECTION F-F



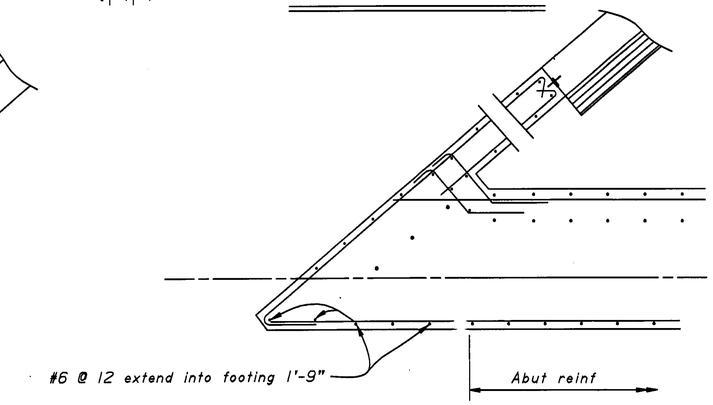
SECTION D-D



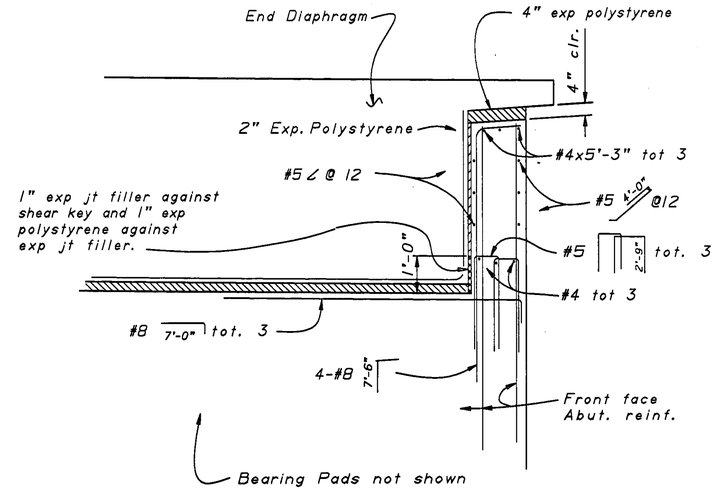
SECTION G-G



SECTION E-E



SECTION H-H



PART ELEVATION-SHEAR KEY DETAILS

AS BUILT

CORRECTIONS BY DAVID VALLEJOS

CONTRACT NO. 06-342934

DATE 4-16-93 VMH 6/7/94

"NO AS-BUILT CORRECTIONS"

For location of Section C-C, Section D-D and Section E-E see " Abutment 5 Details -Right" and "Abutment 1 Details-Left" sheets.

For location of Section F-F, Section G-G and Section H-H see "Abutment 5 Details-Left" and "Abutment 1 Details-Right" sheets.

Left widen shown, Right widen similar.

NOTE:
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$\frac{1}{2}$"=1'-0" unless noted otherwise.

DESIGN	BY J. FUJIMOTO	8-90	CHECKED R. FERNANDES	9-90
DETAILS	BY AES	9-90	CHECKED R. FERNANDES	9-90
QUANTITIES	BY J.FUJIMOTO	9-90	CHECKED R. TANAKA	9-90

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 2

BRIDGE NO. 42-140
POST MILE 26.6

ASHLAN AVENUE O.C.(WIDEN)
ABUTMENT DETAILS NO. 2

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06
EA 342931

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 9-11-90, 10-1-90, 10-23-90

SHEET 9 OF 32

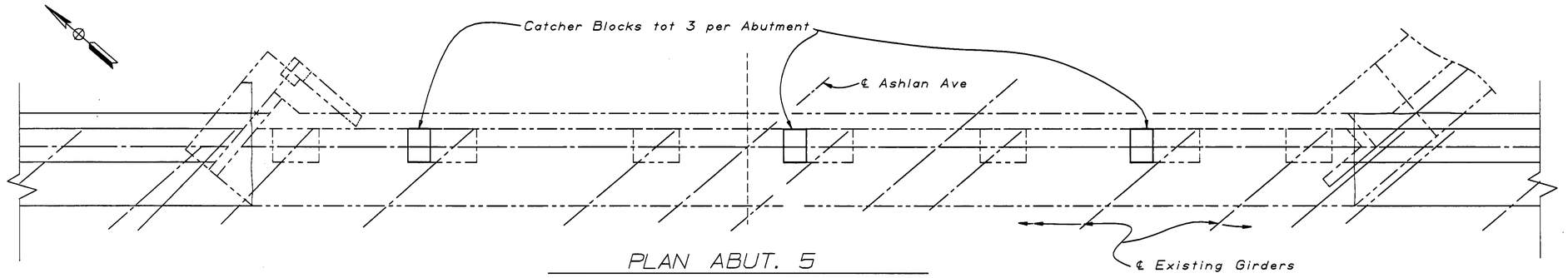
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	24.4, 26.6	177	199

John Fujimoto
REGISTERED ENGINEER - CIVIL

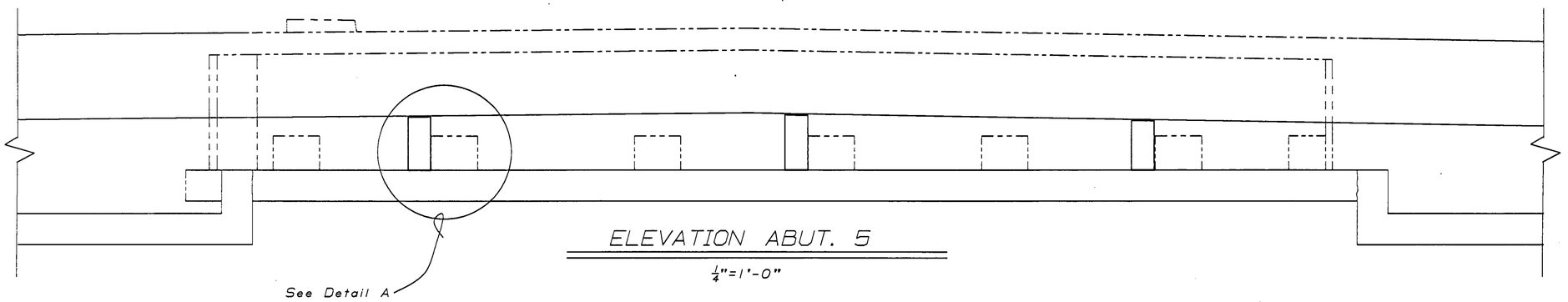
REGISTERED PROFESSIONAL ENGINEER
J. FUJIMOTO
No. 43943
Exp. 6-30-93
CIVIL
STATE OF CALIFORNIA

3-11-91
PLANS APPROVAL DATE



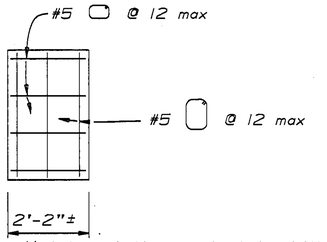
PLAN ABUT. 5

$\frac{1}{4}$"=1'-0"



ELEVATION ABUT. 5

$\frac{1}{4}$"=1'-0"



SECTION A-A

$\frac{3}{4}$"=1'-0"

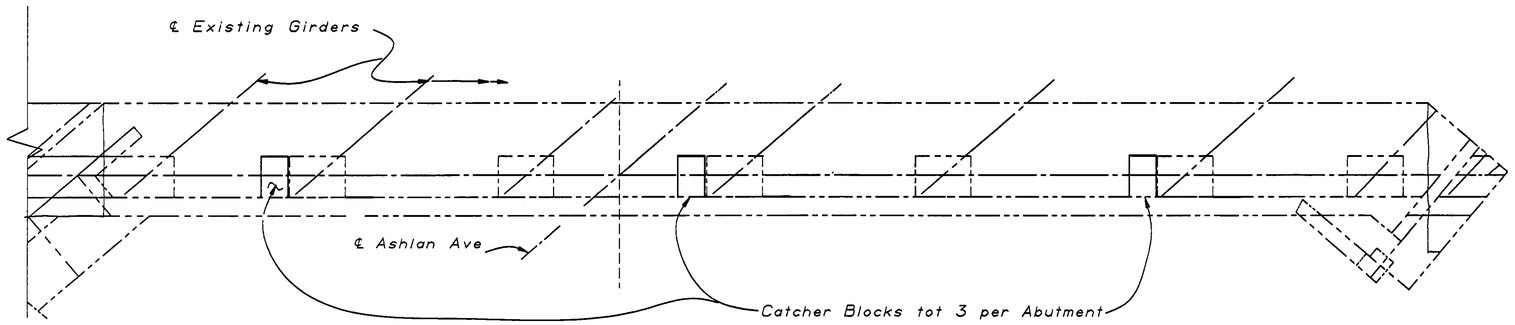
"NO AS-BUILT CORRECTIONS"

AS BUILT

CORRECTIONS BY DAVID VALLEJOS

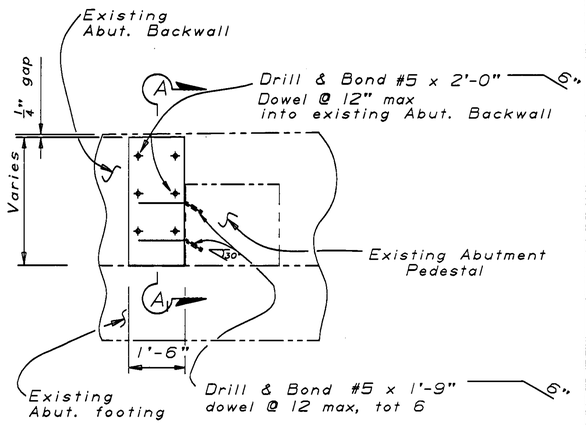
CONTRACT NO. 06-342934

DATE 4-16-93 VHH 6/7/94



PLAN ABUT. 1

$\frac{1}{4}$"=1'-0"



DETAIL A

$\frac{3}{4}$"=1'-0"

NOTE:
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DESIGN	BY John Fujimoto	CHECKED Ruth Fernandes	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY Jim Klovach 9-90	CHECKED Ruth Fernandes	DIVISION OF STRUCTURES STRUCTURE DESIGN 2
QUANTITIES	BY John Fujimoto	CHECKED Bob Tanaka	

BRIDGE NO.	ASHLAN AVENUE O.C. (WIDEN)
42-140	ABUTMENT CATCHER DETAILS
POST MILE 26.6	

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06
EA 342931

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 8-17-90; 8-28-90; 10-1-90; 10-29-90; 11-27-90

SHEET 10 OF 32

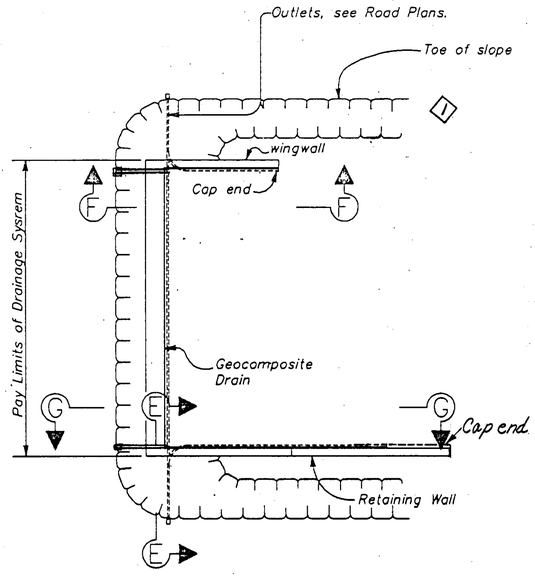
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	24.4, 26.6	197	199

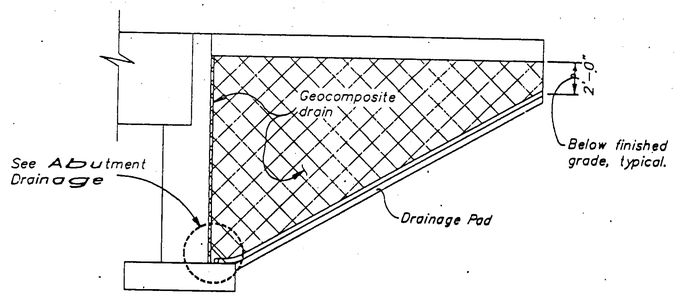
REGISTERED ENGINEER - CIVIL

J. Fujimoto
No. 43943
Exp. 6-30-92
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

3-11-91
PLANS APPROVAL DATE

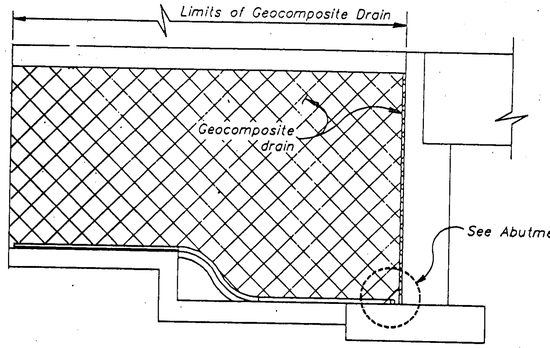


TYPICAL PLAN
1" = 10'



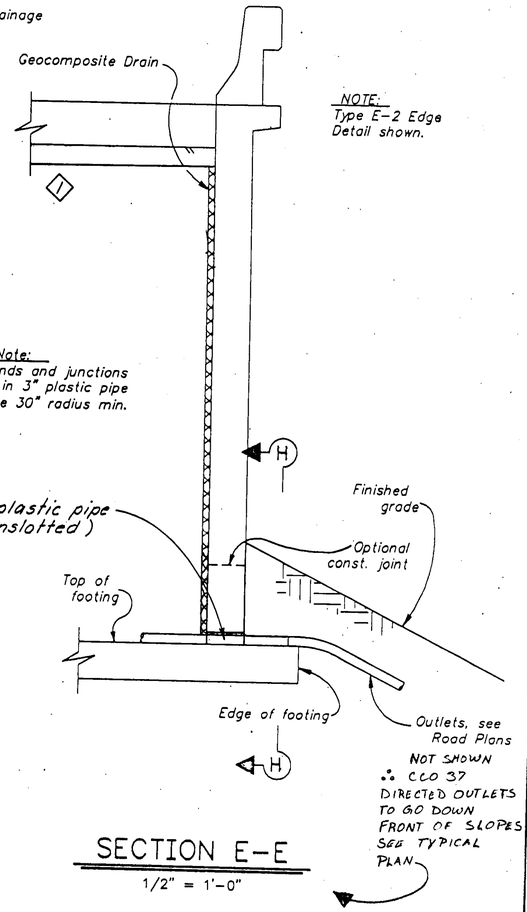
CANTILEVER WINGWALL

SECTION F-F
1/4" = 1'-0"



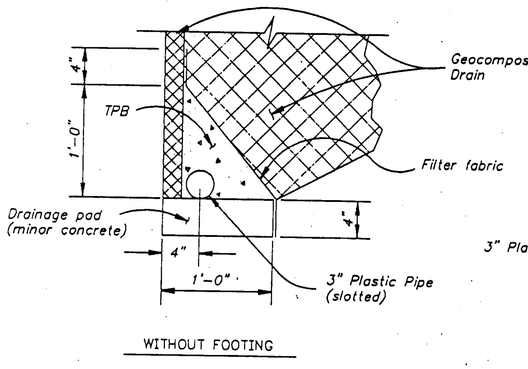
RETAINING WALL, WINGWALL

SECTION G-G
1/4" = 1'-0"

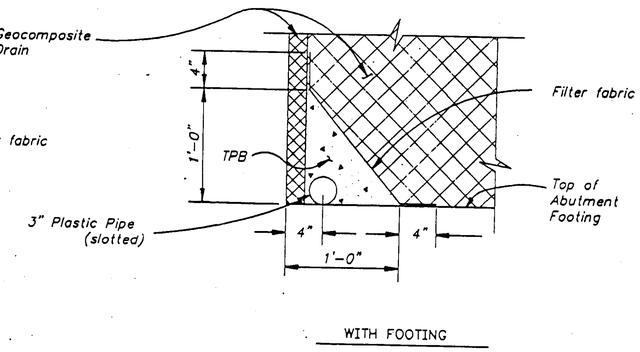


SECTION E-E
1/2" = 1'-0"

Note:
Bends and junctions in 3" plastic pipe are 30" radius min.

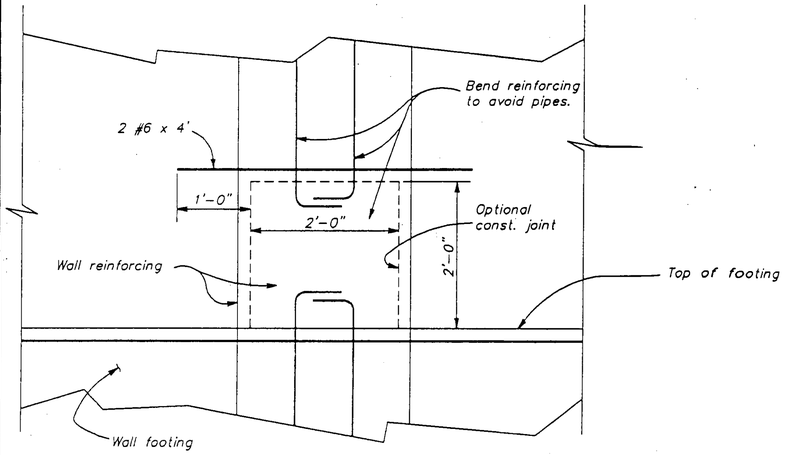


WITHOUT FOOTING



WITH FOOTING

ABUTMENT DRAINAGE
1-1/2" = 1'-0"



SECTION H-H
1" = 1'-0"

AS BUILT

CORRECTIONS BY DAVID VALLEJOS

CONTRACT NO. 06-342934

DATE 4-16-93 VAH 6/7/94

SPECIAL DETAIL

STANDARD DRAWING			
FILE NO. XS 22-17	DESIGN BY	CHECKED	APPROVAL RECOMMENDED BY
DRAWING DATE REVISED	DETAILS BY	CHECKED	DESIGN SUPERVISOR
	SUBMITTED BY		

1 Revised = No Approach Slab

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
DIVISION OF STRUCTURES
STRUCTURE DESIGN 2

CU 06
EA 342931

BRIDGE NO. 42-140
POST MILE 26.6

ASHLAN AVENUE O.C. (WIDEN)
DRAINAGE DETAILS

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 5/26/90 11/1/90 7/16/90

SHEET 30 OF 32

DS 050 2147A (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	24.4, 26.6	169	199

John Fujimoto
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER
J. Fujimoto
No. 43943
Exp. 6-30-93
CIVIL
STATE OF CALIFORNIA

3-11-91
PLANS APPROVAL DATE

INDEX TO PLANS

1. General Plan
2. Index To Plans
3. Foundation Plan
4. Abutment 1 Details - Left
5. Abutment 1 Details - Right
6. Abutment 5 Details - Left
7. Abutment 5 Details - Right
8. Abutment Details No. 1
9. Abutment Details No. 2
10. Abutment Catcher Details
11. Retaining Wall Layout
12. Bent 3 Details - Left
13. Bent 3 Details - Right
14. Bent 3 Details
15. Bent 4 Details - Left
16. Bent 4 Details - Right
17. Construction Joint Detail
18. Typical Section
19. Girder Layout Left
20. Girder Layout Right
21. Top Girder Reinf. - Left
22. Top Girder Reinf. - Right
23. Bottom Girder Reinf. - Left
24. Bottom Girder Reinf. - Right
25. Prestressed I Girder No.1
26. Prestressed I Girder No.2
27. Miscellaneous Girder Details
28. Vehicle Crash Cushion (G.R.E.A.T.)
29. Temporary Crash Cushion, Sand Filled
30. Drainage Details
31. Water Line Details
32. Log of Test Borings

STANDARD PLANS DATED JANUARY 1988

A62-C Excavation and Backfill Bridge
B0-1 Bridge Details
B0-3 Bridge Details
B0-5 Bridge Details
B0-13 Bridge Details
B3-1 Retaining Wall Type 1
B3-8 Retaining Wall Details No.1
B6-21 Joint Seals
B7-1 Box Girder Details
B7-10 Utility Opening - Box Girder
B11-52 Chain Link Railing Type 7
B11-53 Concrete Barrier Type 25
B11-54 Concrete Barrier Type 26

Standard Plan Sheet No.
Detail No.

NO ASBUILT CHANGES.
"NO AS-BUILT CORRECTIONS"
AS BUILT
CORRECTIONS BY DAVID VALLEJOS
CONTRACT NO. 06-342934
DATE 4-16-93 VH H 6/6/94

GENERAL NOTES
LOAD FACTOR DESIGN

DESIGN: BRIDGE DESIGN SPECIFICATIONS (1983 AASHTO with Interims and Revisions by CALTRANS)

DEAD LOAD: Includes 35 psf for future wearing surface.

LIVE LOADING: HS20-44 and alternative and permit design load.

REINFORCED CONCRETE:
f_y = 60,000 psi
f'_c = 3,250 psi
n = 9

Transverse Deck Slabs (Working Stress Design)
f_s = 20,000 psi
f_c = 1,200 psi
n = 10

FOOTING PRESSURE:

ALLOWABLE	DESIGN
3 TSF	3 TSF

DESIGN	BY J. Fujimoto 8-90	CHECKED R.Fernandez 9-90	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 2	BRIDGE NO. 42-140
DETAILS	BY Jim Klovach 11-90	CHECKED R.Fernandez 9-90			POST MILE 26.6
QUANTITIES	BY J. Fujimoto 9-90	CHECKED R.Tanaka 9-90			

ASHLAN AVENUE O.C. (WIDEN)
INDEX TO PLANS

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06
EA342931

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 11-29-90 | 11-30-90 | 12-3-90

SHEET 2 OF 32

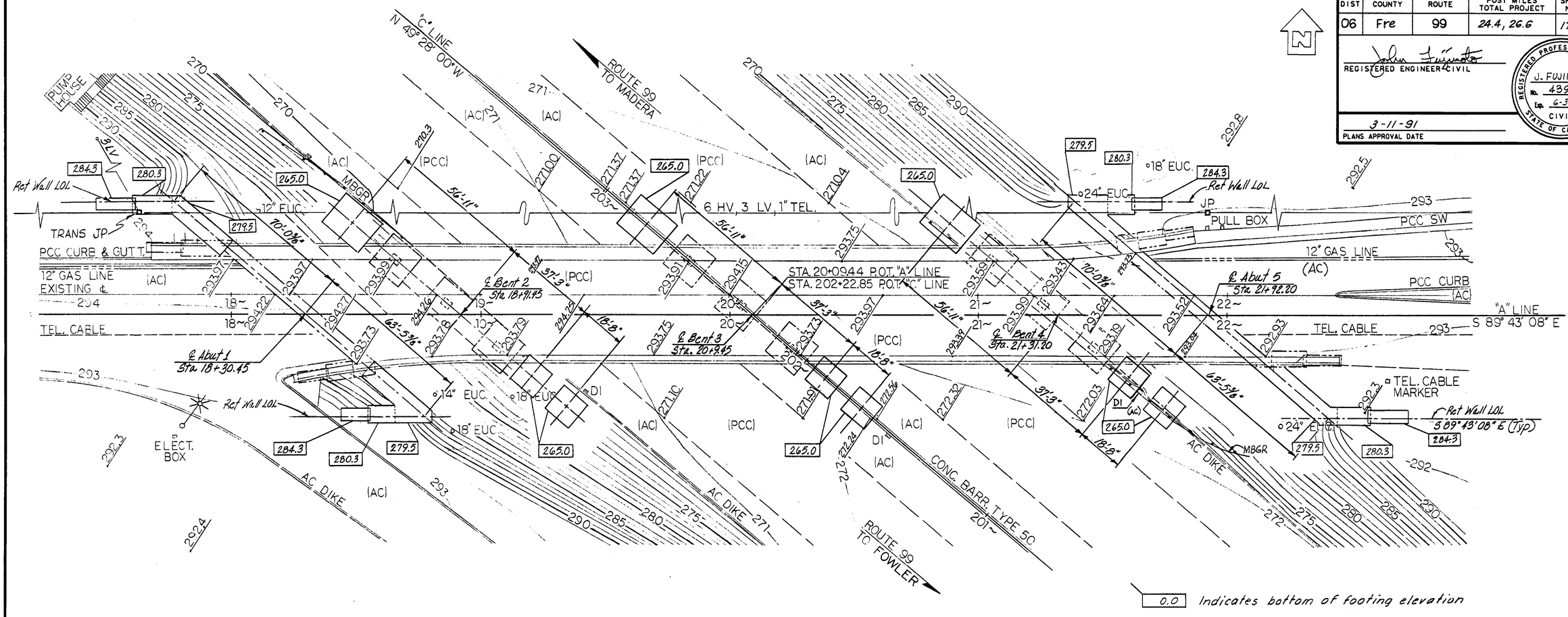
ClibPDF - www.fastio.com

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	24.4, 26.6	170	199

REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — J. FUJIMOTO — No. 43943 — Exp. 6-30-93 — CIVIL — STATE OF CALIFORNIA

3-11-91
PLANS APPROVAL DATE



BR. R.P. #1	BR. R.P. #3
1" I.P. W/ PLASTIC CAP "CAL. DOT." 100' RT. EXIST. ℄ 17+00 EL. 292.55	1" I.P. W/PL. CAP 175' RT. EXIST. ℄ 24+00 EL. 289.955
BR. R.P. #2	**BR R.P. #4**
1" I.P. W/ PLASTIC CAP "CAL. DOT." 100' LT. EXIST. ℄ 17+00 EL. 293.50	1" I.P. W/PL. CAP 100' LT. EXIST. ℄ 24+00 EL. 292.605

INDICATES SPOT ELEVATION

AS BUILT

CORRECTIONS BY DAVID VALLEJOS

CONTRACT NO. 06-342934

DATE 4-16-93 UNH 6/6/94

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

PR-42140-1

PRELIMINARY INVESTIGATION SECTION

SCALE	DATUM	PHOTOGRAMMETRY AS OF:		DRAWN	BY MEW	11/89
1"=20'	DIST.	SURVEYED	BY DIST.	TRACED	BY MEW	11/89
ALIGNMENT TIES PR-42140-4R		FIELD CHECKED	BY MEW 11/89	CHECKED	BY RRB	11/89

	BY	CHECKED
DESIGN	John Fujimoto	Ruth Fernandes
DETAILS	Jim Kuhach 8/90	Ruth Fernandes
QUANTITIES	John Fujimoto	Bob Tanaka

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 2

CU 06
EA 342931

BRIDGE NO. 42-140
POST MILE 26.6

ASHLAN AVE. OC (WIDEN)
FOUNDATION PLAN

DS OSD 2145 (4/89) 89 53339

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 7/11/90 | 10/11/90 | 11/29/90

SHEET 3 OF 32

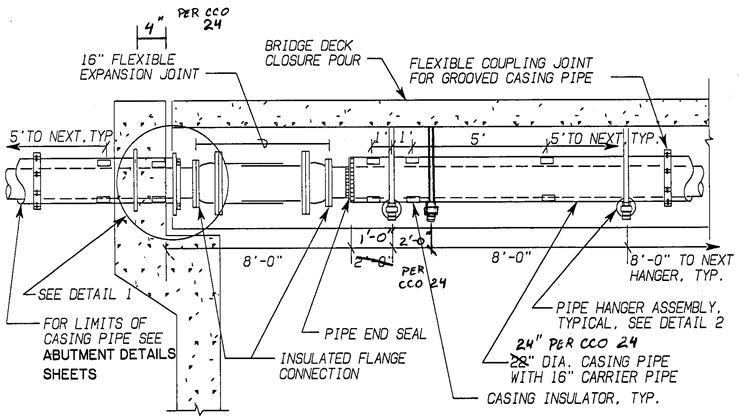
ClibPDF - www.fastio.com

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	24.4, 26.6	198	199

H.T. Phan
REGISTERED ENGINEER MECHANICAL

REGISTERED PROFESSIONAL ENGINEER — H.T. PHAN — No. 20269 — Exp. 9-30-92 — MECH. — STATE OF CALIFORNIA

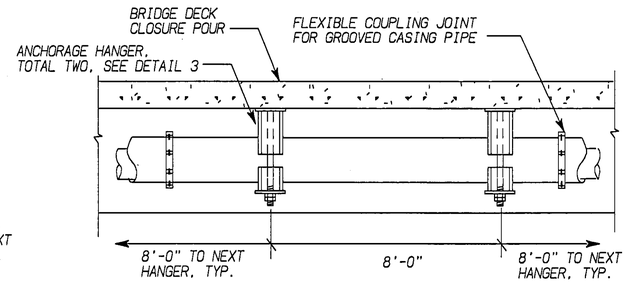
3-11-91
PLANS APPROVAL DATE



WATER ~~SUPPLY~~ LINE INSTALLATION

(TYPICAL AT ABUTMENT WALL)

NOTE : 1. EACH SECTION OF CASING PIPE (BETWEEN FLEXIBLE COUPLING JOINT) SHALL HAVE 2 HANGERS MINIMUM.
2. FLEXIBLE EXPANSION JOINT AT CLINTON BR. ABUTMENT 1 SHALL BE SET WITH MINIMUM LENGTH (FULLY RETRACTED). OTHERS SHALL BE SET IN THE MIDDLE OF EXPANSION CAPACITY.

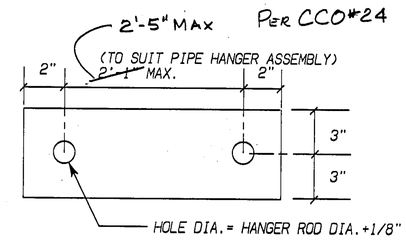


CASING PIPE ANCHORAGE INSTALLATION

LOCATE AT MIDLENGTH OF STRUCTURE

("A" LINE STA 20+34 ±)

GENERAL NOTE :
1. FOR LOCATION OF PIPE SEE "TYPICAL SECTION" AND "GIRDER LAYOUT" SHEETS.
2. HANGER RODS SHALL BE CAST IN BRIDGE DECK CLOSURE POUR IN A PLUMBED POSITION
3. ALL STEEL PARTS SHALL BE GALVANIZED.
4. ALL DETAILS ARE SHOWN WITH ~~NO SCALE~~ 1½"
5. HANGER ROD : MINIMUM ~~1 1/4"~~ DIA. STEEL
CASING PIPE : ~~28~~ 24" DIA. (3/8" THICK) GROOVED GALV. STEEL PIPE
CARRIER PIPE : 16" DIA. DUCTILE IRON PIPE PER CCO #24



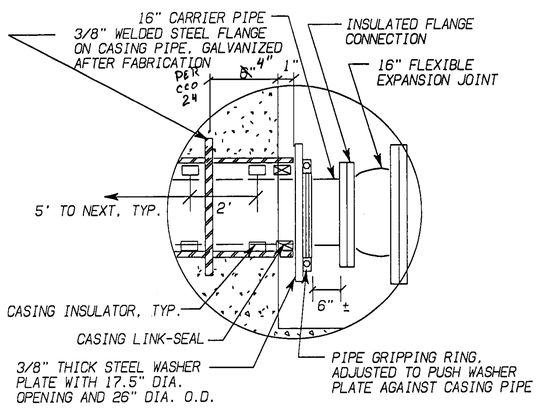
DETAIL 5: LEVEL STEEL PLATE (3/8" THICK)

AS BUILT

CORRECTIONS BY DAVID VALLEJOS

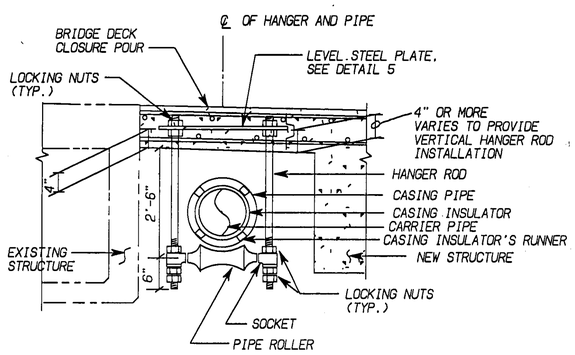
CONTRACT NO. 06-342934

DATE 4-16-93 VHR 6/7/94



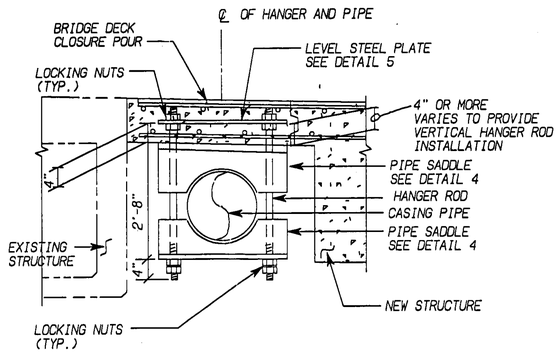
DETAIL 1: PIPE END INSTALLATION

(TYPICAL AT ABUTMENT WALL)



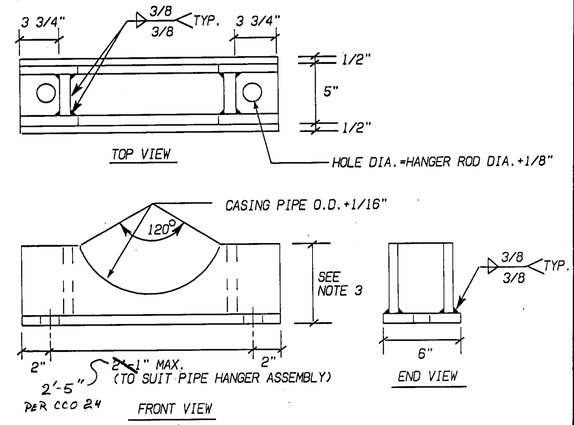
DETAIL 2: PIPE HANGER ASSEMBLY

NOTE: 1. CASING INSULATOR SHALL HAVE SPACING OF 5 FEET MAX, EXCEPT AS NOTED.
2. TWO CASING INSULATOR'S RUNNERS SHALL BE INSTALLED AND SEATED ON THE BOTTOM OF CASING PIPE.



DETAIL 3: ANCHORAGE HANGER

NOTE: 1. CARRIER PIPE AND CASING INSULATOR **ARE** NOT SHOWN FOR CLARITY.
2. CASING PIPE SHALL BE SECURED TIGHT WITH ANCHORAGE HANGERS.



DETAIL 4: PIPE SADDLE

NOTE : 1. ALL COMPONENTS ARE 3/8" THICK STEEL PLATE.
2. GALVANIZE PIPE SADDLE AFTER FABRICATION
3. HEIGHT OF SADDLE SHALL BE DETERMINED TO PROVIDE ALIGNED PIPE INSTALLATION.

STRUCTURAL REVIEW
BY : John Fujimoto 11/30/00 DATE

DESIGN	BY peter chan 11/90	CHECKED H. Phan	
DETAILS	BY peter chan 11/90	CHECKED H. Phan	
QUANTITIES	BY peter chan 11/90	CHECKED H. Phan	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ELECTRICAL
DIVISION OF STRUCTURES MECHANICAL-SANITARY DESIGN

CU 06
EA 342931

BRIDGE NO. 42-140
POST MILE 26.6

ASHLAN AVENUE O.C. (WIDEN)
WATER LINE DETAILS

SHEET

DISREGARD PRINTS BEARING EARLIER REVISION DATES → REVISION DATES (PRELIMINARY STAGE ONLY) 11/19/90 | 12/28/90 | 1/30/91

SHEET 31 OF 32

DS OSD 2171 -E (5/89) 88 53334

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

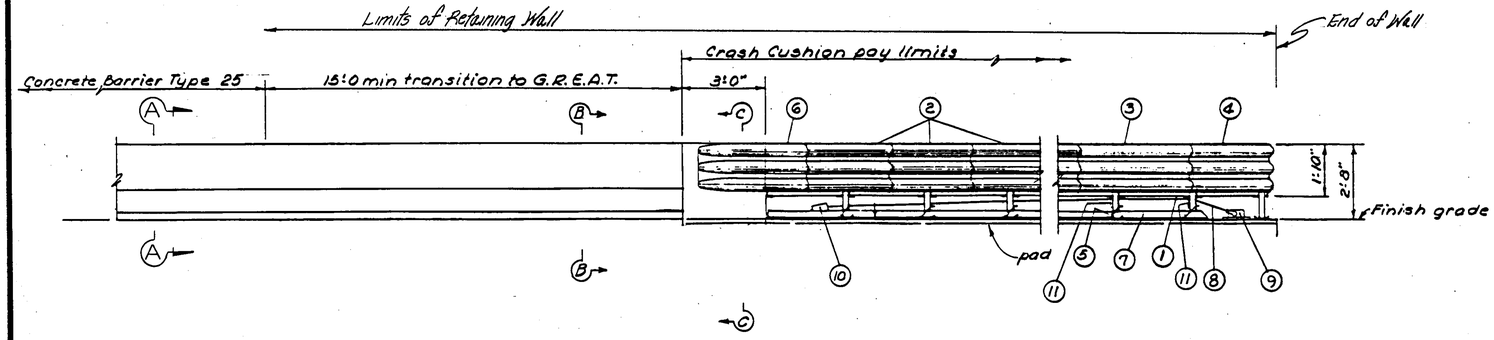
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	24.4, 26.6	195	199

REGISTERED PROFESSIONAL ENGINEER — J. Fujimoto — No. 43943 — Exp. 6-30-93 — CIVIL — STATE OF CALIFORNIA

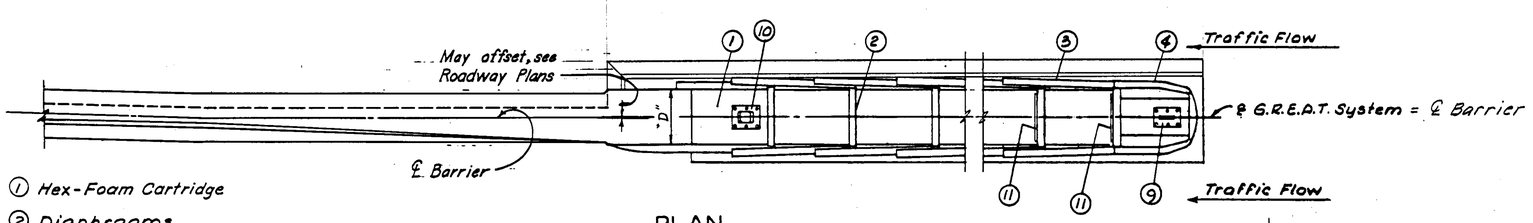
REGISTERED ENGINEER - CIVIL — John Fujimoto

DATE APPROVED 3-11-91



ELEVATION

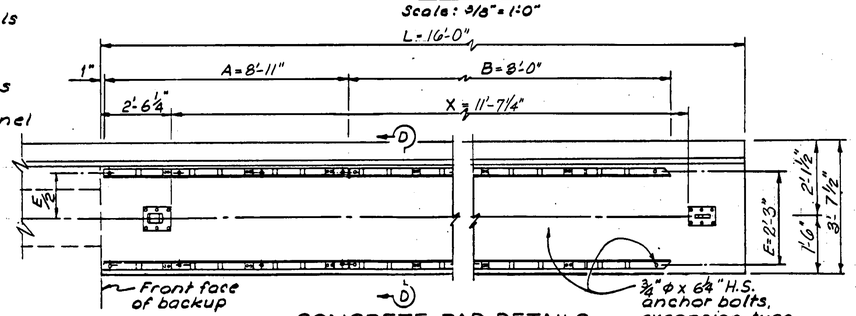
Scale: 3/8" = 1'-0"



1. Hex-Foam Cartridge
2. Diaphragms
3. Thrie Beam Panels
4. Nose Wrap
5. Stabilizing Chains
6. Wing Terminal Panel
7. Restraining Chain Railing
8. Restraining Cable
9. Front Cable Anchor
10. Rear Cable Anchor
11. Restraining Cable Guide

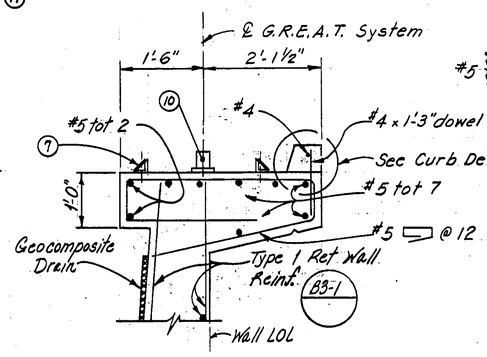
PLAN

Scale: 3/8" = 1'-0"



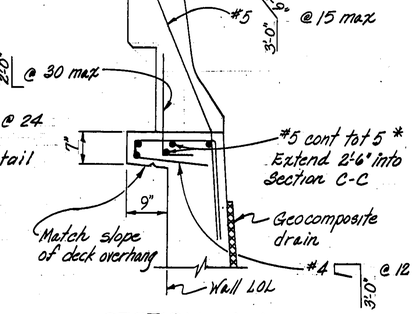
CONCRETE PAD DETAILS

Scale: No Scale



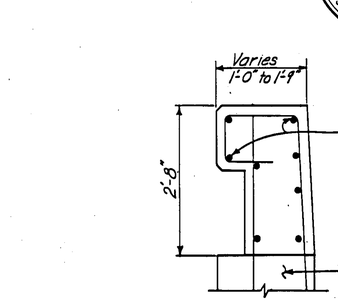
SECTION D-D

3/4" = 1'-0"



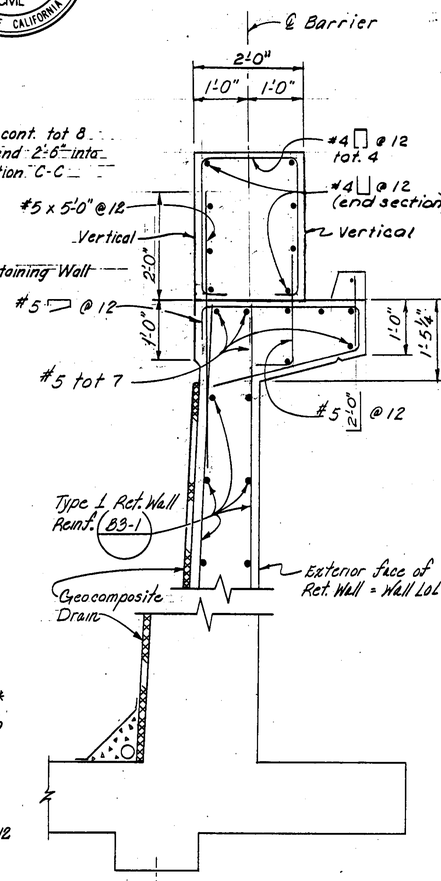
SECTION A-A

3/4" = 1'-0"



SECTION B-B

Scale: 3/4" = 1'-0"



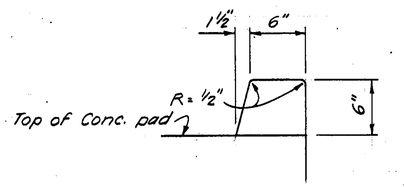
SECTION C-C

3/4" = 1'-0"

See (811-33 Type 25) for reinf. & dimensions not shown.

	See Note 1 For Verification								
Model No.	No. of Bays	L	A	B	C	D	E	X	No. of Anchor Bolts
2002003F4	4	16'-0"	8'-11"	3'-0"	—	2'-0"	2'-3"	11'-7 1/4"	24

Notes:
1. For all accessories to G.R.E.A.T. System, concrete anchor bolts etc., see M'rs details.
2. Transition of ℄ Barrier to meet ℄ of G.R.E.A.T. System.
3. See "Roadway Plans" for details.
4. Place rebar to avoid interference when drilling anchor bolt holes.



CURB DETAIL

1 1/2" = 1'-0"

"NO AS-BUILT CORRECTIONS"

AS BUILT

CORRECTIONS BY DAVID VALLEJOS

CONTRACT NO. 06-342934

DATE 4-16-93 VAH 6/17/94

DESIGN	By JOHN FUJIMOTO	Checked RUTH FERNANDES	State of CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE DEPARTMENT DESIGN SECTION 2	BRIDGE NO. 42-140	ABUTMENT 1R
DETAILS	By TIM KLOVACH 9/1	Checked RUTH FERNANDES		PROJECT ENGINEER	POST MILE 26.6	ASHLAN AVENUE O. C. (WIDEN)
QUANTITIES	By JOHN FUJIMOTO	Checked BOB TANAKA				VEHICLE CRASH CUSHION (G.R.E.A.T.)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06 WO 342931

Disregard prints bearing earlier revision dates →

REVISION DATES (PRELIMINARY STAGE ONLY) 7/94 11/2/0

SHEET 28 OF 47

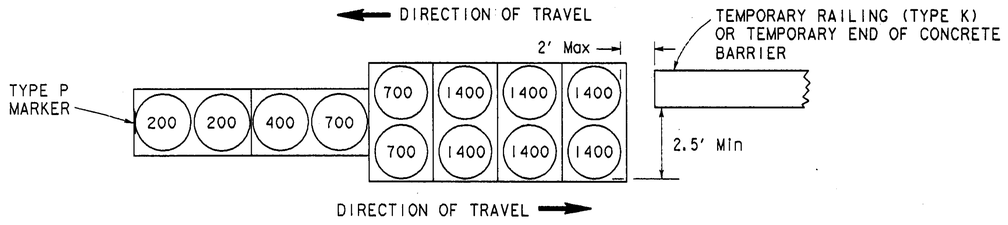
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	24.4, 26.6	196	199

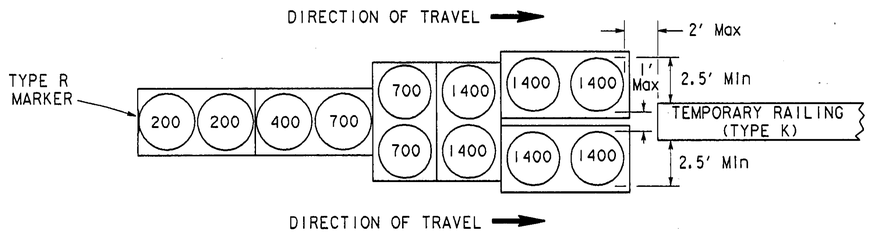
E. J. Tye
REGISTERED ENGINEER-CIVIL

REGISTERED PROFESSIONAL ENGINEER — E.J. TYE No. 15193 Exp. 3-31-93 CIVIL — STATE OF CALIFORNIA

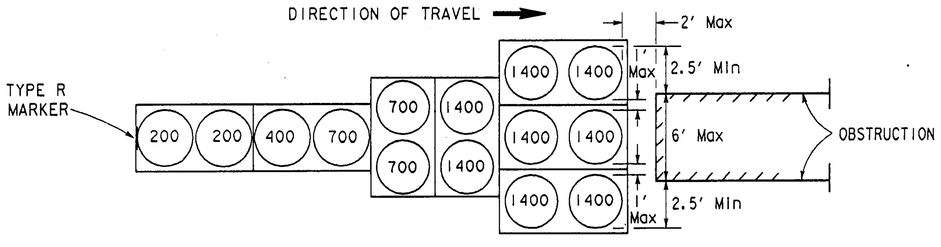
3-11-91
PLANS APPROVAL DATE



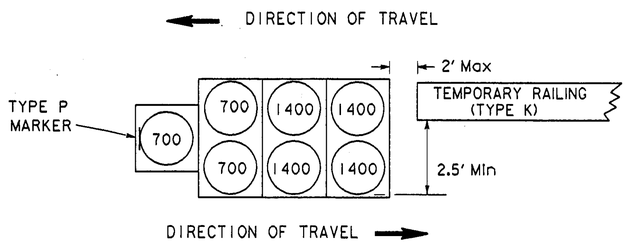
ARRAY 'A'
(APPROACH SPEED GREATER THAN 55 MPH)



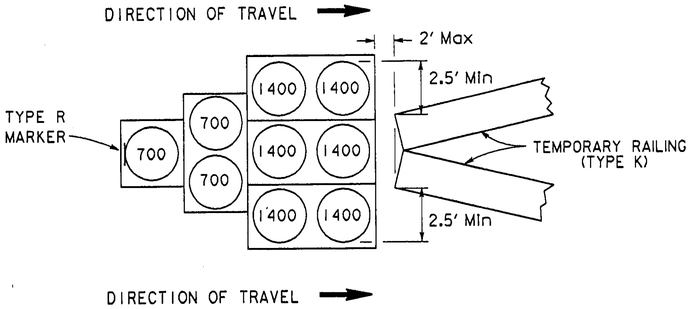
ARRAY 'B'
(APPROACH SPEED GREATER THAN 55 MPH)



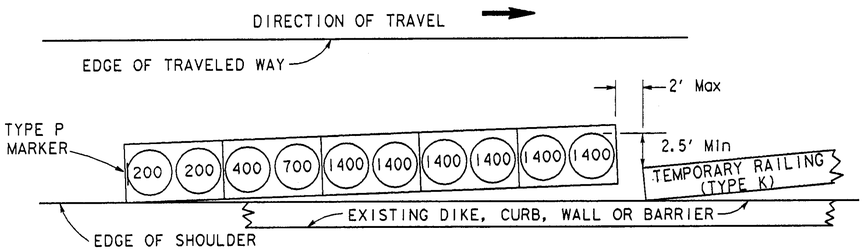
ARRAY 'C'
(APPROACH SPEED GREATER THAN 55 MPH)



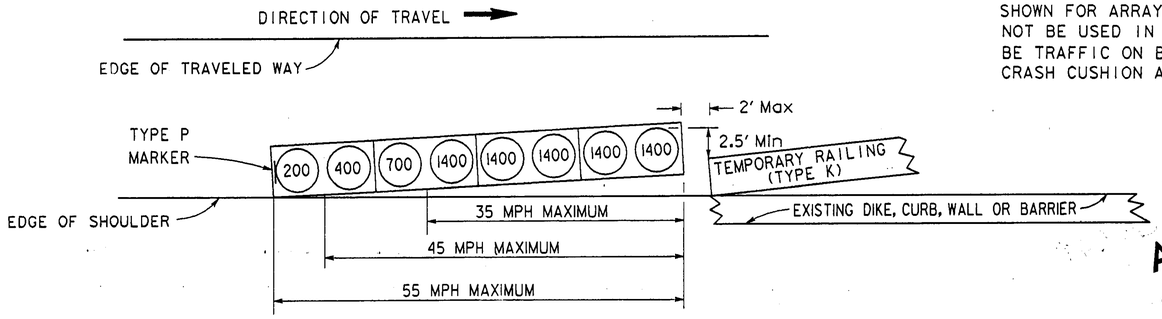
ARRAY 'D'
(APPROACH SPEED 40 MPH OR LESS)



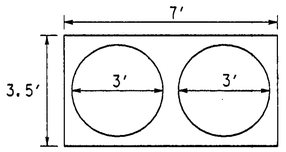
ARRAY 'E'
(APPROACH SPEED 40 MPH OR LESS)
(FOR SPEEDS GREATER THAN 40 MPH USE ARRAY 'C')



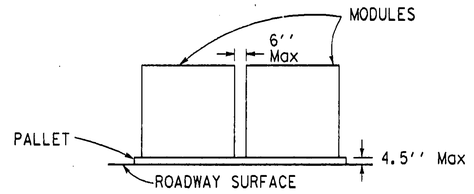
ARRAY 'F'
(APPROACH SPEED GREATER THAN 55 MPH AND RESTRICTED ROADWAY WIDTHS)



ARRAY 'G'
(APPROACH SPEED LESS THAN 55 MPH AND RESTRICTED ROADWAY WIDTHS)



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

NOTES:

1. (XXX) INDICATES MODULE LOCATION AND WEIGHT OF SAND IN EACH MODULE.
2. ALL SAND WEIGHTS ARE NOMINAL.
3. A SINGLE ROW OF MODULES SIMILAR TO THAT SHOWN FOR ARRAY 'F' AND ARRAY 'G' SHALL NOT BE USED IN LOCATIONS WHERE THERE WILL BE TRAFFIC ON BOTH SIDES OF THE TEMPORARY CRASH CUSHION ARRAY.

AS BUILT
CORRECTIONS BY DAVID VALLEJOS
CONTRACT NO. 06-342931
DATE 4-16-93 DNH 6/7/94

DESIGN	BY JOHN FUJIMOTO	CHECKED RUTH FERNANDEZ	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURAL DESIGN 2	BRIDGE NO. 42-140
DETAILS	BY TIM KLOVACH 11/90	CHECKED RUTH FERNANDEZ			POST MILE 26.6
QUANTITIES	BY JOHN FUJIMOTO	CHECKED BOB TANAKA			ASHLAN AVENUE O.C. (WIDEN) TEMPORARY CRASH CUSHION

DS OSD 2139A (4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06
EA 342931

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)											SHEET	OF
10/4/90											29	32

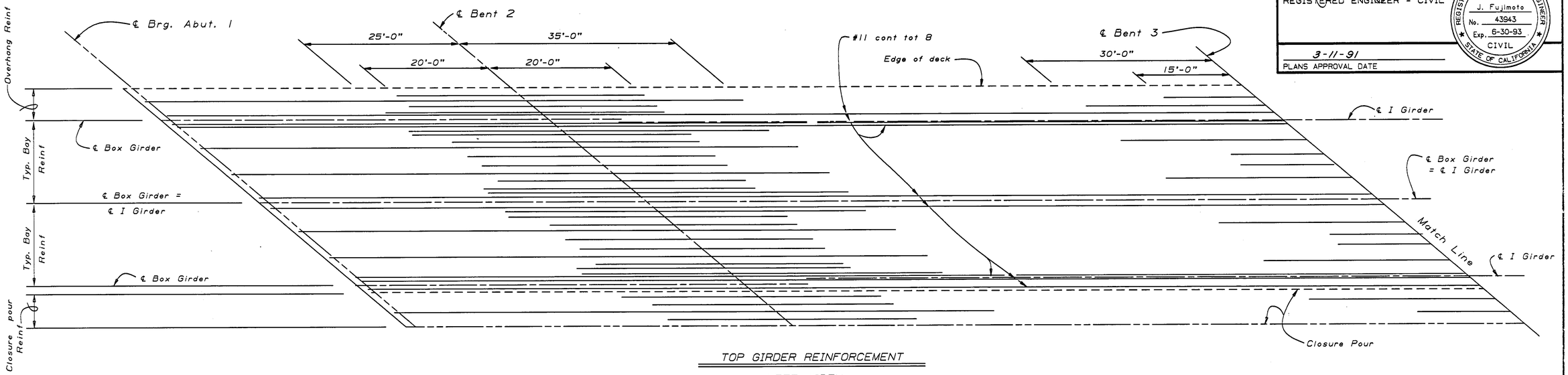
SHEET

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	24.4, 26.6	188	199

John Fujimoto
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER
J. Fujimoto
No. 43943
Exp. 6-30-93
CIVIL
STATE OF CALIFORNIA

3-11-91
PLANS APPROVAL DATE



TOP GIRDER REINFORCEMENT

LEFT WIDEN

No Scale

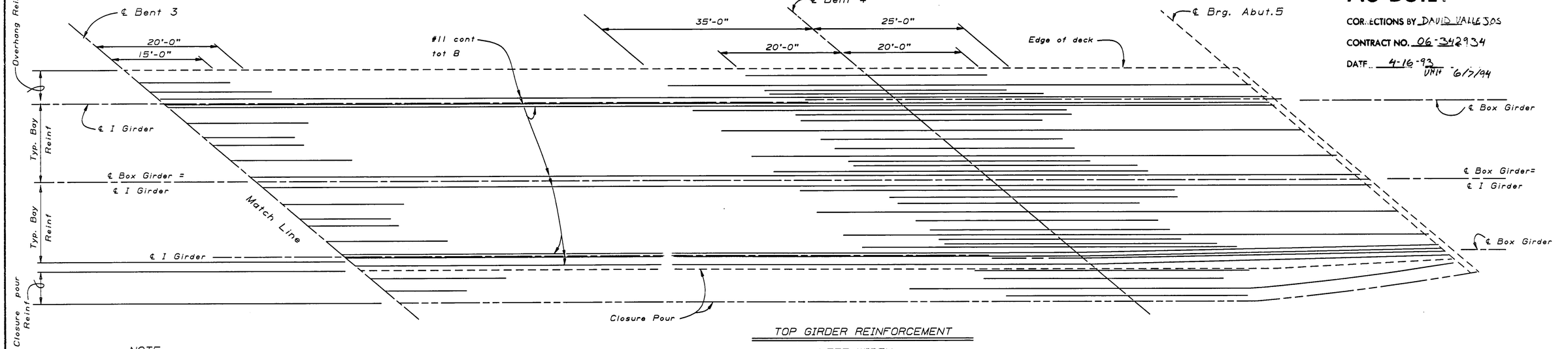
NO AS-BUILT CORRECTIONS

AS BUILT

CORRECTIONS BY DAVID VALLEJOS

CONTRACT NO. 06-342934

DATE 4-16-93 UNIT 6/7/94



TOP GIRDER REINFORCEMENT

LEFT WIDEN

No Scale

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

Note: All Reinf. #11 Bars

For details not shown see "Typical Section" sheet

DESIGN	BY John Fujimoto	CHECKED Ruth Fernandes	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 2	BRIDGE NO. 42-140
DETAILS	BY Jim Klovach 7-90	CHECKED Ruth Fernandes			POST MILE 26.6
QUANTITIES	BY John Fujimoto	CHECKED Bob Tanaka		CU 06 EA 342931	

ASHLAN AVENUE O.C. (WIDEN)

TOP GIRDER REINFORCEMENT-LEFT

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 11-1-90

SHEET 21 OF 32

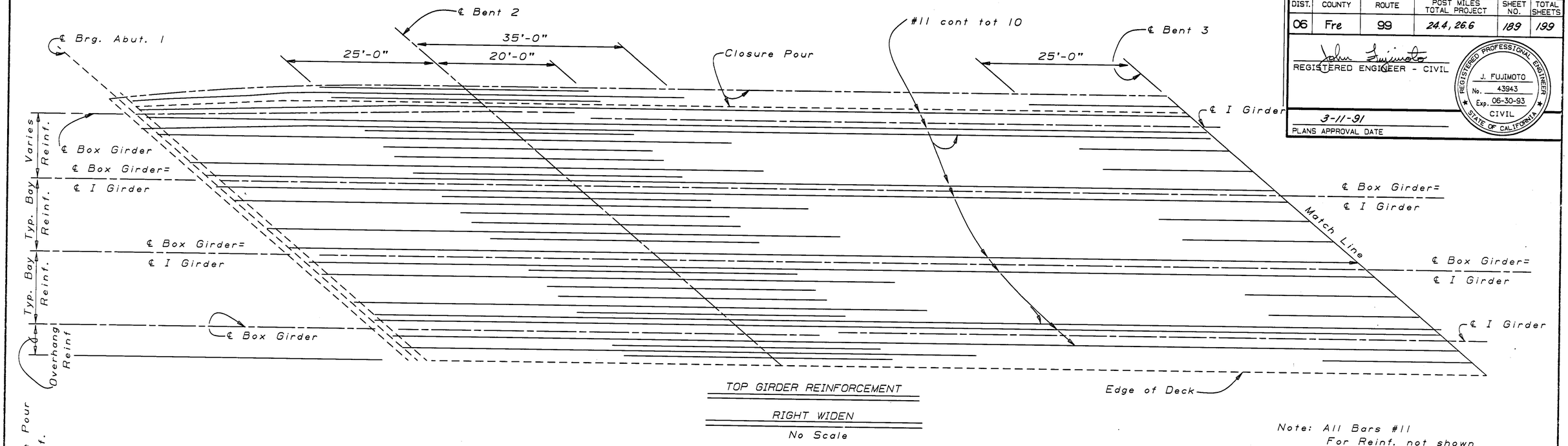
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	24.4, 26.6	189	199

John Fujimoto
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER
J. FUJIMOTO
No. 43943
Exp. 06-30-93
CIVIL
STATE OF CALIFORNIA

3-11-91
PLANS APPROVAL DATE



TOP GIRDER REINFORCEMENT

RIGHT WIDEN

No Scale

Note: All Bars #11
For Reinf. not shown
see "Typical Section" sheet

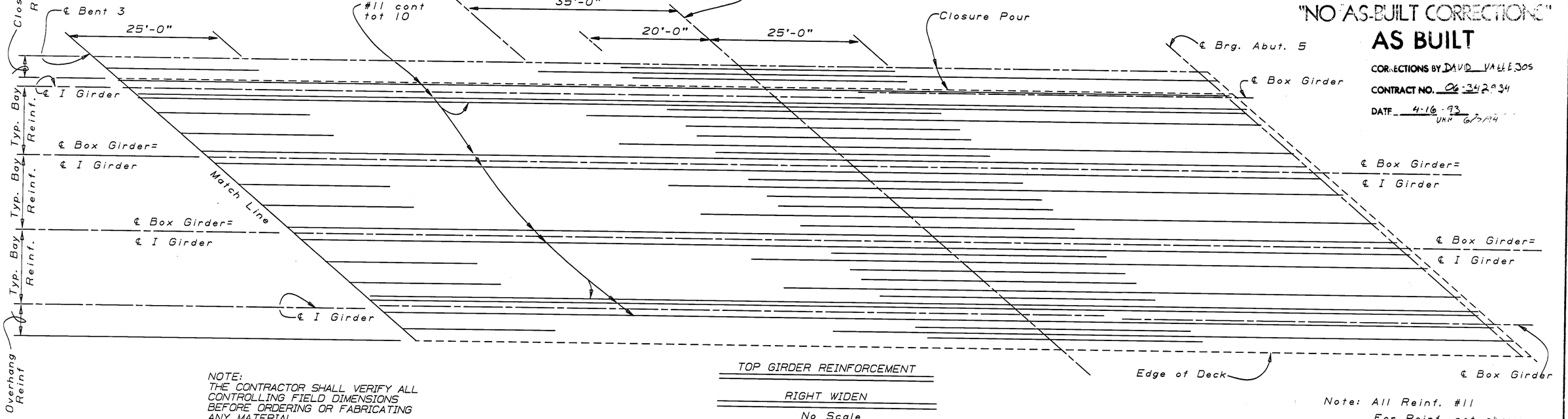
"NO AS-BUILT CORRECTIONS"

AS BUILT

CORRECTIONS BY DAVID VALLEJOS

CONTRACT NO. 06-342934

DATE 4-16-93
VAN 6/7/94



NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

TOP GIRDER REINFORCEMENT

RIGHT WIDEN

No Scale

Note: All Reinf. #11
For Reinf. not shown
see "Typical Section" sht.

DESIGN	BY John Fujimoto	CHECKED Ruth Fernandes	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY Jim Klovach 7-90	CHECKED Ruth Fernandes	DIVISION OF STRUCTURES STRUCTURE DESIGN 2
QUANTITIES	BY John Fujimoto	CHECKED Bob Tanaka	CU 06 EA 342931

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 7-90, 9-90, 10-90, 11-90

BRIDGE NO.	ASHLAN AVENUE O.C. (WIDEN)
42-140	
POST MILE 26.6	TOP GIRDER REINFORCEMENT-RIGHT

SHEET 22 OF 32

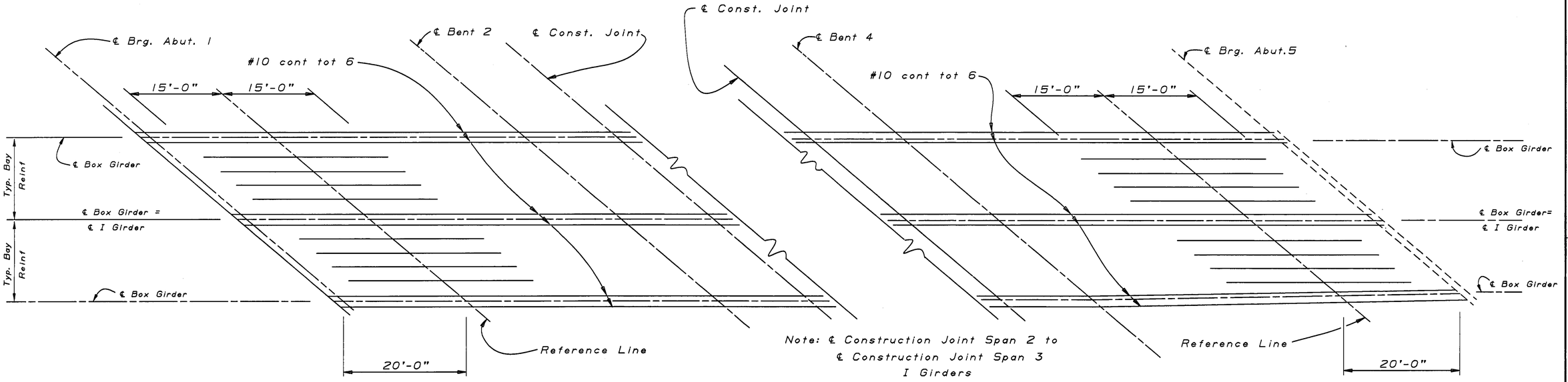
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	24.4, 26.6	190	199

John Fujimoto
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER
J. FUJIMOTO
No. 43943
Exp. 6-30-93
CIVIL
STATE OF CALIFORNIA

3-11-91
PLANS APPROVAL DATE



BOTTOM GIRDER REINFORCEMENT

LEFT WIDEN

No Scale

Note: All bars #10

For details not shown see "Typical Section" sheet

"NO AS-BUILT CORRECTIONS"

AS BUILT

CORRECTIONS BY DAVID VALLEJOS

CONTRACT NO. 06-342934

DATE 4-16-93 UNH 6/7/94

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	BY John Fujimoto	CHECKED Ruth Fernandes	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 2	BRIDGE NO. 42-140	ASHLAN AVENUE O.C. (WIDEN)
DETAILS	BY Jim Klovach 7/90	CHECKED Ruth Fernandes			POST MILE 26.6	BOTTOM GIRDER REINFORCEMENT-LEFT
QUANTITIES	BY John Fujimoto	CHECKED Bob Tanaka		CU 06 EA 342931		

DS 050 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): ~~7-19-90~~ 10-90

SHEET 23 OF 32

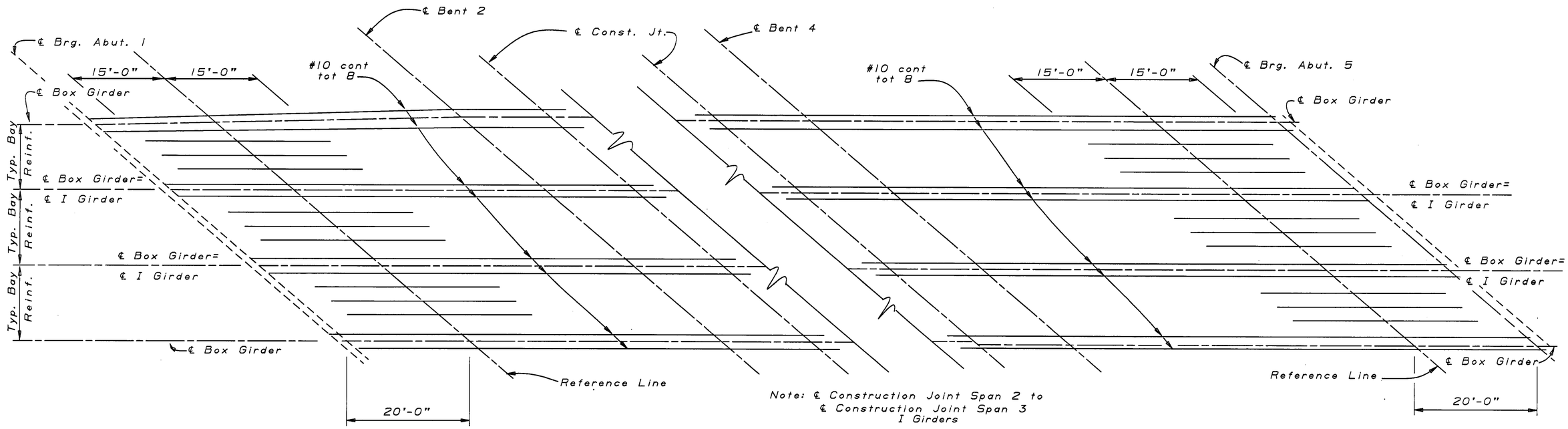
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	24.4, 26.6	191	199

John Fujimoto
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER
J. FUJIMOTO
No. 43943
Exp. 6-30-93
CIVIL
STATE OF CALIFORNIA

3-11-91
PLANS APPROVAL DATE



Note: ℄ Construction Joint Span 2 to ℄ Construction Joint Span 3 I Girders

BOTTOM GIRDER REINFORCEMENT

RIGHT WIDEN

No Scale

Note: All Bars #10
For Reinf. not shown see "Typical Section" sheet

NO AS-BUILT CORRECTIONS

AS BUILT

CORRECTIONS BY DAVID VALLEJOS

CONTRACT NO. 06-342934

DATE 4-16-93 UNH 6/7/94

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	BY John Fujimoto	CHECKED Ruth Fernandes	
DETAILS	BY Jim Klovach 9-90	CHECKED Ruth Fernandes	
QUANTITIES	BY John Fujimoto	CHECKED Bob Tanaka	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 2

BRIDGE NO. 42-140
POST MILE 26.6

ASHLAN AVENUE O.C. (WIDEN)
BOTTOM GIRDER REINFORCEMENT-RIGHT

DS 050 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06
EA 342931

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 11-5-89 9-90 10-90

SHEET 24 OF 32

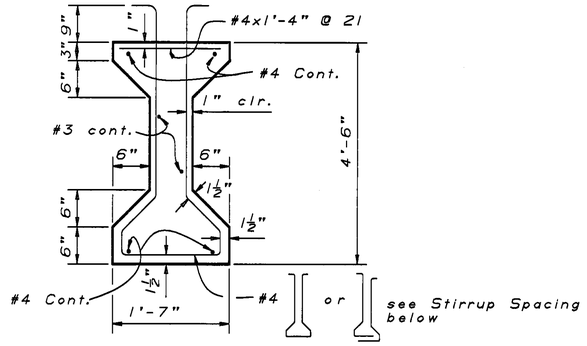
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	24.4, 26.6	192	199

John Fujimoto
REGISTERED ENGINEER - CIVIL

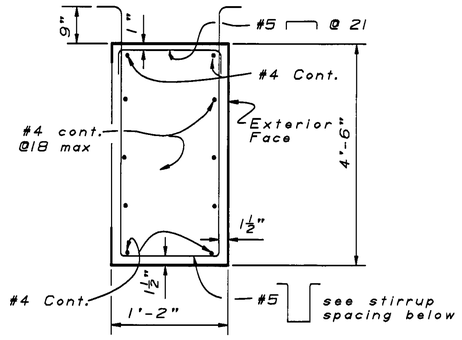
REGISTERED PROFESSIONAL ENGINEER — J. Fujimoto — No. 43943 — Exp. 06-30-93 — CIVIL — STATE OF CALIFORNIA

3-11-91
PLANS APPROVAL DATE



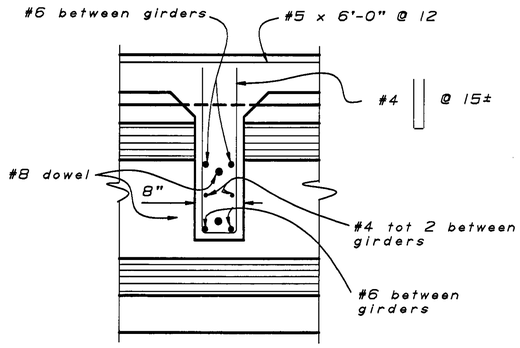
SECTION F-F (Interior Girders)

No Scale



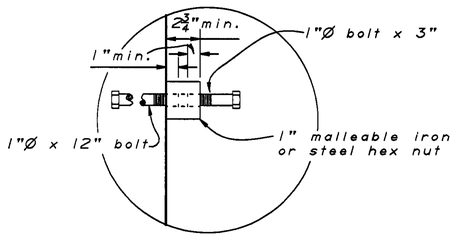
SECTION F-F (Exterior Girders)

No Scale



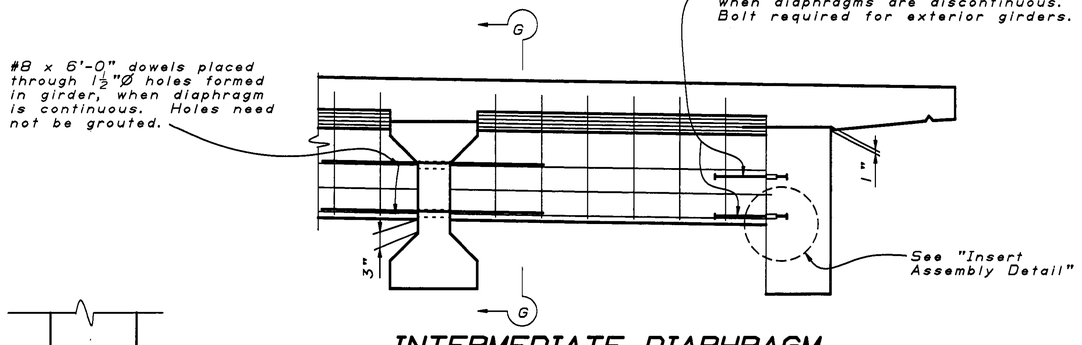
SECTION G-G

1" = 1'-0"



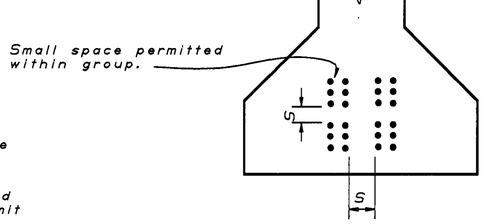
INSERT ASSEMBLY DETAIL

2" = 1'-0"



INTERMEDIATE DIAPHRAGM

¾" = 1'-0"



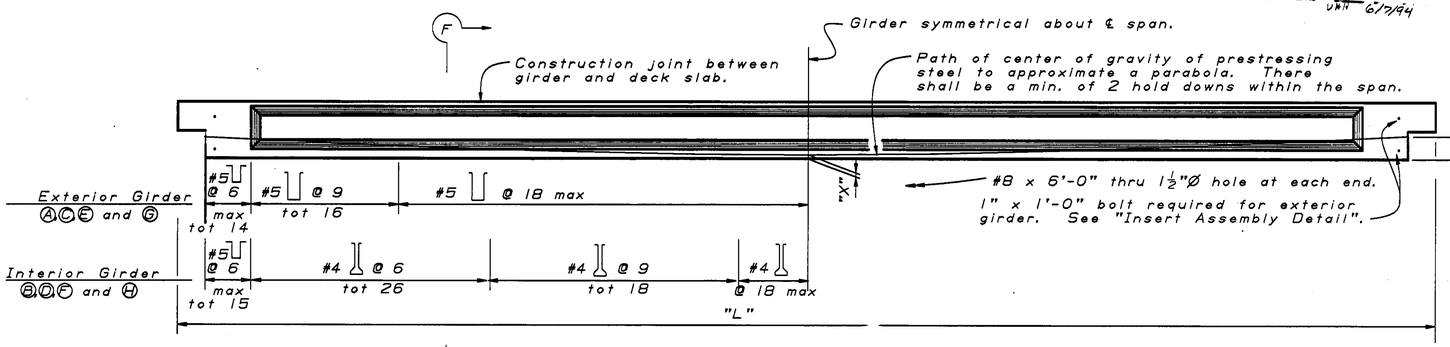
Note:

For Girder Details not shown, see "Girder Details No. 2" sheet.

Details shown are for Pretensioned Girders. The Contractor may submit details for Post tensioning which shall be subject to the approval of the Engineer.

CLEARANCES FOR PRETENSIONED STRANDS

1. Strands may be bundled in groups consisting of 3 vertically and 2 horizontally and separated at the ends.
2. The min. distance "S" between groups or individual strands is 1½" for ½" strands, 1¾" for 7/16" strands and 2" for ½" strands.
3. "S" is measured between centers of adjacent strands.
4. Approval of the Engineer is required for deviation.



ELEVATION

¼" = 1'-0"

Note: Interior Girder shown

PRESTRESSING NOTES

Working Force: The force required at center of span after all losses.

Concrete Strength: f'_{ci} is at time of initial stressing, f'_c is at 28 days, psi.

Camber: Girder camber immediately after the deck and barriers have been placed.

Screed line elevations for deck concrete will be determined by the Engineer.

Contractor may interpolate "P" and "X" values between limits shown, as approved by the Engineer.

"NO AS-BUILT CORRECTIONS"

AS BUILT

CORRECTIONS BY DAVID VALLEJOS

CONTRACT NO. 06-342934

DATE 4-16-93 VBM 6/7/94

DESIGN	BY John Fujimoto	CHECKED Ruth Fernandes	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 2	BRIDGE NO. 42-140
DETAILS	BY Jim Klovach 8/90	CHECKED Ruth Fernandes			POST MILE 26.6
QUANTITIES	BY John Fujimoto	CHECKED Bob Tanaka			

ASHLAN AVENUE O.C. (WIDEN)
PRESTRESSED I GIRDER NO.1

OS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06
EA 342931

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 8-14-90, 8-23-90, 8-31-90, 10-1-90, 10-26-90

SHEET 25 OF 32

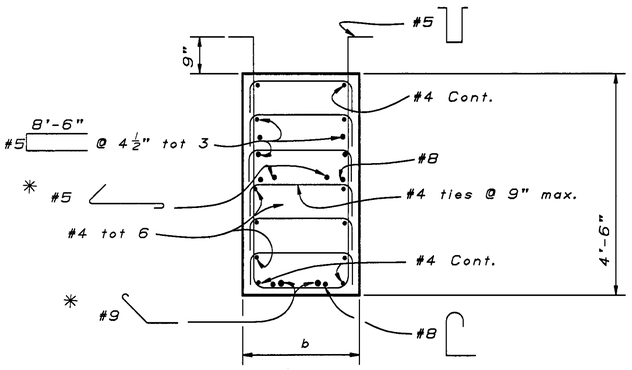
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	24.4, 26.6	193	199

John Fujimoto
REGISTERED ENGINEER - CIVIL

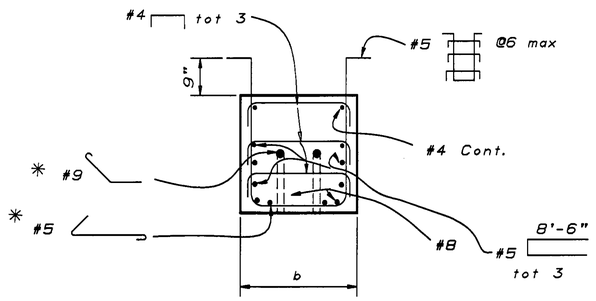
REGISTERED PROFESSIONAL ENGINEER — J. Fujimoto — No. 43943 — Exp. 06-30-93 — CIVIL — STATE OF CALIFORNIA

3-11-91
PLANS APPROVAL DATE



SECTION D-D

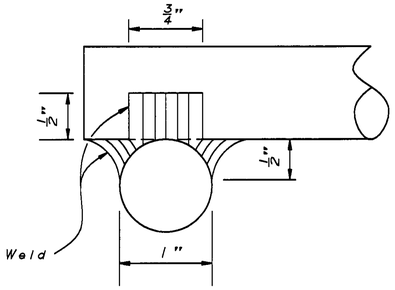
No Scale



✳ see Elevation - Notched End

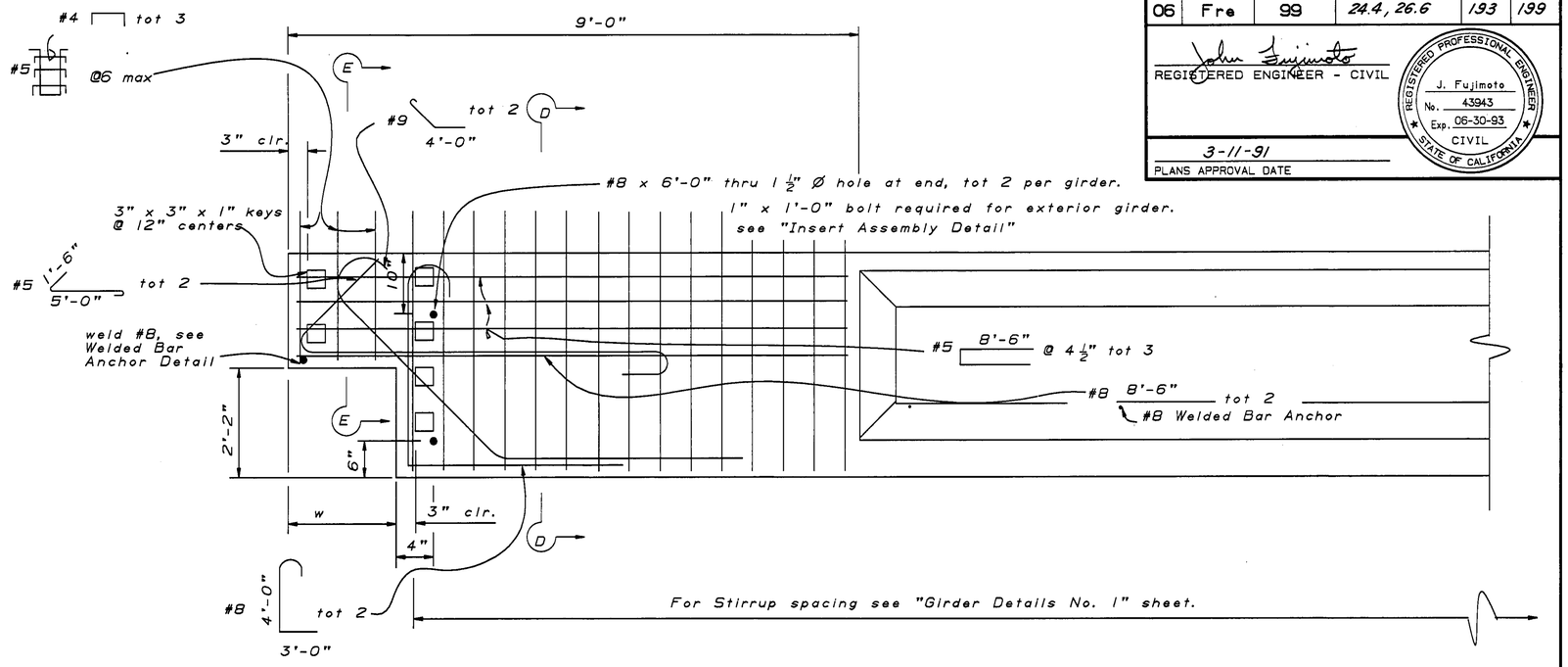
SECTION E-E

No Scale



WELDED BAR ANCHOR DETAIL

No Scale



ELEVATION - NOTCHED END

No Scale

Girder Location and Designation and Length	X=(in)	Xnd	P=Working Force in Kips	Conc. Strength f'ci	Conc. Strength f'c	Camber (ft)
(A) Exterior L=100'-4"	6/4	2'-3"	770/720	4000	4200	0.11
(B) Interior L=99'-9"	6/4	2'-2"	710/670	4000	5400	0.19
(C) Exterior L=104'-1"	6/4	2'-3"	810/770	4000	4500	0.15
(D) Interior L=103'-6"	6/4	2'-2"	760/710	4100	5800	0.22
(E) Exterior L=100'-4"	6/4	2'-3"	700/660	4000	4100	0.11
(F) Interior L=99'-9"	6/4	2'-2"	650/610	4000	5300	0.18
(G) Exterior 104'-1"	6/4	2'-3"	750/700	4000	4400	0.14
(H) Interior L=103'-6"	6/4	2'-2"	680/640	4000	5700	0.22

Note: Girders referred to are located on "Girder Layout" sheets

GIRDER	b	w
EXTERIOR	1'-2"	2'-4½"
INTERIOR	1'-7"	1'-9"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

Note:

For Girder Details not shown, see "Girder Details No. 1" sheet.

Details shown are for Pretensioned Girders. The Contractor may submit details for Post tensioning which shall be subject to the approval of the Engineer.

For Prestressing notes see "Girder Details No. 1" sheet

AS BUILT
CORRECTIONS BY DAVID VALLEJOS
CONTRACT NO. 06-342934
DATE 4-16-93 6/7/94
"NO AS-BUILT CORRECTIONS"

DESIGN	BY John Fujimoto	CHECKED Ruth Fernandes	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 2	BRIDGE NO. 42-140
DETAILS	BY J. Klovach 8/90	CHECKED Ruth Fernandes			POST MILE 26.6
QUANTITIES	BY John Fujimoto	CHECKED Bob Tanaka			

ASHLAN AVENUE O.C. (WIDEN)
PRESTRESSED I GIRDER NO.2

DS 05D 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06
EA 342931

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 8/14/90 | 8/28/90 | 8-31-90 | 10-4-90 | 10-26-90 | 11-26-90

SHEET 26 OF 32

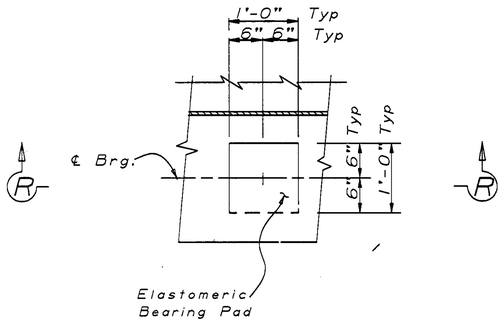
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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	24.4, 26.6	194	199

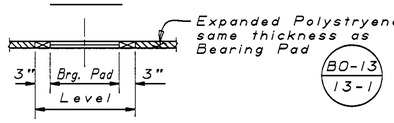
John Fujimoto
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER
J. Fujimoto
No. 43943
Exp. 6-30-93
CIVIL
STATE OF CALIFORNIA

3-11-91
PLANS APPROVAL DATE



PLAN



SECTION R-R

BEARING PAD DETAIL

No Scale

Details typical at all bearing pads

FALSEWORK RELEASE

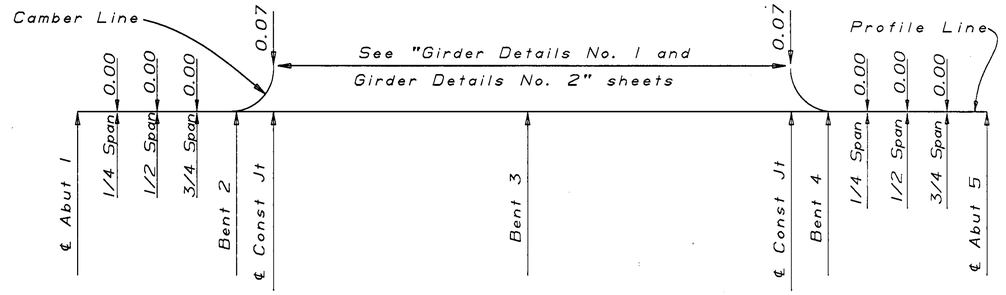
Alternative 1:

Falsework shall be released as soon as permitted by the specifications. Closure pour shall not be placed sooner than 60 days after the falsework has been released.

Alternative 2:

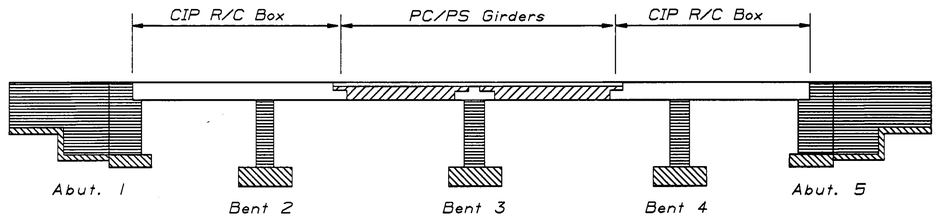
Falsework shall not be released less than 28 days after the last concrete has been placed. Closure pour shall not be placed sooner than 14 days after the falsework has been released.

When Falsework Release Alternative 2 is used, camber values are 0.75 times those shown.



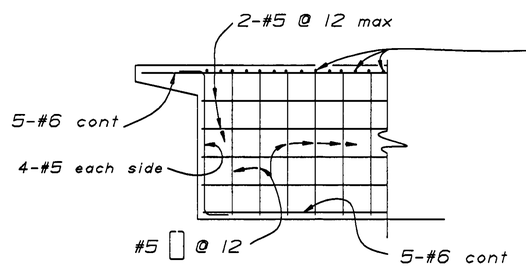
CAMBER DIAGRAM

Does not include allowance for falsework settlement



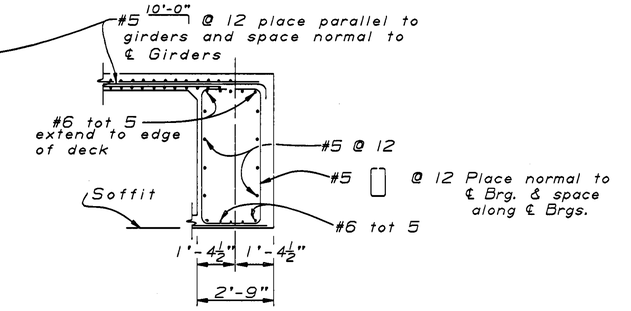
CONCRETE STRENGTH AND TYPE LIMITS

No Scale



PART END DIAPHRAGM

3/8" = 1'-0"



SECTION A-A

3/8" = 1'-0"

NO AS-BUILT CORRECTIONS

AS BUILT

CORRECTIONS BY DAVID VALLEJOS
CONTRACT NO. 06-342931
DATE 4-16-93 VN 11 6/7/94

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	BY John Fujimoto	CHECKED Ruth Fernandes	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 2	BRIDGE NO. 42--140	ASHLAN AVENUE O.C. (WIDEN)	
DETAILS	BY Jim Klovach 8-90	CHECKED Ruth Fernandes			POST MILE 26.6	MISCELLANEOUS GIRDER DETAILS	
QUANTITIES	BY John Fujimoto	CHECKED Bob Tanaka		CU 06 EA 342931			

OS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 11-5-89 | 8-6-90 | 10-1-90 | 10-26-90

SHEET 27 OF 32

ClibPDF - www.fastio.com

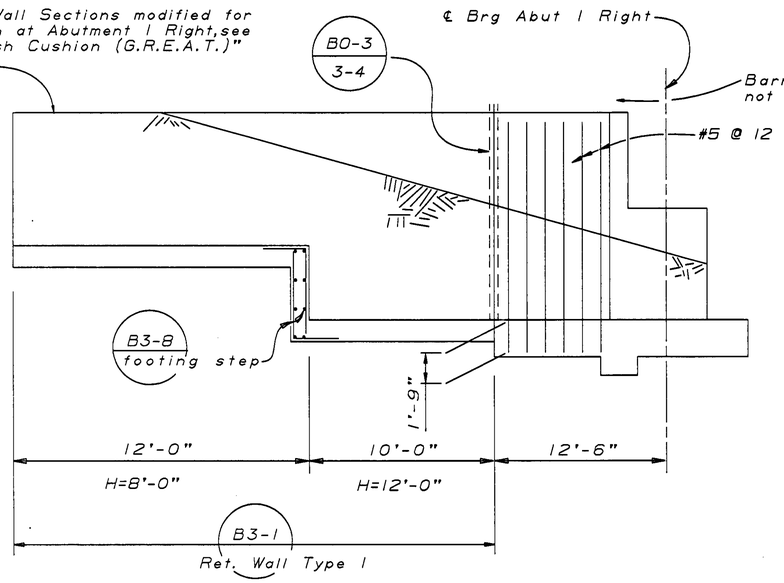
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	24.4, 26.6	178	199

REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — J. Fujimoto — No. 43943 — Exp. 6-30-93 — CIVIL — STATE OF CALIFORNIA

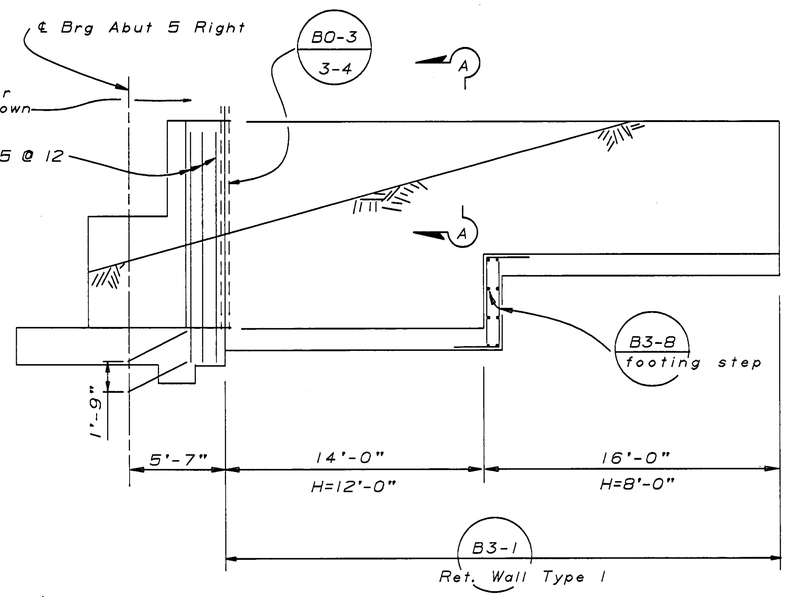
3-11-91
PLANS APPROVAL DATE

For Top of Wall Sections modified for Crash Cushion at Abutment 1 Right, see "Vehicle Crash Cushion (G.R.E.A.T.)" sheet



ABUTMENT 1 RETAINING WALL (RIGHT)

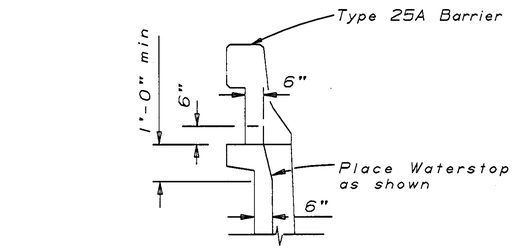
1/4"=1'-0"



ABUTMENT 5 RETAINING WALL (RIGHT)

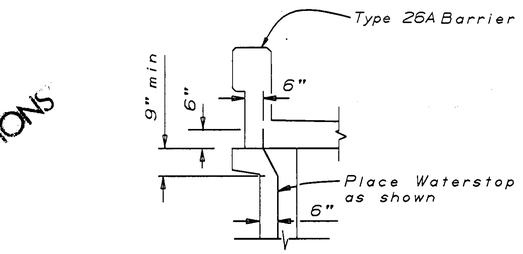
1/4"=1'-0"

Note: Abutments 1 and 5 Right shown Abutments 1 and 5 Left similar.



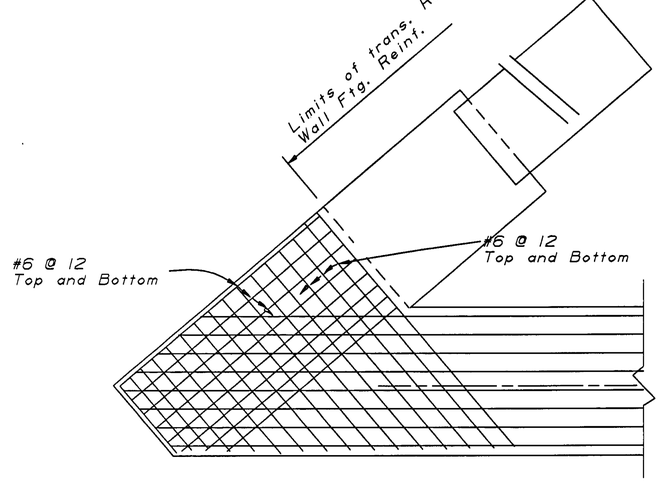
WATERSTOP AT TOP OF WALL

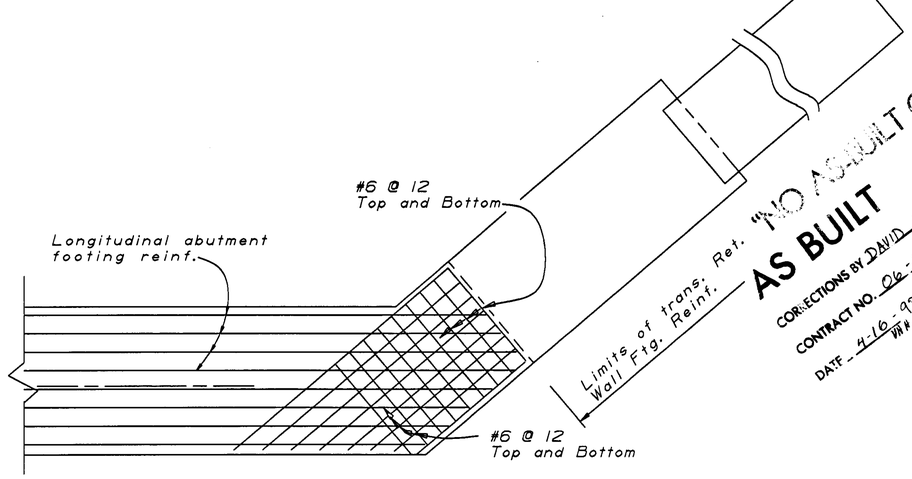
No Scale



WATERSTOP AT TOP OF WALL

No Scale





Abutment Reinforcement

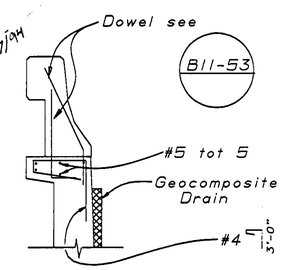
ABUTMENT FOOTING CORNER REINFORCEMENT

1/4"=1'-0"

"NO AS-BUILT CORRECTIONS"

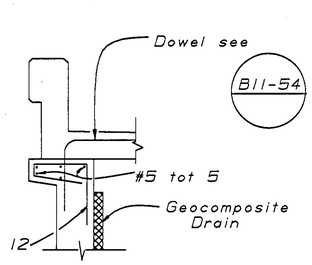
AS BUILT
CORRECTIONS BY DAVID VALLEJOS
CONTRACT NO. 06-342934
DATE 4-16-93 6/7/94

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



SECTION A-A, RIGHT WIDEN TYPE 25A

No Scale



SECTION A-A- LEFT WIDEN TYPE 26 A

No Scale

DESIGN	BY John Fujimoto	CHECKED Ruth	
DETAILS	BY Jim Klovach 9-90	CHECKED Ruth	
QUANTITIES	BY John Fujimoto	CHECKED Bob	

ORIGINAL SCALE IN INCHES — 0 1 2 3

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 2

CU 06
EA342931

BRIDGE NO.	ASHLAN AVENUE O.C. (WIDEN)
42-140	
POST MILE	RETAINING WALL LAYOUT
26.6	

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 3-90 | 10-1-90 | 10-31-90 | 11-27-90

SHEET 11 OF 32

DS OSD 2139 (CADD 4/89)

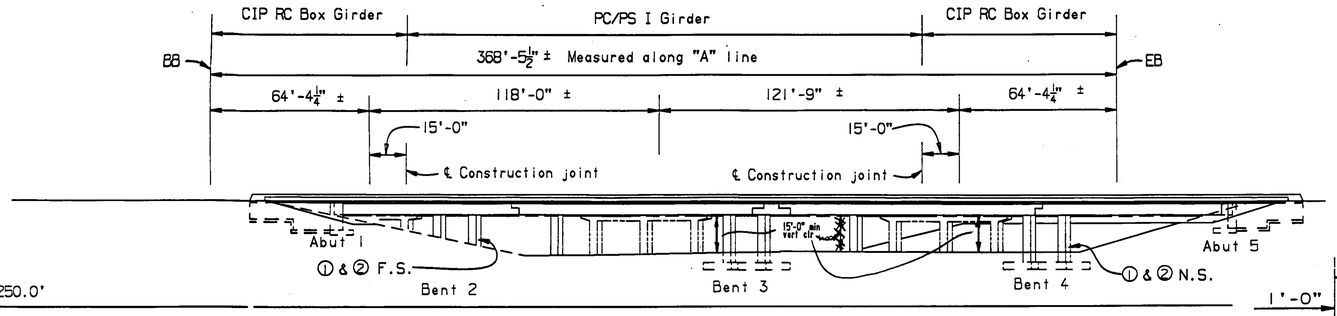
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	99	24.4, 26.6	168	199

John Fujimoto
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — J. Fujimoto — No. 43943 — Exp. 06-30-93 — CIVIL — STATE OF CALIFORNIA

3-11-91
PLANS APPROVAL DATE



Datum Elev.= 1250.0'

ELEVATION

1"=30'

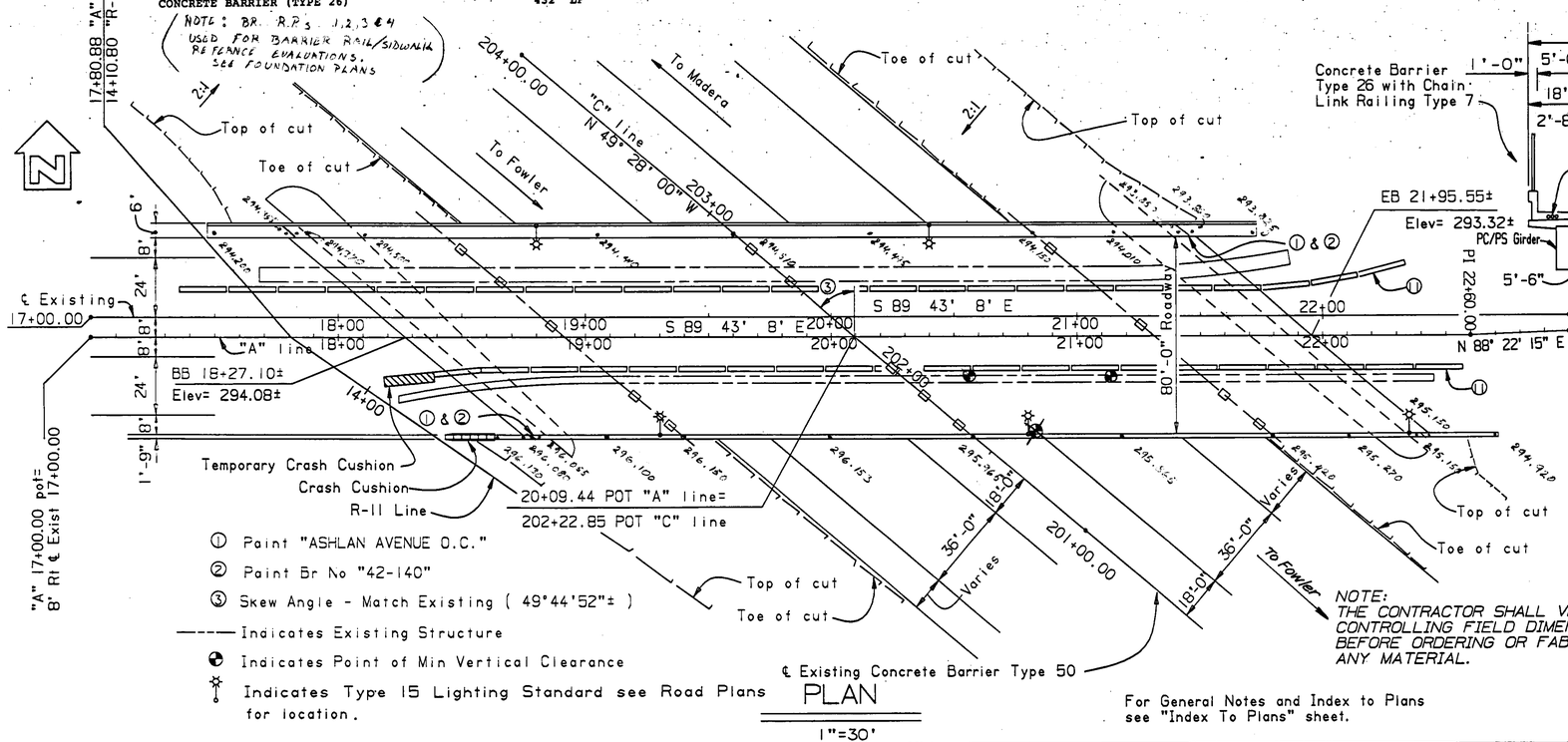
APPROXIMATE QUANTITIES

TEMPORARY RAILING (TYPE K)	1,040	LF
TEMPORARY CRASH CUSHION MODULE	12	EA
BRIDGE REMOVAL (PORTION), LOCATION A	LUMP	SUM
DRILL AND BOND DOWEL	600	LF
FURNISH PRECAST PRESTRESSED CONCRETE GIRDER (90'-100')	5	EA
FURNISH PRECAST PRESTRESSED CONCRETE GIRDER (100'-110')	9	EA
ERECT PRECAST PRESTRESSED CONCRETE GIRDER	14	EA
REFINISH BRIDGE DECK	2,364	SQFT
WATERSTOP	165	LF
JOINT SEAL (TYPE B-MR 1 1/2")	128	LF
DRAINAGE SYSTEM	LUMP	SUM
WATER LINE AND CASING	LUMP	SUM
CRASH CUSHION, FRANGIBLE CARTRIDGE (G.R.E.A.T)	1	EA

FINAL PAY QUANTITIES

STRUCTURE EXCAVATION (BRIDGE)	1,560	CY
STRUCTURE BACKFILL (BRIDGE)	920	CY
STRUCTURAL CONCRETE, BRIDGE FOOTING	289	CY
STRUCTURAL CONCRETE, BRIDGE	1,220	CY
BAR REINFORCING STEEL (BRIDGE)	395,000	LB
CHAIN LINK RAILING (TYPE 7)	435	LF
CONCRETE BARRIER (TYPE 25)	413	LF
CONCRETE BARRIER (TYPE 26)	432	LF

NOTE: BR. R.P.s 1,2,3 & 4 USED FOR BARRIER RAIL/SIDEWALK REFERENCE EVALUATIONS. SEE FOUNDATION PLANS



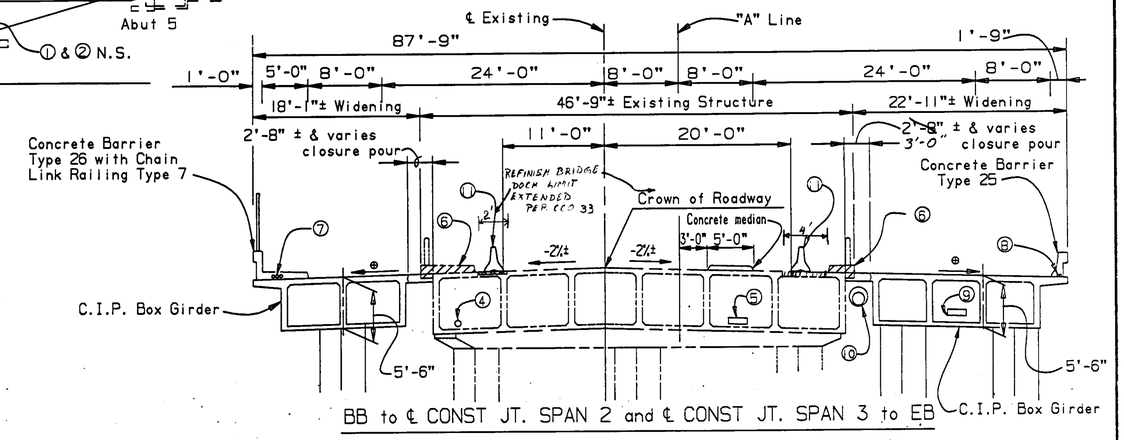
① Paint "ASHLAN AVENUE O.C."
② Paint Br No "42-140"
③ Skew Angle - Match Existing (49°44'52"±)
----- Indicates Existing Structure
◔ Indicates Point of Min Vertical Clearance
Indicates Type 15 Lighting Standard see Road Plans for location.

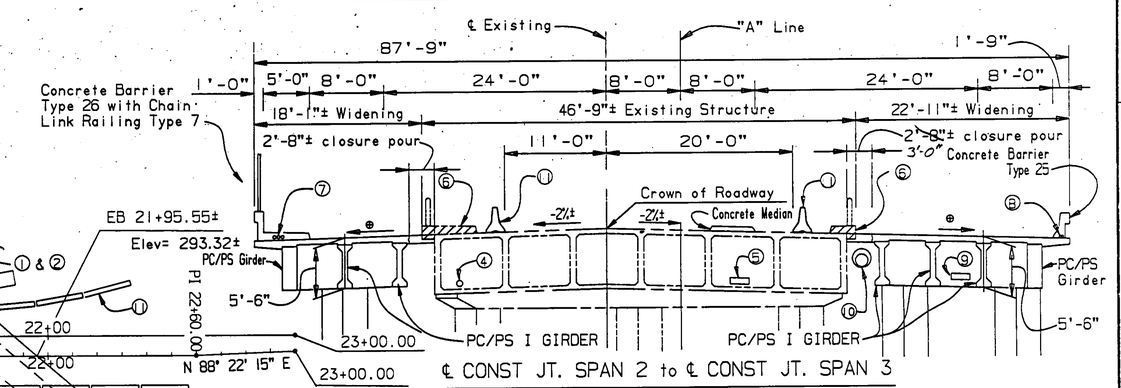
PLAN

1"=30'

For General Notes and Index to Plans see "Index To Plans" sheet.

NOTE: THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.





⊕ Match existing slope

TYPICAL SECTIONS

AS BUILT

⅛"= 1'-0"

CORRECTIONS BY DAVID VALLEJO
CONTRACT NO. 06-342934
DATE 4-16-93
UNH 6/6/94

④ Existing utility opening , 12" gas line.
⑤ Existing utility opening , telephone ducts.
⑥ Remove existing sidewalk, rail and refinish deck.
⑦ 3-1½"Ø Rigid conduit (1 City of Fresno, 2 State of CaLif.)
⑧ 2-1½"Ø Rigid conduit (1 City of Fresno, 1 State of Calif)
⑨ Future Utility Opening
⑩ 16" Water Line in ~~22"~~ 24" casing (City of Fresno Water Division)
⑪ Temporary Railing (Type K) - PER C.C.O #24

DESIGN ENGINEER	DESIGN	BY J. FUJIMOTO	4-90	CHECKED R. FERNANDES	9-90	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD				
	DETAILS	BY A.E.S.	5-90	CHECKED R. FERNANDES	9-90	LAYOUT	BY J. FUJIMOTO	4-90	CHECKED R. FERNANDES	9-90	
	QUANTITIES	BY J.FUJIMOTO	9-90	CHECKED R. TANAKA	9-90	SPECIFICATIONS	BY		PLANS AND SPECS COMPARED		

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 2

CU 06
EA 342931

BRIDGE NO.	ASHLAN AVENUE O.C.(WIDEN)
42-140	GENERAL PLAN
POST MILE 26.6	

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 5-25-90 | 6-1-90 | 8-28-90 | 9-28-90 | 10-5-90 | 10-15-90 | 11-1-90 | 11-27-90

SHEET 1 OF 32

DS OSD 2138 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

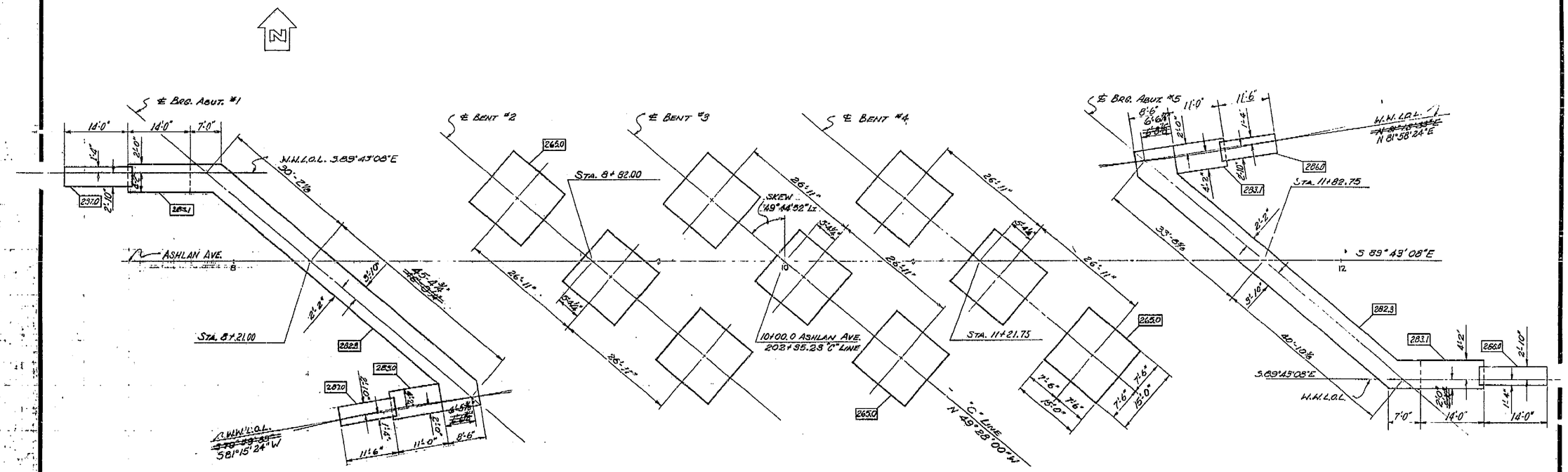
ClibPDF - www.fastio.com

F-0194(4)

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.
7	CALIF.			12

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	41	C	3	12

DATE APPROVED AUGUST 1 1958



PLAN

[00] : Elevation at bottom of footing
Footing Pressure: 3 tons per sq. ft.

AS BUILT PLANS
Contract No. 59-67C10
Date Completed
Document No. 60000997

AS BUILT
Corrections by R.C. Lawrence
Date November 18, 1959
Contract 59-67C10-F

BRIDGE DEPARTMENT
DESIGN SECTION 6
Project Designer W. H. Caldwell
Chief Designer John J. Kozak

DESIGN	W. H. Caldwell 5-57	Checked	J. Bakst 9-57
DETAILS	S. Yamagata 6-57	Checked	J. Bakst 9-57
QUANTITIES	R. Smith 8-57	Checked	J. Yamagata
SPECIFICATIONS		Plans and Notes Compared	
Approved Recommended for		Chief and Materials Bridge Engineer	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ASHLAN AVENUE OVERCROSSING

FOUNDATION PLAN

SCALE 1"=10' | BRIDGE 42-140 | FILE | DRAWING C-5383-3

PRELIM. DRAWING NO. P-5383-42

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

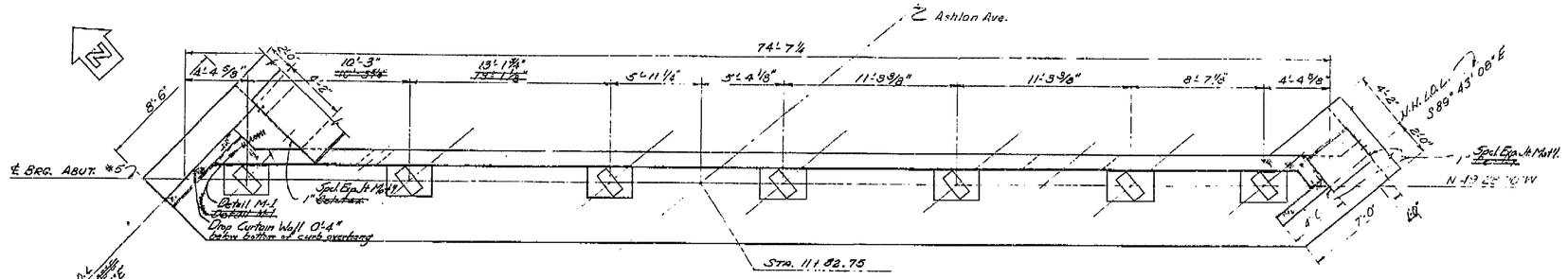
DATE 9/16/71 SIGNATURE [illegible] TITLE AAC II

ClibPDF - www.fastio.com

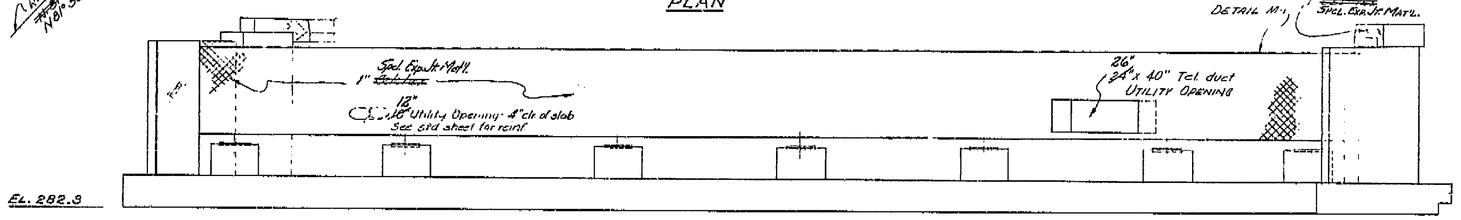
F-0194(4)

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			129	210

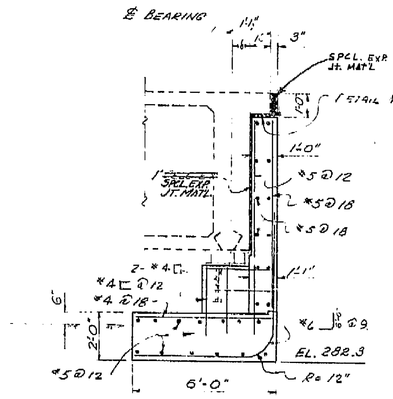
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	41	=C=	4	12



PLAN



ELEVATION

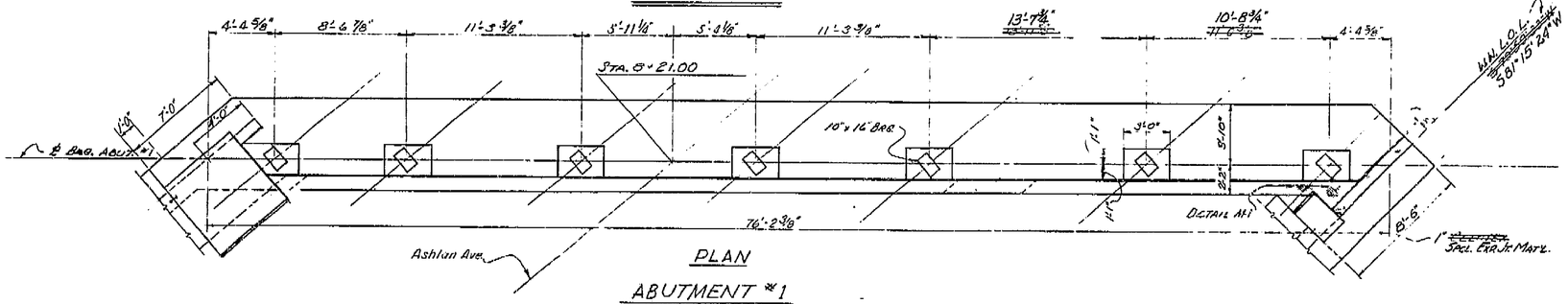


TYPICAL SECTION

SCALE: 3/8"=1'-0"

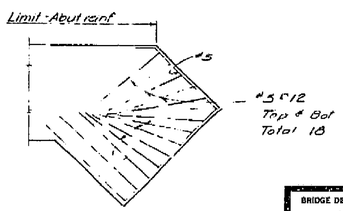
ELEVATION

ABUTMENT #5



PLAN

ABUTMENT #1



FOOTING CORNER REINFORCEMENT

Corners not shown are similar

AS BUILT PLANS
Contract No. 59-67C10
Date Completed
Document No. 60000997

AS BUILT
Corrections by R. C. Schwenkmeyer
WSDOT Date November 18, 1959

Contract 59-67C10-Y

BRIDGE DEPARTMENT			
DESIGN SECTION 6			
Project Designer: Z. H. Cartwright			
Chief Designer: [illegible]			
DESIGN	by Z. H. Cartwright 5-57	Checked	J. Bartlett 9-57
DETAILS	by E. H. Magidow 5-57	Checked	J. Bartlett 9-57
QUANTITIES	by E. Reeve 9-57	Checked	E. H. Magidow
SPECIFICATIONS	by	Plans and Name Checked	
Approved Recommended by: R. W. Hayden		Civil and Structural Engr. License No.	5338

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ASHLAN AVENUE OVERCROSSING

ABUTMENT DETAILS

SCALE	BRIDGE	FILE	DRAWING
1/4"=1'-0" OR AS NOTED	42-140		C5383-4

PREL. DRAWING No. P-5383 sh 14

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 9/16/71 SIGNATURE W. S. Reed TITLE HAC II

518

129

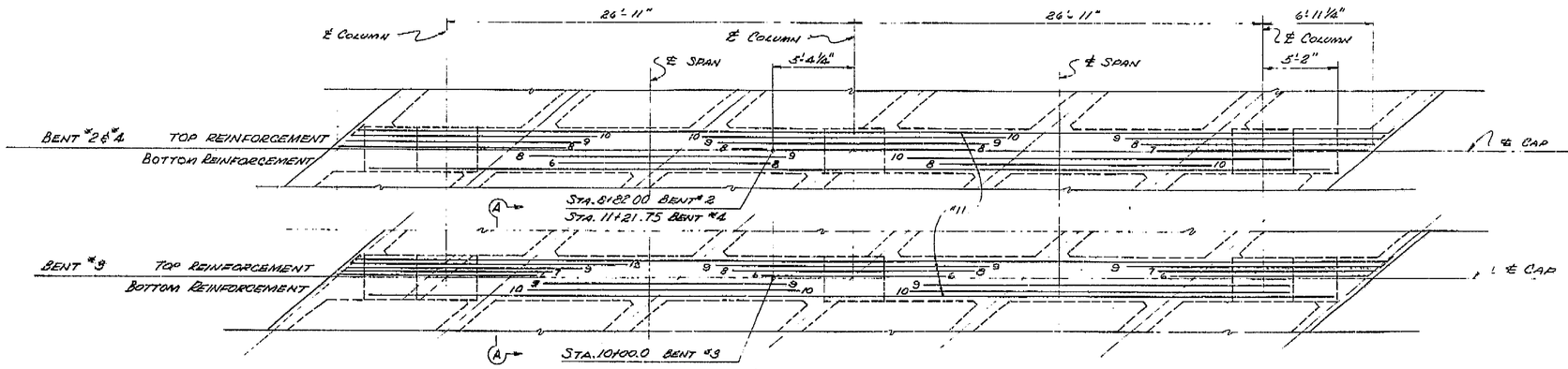
ClibPDF - www.fastio.com

F-0194(4)

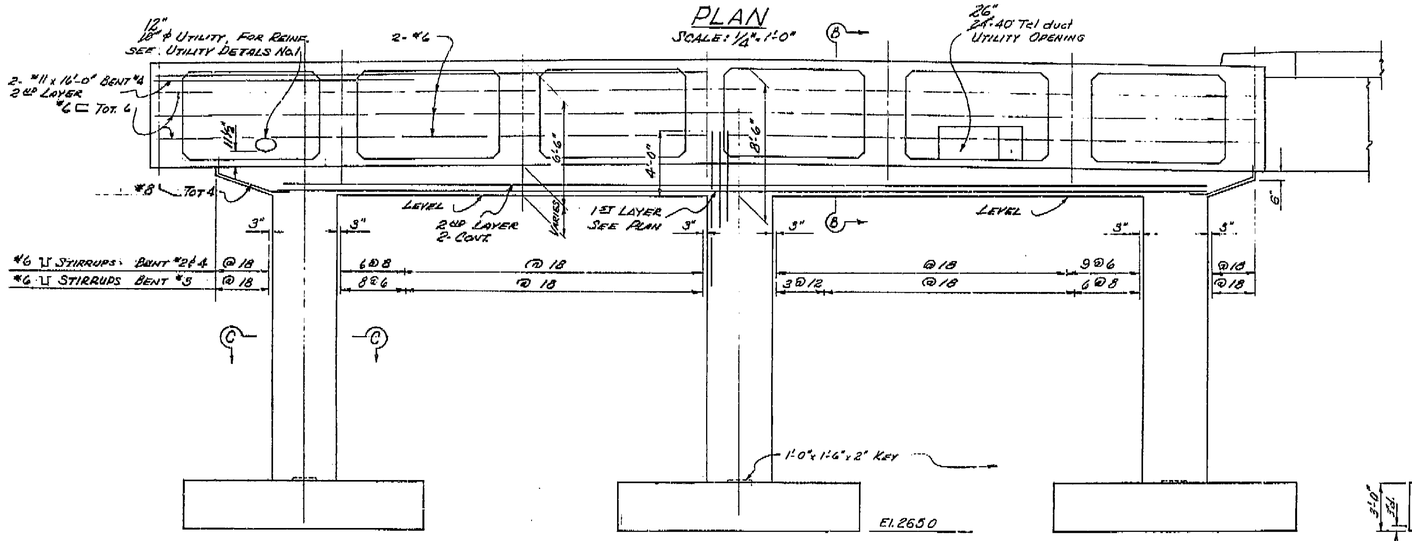
FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			131	210

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	4	B	6	12

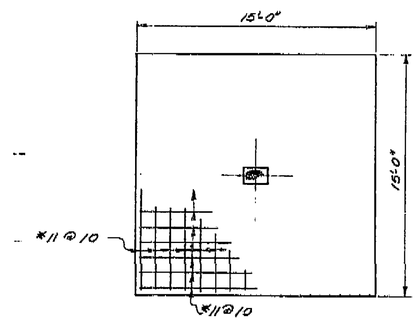
DATE APPROVED AUGUST 1958



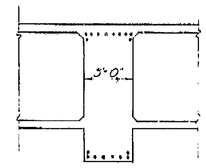
PLAN
SCALE: ½"=1'-0"



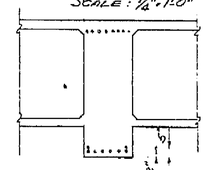
ELEVATION
SCALE: ¼"=1'-0"



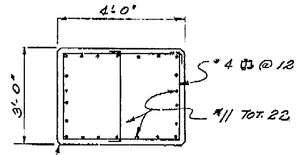
TYPICAL FOOTING
SCALE: ½"=1'-0"



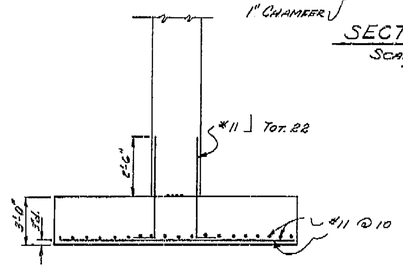
SECTION 'A-A'
SCALE: ½"=1'-0"



SECTION 'B-B'
SCALE: ½"=1'-0"



SECTION 'C-C'
SCALE: ½"=1'-0"



END ELEVATION BENT #3
SCALE: ½"=1'-0"

AS BUILT
Corrections by R.E. Shewalkamp
Date November 18, 1959
Contract 59-67C10-F

Note:
All bars are #11 unless otherwise noted.
Numbers at end of bars indicate distance from ℄ span or ℄ column.

AS BUILT PLANS
Contract No. 59-67C10
Date Completed
Document No. 60000797

BRIDGE DEPARTMENT			
DESIGN SECTION 6			
Project Designer L.H. Caldwell			
Chief Designer J.L. Krogh			
DESIGN	By H. Caldwell 8-57	Checked J. Bialek 9-57	
DETAILS	By S. Yamagida 5-57	Checked J. Bialek 9-57	
QUANTITIES	By R. Deeter 9-57	Checked S. Yamagida	
SPECIFICATIONS	By	Plans and Memo. Prepared	
Approval Recommended by Chief of Design		Chief and Structural Design Engineer	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ASHLAN AVENUE OVERCROSSING

BENT #2, 3, & 4

SCALE As shown	BRIDGE 42-140	FILE	DRAWING C-5383-6

PREL. DRAWING No. P-5383 9

131

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 9/16/21 SIGNATURE [illegible] TITLE HAC II

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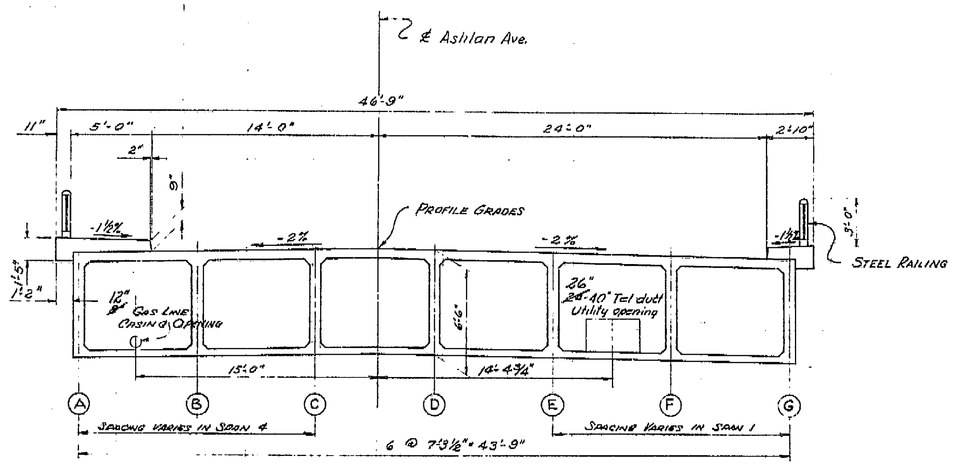
F-0194(4)

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			132	210

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	--	C	7	12

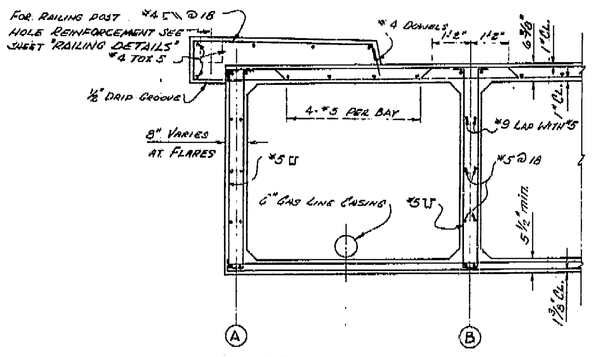
BRIDGE ENGINEER — CIVIL ENGINEER—LICENSE 3589

DATE APPROVED: AUGUST 1 1958

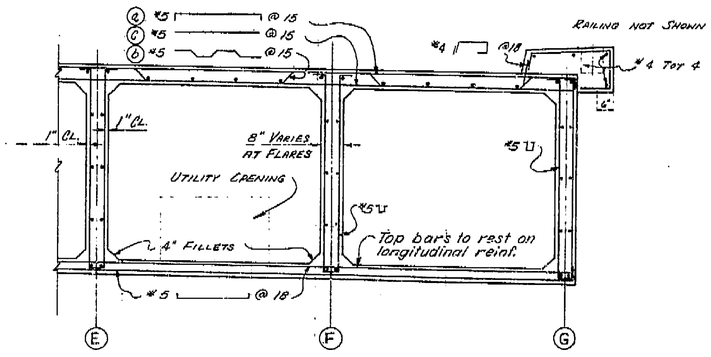


TYPICAL SECTION

SCALE: ½" = 1'-0"



NOTE:
FOR LONGITUDINAL REINFORCEMENT NOT SHOWN, SEE "GIRDER REINFORCEMENT" SHEET.



PART SECTION

SCALE: ½" = 1'-0"

AS BUILT
Corrections by P. Schumacher
Date November 18, 1959

Contract 59-67C10

AS BUILT PLANS
Contract No. 59-67C10
Date Completed
Document No. 60000997

BRIDGE DEPARTMENT
DESIGN SECTION 6
Project Designer Phil Caldwell
Chief Designer John J. Kozak

DESIGN	By Phil Caldwell 5-57	Checked J. Dalat 9-57	
DETAILS	By L. Yamagiwa 5-57	Checked J. Dalat 9-57	
QUANTITIES	By R. Barker 9-57	Checked L. Yamagiwa	
SPECIFICATIONS	By	Plans and Specs Completed	

Approved Recommended by: Chief Bridge Engineer — Chief and Structural Dept. Liaison Engr. — Date

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ASHLAN AVENUE OVERCROSSING

TYPICAL SECTION

SCALE As NOTED	BRIDGE 42-140	FILE	DRAWING C5383-7

PREL. DRAWING NO. P-5383 25

132

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 9/16/21 SIGNATURE [illegible] TITLE HAC II

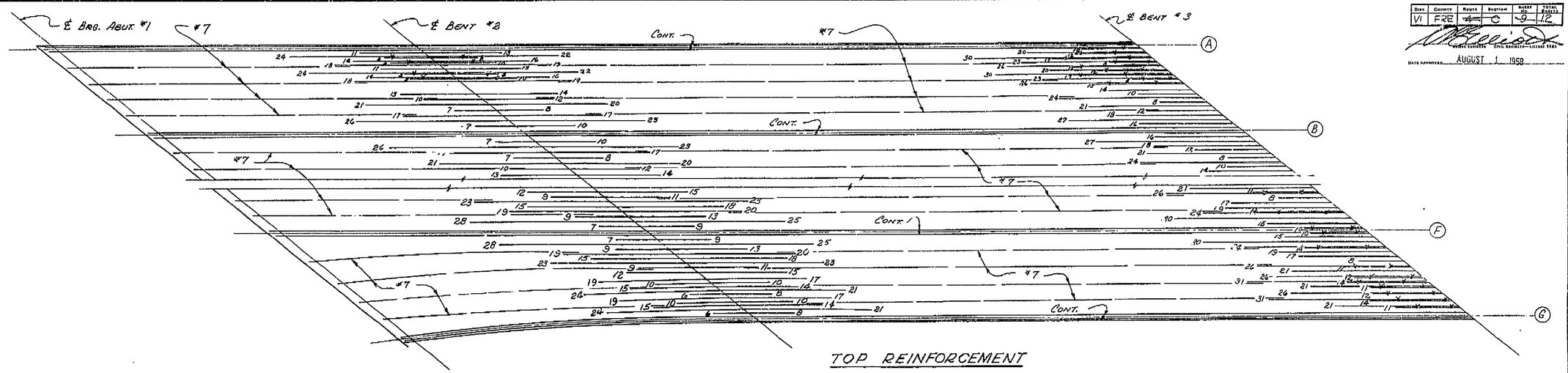
ClibPDF - www.fastio.com

F-0194(4)

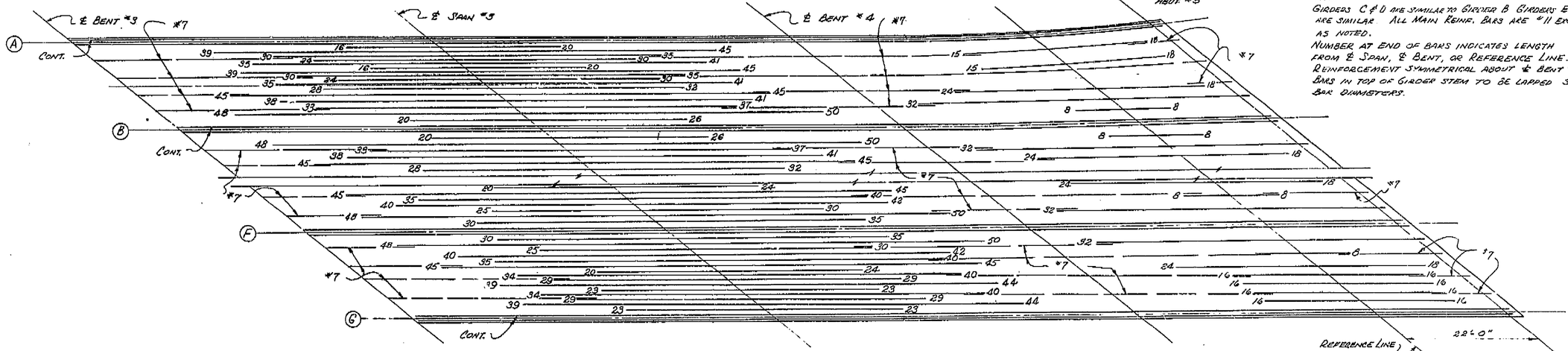
FED. ROAD DIV NO	STATE	PROJ. No.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			134	210

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	41	C	9	12

DATE APPROVED AUGUST 1 1958



TOP REINFORCEMENT



BOTTOM REINFORCEMENT

SCALE: LONGITUDINAL: 1/8" = 1'-0"
TRANSVERSE: 1/4" = 1'-0"

NOTES:
GIRDERS C & D ARE SIMILAR TO GIRDER B. GIRDERS E & F ARE SIMILAR. ALL MAIN REINF. BARS ARE #11 EXCEPT AS NOTED.
NUMBER AT END OF BARS INDICATES LENGTH FROM ℄ SPAN, ℄ BENT, OR REFERENCE LINE.
REINFORCEMENT SYMMETRICAL ABOUT ℄ BENT #3.
BARS IN TOP OF GIRDER STEM TO BE LAPPED 35 BAR DIAMETERS.

Contract 59-67C10-F

AS BUILT
Corrections by R. E. Hawkins
Date November 18, 1959
No Corrections

AS BUILT PLANS
Contract No. 59-67C10
Date Completed
Document No. 60000997

BRIDGE DEPARTMENT
··· DESIGN SECTION ··· 6
Project Designer J. H. Caldwell
Chief Designer John J. Kapel

DESIGN	By J. H. Caldwell 5-57	Checked	J. Berkel 9-57
DETAILS	By S. Yamagata 5-57	Checked	J. Berkel 9-57
QUANTITIES	By R. Beebe 9-57	Checked	S. Yamagata
SPECIFICATIONS	By	Plans and Report Completed	

Approval Recommended by: R. H. Hohmann, Engineer of Design — 1910 and Mitchell Tract Extension No. — 8470 8A5

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ASHLAN AVENUE OVERCROSSING

GIRDER REINFORCMENT

SCALE AS NOTED	BRIDGE 42-140	FILE	DRAWING C-5383-9

PREL. DRAWING No. P-5383 A

PRINTED ON CLEARPRINT 1000 H

134

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 9/16/21 SIGNATURE [illegible] TITLE HAC II

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F-0194(4)

FED. ROAD DIV. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
7	CAL.			135	210

DIST.	COUNTY	ROUTE	SECTION	POST MILE	TOTAL SHEETS
VI	Fre.	41	C	10	12

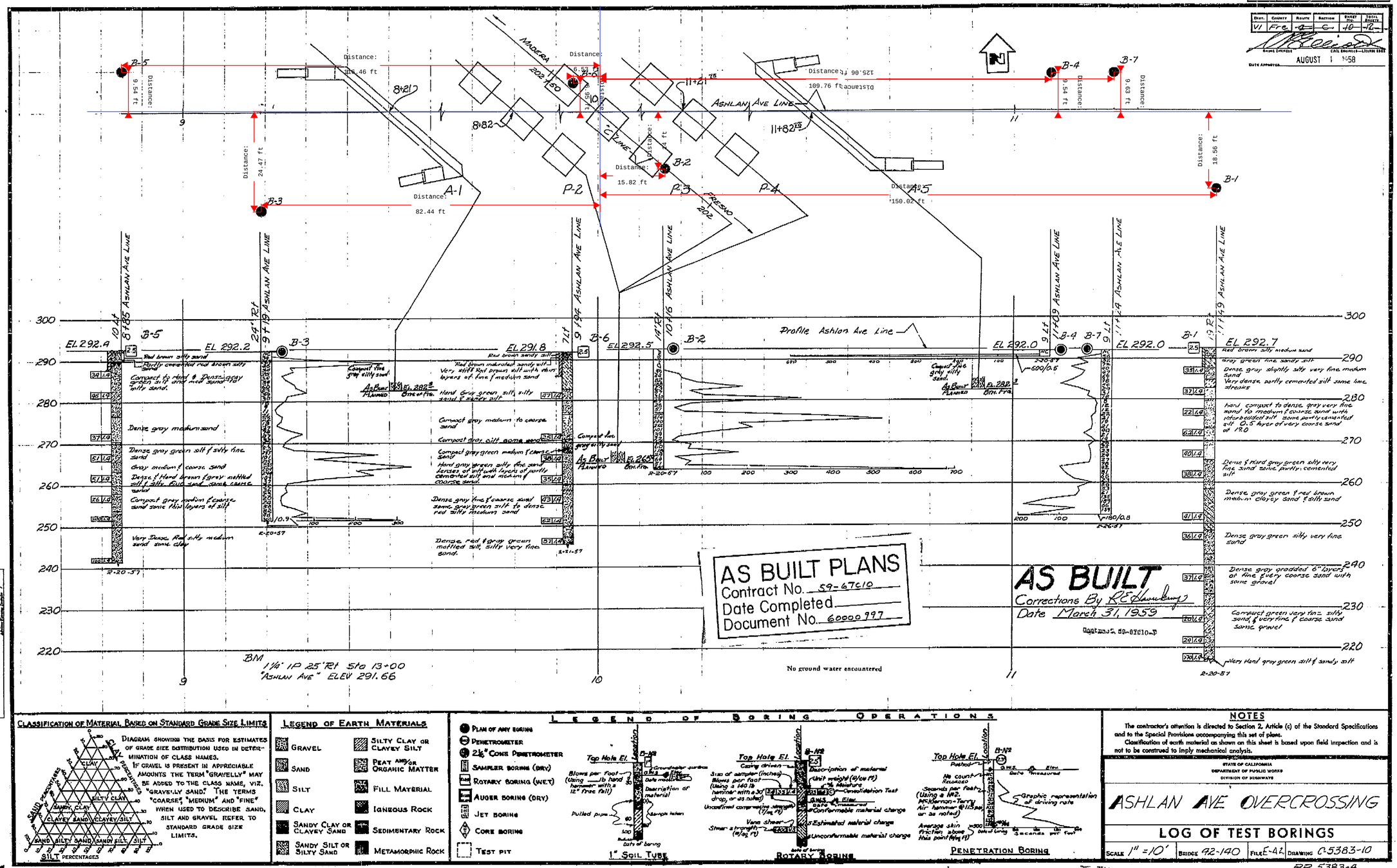
CIVIL ENGINEER — CIVIL ENGINEER

DATE APPROVED AUGUST 1 1958

BRIDGE DEPARTMENT

FIELD STUDY by: L. SKINNER, NELSON & DUBRAVE, 2/20/57
DRAWN by: L. SKINNER, NELSON & DUBRAVE, 2/20/57
CHECKED by: M. HERMES, 3/2/57

Approved: [illegible]



Classification of Material Based on Standard Grade Size Limits

Diagram showing the basis for estimates of grade size distribution used in determination of class names.

If gravel is present in appreciable amounts the term "gravelly" may be added to the class name, viz. "gravelly sand." The terms "coarse," "medium" and "fine" when used to describe sand, silt and gravel refer to standard grade size limits.

Legend of Earth Materials

- Gravel
- Sand
- Silt
- Clay
- Sandy Clay or Clayey Sand
- Sandy Silt or Silty Sand
- Silty Clay or Clayey Silt
- Peat and/or Organic Matter
- Fill Material
- Igneous Rock
- Sedimentary Rock
- Metamorphic Rock

Legend of Boring Operations

- Plan of any boring
- Penetrometer
- 2½" Cone Penetrometer
- Sampler boring (dry)
- Rotary boring (wet)
- Auger boring (dry)
- Jet boring
- Core boring
- Test pit

NOTES

The contractor's attention is directed to Section 2, Article (c) of the Standard Specifications and to the Special Provisions accompanying this set of plans.

Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ASHLAN AVE OVERCROSSING

LOG OF TEST BORINGS

SCALE	BRIDGE	FILE	DRAWING
1" = 10'	42-140	E-42	C-5383-10

PR 5383-4

135

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 9/16/91 SIGNATURE [signature] TITLE HAC II

ClibPDF - www.fastio.com

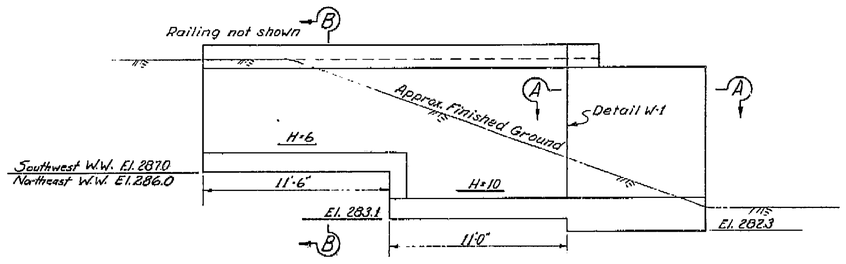
F-0194(4)

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			130	210

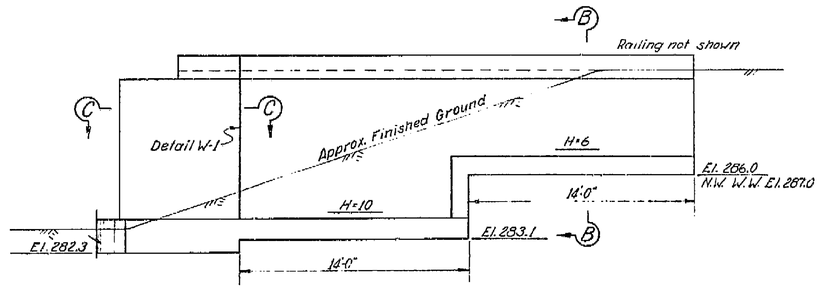
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	4	C	5	12

BRIDGE ENGINEER CIVIL ENGINEER—LICENSE 9885

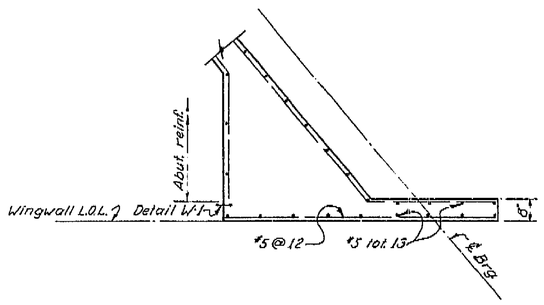
DATE APPROVED AUGUST 1958



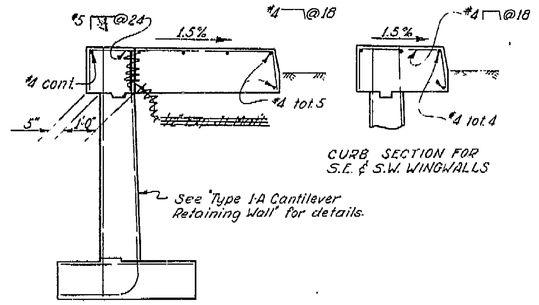
SOUTHWEST WINGWALL
(NORTHEAST WINGWALL SIMILAR)
1/4"=1'-0"



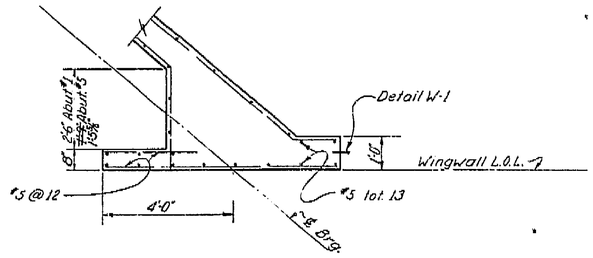
SOUTHEAST WINGWALL
(NORTHWEST WINGWALL SIMILAR)
1/4"=1'-0"



SECTION A-A
1/2"=1'-0"



SECTION B-B
1/2"=1'-0"



SECTION C-C
1/2"=1'-0"

AS BUILT
Corrections by R.C. Hawthorne
Date November 18, 1959

Contract 59-67C10-F

AS BUILT PLANS
Contract No. 59-67C.10
Date Completed
Document No. 60000997

BRIDGE DEPARTMENT
··· DESIGN SECTION ··· 6
Project Designer: W. F. Eberwein
Chief Designer: John J. Segale

DESIGN	By W. F. Eberwein 3-57	Checked Wiedlert 3-57	
DETAILS	By U. R. Linde 3-57	Checked A. Wiedlert 3-57	
QUANTITIES	By K. Crane 3-57	Checked J. Hornyak	
SPECIFICATIONS	By	Plans and Reports Compared	

Approval Recommended by: R. C. Hawthorne, Engineer of Design — Civil and Structural Supervising Engineer No. 5859

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ASHLAN AVENUE OVERCROSSING

WINGWALL DETAILS

SCALE	BRIDGE	FILE	DRAWING
As Shown	42-140		C-5383-5

PREL. DRAWING No. P- 5383 15

130

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 9/16/71 SIGNATURE [illegible] TITLE HAC II

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15

F-0194(4)

FED. AID PROJ. NO.	STATE	PROJ. NO.	FISCAL YEARS	SHEET NO.	TOTAL SHEETS
7	CAL.			137	210

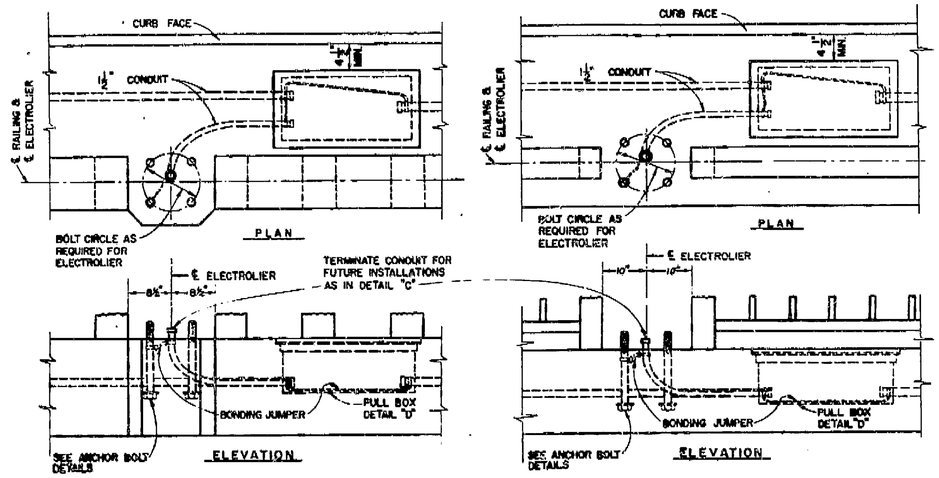
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE		C	72	72

APPROVED 99

PACIFIC ENGINEER
CIVIL ENGINEER LICENSE NO 3429

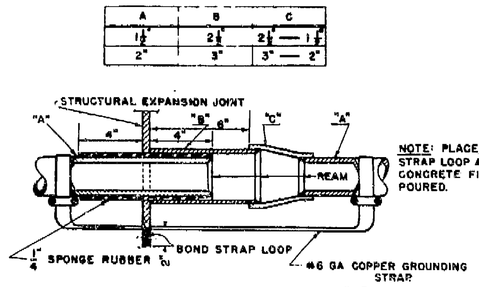
AUGUST 1 1958

BRIDGE DEPARTMENT



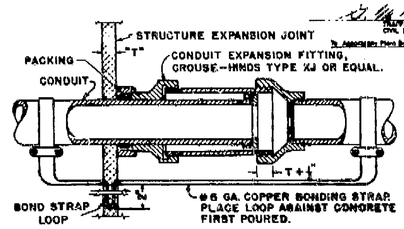
TYPICAL ELECTROLIER BASE - DETAIL "A"
SCALE: 1" = 1'-0"
CONCRETE RAILING STRUCTURE

TYPICAL ELECTROLIER BASE - DETAIL "B"
SCALE: 1" = 1'-0"
STEEL RAILING STRUCTURE

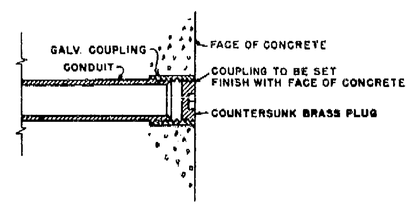


EXPANSION JOINT FITTING - DETAIL "Y"
SCALE 3" = 1'

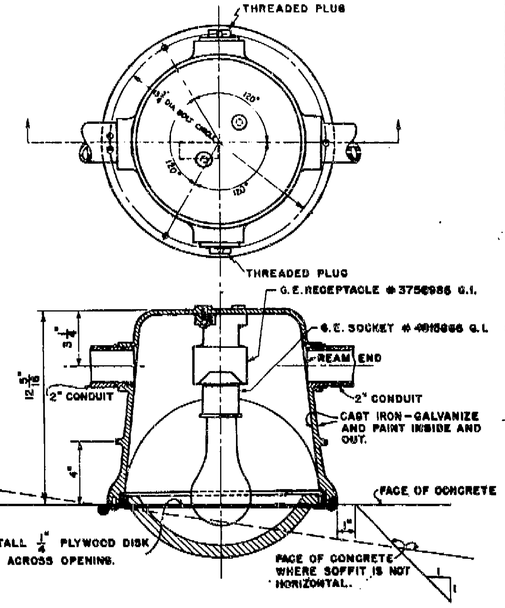
2" CONDUIT SHOWN. CONSTRUCTION SIMILAR FOR OTHER SIZE CONDUIT. GALVANIZE FITTING AFTER FABRICATION



CONDUIT EXPANSION FITTING - DETAIL "X"



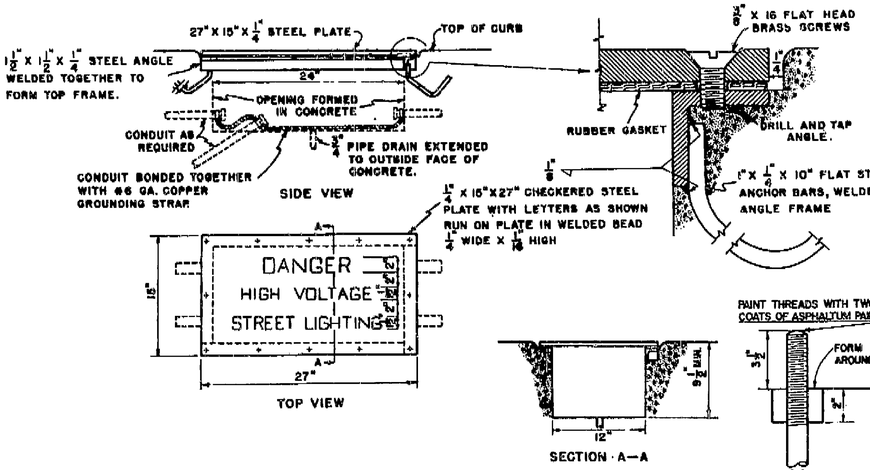
CONDUIT STUB - DETAIL "C"
NOT TO SCALE



RECESS SOFFIT LIGHT - DETAIL "E"
SCALE: 1" = 1"

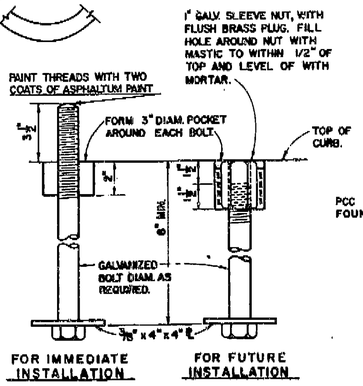
HOLOPHANE #15545 UNLESS OTHERWISE SPECIFIED.
FIXTURE TO BE INSTALLED WITH AXIS VERTICAL AND LIGHT DIRECTED TOWARDS CENTER OF ROADWAY. Contract 59-67C10-F

AS BUILT
Corrections by R. E. Hawkamp
Date November 18, 1959
No Corrections

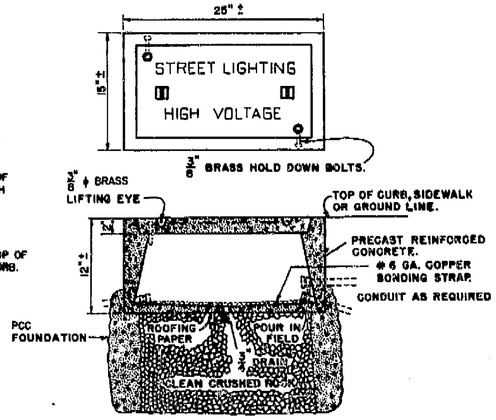


NOTE: FRAME AND COVER TO BE GALVANIZED AFTER FABRICATION.

TYPICAL BRIDGE PULL BOX - DETAIL "D"
SCALE: 1½" = 1'-0"



ANCHOR BOLT ARRANGEMENT
SCALE: 3" = 1'-0"



PULL BOX - DETAIL "B"

PRECAST CONCRETE BOX AND COVER SHALL BE FRAZER CEMENT PRODUCTS CO. CONCRETE PULL BOX OR EQUAL.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ASHLAN AVENUE OVERCROSSING
LOCATED ABOUT 5.1 MILES NORTH OF THE NORTH LIMIT OF THE CITY OF FRESNO, FRESNO COUNTY

STANDARD LIGHTING DETAILS - BRIDGE

SCALE AS NOTED	BRIDGE	FILE	DRAWING C-5383-12

AS BUILT PLANS
Contract No. 59-67C10
Date Completed
Document No. 60000997

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 9/16/91 SIGNATURE [signature] TITLE HAC II

137

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F-0194(4)

FED. ROAD DIV. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET NO.
7	CALIF.			126

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre.	—	—	1	12

P.M. 26.6

AUGUST 1958

G.T. McCoy
STATE HIGHWAY ENGINEER — CIVIL ENGINEER—LICENSE 3362

by Colan E. Lwatta
Deputy State Highway Engineer
Civil Engineer License No. 14511

+0.12 % → 400' V.C. R = 0.16 ← -0.52 %

Sta 8+00 El 294.24

Sta 12+00 El 293.44

PROFILE GRADE

368'-3½"

BB ℄ | 3'-4½" | 61'-0" | 118'-0" | 121'-9" | 61'-0" | 3'-4¼" | ℄ E.B.

℄ Brg. ℄ Brg.

El 287.0 | El 293.1 | El 292.3 | ① & ② For Side | 15'-3" min. Span 1 | 15'-0" min. Span 2 | ① & ② | El 286.0 | El 283.1 | El 282.3

El 265.0 El 265.0 El 265.0

Abut. No. 1 | Bent No. 2 | Bent No. 3 | Bent No. 4 | Abut. No. 5

Datum Elev. = 240.0

8 9 10 11 12

ELEVATION
Scale; 1" = 20'

℄ Ashlan Blvd.

46'-9"

11' | 5'-0" | 14'-0" | 24'-0" | 2'-10"

3'-0" Steel Railing | 2" | -2% | Profile Grade | -2%

North
4" gas line in 8" casing

South
2% 2'-6" x 4'-0" Utility opening

6'-6"

TYPICAL SECTION
Scale; 1" = 10'

* Indicates copper nail in curb

℄ "C" N. 49°28'00" W.

Skew 45°44'52"

To Modero

N. 44°02'00" W. Off Ramp

℄ Top of Cut

℄ Toe of Cut

12'-0", 11°19'33" R.O.T. Ashland E.C. 400'R E-9

2:1 or flatter

℄ Top of Cut

A B C D E F G H I J K L M N O P Q

℄ R=400'

Sta 11+86.10 E.B.

ASHLAN AVE.

S. 89°43'08" E.

Sta 8+17.65 BB

Sta. 202+35.23 "C" Line
Sta. 10+00 Ashlan Ave.

8 9 10 11 12

R=400'

2:1 or flatter

24' E.T. 9° 03'47" R.O.T. Ashland E.C. 400' R E-11

8'-0" min.

℄ Toe of Cut

Off Ramp Gradient Control N. 40°02'00" W.

24'-0"

To Fresno

30'-0"

30'-0" LINE

24'-0"

On Ramp

9% Slope N. 50°49'00" W.

PLAN
Scale, 1" = 20'

APPROXIMATE QUANTITIES

STRUCTURE EXCAVATION	920 C.Y.
STRUCTURE BACKFILL	550 C.Y.
CLASS "A" CONCRETE (BRIDGES)(2,030 C.Y.)	LUMP SUM
RUBBER WATERSTOP	40 L.F.
BAR REINFORCING STEEL (BRIDGES)(435,000 LBS.)	LUMP SUM
MISCELLANEOUS IRON AND STEEL	4,300 LBS.
STEEL RAILING	845 L.F.

TABLE OF FINAL ELEVATIONS

Point	Elevation	Point	Elevation
A	294.52	J	294.57
B	294.70	K	294.46
C	294.71	L	294.32
D	294.75	M	294.20
E	294.79	N	294.01
F	294.80	O	293.79
G	294.74	P	293.64
H	294.65	Q	294.48
I	294.65		

Shots Taken 11/2/59
Falsework Struck 11/21/59

① Bridge No & Date
② Name of Street

L.L. = H20-S16-44

AS BUILT PLANS
Contract No. 59-67C10
Date Completed
Document No. 60000997

AS BUILT
Corrections by R.C. Hawkinson
Date November 18, 1959

Contract 59-67C10-7

INDEX TO PLANS

Sheet No	Title
1	General Plan
2	Site Plan
3	Foundation Plan
4	Abutment Details
5	Wingwall Details
6	Bents 2, 3 & 4
7	Typical Section
8	Girder Layout
9	Girder Reinforcement
10	Log of Test Borings
11	Lighting Plan
12	Standard Lighting Details

Note: For additional lighting information see final plans.

For "General Notes" & "Standard Details" not shown see Princeton Ave to Herndon Bridge Standards.

Note: See Bridge # 42-126 For "S" Sheets

BM. E057 Elev 293.11
Spike PP 25'Lt Sta 205+71 "C"

BM. Elev 291.66
1¼" IP 25'Rt Sta 13+00 "Ashlan Ave"

DESIGN SECTION 6

Project Designer: L.L. Carbaugh
Chief Designer: John J. Lynch

DESIGN	by L.L. Carbaugh 5-57	Checked	J. Lynch 9-57
DETAILS	by C. Kalzakian 2-56	Checked	J. Lynch 9-57
QUANTITIES	by [illegible] -57	Checked	[illegible]
SPECIFICATIONS	by [illegible] 9-57	Plans and Estimate Checked	[illegible]

Approval Recommended by: [illegible] Engineer of Design — Civil and Structural Engr. License No. 9348

59-6TC10

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ASHLAN AVENUE OVERCROSSING

LOCATED ABOUT 5.1 MILES NORTH OF THE NORTH LIMIT OF THE CITY OF FRESNO, FRESNO COUNTY

GENERAL PLAN

SCALE AS NOTED | BRIDGE 42-140 | FILE | DRAWING C-5383-1

PREL. DRAWING No. P- 63-82

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 11/16/71 SIGNATURE [illegible] TITLE MAC II

126

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SCALE 1" = 120' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM SCALE 1" = 20' 200 300

F-0194(4)

FED. ROAD DIV. NO.	STATE	FISCAL NO.	PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.			136	210

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre.	41	C	11	12

DISTRICT ENGINEER
AUGUST 4 1958

Traffic Engineer
Civil Engineer License No. 5429

PROFILE GRADE

+0.12 % → 400' V.C. → -0.52 %

Sta. 8+90 El. 294.24

Sta. 12+90 El. 295.44

B.B. 366'-5½" E.B.

2'-0" | 81'-0" | 118'-0" | 121'-9" | 61'-0" | 2'-0"

℄ Brg. ℄ Brg.

El. 283.5 — ① & ② For Side — 15'-0" min. — El. 283.5

El. 264.0 El. 263.0 El. 264.0

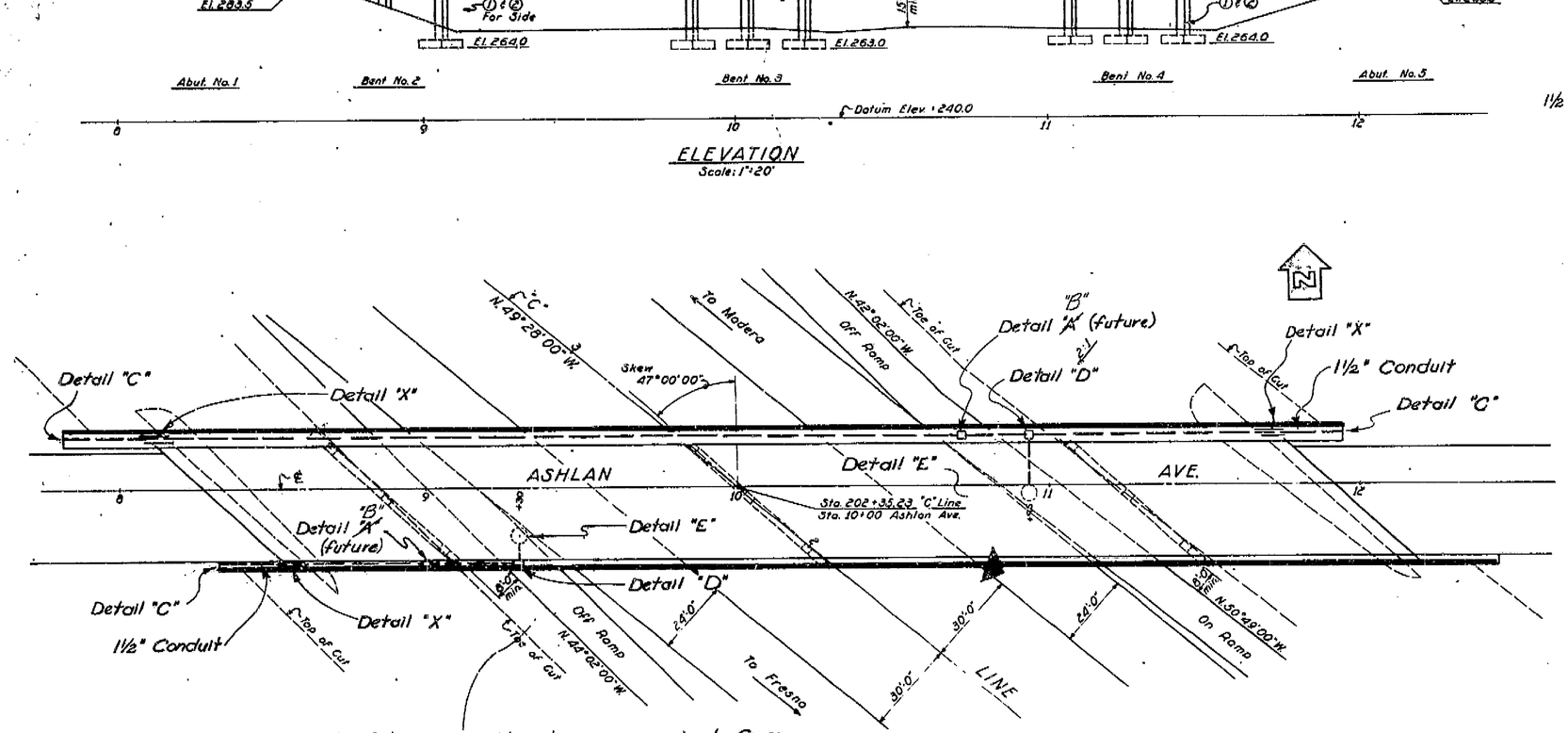
Abut. No. 1 | Bent No. 2 | Bent No. 3 | Bent No. 4 | Abut. No. 5

℄ Datum Elev. = 240.0

8 9 10 11 12

ELEVATION

Scale: 1" = 20'



PLAN

Scale 1" = 20'

℄ Ashlan Blvd.

46'-9"

11' | 5'-0" | 14'-0" | 24'-0" | 2'-10"

3'-0" Steel Railing — 2% — Profile Grade — 2%

1½" Conduit North — South

Detail "E"

TYPICAL SECTION

Scale 1" = 10'

INDEX TO PLANS

Sheet No.	Title
1	General Plan

Note: Wrap Detail "X" at wingwall joint with ½" sponge rubber for 1' ± on each side of expansion joint.

Use 1½" conduit throughout.

AS BUILT
Corrections by R. E. Hewetson
Date November 18, 1959

Note: This plan accurate for highway lighting only.

AS BUILT PLANS
Contract No. 59-67C10
Date Completed
Document No. 60000997

L.L. - H20-S16-44

BRIDGE DEPARTMENT
*** DESIGN SECTION *** 6
Project Designer F.H. Caldwell
Chief Designer John I. Kozel

DESIGN	F.H. Caldwell 5-57	Checked	J. Berlet 9-57
DETAILS	E. Katzakian 7-57	Checked	J. Berlet 9-57
QUANTITIES	K. Berlo 9-57	Checked	J. Yparraguirre
SPECIFICATIONS		Checked and Recommended	
Approved Recommended by		Chief of Bridge Design	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ASHLAN AVENUE OVERCROSSING

LOCATED ABOUT 5.1 MILES NORTH OF THE NORTH LIMIT OF THE CITY OF FRESNO, FRESNO COUNTY

LIGHTING PLAN

SCALE	BRIDGE	FILE	DRAWING
AS NOTED	42-140		C-5383-11

FINEL. DRAWING NO. P. 5383

136

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL OF THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 9/16/71 SIGNATURE [illegible] TITLE AAC II

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F-0194(4)

FED. ROAD DIV. NO.	STATE	PROJ. No.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			133	210

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
11	FRE	41	D	8	12

DATE APPROVED AUGUST 1 1956

℄ Bearing Abut #1 — 61'-0" — ℄ Bent #2 — 118'-0" — ℄ Bent #3

#5 @ 6

℄ 4" gas line — Sidewalk — Outside Face of Girder

15'-0" — ℄ Construction — 14'-4 3/8"

Top Slab Reinforcement

Ⓐ #5 @ 15" — Ⓓ #5 @ 15" — 3'-0"

6'-0" Flare — 12'-0" Flare — 30'-0" Flare — 30'-0" Flare

Detail V-1 — Detail D-1

℄ Utility Opening For Tel ducts

15" Top Slab — 15" Top Slab

R=398.67 — R=397.17 — Curb — Outside Face of Girder — Curb

121'-9" — 90°-02'-57" — SPAN 1 ℄ 2 — 61'-0" — ℄ Span

℄ Bent #3 — Sidewalk — Outside Face of Girder — ℄ Bent #4 — Sidewalk — 1 HK 75 — R=392.08 — R=393.58 — ℄ Bearing Abut #5

15'-0" — ℄ 4" gas line — ℄ Construction — 14'-4 3/8"

Top Slab — Bottom Reinforcement — #5 @ 15" — 3'-0"

30'-0" Flare — 30'-0" Flare — Detail D-1 — Detail V-1

14'-0" Flare — 6'-0" Flare — ℄ Utility Opening For Tel ducts

Outside Face of Girder — Curb — ℄ Span

℄ Brg. Abut #1 — ℄ Bent #2 — 2-#9 x 36'-0" — ℄ Bent #3 — ℄ Bent #4 — ℄ Brg. Abut #5

Girders A,B,C,F,G @ 24" — Girders E & F @ 24"

SPAN 1 ℄ 2 — SPAN 3 ℄ 4

℄ Bent #3 — 2-#9 x 40'-0" — 2-#9 x 36'-0" — ℄ Bent #4

All Girders — See Span 2 — See Span 1

SPAN 3 ℄ 4

LONGITUDINAL SECTION

Scale: 3/32" = 1'-0"

PLAN

Scale: 1/8" = 1'-0"

END DIAPHRAGM

Scale: 3/4" = 1'-0"

ULTIMATE DL. DEFLECTION

Bent 2 — Bent 3 — Bent 4

AS BUILT PLANS
Contract No. 59-67C10
Date Completed
Document No. 60000797

AS BUILT
Corrections by R.C. Hawkins
Date November 18, 1959

Contract 59-67C10

BRIDGE DEPARTMENT — DESIGN SECTION 6

Project Designer F.H. Caldwell
Chief Designer John J. Vogel

DESIGN	By F.H. Caldwell 5-57	Checked J. Barlett 9-57	
DETAILS	By E. Yamagata 8-57	Checked J. Barlett 9-57	
QUANTITIES	By R. Barlee 9-57	Checked E. Yamagata	
SPECIFICATIONS	By	Plans and Sheet Completed	

Approval Recommended by — Chief and Structural Engr. Division No. — Engineer of Design

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ASHLAN AVENUE OVERCROSSING

GIRDER LAYOUT

SCALE As Noted | BRIDGE 42-140 | FILE | DRAWING C5383-8

PREL. DRAWING No. P- 5383

133

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 9/16/71 SIGNATURE [illegible] TITLE HAC II

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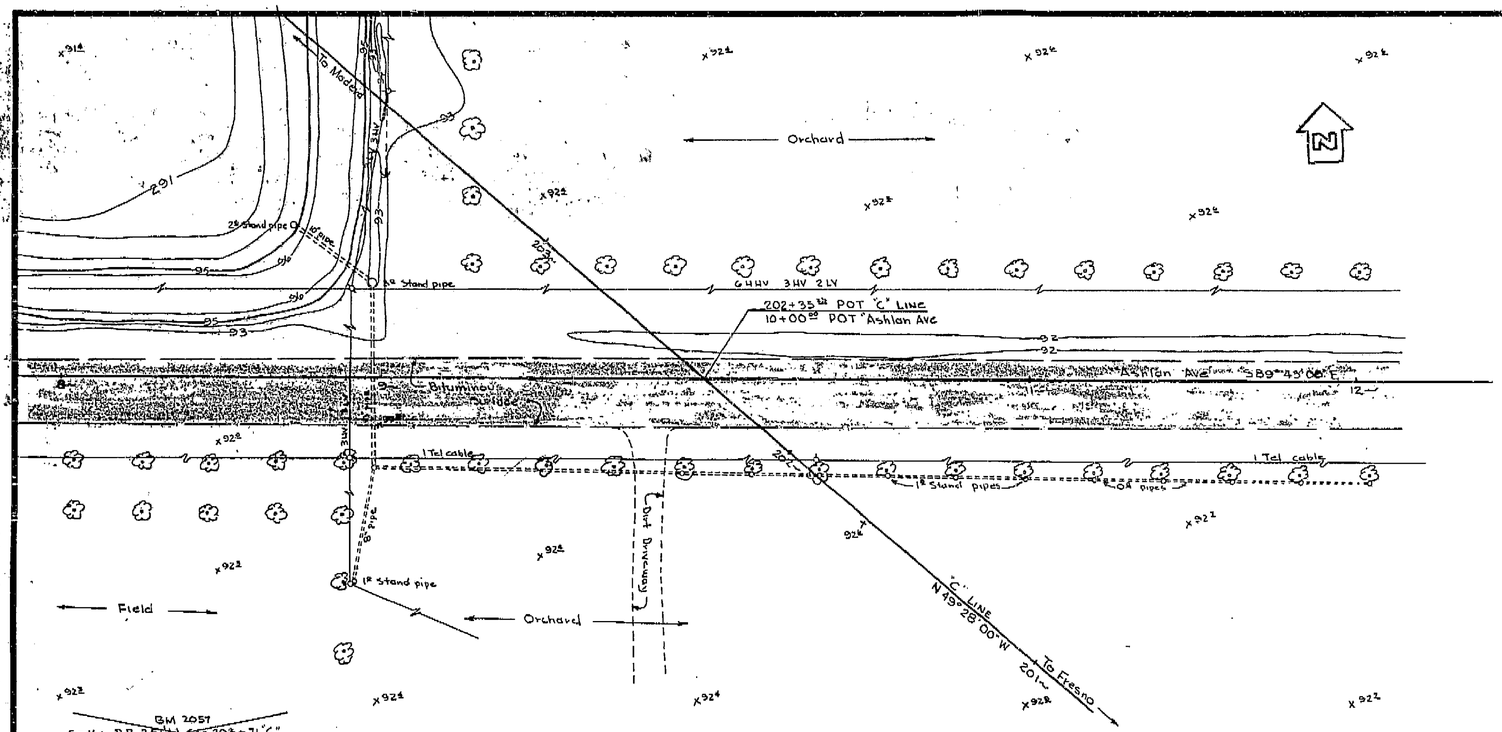
F-0194(4)

FED. ROAD DIV. No.	STATE	PROJ. No.	FISCAL YEAR	SHEET No.	
7	CALIF.			127	210

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre.			2	12

DATE APPROVED AUGUST 1 1958

BRIDGE DEPARTMENT



AS BUILT PLANS
Contract No. 59-67C10
Date Completed
Document No. 600007997

Contract 59-67C10-F

AS BUILT
Corrections by R.T. Hawkenson
Date November 18, 1959
No Corrections

BRIDGE DEPARTMENT		
DESIGN SECTION		
Project Designer	T. H. Caldwell	
Chief Designer	John J. Kozak	
DESIGN	T. H. Caldwell 5-57	H. Gutkind 9-57
DETAILS	R. Hernandez 1-58	H. Gutkind 9-57
QUANTITIES	R. Beale 9-57	R. Hernandez
SPECIFICATIONS		
Approval Recommended by		

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

ASHLAN AVENUE OVERCROSSING

SITE PLAN

SCALE	BRIDGE	FILE	DRAWING
1" = 20'	42-140	E-42	C5383-2

PREL. DRAWING NO. P. 5383 B

PR 5383-3

LEVEL DATUM DISTRICT
FOR ALIGNMENT SEE 5383-1
CONTOURS AS OF 1-30-57
SITE PLAN TO SUPPLEMENT DISTRICT DATA.
SURVEY BY HHC DATE 1-57
DRAWN BY W.H.C. DATE 1-30-57
TRACED BY JS DATE 2-1-57

127

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 7/16/71 SIGNATURE [signature] TITLE HAC II

ClibPDF - www.fastio.com

California Department of Transportation
Division of Maintenance

Structure Maintenance and Investigations

BRIDGE

INSPECTION

RECORDS

INFORMATION

SYSTEM

The requested documents have been generated by BIRIS.

These documents are the property of the California Department of Transportation and should be handled in accordance with Deputy Directive 55 and the State Administrative Manual.

Records for “Confidential” bridges may only be released outside the Department of Transportation upon execution of a confidentiality agreement.

NO AS BUILT CORRECTIONS

CORRECTIONS TRANSFERED BY: C. Fossett
FIELD CORRECTIONS BY: Rick Salinas

TRANSFER DATE: 01/08/2003
FIELD CORRECTION DATE: 04/16/1999

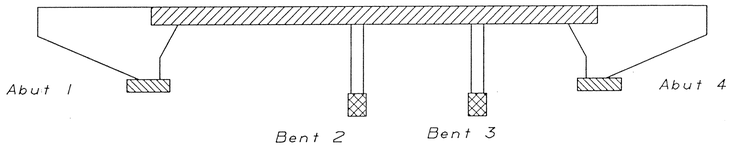
CONTRACT NO: 06-0257U4

INDEX TO PLANS

SHEET NO.	TITLE
1	GENERAL PLAN
2	INDEX TO PLANS
3	DECK CONTOURS
4	FOUNDATION PLAN
5	ABUTMENT 1 LAYOUT
6	ABUTMENT 4 LAYOUT
7	ABUTMENT DETAILS NO. 1
8	ABUTMENT DETAILS NO. 2
9	BENT DETAILS NO. 1
10	BENT DETAILS NO. 2
11	TYPICAL SECTION
12	GIRDER LAYOUT
13	LONGITUDINAL SECTION
14	GIRDER REINFORCEMENT
15	SLOPE PAVING - FULL SLOPE
16	STRUCTURE APPROACH TYPE N(30S)
17	STRUCTURE APPROACH DRAINAGE DETAILS
18	PC/PS CONCRETE DECK PANELS FOR P/S BOX GIRDERS
19	LOG OF TEST BORINGS 1 OF 4
20	LOG OF TEST BORINGS 2 OF 4
21	LOG OF TEST BORINGS 3 OF 4
22	LOG OF TEST BORINGS 4 OF 4

PILE DATA - CIDH CONCRETE PILES

Location	Diameter	Design Loading (Service Load)	Cut-Off Elevation	Tip Elevation
Bent 2 - Left	60"	865 Tons	288.0	207.5
Bent 2 - Right	60"	865 Tons	285.0	207.5
Bent 3 - Left	60"	683 Tons	287.0	221.5
Bent 3 - Right	60"	683 Tons	284.0	221.5



Structural Concrete, Bridge

Structural Concrete, Bridge Footing

Structural Concrete, Bridge (4,000 psi at 28 days)

CIDH Concrete Pile

CONCRETE STRENGTH AND TYPE LIMITS

NO SCALE

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	180, 168, 41	Var	679	1169

Yong P. Kim
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER
YONG PIL KIM
No. 48365
Exp. 6-30-96
CIVIL
STATE OF CALIFORNIA

4-15-96
PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

STANDARD PLANS DATED JULY 1992

A62C	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL - BRIDGE
B0-1	BRIDGE DETAILS
B0-5	BRIDGE DETAILS
B0-13	BRIDGE DETAILS
B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")
B7-1	BOX GIRDER DETAILS
B7-10	UTILITY OPENING - BOX GIRDER
B8-5	CAST-IN-PLACE PRESTRESSED GIRDER DETAILS
B11-53	CONCRETE BARRIER TYPE 25
B14-3	SUPPLY LINE & COMMUNICATION & SPRINKLER CONTROL CONDUITS (FOR PIPE OR CONDUIT LESS THAN 4"Ø)
B14-5	WATER SUPPLY LINE (DETAILS) (PIPE LESS THAN 4" Ø)

GENERAL NOTES
LOAD FACTOR DESIGN

DESIGN: BRIDGE DESIGN SPECIFICATIONS (1983 AASHTO with Interims and Revisions by CALTRANS)

DEAD LOAD: Includes 35 psf for future wearing surface

LIVE LOADING: HS20-44 and alternative and permit design load.

SEISMIC LOADING: Peak Rock Acceleration = 0.1g
Depth of Alluvium > 150 ft

REINFORCED CONCRETE:
f_y = 60,000 psi
f'_c = 3,250 psi
n = 9

Transverse Deck Slabs (Working Stress Design)
f_s = 20,000 psi
f_c = 1,200 psi
n = 10

PRESTRESSED CONCRETE: See 'Prestressing Notes' on "GIRDER LAYOUT" sheet

FOOTING PRESSURE: (Tons Per Square Foot)

	ALLOWABLE	DESIGN
ABUT 1 & 4	2.5	2.5

DESIGN	BY Pat Preston	4-95	CHECKED Yong Pil Kim	7-95	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY Roberta Lim	7-95	CHECKED Yong Pil Kim	7-95	
QUANTITIES	BY Robert Zezoff	7-95	CHECKED Gonzalo Otero	7-95	

DIVISION OF STRUCTURES
STRUCTURE DESIGN 8

CU 06255
EA 0257U1

BRIDGE NO. 42-288R/L
POST MILE R58.7

ROUTE 180/41 SEPARATION
INDEX TO PLANS

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES ——→

REVISION DATES (PRELIMINARY STAGE ONLY): 7-10-95, 8-1-95, 9-22-95, 11-10-95, 11-22-95

SHEET 2 OF 22

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CONTRACT NO: 06-025TU4
TRANSFER DATE: 01/08/2003
FIELD CORRECTION DATE: 04/16/1999
CORRECTIONS TRANSFERED BY: C. Fossett
FIELD CORRECTIONS BY: Rick Salinas

NO AS BUILT CORRECTIONS

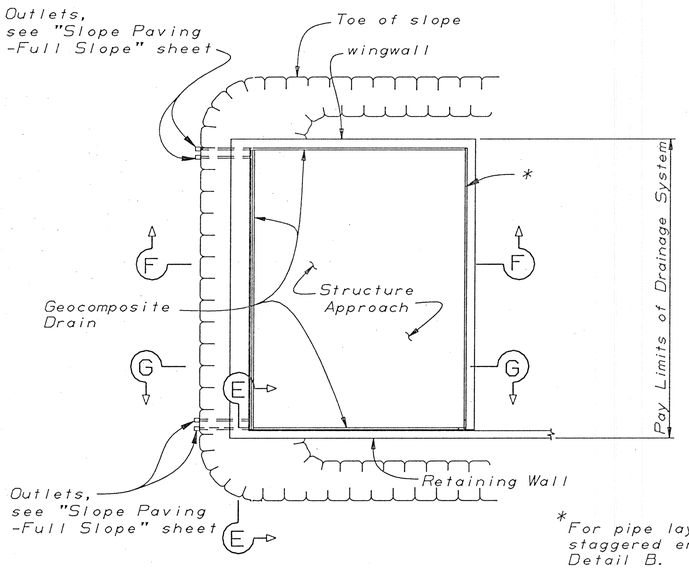
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	180, 41, 168,	Var	693	1169

Yong P. Kim
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER
YONG PIL KIM
No. 48365
Exp. 6-30-96
CIVIL
STATE OF CALIFORNIA

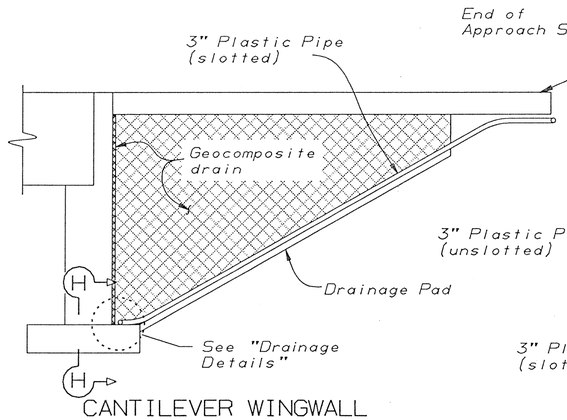
4-15-96
PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

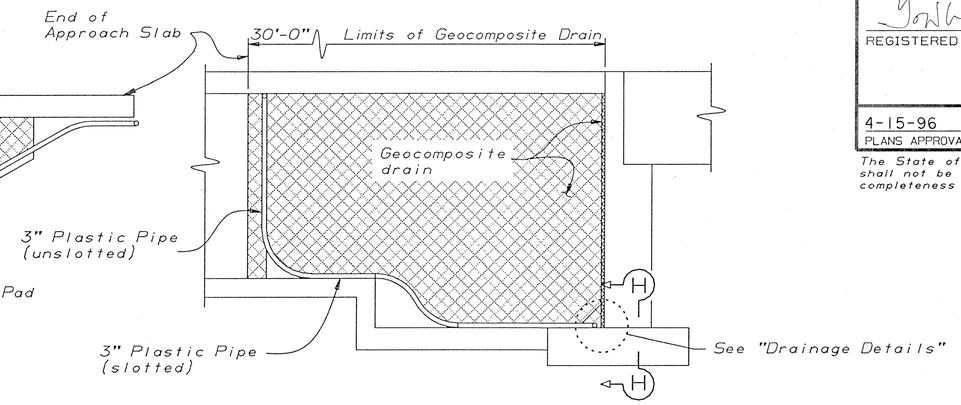


*For pipe layout at staggered end, see Detail B.

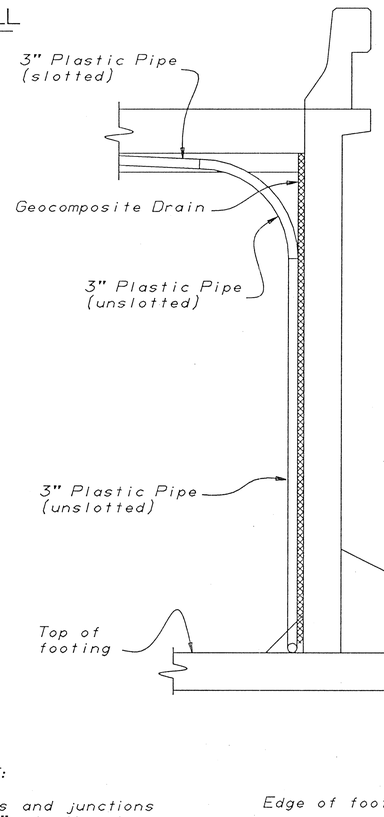
TYPICAL PLAN ◇1
1" = 10'



CANTILEVER WINGWALL
SECTION F-F ◇1
1/4" = 1'-0"

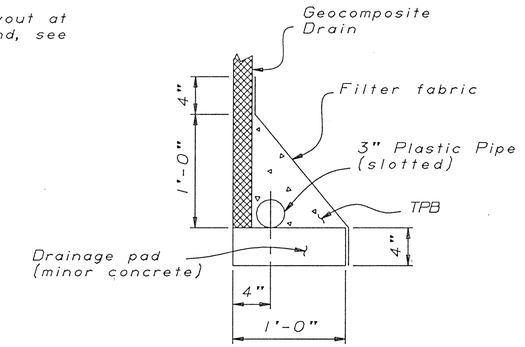


RETAINING WALL WINGWALL
SECTION G-G ◇1
1/4" = 1'-0"

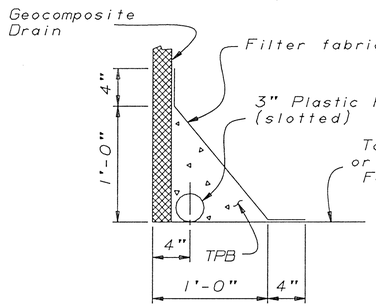


NOTE:
Bends and junctions in 3" plastic pipe are 30" radius min.

SECTION E-E ◇1
1/2" = 1'-0"

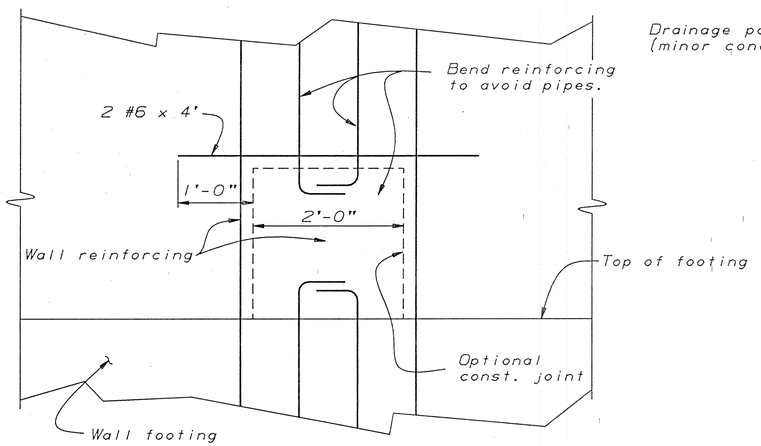


WITHOUT FOOTING

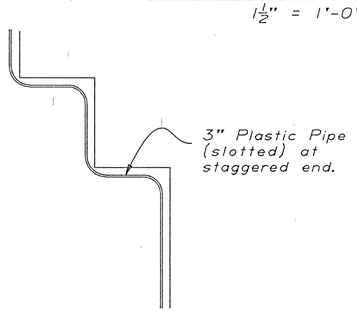


WITH FOOTING

DRAINAGE DETAILS
1½" = 1'-0"



SECTION H-H
1" = 1'-0"



DETAIL B
No Scale

SPECIAL DETAIL

STANDARD DRAWING				
FILE NO. XS 22-17	DESIGN	BY M. Traffalis	CHECKED E. Thorkildsen	APPROVAL RECOMMENDED BY
DRAWING DATE REVISED	DETAILS	BY J. F. Casarino	CHECKED E. Thorkildsen	DESIGN SUPERVISOR
	SUBMITTED BY M. Ha			

◇1 Modified Detail

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
DIVISION OF STRUCTURES
STRUCTURE DESIGN 8

CU 06255
EA 0257U1

BRIDGE NO. 42-288R/L
POST MILE R58.7

ROUTE 180/41 SEPARATION
STRUCTURE APPROACH DRAINAGE DETAILS

DS OSD 2147A (CADD 5/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 1-27-95; 9-27-95; 10-17-95; 11-11-95

SHEET 16 OF 22

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NO AS BUILT CORRECTIONS

CORRECTIONS TRANSFERED BY: C. Fassett
FIELD CORRECTIONS BY: Rick Salinas

TRANSFER DATE: 01/08/2003
FIELD CORRECTION DATE: 04/16/1999

CONTRACT NO: 06-0257U4

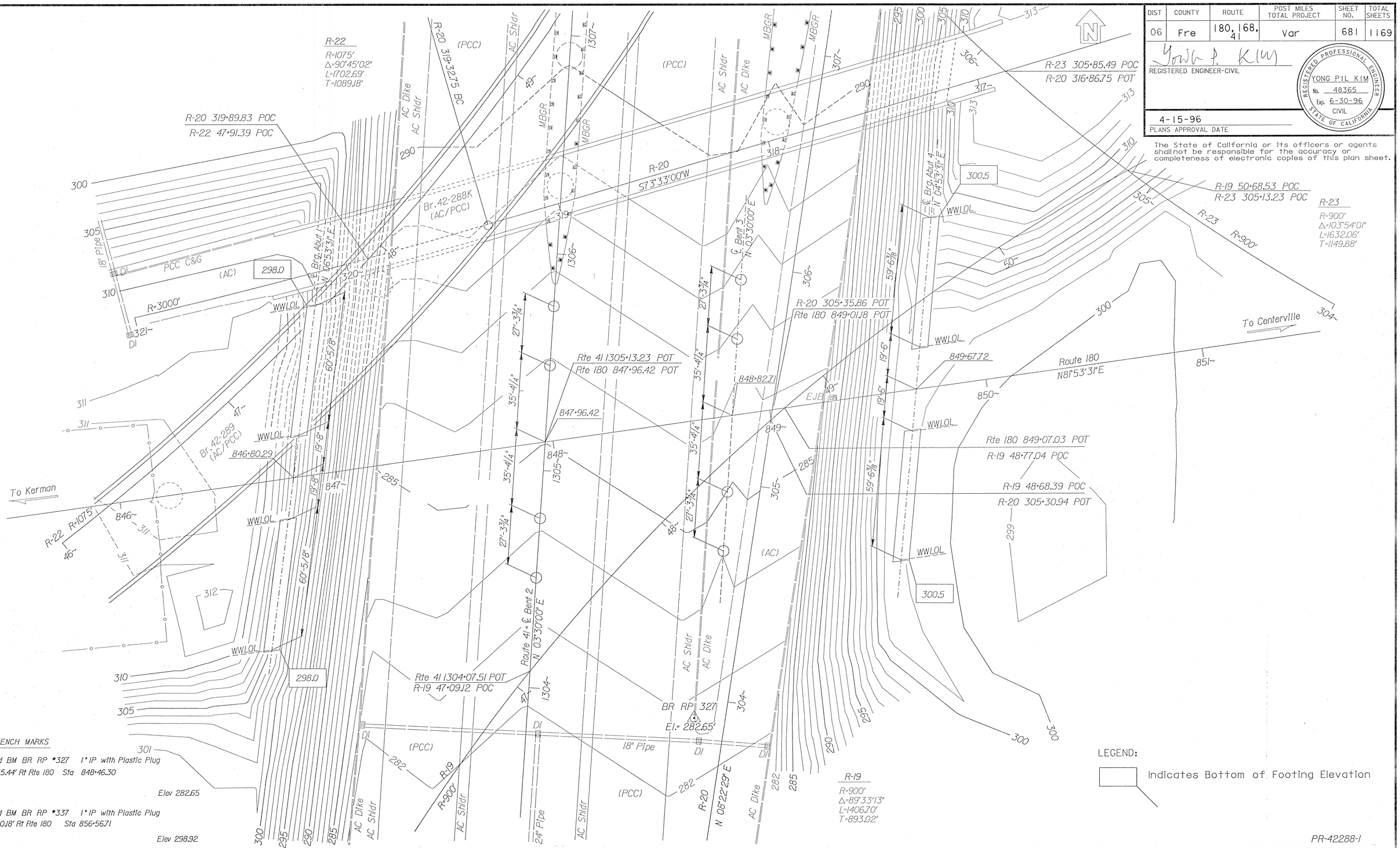
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	180, 41	Var	681	1169

Yong P. Kim
REGISTERED ENGINEER-CIVIL

REGISTERED PROFESSIONAL ENGINEER — YONG PIL KIM — No. 48365 — Exp. 6-30-96 — CIVIL — STATE OF CALIFORNIA

4-15-96
PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



BENCH MARKS

Fd BM BR RP #327 1" IP with Plastic Plug
135.44' Rt Rte 180 Sta 848+46.30
Elev 282.65

Fd BM BR RP #337 1" IP with Plastic Plug
220.18' Rt Rte 180 Sta 856+56.71
Elev 298.92

LEGEND:

[ ] Indicates Bottom of Footing Elevation

PR-42288-1

PRELIMINARY INVESTIGATION SECTION					
SCALE 1" = 20'	DATUM NGVD, 1927	PHOTOGRAMMETRY AS OF: 9/92		DRAWN	BY BWL 7/95
		SURVEYED	BY CWT 8/93	TRACED	BY BWL 7/95
ALIGNMENT TIES DIST TRAV SHEETS		FIELD CHECKED	BY	CHECKED	BY PJC 7/95

DESIGN	BY Patricia Preston 7-95	CHECKED Yong Pil Kim 7-95	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURES DESIGN 8
DETAILS	BY Norm Kelley 7-95	CHECKED Yong Pil Kim 7-95		
QUANTITIES	BY Robert Zezoff 7-95	CHECKED Gonzalo Otero 7-95		

DS OSD 2145 (4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06255
EA 0257U1

BRIDGE NO.	ROUTE 180/41 SEPARATION
42-288R/L	FOUNDATION PLAN
POST MILE R58.7	

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)										SHEET	OF
7-28-95	9-27-95									4	22

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NO AS BUILT CORRECTIONS

CORRECTIONS TRANSFERRED BY: C. Fossett
FIELD CORRECTIONS BY: Rick Solinas

TRANSFER DATE: 01/08/2003
FIELD CORRECTION DATE: 04/16/1999

CONTRACT NO: 06-025714

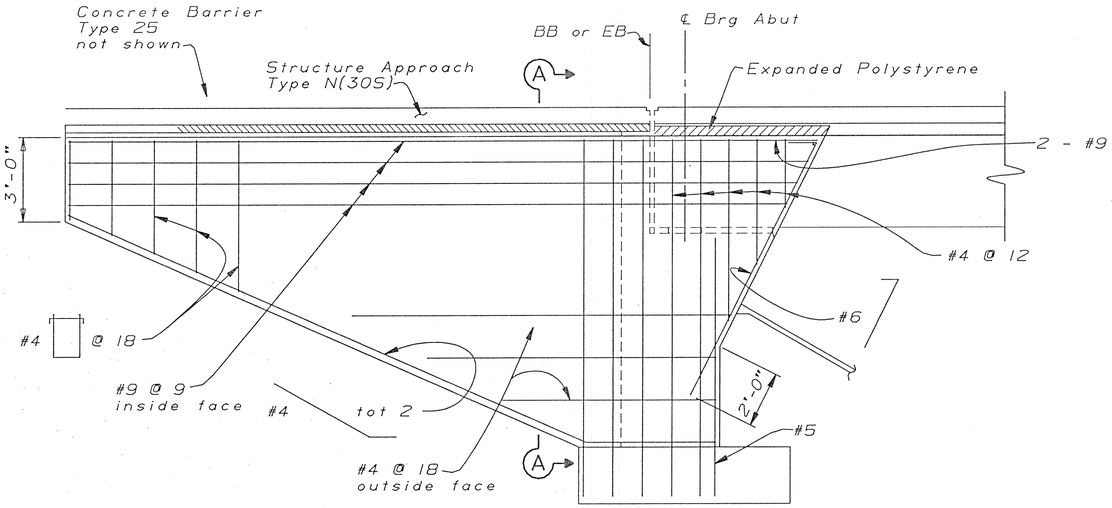
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	180, 168, 41	Var	685	1169

Yong P. Kim
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER
YONG PIL KIM
No. 48365
Exp. 6-30-96
CIVIL
STATE OF CALIFORNIA

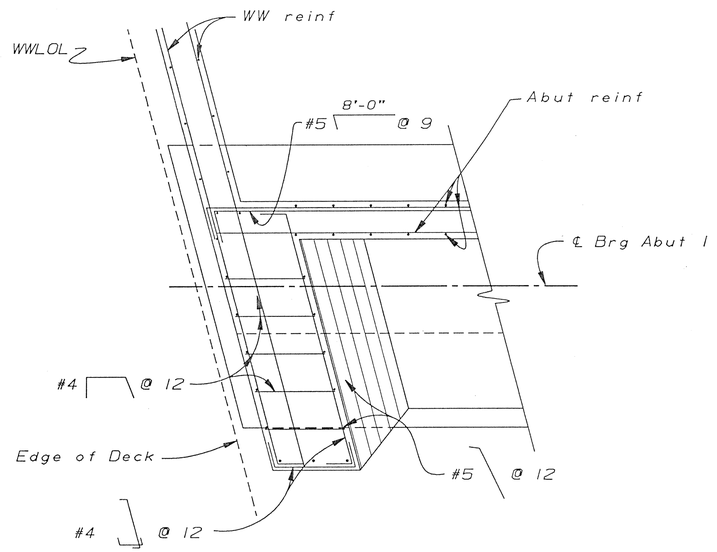
4-15-96
PLANS APPROVAL DATE

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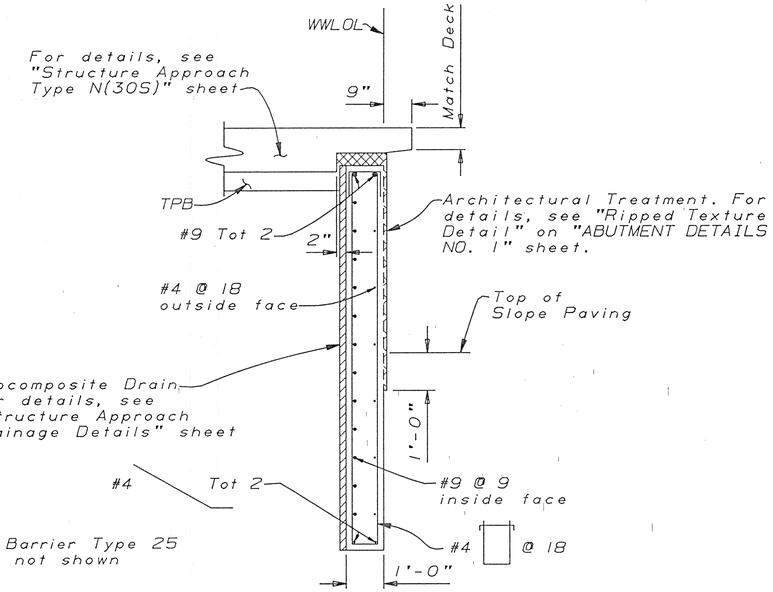
WINGWALL ELEVATION

3/8" = 1'-0"



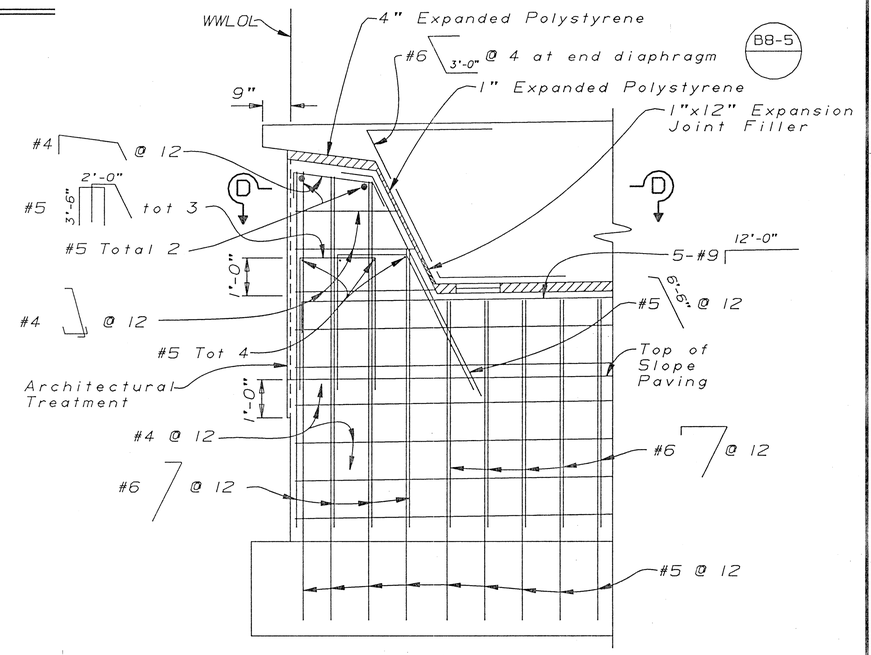
SECTION D-D

1/2" = 1'-0"



SECTION A-A

1/2" = 1'-0"



PART ELEVATION

1/2" = 1'-0"

DESIGN	BY Pat Preston 4-95	CHECKED Yong Pil Kim 7-95	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 8	BRIDGE NO. 42-288R/L
DETAILS	BY Roberta Lim 7-95	CHECKED Yong Pil Kim 7-95			POST MILE R58.7
QUANTITIES	BY Robert Zezoff 7-95	CHECKED Gonzalo Otero 7-95			

ROUTE 180/41 SEPARATION
ABUTMENT DETAILS NO.2

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06255
EA 0257U1

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 7-18-95, 8-5-95, 8-18-95, 9-27-95, 11-10-95

SHEET 8 OF 22

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CONTRACT NO: 06-025104
TRANSFER DATE: 01/08/2003
FIELD CORRECTION DATE: 04/16/1999
CORRECTIONS TRANSFERED BY: C.Fossett
FIELD CORRECTIONS BY: Rick Sollnos

NO AS BUILT CORRECTIONS

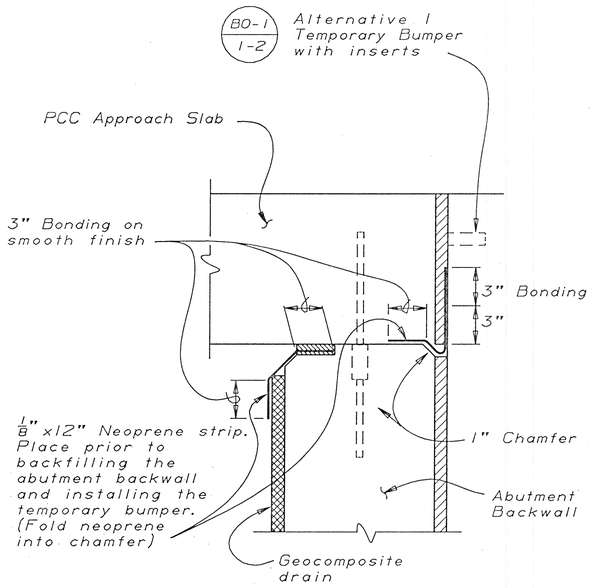
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	180, 41 168,	Var	684	1169

REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER
YONG PIL KIM
No. 48365
Exp. 6-30-96
CIVIL
STATE OF CALIFORNIA

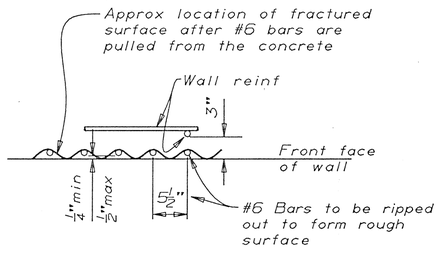
4-15-96
PLANS APPROVAL DATE

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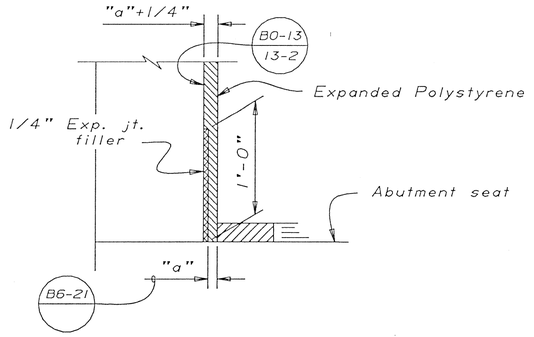
JOINT PROTECTION DETAIL

No Scale



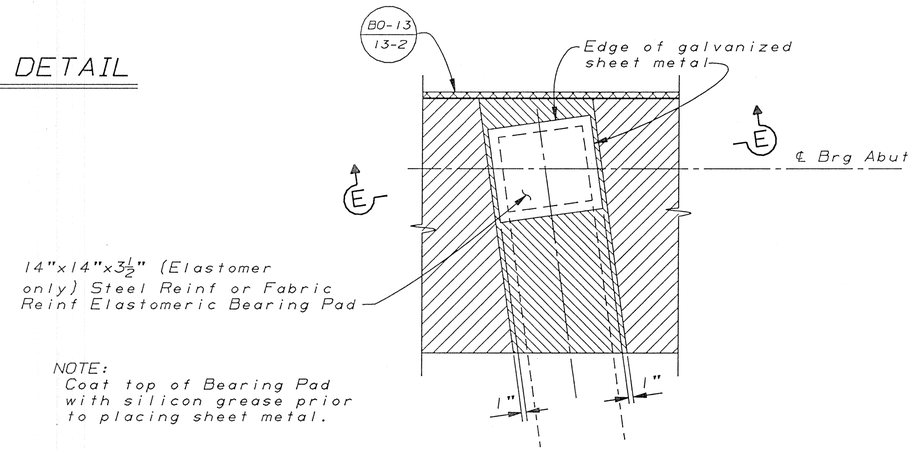
RIPPED TEXTURE DETAIL

1" = 1'-0"

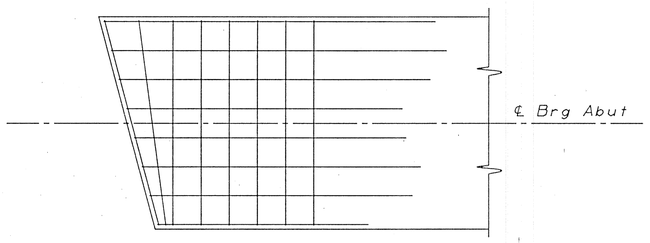


BACK WALL BASE DETAIL

No Scale

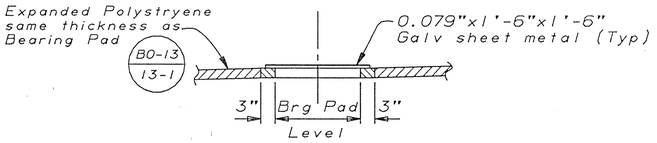


PLAN



FOOTING CORNER REINFORCEMENT DETAIL

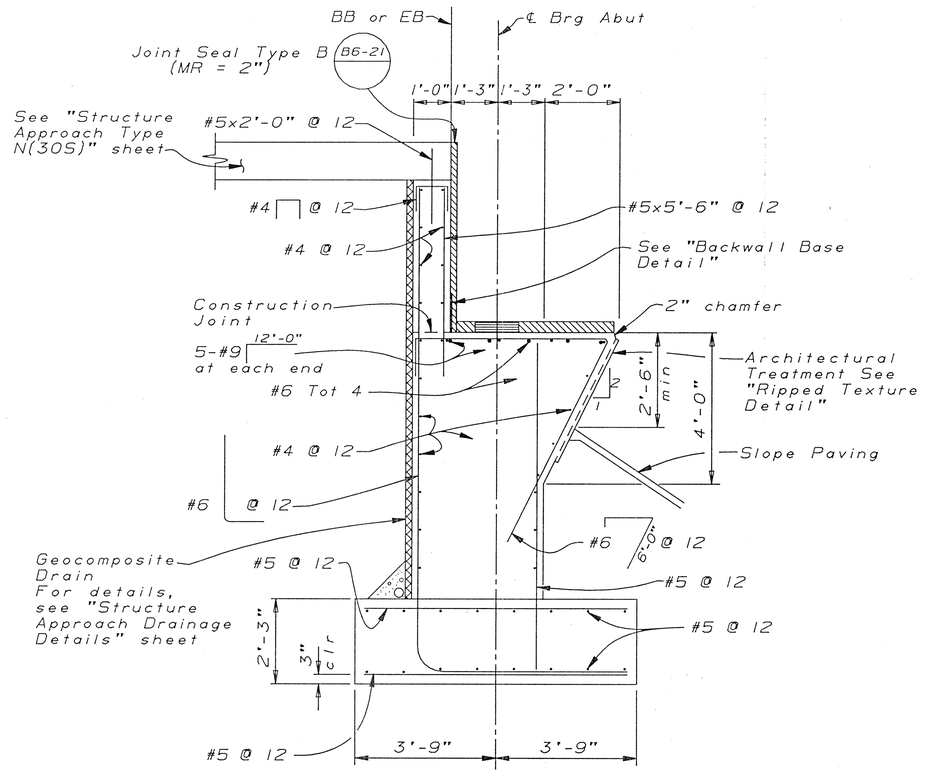
3/8" = 1'-0"



SECTION E-E
BEARING PAD DETAIL

No Scale

Details typical at all bearing pads



ABUTMENT SECTION

1/2" = 1'-0"

DESIGN	BY Pat Preston 4-95	CHECKED Yong Pil Kim 7-95	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 8	BRIDGE NO. 42-288R/L
DETAILS	BY Roberta Lim 7-95	CHECKED Yong Pil Kim 7-95			POST MILE R58.7
QUANTITIES	BY Robert Zezoff 7-95	CHECKED Gonzalo Otero 7-95			

ROUTE 180/41 SEPARATION
ABUTMENT DETAILS NO. 1

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06255
EA 0257U1

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 7-10-95 8-5-95 8-15-95 9-27-95 11-10-95

SHEET 7 OF 22

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AS BUILT CORRECTIONS

CORRECTIONS TRANSFERED BY: C. Fassett
FIELD CORRECTIONS BY: Rick Salinas

TRANSFER DATE: 01/08/2003
FIELD CORRECTION DATE: 04/16/1999

CONTRACT NO: 06-025704

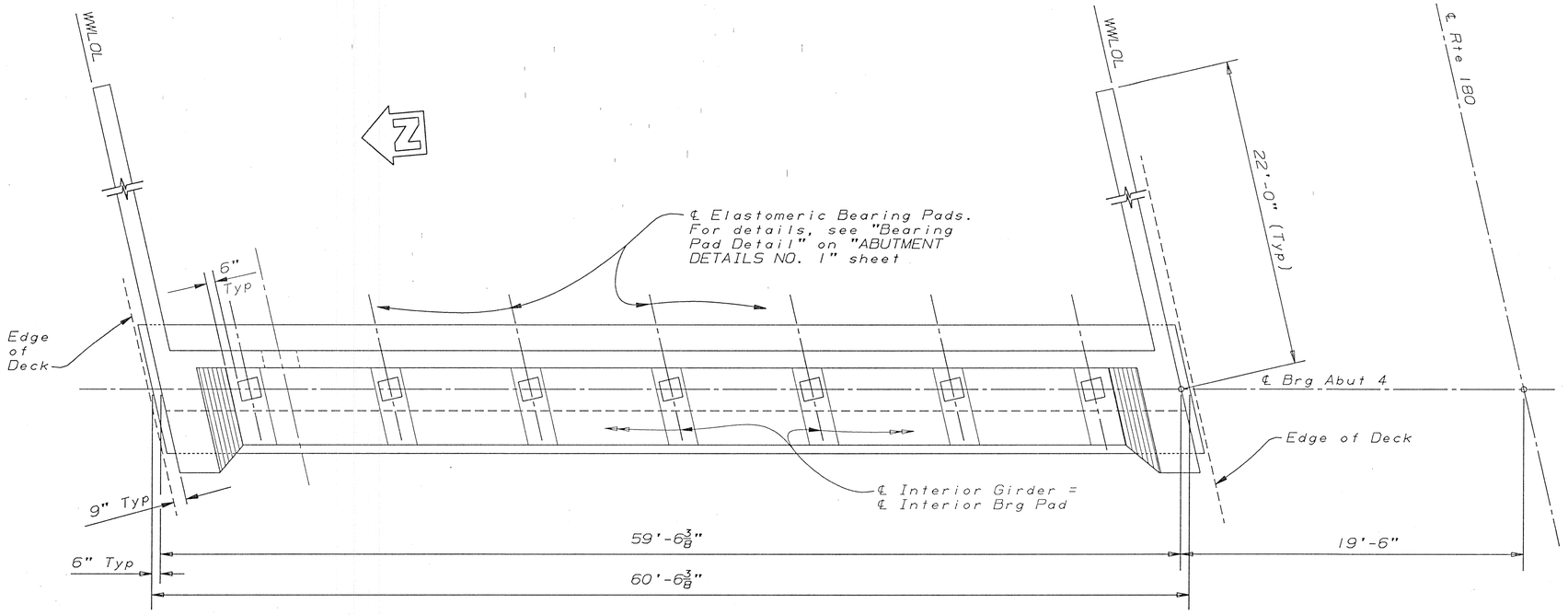
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	180, 168, 41	Var	683	1169

Yong P. Kim
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER
YONG PIL KIM
No. 48365
Exp. 6-30-96
CIVIL
STATE OF CALIFORNIA

4-15-96
PLANS APPROVAL DATE

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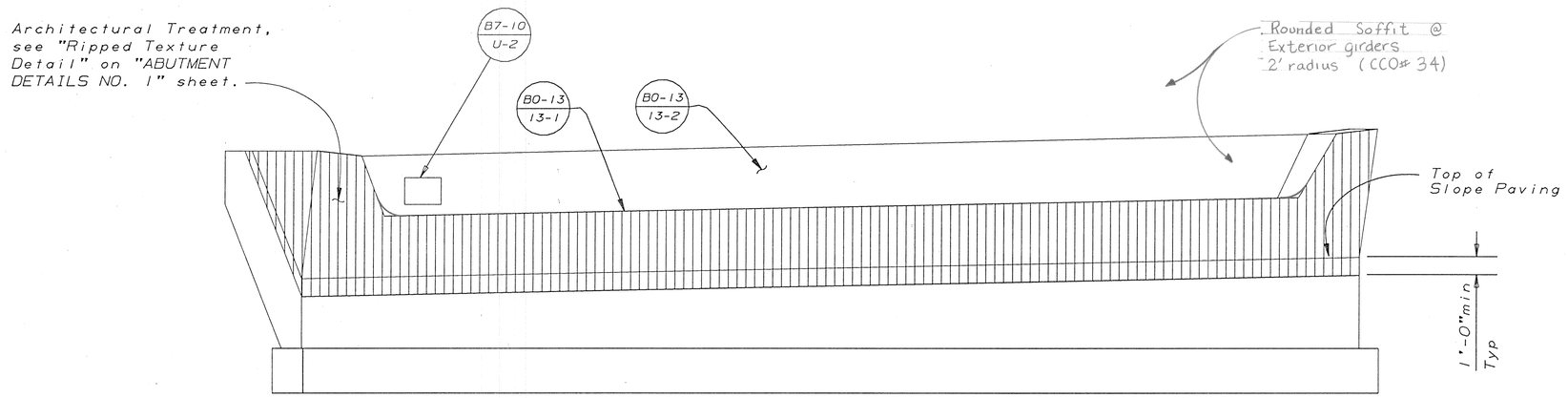


PLAN - ABUTMENT 4

¼" = 1'-0"

Notes:

1. *For Abutment Section, see "ABUTMENT DETAILS NO. 1" sheet.*
2. *Abutment 4 left side shown, right side similar.*



ELEVATION - ABUTMENT 4

¼" = 1'-0"

	BY		CHECKED	
DESIGN	Pat Preston	4-95	Yong Pil Kim	7-95
DETAILS	Roberta Lim	7-95	Yong Pil Kim	7-95
QUANTITIES	Robert Zezoff	7-95	Gonzalo Otero	7-95

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 8

CU 06255
EA 0257U1

BRIDGE NO. 42-288R/L
POST MILE R58.7

ROUTE 180/41 SEPARATION
ABUTMENT 4 LAYOUT

DS 050 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 7-18-95, 8-3-95, 8-18-95, 9-27-95, 11-10-95

SHEET 6 OF 22

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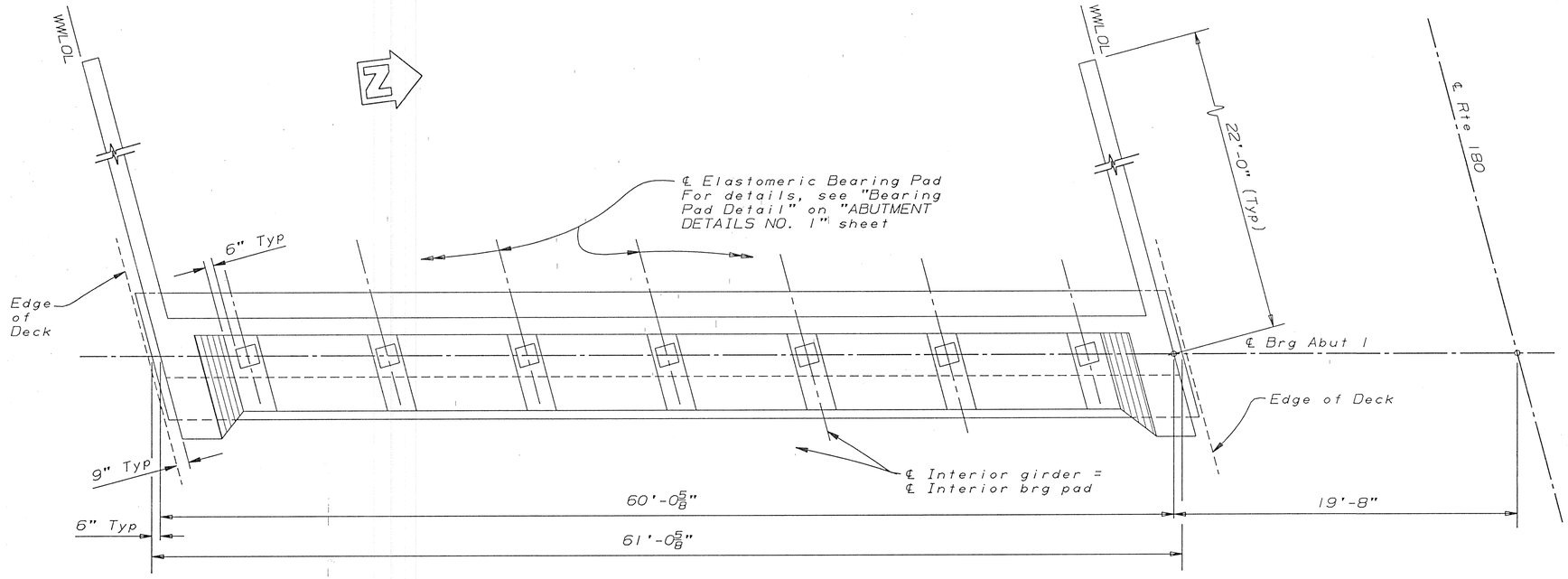
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	180, 168, 41	Var	682	1169

Yong P. Kim
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER
YONG PIL KIM
No. 48365
Exp. 6-30-96
CIVIL
STATE OF CALIFORNIA

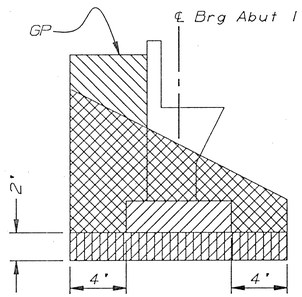
4-15-96
PLANS APPROVAL DATE

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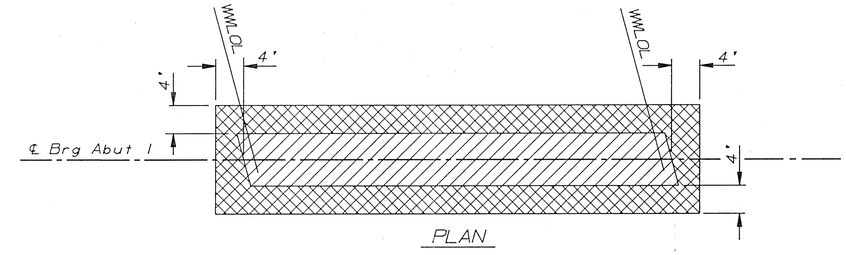
PLAN - ABUTMENT 1

1/4" = 1'-0"



ELEVATION

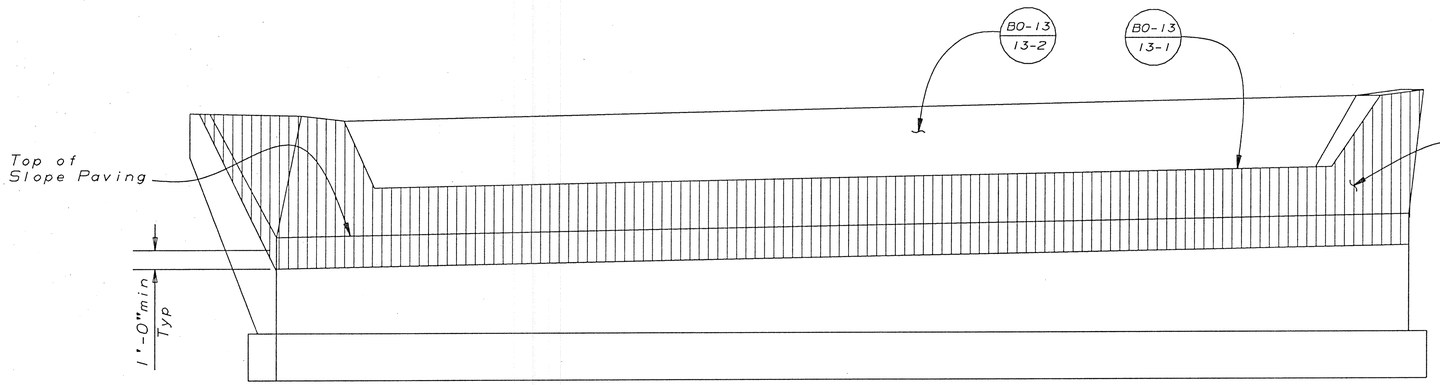
- Structure Excavation
- Structure Backfill
- Structure Backfill "Class 2 Aggregate Base"



PLAN

LIMITS OF EXCAVATION & BACKFILL AT ABUTMENT 1

No Scale



Architectural Treatment, see "Ripped Texture Detail" on "ABUTMENT DETAILS NO. 1" sheet.

ELEVATION - ABUTMENT 1

1/4" = 1'-0"

NOTES:
1. Abutment 1 Right shown, Abutment 1 Left similar.
2. Concrete Barrier and Structure Approach not shown.
3. For Abutment Section, see "ABUTMENT DETAILS NO. 1" sheet.

	BY		CHECKED	
DESIGN	Pat Preston	4-95	Yong Pil Kim	7-95
DETAILS	Roberta Lim	7-95	Yong Pil Kim	7-95
QUANTITIES	Robert Zezoff	7-95	Gonzalo Otero	7-95

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 8

CU 06255
EA 0257U1

BRIDGE NO.	ROUTE 180/41 SEPARATION
42-288R/L	ABUTMENT 1 LAYOUT
POST MILE R58.7	

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 7-12-95, 8-3-95, 8-14-95, 9-27-95, 11-16-95, 12-7-95

SHEET 5 OF 22

DS 050 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

NO AS BUILT CORRECTIONS

CORRECTIONS TRANSFERED BY: C. Fassett
FIELD CORRECTIONS BY: Rick Salinas

TRANSFER DATE: 01/08/2003
FIELD CORRECTION DATE: 04/16/1999

CONTRACT No. 06-0257U4

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NO AS BUILT CORRECTIONS
CORRECTIONS TRANSFERED BY: C. Fassett
FIELD CORRECTIONS BY: Rick Sollnas
TRANSFER DATE: 01/08/2003
FIELD CORRECTION DATE: 04/16/1999
CONTRACT NO: 06-0257U4

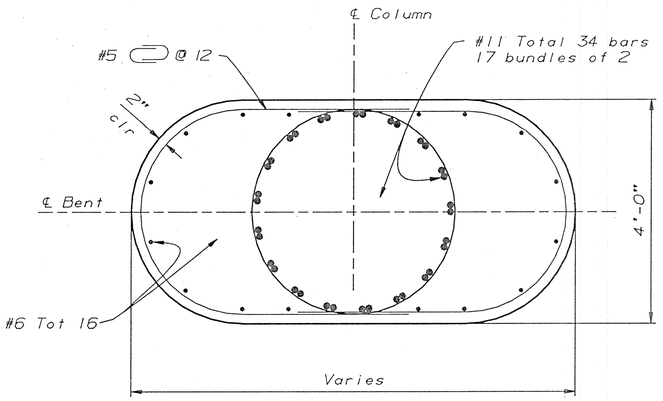
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	180, 168, 41	Var	687	1169

Yong P. Kim
REGISTERED ENGINEER - CIVIL

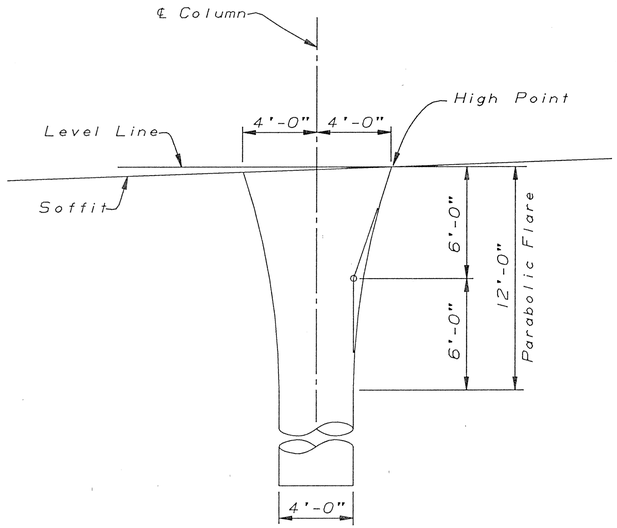
REGISTERED PROFESSIONAL ENGINEER
YONG PIL KIM
No. 48365
Exp. 6-30-96
CIVIL
STATE OF CALIFORNIA

4-15-96
PLANS APPROVAL DATE

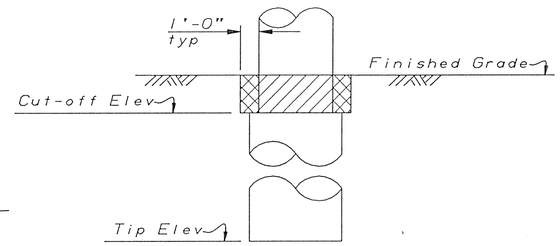
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SECTION U-U
3/4" = 1'-0"



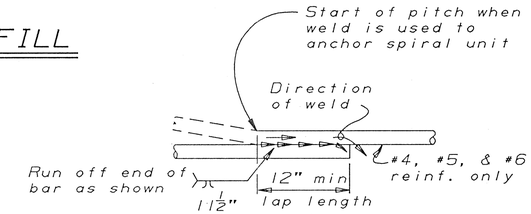
FLARE DETAIL
1/4" = 1'-0"



LIMITS OF EXCAVATION & BACKFILL
No Scale

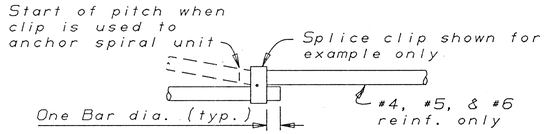
Structure Excavation

Structure Backfill

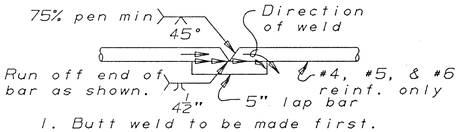


Note: Flare weld to be made in direction shown.

WELDED LAP SPLICE AND ANCHOR

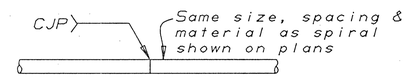


MECHANICAL LAP SPLICE AND ANCHOR



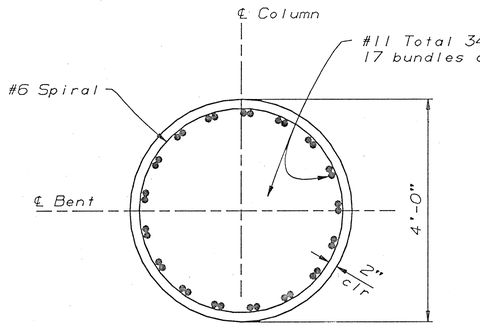
1. Butt weld to be made first.
2. Butt weld to be made in flat or horizontal position.
3. Lap bar to be centered on splice.
4. Flare weld to be made in direction shown.
5. Lap bar equal size to spiral bar.

VEE GROOVE WELDED SPLICE

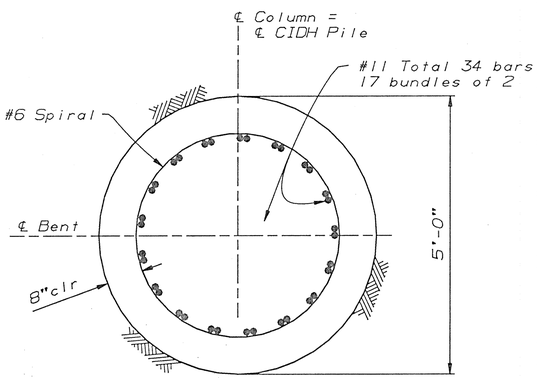


Individual hoops, made continuous with 100% penetration welds, may be substituted for spirals.

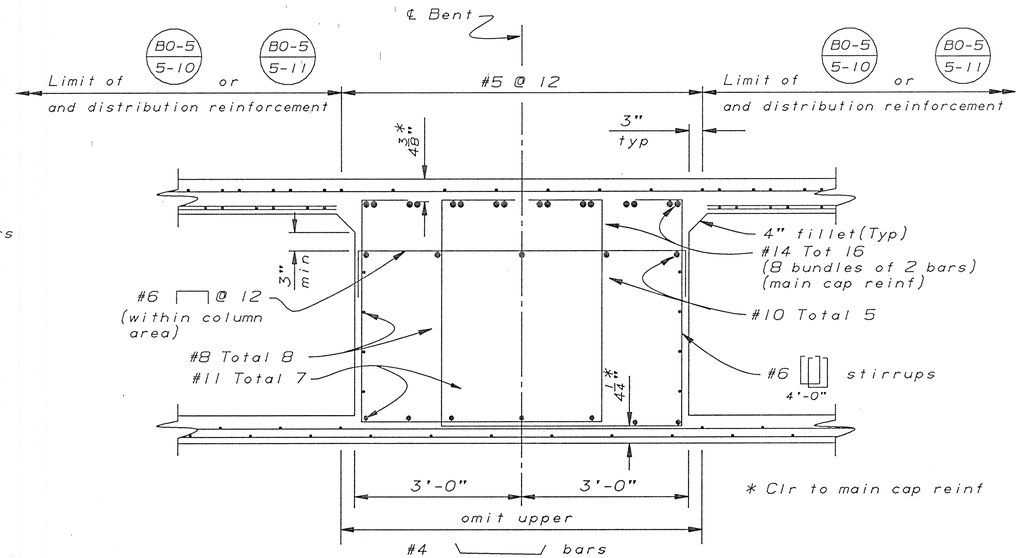
BUTT WELDED CONTINUOUS HOOP



SECTION V-V
3/4" = 1'-0"



SECTION W-W
3/4" = 1'-0"



SECTION X-X
3/4" = 1'-0"

BAR SPIRAL SPLICE & SPIRAL ANCHOR & HOOP DETAIL

	BY		CHECKED	
DESIGN	Pat Preston	4-95	Yong Pil Kim	7-95
DETAILS	Roberta Lim	7-95	Yong Pil Kim	7-95
QUANTITIES	Robert Zezoff	7-95	Gonzalo Otero	7-95

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 8

CU 06255
EA 0257U1

BRIDGE NO. 42-288R/L
POST MILE R58.7

ROUTE 180/41 SEPARATION
BENT DETAILS NO.2

DS 050 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 7-12-95 8-3-95 11-10-95 12-5-95

SHEET 10 OF 22

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AS BUILT CORRECTIONS

CORRECTIONS TRANSFERED BY: C. Fassett
FIELD CORRECTIONS BY: Rick Salinas

TRANSFER DATE: 01/08/2003
FIELD CORRECTION DATE: 04/16/1999

CONTRACT NO: 06-025704

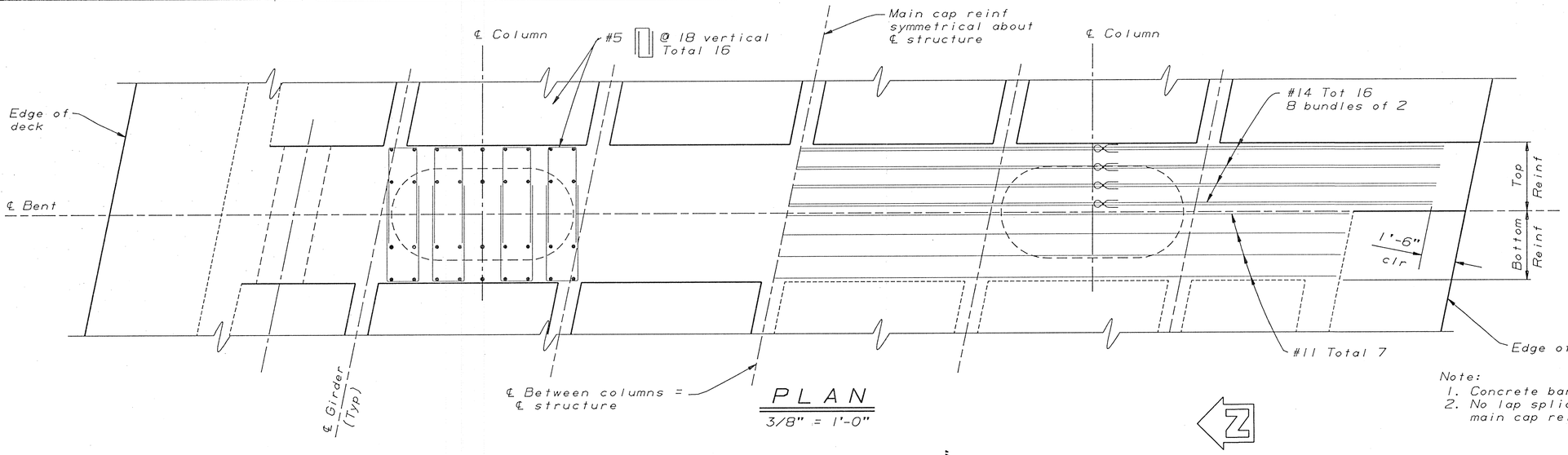
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	180, 168, 41	Var	686	1169

Yong P. Kim
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER
YONG PIL KIM
No. 48365
Exp. 6-30-96
CIVIL
STATE OF CALIFORNIA

4-15-96
PLANS APPROVAL DATE

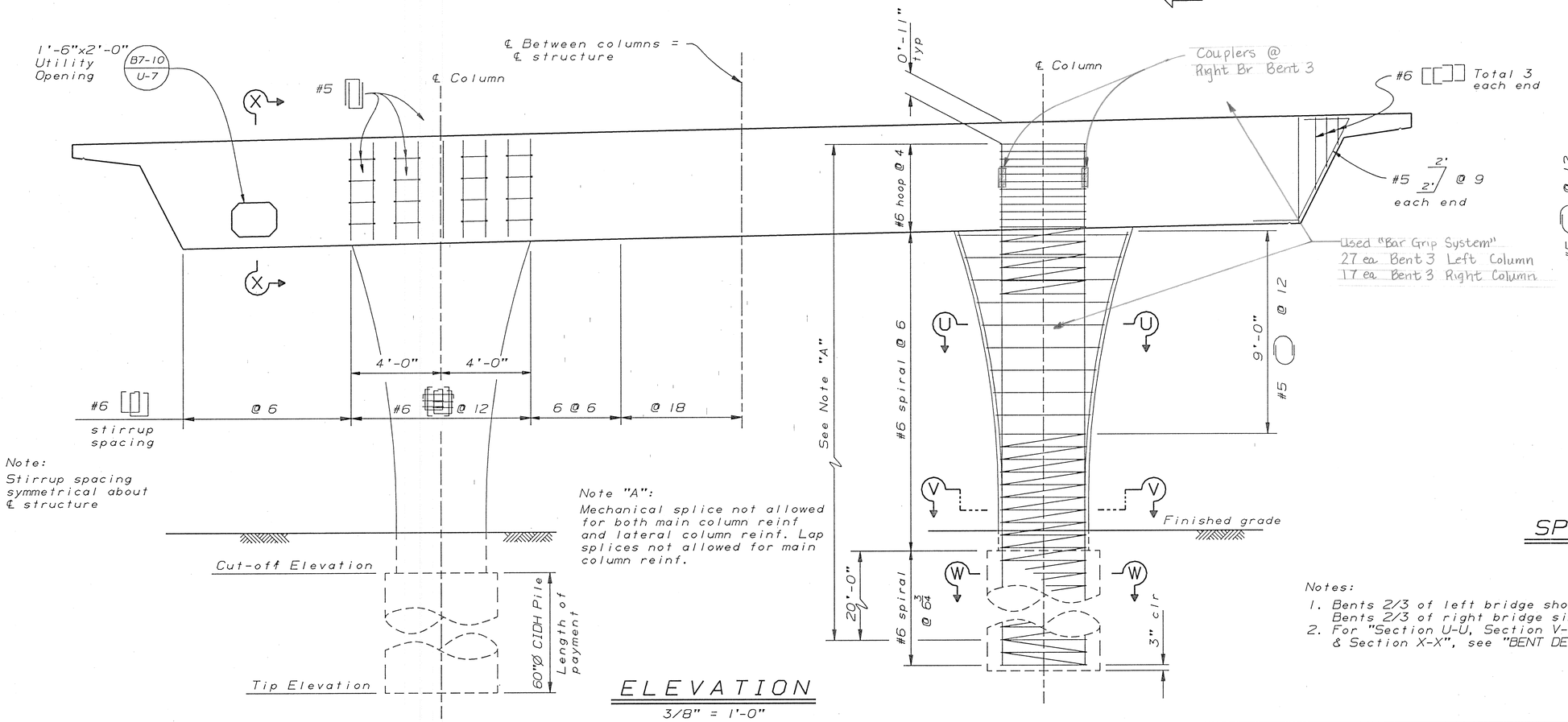
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PLAN
3/8" = 1'-0"

Note:
1. Concrete barriers not shown.
2. No lap splices allowed in main cap reinforcement

LEGEND
∝ INDICATES BUNDLED REINFORCEMENT



Note:
Stirrup spacing symmetrical about ℄ structure

Note "A":
Mechanical splice not allowed for both main column reinf and lateral column reinf. Lap splices not allowed for main column reinf.

ELEVATION
3/8" = 1'-0"

SPIRAL & TIE DETAIL
NO SCALE

Notes:
1. Bents 2/3 of left bridge shown, Bents 2/3 of right bridge similar.
2. For "Section U-U, Section V-V, Section W-W, & Section X-X", see "BENT DETAILS NO. 2" sheet.

	BY		CHECKED	
DESIGN	Pat Preston	4-95	Yong Pil Kim	7-95
DETAILS	Roberta Lim	7-95	Yong Pil Kim	7-95
QUANTITIES	Robert Zezoff	7-95	Gonzalo Otero	7-95

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 8

CU 06255
EA 0257U1

BRIDGE NO. 42-288R/L
POST MILE R58.7

ROUTE 180/41 SEPARATION
BENT DETAILS NO. 1

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 7-12-95, 8-5-95, 11-16-95, 11-22-95

SHEET 9 OF 22

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CONTRACT NO: 06-0257U4
TRANSFER DATE: 01/08/2003
FIELD CORRECTION DATE: 04/6/1999
CORRECTIONS TRANSFERED BY: C. Fassett
FIELD CORRECTIONS BY: Rick Salinas

AS BUILT CORRECTIONS

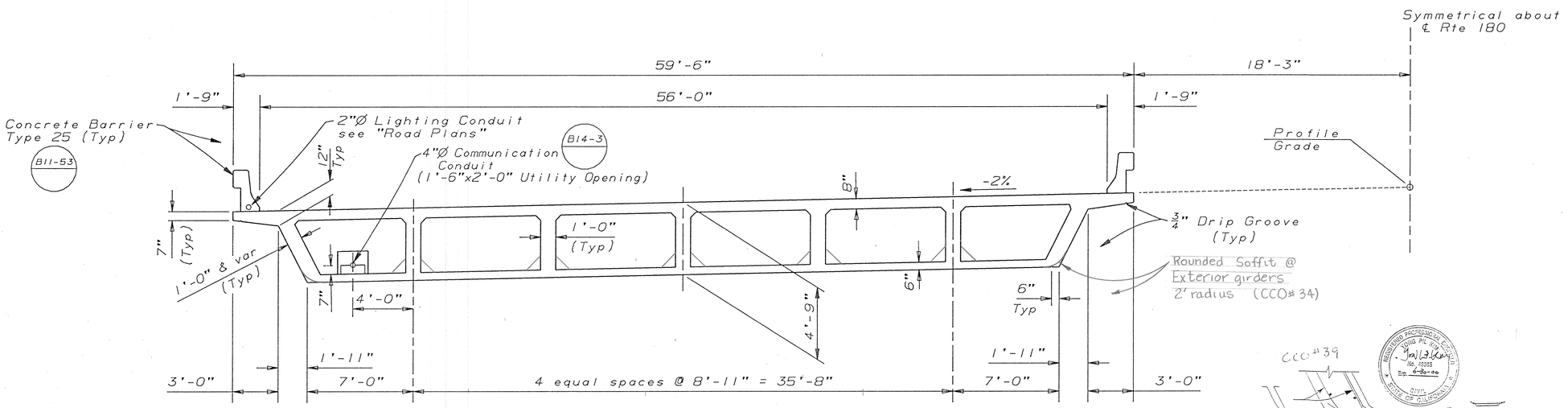
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	180, 168, 41	Var	688	1169

Yong P. Kim
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — YONG PIL KIM — No. 48365 — Exp. 6-30-96 — CIVIL — STATE OF CALIFORNIA

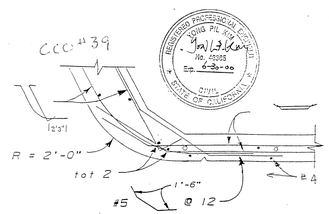
4-15-96
PLANS APPROVAL DATE

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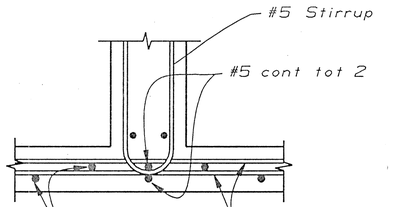
TYPICAL SECTION

1/4" = 1'-0"



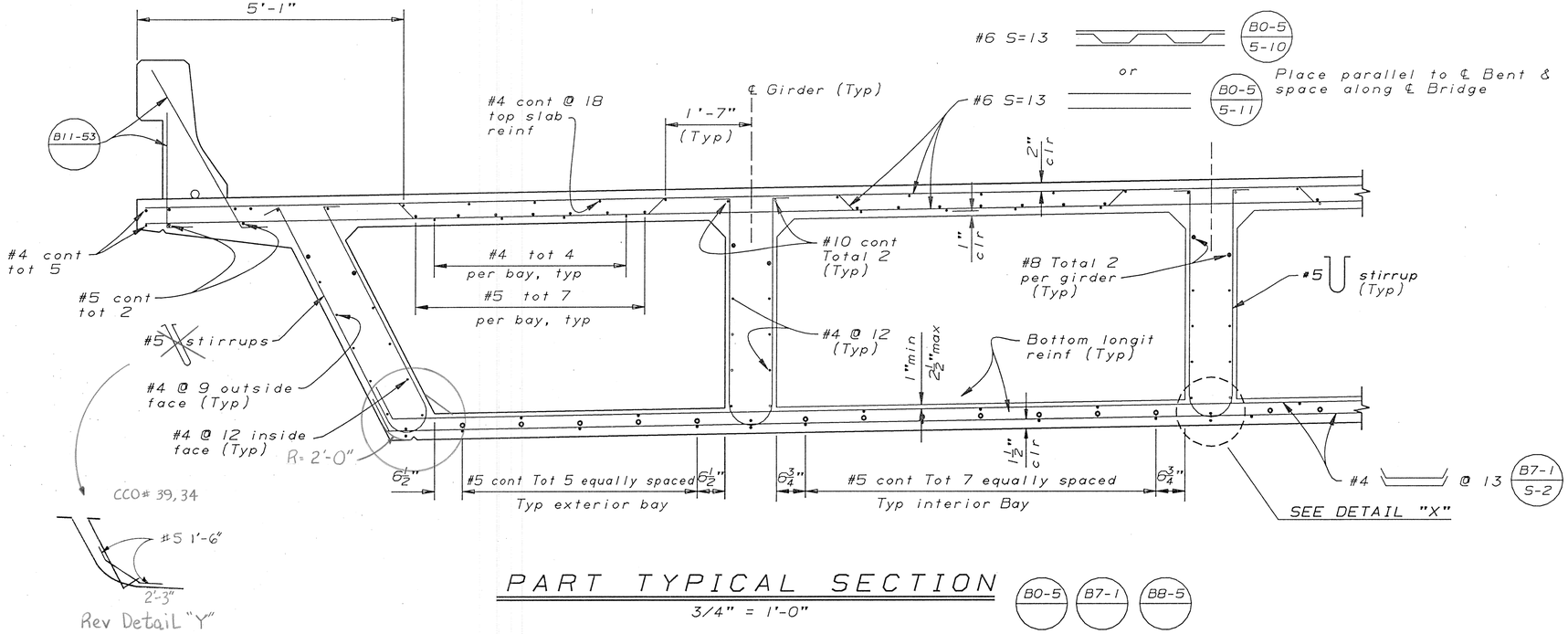
REVISED DETAIL "Y"

3/14/97 1" = 1'-0"



DETAIL "X"

NO SCALE



PART TYPICAL SECTION

3/4" = 1'-0"

B0-5 B7-1 B8-5

CCO# 39, 34

Rev Detail "Y"

DESIGN	BY Pat Preston 4-95	CHECKED Yong Pil Kim 7-95	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 8	BRIDGE NO. 42-288R/L
DETAILS	BY Roberta Lim 7-95	CHECKED Yong Pil Kim 7-95			POST MILE R58.7
QUANTITIES	BY Robert Zezoff 7-95	CHECKED Gonzalo Otero 7-95			

ROUTE 180/41 SEPARATION
TYPICAL SECTION

DS OSD 2139 (CADD 4/89)
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3
CU 06255
EA 0257U1
DISREGARD PRINTS BEARING EARLIER REVISION DATES
REVISION DATES (PRELIMINARY STAGE ONLY) 1-11-95 B-5-95 11-10-95
SHEET 11 OF 22

ClibPDF - www.fastio.com

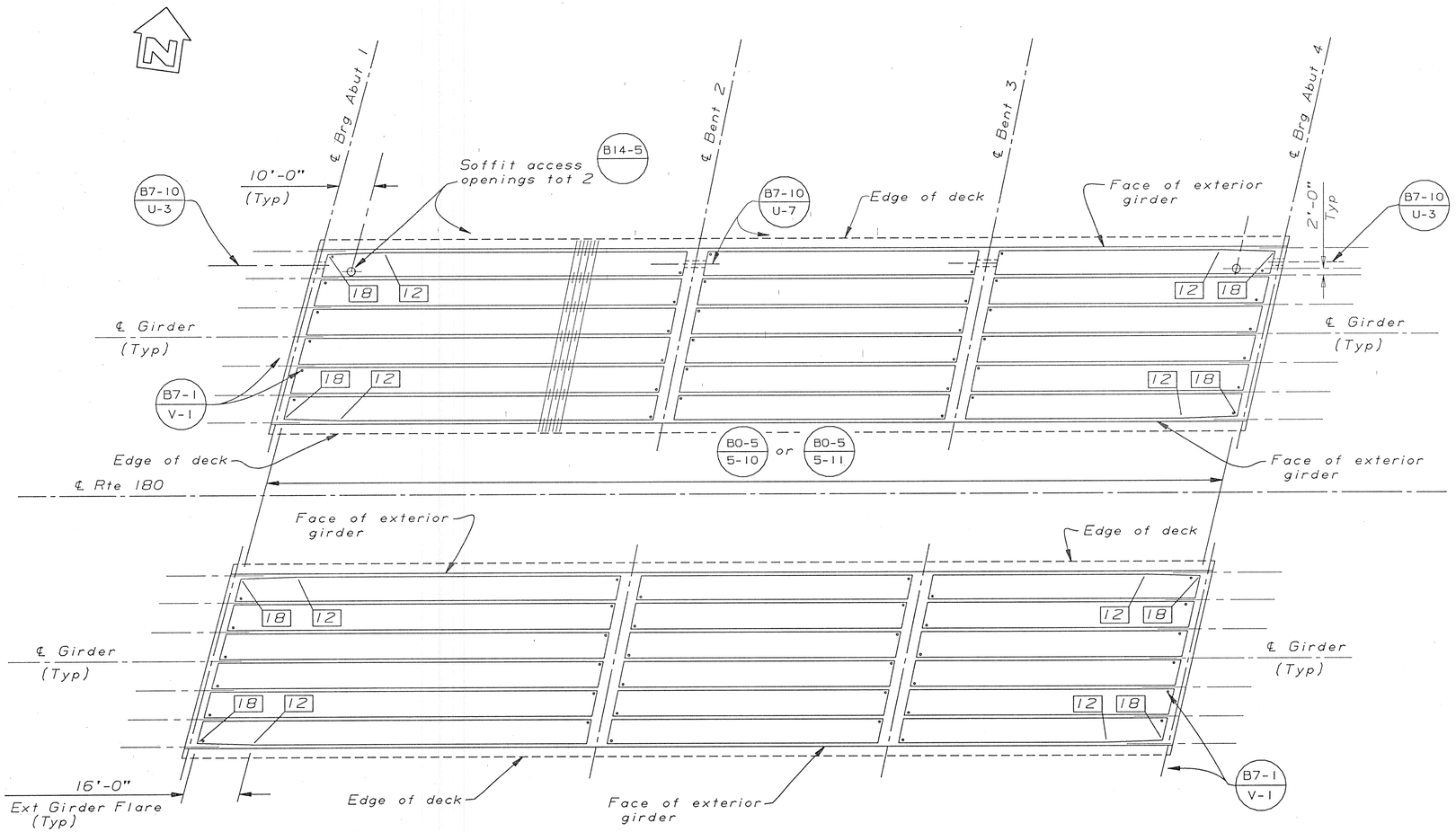
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	180, 41 | 168,	Var	689	1169

REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — Yong Pil Kim, No. 48365, Exp. 6-30-96, CIVIL, STATE OF CALIFORNIA

4-15-96
PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



GIRDER LAYOUT

1" = 20'-0"

B0-5 B7-1 B7-10 B8-5

NOTE:

□ Indicates girder stem width in inches

PRESTRESSING NOTES LEFT BRIDGE

270 KSI Low Relaxation Strand:

P_{jack} = 7810 kips

Anchor Set = 3/8 in

Total Number of Girders = 7

Distribution of prestress force (Pjack) between girders shall not exceed the ratio of 3:2. Maximum final force variation between girders shall not exceed 725 kips.

Concrete: f'_c = 4000 psi ± 28 days

f'_{ci} = 3500 psi ± time of stressing

Contractor shall submit elongation calculations based on initial stress at
☒ = 0.879 times jacking stress.

One end stressing shall be performed from abutment 1 end only.

PRESTRESSING NOTES RIGHT BRIDGE

270 KSI Low Relaxation Strand:

P_{jack} = 8780 kips

Anchor Set = 3/8 in

Total Number of Girders = 7

Distribution of prestress force (Pjack) between girders shall not exceed the ratio of 3:2. Maximum final force variation between girders shall not exceed 725 kips.

Concrete: f'_c = 4000 psi ± 28 days

f'_{ci} = 3500 psi ± time of stressing

Contractor shall submit elongation calculations based on initial stress at
☒ = 0.885 times jacking stress.

One end stressing shall be performed from abutment 1 end only.

AS BUILT CORRECTIONS

CONTRACT NO: 06-025704
TRANSFER DATE: 01/08/2003
FIELD CORRECTION DATE: 04/16/1999
CORRECTIONS TRANSFERED BY: C. Fassett
FIELD CORRECTIONS BY: Rick Salinas

	BY		CHECKED	
DESIGN	Pat Preston	4-95	Yong Pil Kim	7-95
DETAILS	Roberta Lim	7-95	Yong Pil Kim	7-95
QUANTITIES	Robert Zezoff	7-95	Gonzalo Otero	7-95

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 8

CU 06255
EA 0257U1

BRIDGE NO. 42-288 R/L
POST MILE R58.7

ROUTE 180/41 SEPARATION
GIRDER LAYOUT

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 7-19-95, 8-5-95, 11-11-95

SHEET 12 OF 22

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DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41, 180	R28.8/R28.8-R31.7/R38.8	162	199

Robert G. Dewitt #165
IDENTIFIED ENGINEERING GEOLOGIST NUMBER
DATE APPROVED May 8, 1978

TRANSFER DATE: 01/08/2003
FIELD CORRECTION DATE: 04/16/1999
CONTRACT NO: 06-025704

CORRECTIONS TRANSFERRED BY: C. Fossett
FIELD CORRECTIONS BY: Rick Salinas

NO AS BUILT CORRECTIONS

SAMPLER BORING (DRY) ROTARY-WASHING (WET) AUGER BORING (DRY) JET BORING CORE BORING TEST PIT

ORGANIC MATTER FILL MATERIAL IGNEOUS ROCK SEDIMENTARY ROCK METAMORPHIC ROCK

SILT CLAY SANDY CLAY or CLAYEY SAND SANDY SILT or SILTY SAND

No. of blows	Granular	Cohesive
0-5	Very loose	Very soft
5-10	Loose	Soft
10-20	Slightly compact	Stiff
20-35	Compact	Very stiff
35-70	Dense	Hard
>70	Very dense	Very hard

NOTE: Classification of earth material as shown on this sheet is based upon interpretation of data acquired in the performance of the contract and upon subsequent laboratory analysis. It is not to be construed to imply any warranty on the material quantities or the character of material to be encountered, nor its adaptability for use in any manner or for any purpose other than bidding on the contract. Bidders are expected to examine the site of the work and make such independent investigations as they deem necessary.

Unless determination or class names is modified by words indicating appreciable amounts of the term GRAVELLY may be added to the class name. No. 200 sieve size is the approximate boundary between the terms coarse, medium, and fine when used to describe SAND, and between SILT and CLAY. See standard grain size limits.



B.M. # Tyler - Ang
Chiseled □ on curb on S.W. corner of Tyler & Angus
Elev. 298.97

305 + 88.91 P.O.C. R-23 =
316 + 86.74 P.O.T. R-20

317 + 78.02 P.O.T. R-20 =
306 + 66.83 P.O.T. R-20

318 + 99.02 P.O.T. R-20 =
1306 + 23.51 P.O.T. & Rte. 41

47 + 92.37 P.O.C. R-22 =
319 + 89.81 P.O.C R-20

℄ R-20 316 317 318 319 321

℄ R-23 305 306 307

℄ R-20 307 1306

℄ Route 41 1307 190

℄ R-22 47 48

B-1 B-2 B-3 B-4 B-5 B-6 B-7 B-8 B-9

Distance: 183.84 ft
Distance: 103.29 ft
Distance: 113.53 ft
Distance: 104.95 ft
Distance: 7.88 ft
Distance: 7.19 ft
Distance: 198.76 ft
Distance: 190.47 ft
Distance: 198.58 ft
Distance: 198.58 ft

AS BUILT
CORRECTIONS BY
CONTRACT NO.
DATE

PLAN
Scale : 1" = 20'

Approximate O. G. along ℄ R-20

16' Rt. "ER-20" 316+06
16' Rt. "ER-20" 317+07
1' Lt. "ER-20" 317+13
8' Rt. "ER-20" 317+95
7' Rt. "ER-20" 319+00
9' Lt. "ER-20" 319+01
19' Rt. "ER-20" 320+05
3' Lt. "ER-20" 320+11
2' Rt. "ER-20" 320+13

B-1 300 — Compact & dense light brown SANDY SILT & SILTY coarse SAND with surficial scattered FILL GRAVEL - 3" maximum GRAVEL) grading to Slightly compact dark brown SILTY coarse SAND & SANDY SILT.
Very dense orange-brown partly cemented SANDY SILT grading through dense brown SILTY SAND.
Compact tan & light gray clean poorly sorted SAND.
Dense interbedded light gray clean poorly sorted SAND & red-brown poorly sorted SAND with SILTY CLAY binder.
Very stiff brownish-red SILTY CLAY grading to red-brown CLAYEY SILT.
Dense coarse SAND with CLAYEY SILT binder - some interbedded SANDY SILT.
Dense red-brown & buff SILT, CLAYEY SILT, & SILTY CLAY.
Dense to very dense interbedded red-brown SILTY CLAYEY SAND, SAND, & SANDY SILT - cemented between Elev. 294' - 293'
Compact buff & light gray SILT & very fine SAND, grading to dense buff & gray SILT & very fine SAND with some interbedded clean fine - medium SAND.
Dense gray clean poorly sorted SAND.
Dense to very dense buff to olive SILT - in part slightly cemented - grading through buff very fine SAND to tan & light gray clean poorly sorted SAND.
4-28-72

B-7 300 — Light brown SILTY SAND - dry
orange-brown partly cemented poorly sorted SILTY SAND - dry.
orange brown cemented SANDY SILT - damp
Dark brown to buff MICACEOUS SANDY SILT & SILTY poorly sorted SAND - damp.
Tan slightly SILTY MICACEOUS coarse SAND - damp - slightly cleaner & drier with depth.
olive to buff MICACEOUS SILT, SILTY SAND, SANDY SILT - moist to damp.
Light green - gray to brown slightly SILTY to clean MICACEOUS SAND - damp.
Dark red - brown SANDY SILT, SILT, CLAYEY SILT, & SILTY SAND.
Light gray - green to buff SILTY CLAY with cemented nodules - wet.
Buff MICACEOUS plastic CLAYEY SILT - damp - grades to SILT.
Brown to tan SILTY SAND.
Brown SILT.
9-12-72

B-2 299.5 — 100 — 700/6" 5-3-72 — ℄300/0.5 5-3-72
B-3 299.2 — 150/0.5 5-3-72
B-4 299.2 — 300/0.2 5-2-72
B-9 299.2 — 300/0.2 5-2-72
B-6 298.8 — ℄300/0.5 5-3-72
B-8 298.8 — ℄300/0.2 5-3-72
B-5 298.9 — ℄300/0.2 5-3-72

Distance: 0.87 in

Very dense to slightly compact brown slightly SILTY fine to coarse SAND - some slightly cemented lenses.
Very dense to dense orange-brown & red-brown coarse SAND with SILTY CLAY binder.
Compact to slightly compact light tan clean angular poorly sorted ARKOSIC SAND.
Dense light tan clean angular poorly sorted coarse to GRAVELLY SAND.
Dense tan slightly SILTY angular fine - medium SAND - slightly cemented.
Dense light brown clean fine SAND.
Very dense orange tan SANDY SILT - tan SILTY SAND.
Dense orange tan slightly cemented SANDY SILT.
Slightly compact buff & light gray SILT.
Slightly compact orange tan MICACEOUS SANDY SILT grading to dense buff & gray SILT.
Dense to very dense gray clean poorly sorted SAND.
Dense to very dense buff to olive SILT grading to slightly cemented tan SANDY SILT to gray clean fine poorly sorted SAND.

DIST.	COUNTY	ROUTE	POST MILES - TOTAL PROJECT	Sheet No.	Total Sheets
06	Fre	180, 168, 41	Var	699	1169

STRUCTURAL FOUNDATIONS BRANCH - ENGINEERING SERVICE CENTER
CERTIFIED ENGINEERING GEOLOGIST — 4-15-96 PLANS APPROVAL DATE

ROUTE 180 / 41 SEPARATION
LOG OF TEST BORINGS 4 OF 4

NOTE: THIS LOG OF TEST BORINGS IS AVAILABLE ON MICROFILM AT OFFICE OF STRUCTURES DESIGN SACRAMENTO, CALIFORNIA

CU: 06255 EA: 0257U1 BRIDGE No. 42-288R/L

SHEET 22 OF 22

REGISTERED GEOLOGIST
J.K. BOWMAN
No. 1677
Exp. 8-31-96
CERTIFIED ENGINEERING GEOLOGIST
STATE OF CALIFORNIA

NO GROUND WATER ENCOUNTERED DURING THIS INVESTIGATION BY BRIDGE DEPT. GEOLOGY SECTION DATE 9-72

Revised : Added Boring No. B-9 9-19-72 S. Kawamura

PROFILE
Scale : Horz. 1" = 20'
Vert. 1" = 10'

BRIDGE DEPARTMENT
ENGINEERING GEOLOGY SECTION

FIELD STUDY	by W. T. Nelson 5-72
DRAWN	by S. Kawamura 6-13-72
CHECKED	by W. T. Nelson 12-13-72

Approval Recommended by Robert G. Dewitt, Engineering Geologist
Certified Engineering Geologist No. 165

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ROUTE 180/41 SEPARATION

LOG OF TEST BORINGS

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-288 K	58.7	10	10	

WO 025621
CU 06200

Disregard prints bearing earlier revision dates

REVISION DATES (PRELIMINARY STAGE ONLY)
5/14/72 7/1/74

AS BUILT PLANS
Contract No. 06-025624

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA

22 of 22

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DIST.	COUNTY	ROUTE	POST MILES - TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	180			

CONTRACT NO. 06-025704

TRANSFER DATE: 01/08/2003
FIELD CORRECTION DATE: 04/16/1999

CORRECTIONS TRANSFERED BY: C. Fossett
FIELD CORRECTIONS BY: Rick Salinas

NO AS BUILT CORRECTIONS

JET BORING · CORE BORING · TEST PIT

IGNEOUS ROCK · SEDIMENTARY ROCK · METAMORPHIC ROCK

CLAY · SANDY CLAY or CLAYEY SAND · SANDY SILT or SILTY SAND

Soft	Loose
Stiff	Slightly compact
Very stiff	Compact
Hard	Dense
Very hard	Very dense

0-10	
10-20	
20-35	
35-70	
>70	

NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

GRAVELLY SAND. The terms coarse, medium, and fine when used to describe SAND and GRAVEL refer to standard grade size limits.

% SILT

PENETRATION BORING

Using a No. 2 Mckernon-Terry air hammer at 180 psi, or as noted

Boring date

Blows per foot of driving rate

ROTARY BORING

Using a 140 lb. hammer, 30" drop, or as noted

Unconfined compressive strength (T/sq ft)

Shear strength (T/sq ft)

Vane shear

Boring date

Sample taken

Description of material

Pulled pipe

Refusal

Boring date

1" SOIL TUBE

Distance: 0.98 in

BENCH MARK
See Sheet No. 1

47+92.37 P.O.C. R-22 =
319+89.81 P.O.C. R-20

1306+23.51 P.O.T. & Rte 41
318+99.02 P.O.T. R-20

47+92.37 P.O.C. R-22 =
319+89.81 P.O.C. R-20

317+77.99 P.O.T. R-20

℄ Route 41

LOL R-20

LOL R-22

℄ Hinge

B-5 · B-6 (42-288QL) · B-6 · B-7 · B-8 · B-9 · B-10 · B-12 · B-13 · B-15

Bent 5 · Bent 6 · Bent 7 · Bent 8

Abut 9

Approx. O.G. along LOLR-22

15' Rt. "R-22" 47+88 · 25' Lt. "R-22" 47+90 · 15' Rt. "R-22" 49+20 · 15' Rt. "R-22" 50+93 · 15' Rt. "R-22" 50+95 · On Line "R-22" 52+90 · 14' Rt. "R-22" 52+95 · 18' Rt. "R-22" 53+65 · 2' Rt. "R-22" 53+65 · 31' Rt. "R-22" 53+65

Distance: 72.79 ft · 89.76 ft · 381.92 ft · 504.88 ft · 39.90 ft · 54.95 ft

PLAN
Scale: 1" = 50'

Note: Source of information taken from General Plan Dated: 1-17-72

PROFILE
Scale: Horz. 1" = 30'
Vert. 1" = 10'

NO GROUND WATER ENCOUNTERED DURING THIS INVESTIGATION BY BRIDGE DEPT. GEOLOGY SECTION
DATE 9-72

REGISTERED GEOLOGIST · J. K. BOWMAN · No. 1677 · Exp. 8-31-96 · CERTIFIED ENGINEERING GEOLOGIST · STATE OF CALIFORNIA

DIST.	COUNTY	ROUTE	POST MILES - TOTAL PROJECT	Sheet No.	Total Sheets
06	Fre	180, 168, 41	Var	698	1169

STRUCTURAL FOUNDATIONS BRANCH - ENGINEERING SERVICE CENTER

CERTIFIED ENGINEERING GEOLOGIST — 4-15-96 PLANS APPROVAL DATE

ROUTE 180/41 SEPARATION

LOG OF TEST BORINGS 3 OF 4

NOTE: THIS LOG OF TEST BORINGS IS AVAILABLE ON MICROFILM AT OFFICE OF STRUCTURES DESIGN SACRAMENTO, CALIFORNIA

CU: 06255
EA: 025701

BRIDGE No. 42-288 R/L

SHEET	OF
21	22

BRIDGE DEPARTMENT
ENGINEERING GEOLOGY SECTION

FIELD STUDY	by W.T. Nelson 5-72
DRAWN	by S.T. Kawamura 8-14-72
CHECKED	by W.T. Nelson 1-17-73

Approval Recommended by _____ Engineering Geologist

Certified Engineering Geologist No. _____

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

NORTH CONNECTOR OVERCROSSING

LOG OF TEST BORINGS (2 of 2)

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-289	58.6			

REVISION DATES (PRELIMINARY STAGE ONLY)

9/20/72

WO 025621
CU 06202

Disregard prints bearing earlier revision dates →

BRIDGE ENGINEER _____ REGISTERED CIVIL ENGINEER NO. 5555

DATE APPROVED _____

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CONTRACT NO: 06-025704

TRANSFER DATE: 01/08/2003
FIELD CORRECTION DATE: 04/16/1999

CORRECTIONS TRANSFERRED BY: C. Fossett
FIELD CORRECTIONS BY: Rick Salinas

AS BUILT CORRECTIONS

JET BORING
CORE BORING
TEST PIT

SEDIMENTARY ROCK
METAMORPHIC ROCK

SANDY CLAY or CLAYEY SAND
SANDY SILT or SILTY SAND

Stiff
Very stiff
Hard
Very hard

Slightly compact
Compact
Dense
Very dense

10-20
20-35
35-70
>70

NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

Terms coarse, medium, and fine when used to describe SAND, SILT, and GRAVEL refer to standard grade size limits.

CLAY, SANDY CLAY, SILTY CLAY
SILTY SAND, CLAYEY SAND
SILT
SAND
GRAVEL

PENETRATION BORING
Boring data
Sample taken
Retained
Pulled pipe
Boring data
1" SOIL TUBE

ROTARY BORING
Boring data
Shear strength (lb/sq ft)
Vane shear
Elev. Change in material
Conformable material change
Estimated material change
Unconformable material change
Boring data
Hammer with a 140 lb. wt. falling 30" (or as noted) to drive a 2" O.D. (1 3/8" I.D.) split spoon sampler (or as noted) for a distance of 12" (or as noted) after a seating of 6" (or as noted). Sampler driven by a 300 lb. wt. falling 30" (or as noted).

DIST. 06 | COUNTY Fre | ROUTE 180 | POST MILES—TOTAL PROJECT | SHEET NO. | TOTAL SHEETS

BRIDGE ENGINEER — REGISTERED CIVIL ENGINEER NO. 44441
DATE APPROVED

B.M. # Tyler - Ang.
Chiseled "a" on curb at S.W. Cor. of Tyler & Angus
Elev. 298.97

℄ Route 180
844
46 + 28.88 P.O.C. R-22 =
845 + 96.12 P.O.T ℄ 180
LOL R-22
℄ 44
℄ 45
℄ 46
℄ 47
℄ 48
℄ 49
℄ Hinge
℄ Bent 3
℄ Bent 4
℄ Bent 5
Abut 1
Abut 5
B-1
B-2
B-3
B-4
B-5
B-8 (#42-288QL)
B-11
B-14
B-16
Distance:
335.41 ft
150.88 ft
149.12 ft
157.73 ft
14 Rt. "R-22" 42+99
27 Rt. "R-22" 42+90
15 Rt. "R-22" 42+99
15 Rt. "R-22" 44+82
13 Rt. "R-22" 44+84
46 Rt. " R-22" 44+87
14 Rt. "R-22" 46+52
10 Lt. "R-22" 47+72
13 Lt. "R-22" 47+76
3 Rt. "R-22" 47+88
Approximate O.G. along LOL R-22.

PLAN
Scale : 1" = 50'

PROFILE
Scale : Horz. 1" = 30'
Vert. 1" = 10'

Compact light brown SILTY SAND. Very dense orange - brown cemented SANDY SILT.
Compact brown poorly sorted SILTY SAND grading to poorly sorted clean SAND
Very dense to dense orange - brown partly cemented SANDY SILT.
Compact & dense light orange - brown slightly SILTY poorly sorted angular SAND.
Dense greenish - brown CLAYEY SILT partly cemented from Elev. 270± - 270±
Compact & dense light orange - brown interbedded layers of medium, coarse, & GRAVELLY coarse SAND.
Very stiff reddish - brown SILTY CLAY grading to
Dense buff & rust - brown partly cemented SILT.
Dense orange - brown SILTY SAND.
Interbedded very stiff red CLAY & compact brown slightly cemented SILT.
Dense to very dense gray - green SILT (rock flour type) grading to
Very dense greenish - gray very well sorted fine SAND.
Compact gray poorly sorted angular clean SAND.
Very dense yellow - green CLAYEY, SILTY cemented SAND.
5-11-72

Slightly compact light brown SILTY SAND.
Dense brown partly cemented SANDY SILT.
Slightly compact gray poorly sorted SAND.
Very dense buff partly cemented SANDY SILT grading to
Dense to compact light brown poorly sorted clean SAND.
Very dense buff - brown CLAYEY SILT partly cemented from Elev. 273± to 273±.
Dense light brown poorly sorted SAND.
Dense brown SANDY SILT with CLAY binder to brown SILTY SAND.
Dense dark green & red - brown dessicated CLAYEY SILT & CLAYEY SAND.
Very dense buff & rust brown SILT to reddish SILTY CLAY.
Very dense orange brown SILTY SAND.
Very dense gray - green SILT (rock flour type) grading to
Dense light brown fine clean SAND.
Very dense gray poorly sorted angular clean SAND grading to
Very dense gray well graded MICACEOUS fine clean SAND.
Dense to very dense green CLAYEY SILTY cemented SAND.
Very dense greenish SILT. (rock flour type)
Very dense gray well sorted coarse clean SAND.
5-16-72

Light brown SANDY SILT & SILTY SAND partly cemented @ El 291± - 120±
Light brown, gray poorly sorted fine - coarse - SAND - slightly SILTY & dry - runs freely.
Orange - SANDY SILT grading to stiff - coarse SAND - dry to damp
Orange - slightly SILTY coarse poorly sorted MICACEOUS SAND - very firm - fair - SILT lenses - damp
Light brown limp - cemented SANDY SILT - dry.
Brown SILTY poorly sorted MICACEOUS SAND grading to stiff SILTY SAND & SANDY SILT
Green - brown MICACEOUS SILT & CLAYEY SILT - damp - rust brown SILTY CLAY layer between el 261± - 260±
Note : Drilled between el 292± to 289± & 284± to 277±. 12" caved material while drilling @ 272± - typical - cleaned out while drilling 4 timer layers.
9-14-72
300/0± 5-9-72
300/0± 5-3-72

Dense to slightly compact brown slightly SILTY fine to coarse SAND - some slight cemented lenses.
Very dense to dense orange - brown & red - brown coarse SAND with SILTY CLAY binder.
Compact to slightly compact light tan clean angular poorly sorted ARKOSIC SAND.
Dense light tan clean angular poorly sorted coarse to GRAVELLY SAND
Dense tan slightly SILTY angular fine - medium SAND - slightly cemented.
Dense light brown clean fine SAND.
Very dense to dense orange tan SANDY SILT & tan SILTY SAND.
Dense orange tan slightly cemented SANDY SILT.
Slightly compact buff & light gray SILT.
Slightly compact orange tan MICACEOUS SANDY SILT grading to dense buff & gray SILT.
Dense to very dense gray clean poorly sorted SAND.
Dense to very dense buff to olive SILT grading to slightly cemented tan SANDY SILT to gray clean fine poorly sorted SAND
5-4-72
629/0± 5-9-72

NO GROUND WATER ENCOUNTERED DURING THIS INVESTIGATION BY BRIDGE DEPT. GEOLOGY SECTION
DATE 9-72

Note : Source of information taken from General Plan Dated : 1-17-72

DIST.	COUNTY	ROUTE	POST MILES - TOTAL PROJECT	Sheet No.	Total Sheets
06	Fre	180, 168, 41	Var	697	1169

STRUCTURAL FOUNDATIONS BRANCH - ENGINEERING SERVICE CENTER

CERTIFIED ENGINEERING GEOLOGIST — 4-15-96 PLANS APPROVAL DATE

ROUTE 180/41 SEPARATION

LOG OF TEST BORINGS 2 OF 4

NOTE: THIS LOG OF TEST BORINGS IS AVAILABLE ON MICROFILM AT OFFICE OF STRUCTURES DESIGN SACRAMENTO, CALIFORNIA

CU: 06255 EA: 0257U1

BRIDGE No. 42-288 R/L

SHEET 20 OF 22

REGISTERED GEOLOGIST — J. K. BOWMAN — No. 1677 — Exp. 8-31-96 — CERTIFIED ENGINEERING GEOLOGIST — STATE OF CALIFORNIA

BRIDGE DEPARTMENT
ENGINEERING GEOLOGY SECTION

FIELD STUDY	by W.T. Nelson 5-72
DRAWN	by S.T. Kawamura 8-10-72
CHECKED	by W.T. Nelson 1-17-73

Approval Recommended by _____ Engineering Geologist
Certified Engineering Geologist No. _____

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

NORTH CONNECTOR OVERCROSSING

LOG OF TEST BORINGS (1 of 2)

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-289	58.6			

REVISION DATES (PRELIMINARY STAGE ONLY)
9/10/72

WO 025621
CU 06202

Disregard prints bearing earlier revision dates →

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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	180, 168, 41	Var	696	1169

REGISTERED ENGINEERING GEOLOGIST

REGISTERED GEOLOGIST — J. K. BOWMAN — No. 1677 — Exp. 8-31-96 — CERTIFIED ENGINEERING GEOLOGIST — STATE OF CALIFORNIA

4-15-96
PLANS APPROVAL DATE

CONTRACT NO: 06-025704

TRANSFER DATE: 01/08/2003
FIELD CORRECTION DATE: 04/6/1999

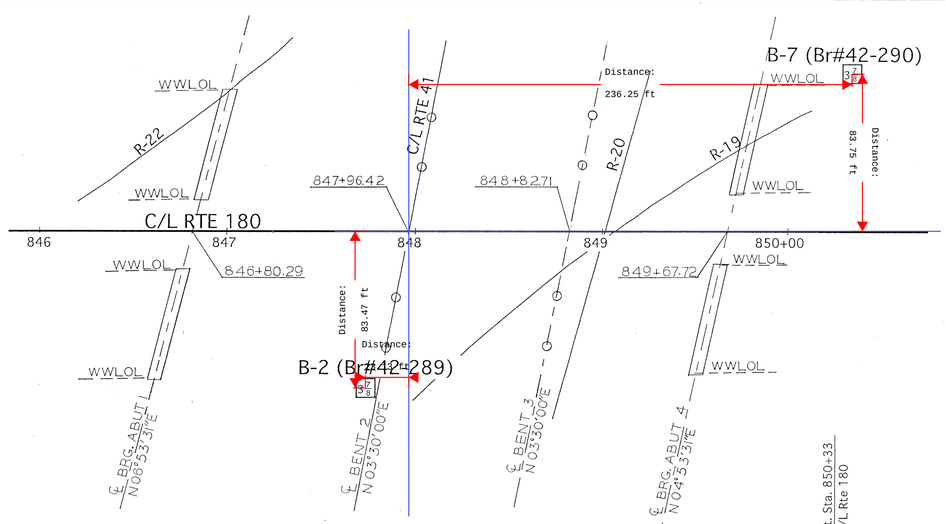
CORRECTIONS TRANSFERED BY: C. Fassett
FIELD CORRECTIONS BY: Rick Salinas

NO AS BUILT CORRECTIONS

BENCH MARK

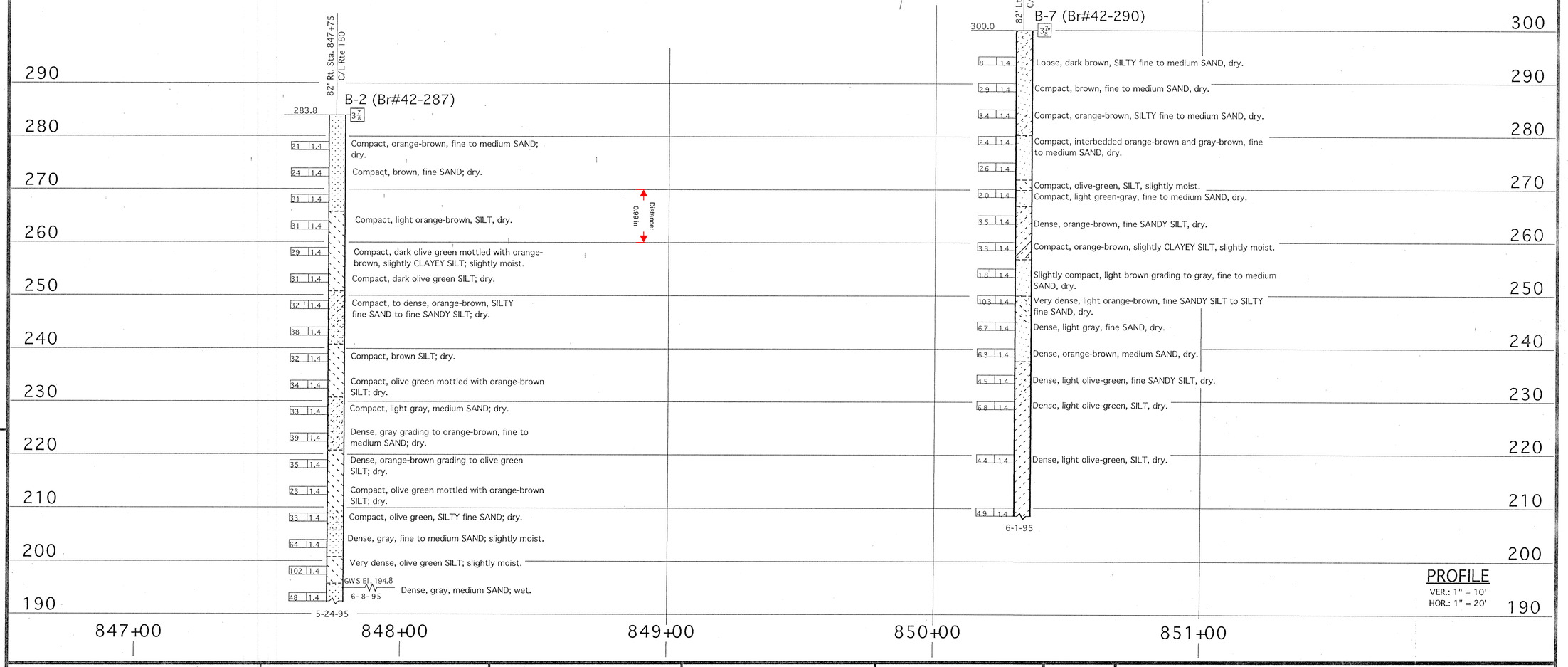
FD BR RP#337 1" IP WITH PLASTIC CAP 220.179' RT. OF STA. 856+56.707 POT C/L RTE 180. ELEV. 298.82

FD TLI 113 IN SHOULDER ABOUT 400' S OLIVE WEST SIDE FWAY ELEV. 309.15



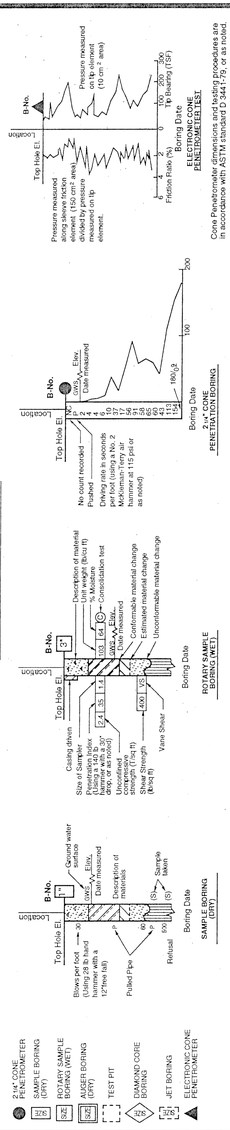
PLAN
1" = 40'

NOTE:
E = BLOW COUNT FOR ONE FOOT PENETRATION EXTRAPOLATED FROM BLOW COUNT FOR LESS THAN ONE FOOT (DUE TO CHANGE IN MATERIAL OR HARD DRIVING).



PROFILE
VER.: 1" = 10'
HOR.: 1" = 20'

LEGEND OF BORING OPERATIONS



LEGEND OF EARTH MATERIALS

GRAVEL · SAND · SILT · CLAY · SANDY CLAY or CLAYEY SAND · SANDY SILT or SILTY SAND · SILTY CLAY · CLAYEY SILT · PEAT and/or ORGANIC MATTER · FILL MATERIAL · IGNEOUS ROCK · SEDIMENTARY ROCK · METAMORPHIC

CONSISTENCY CLASSIFICATION FOR SOILS

According to the Standard Penetration Test

Penetration Index (Blows / Ft)	Granular	Cohesive
0-4	Very Loose	Very Soft
5-9	Loose	Soft
10-19	Slightly compact	Stiff
20-34	Compact	Very Stiff
35-69	Dense	Hard
>70	Very Dense	Very Hard

NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

ENGINEERING SERVICE CENTER	STRUCTURE FOUNDATIONS
DRAWN BY: Ken Wahl 8/95	
CHECKED BY:	

FIELD INVESTIGATION BY: J. BOWMAN

State of CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN

BRIDGE NO. 42-288 R/L
POST MILE R58.7

ROUTE 180/41 SEPARATION
LOG OF TEST BORINGS 1 OF 4

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS → 0 1 2 3

CU: 06255
EA: 0257U1

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)										SHEET	OF
										19	22

TL 6051 REV. 5/95

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AS BUILT CORRECTIONS

CONTRACT NO: 06-025704

TRANSFER DATE: 01/08/2003
FIELD CORRECTION DATE: 04/16/1999

CORRECTIONS TRANSFERED BY: C. Fossett
FIELD CORRECTIONS BY: Rick Salinas

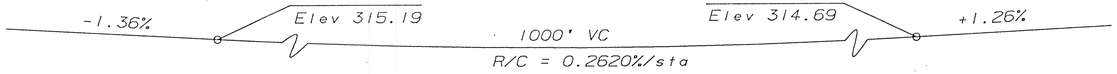
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	180, 41	Var	678	1169

Yong P. Kim
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER
YONG PIL KIM
No. 48365
Exp. 6-30-96
CIVIL
STATE OF CALIFORNIA

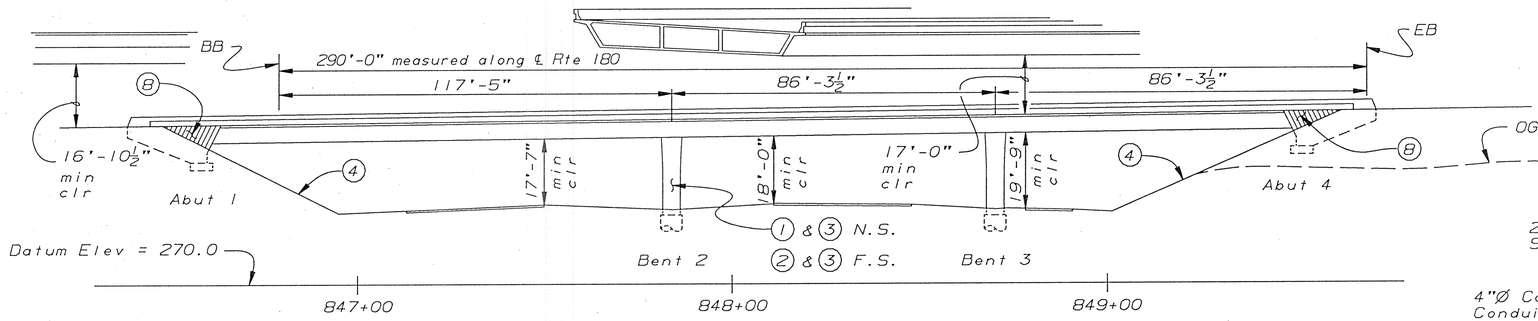
4-15-96
PLANS APPROVAL DATE

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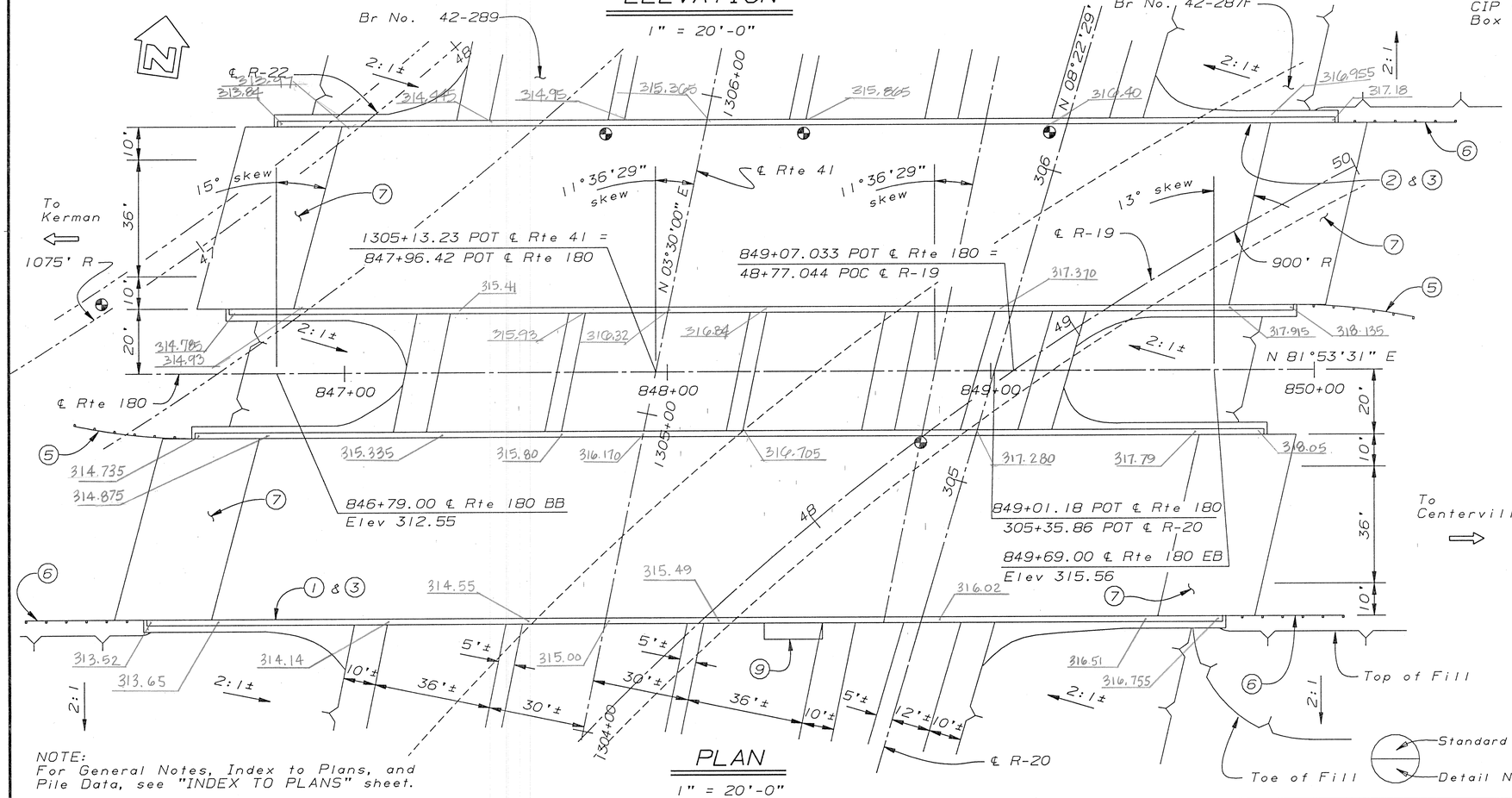
PROFILE GRADE

No Scale



ELEVATION

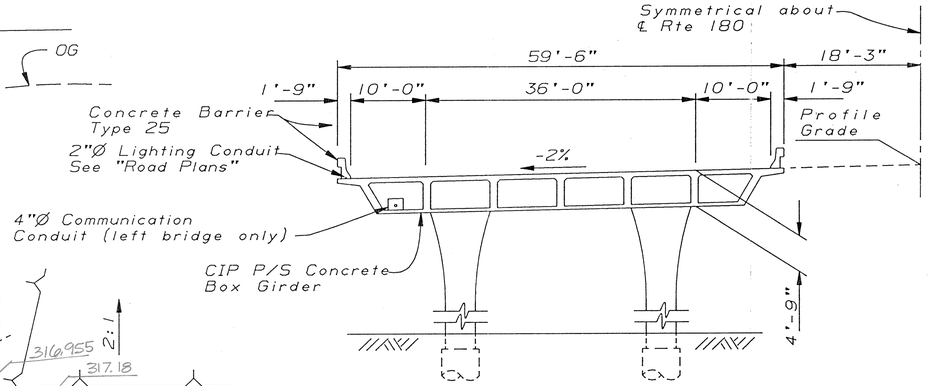
1" = 20'-0"



NOTE:
For General Notes, Index to Plans, and Pile Data, see "INDEX TO PLANS" sheet.

PLAN

1" = 20'-0"



TYPICAL SECTION

1" = 10'-0"

Notes:

1. Paint "Br No 42-288 R"
2. Paint "Br No 42-288 L"
3. Paint "Route 180/41 Sep"
4. Full Slope Paving
5. MBGR (flared), see "Road Plans"
6. MBGR (continuous), see "Road Plans"
7. Structure Approach Type N(30S)
8. Architectural Treatment
9. Bridge Mounted Sign, see "Road Plans"

● Points of minimum vertical clearance

Standard Plan Sheet No.
Detail No.

QUANTITIES

STRUCTURE EXCAVATION (BRIDGE)	1,165	CY
STRUCTURE BACKFILL (BRIDGE)	916	CY
60" CAST-IN-DRILLED-HOLE CONCRETE PILING	532	LF
PRESTRESSING CAST-IN-PLACE CONCRETE	LUMP	SUM
STRUCTURAL CONCRETE, BRIDGE FOOTING	152	CY
STRUCTURAL CONCRETE, BRIDGE	2,640	CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N)	260	CY
RIPPED TEXTURE (REINFORCING BAR)	1,710	SQFT
JOINT SEAL (TYPE B-MR 2")	245	LF
BAR REINFORCING STEEL (BRIDGE)	688,800	LB
SLOPE PAVING (CONCRETE)	150	CY
CONCRETE BARRIER (TYPE 25)	1,327	LF

DESIGN ENGINEER

	BY	CHECKED
DESIGN	Pat Preston 4-95	Yong Pil Kim 7-95
DETAILS	David Forbes 7-95	Yong Pil Kim 7-95
QUANTITIES	Robert Zezoff 7-95	Gonzalo Otero 7-95

LOAD FACTOR DESIGN
LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD

	BY	CHECKED
LAYOUT	Pat Preston 7-93	Yong Pil Kim 7-93
SPECIFICATIONS	J. Dempsey	PLANS AND SPECS COMPARED

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 8

CU 06255
EA 0257U1

BRIDGE NO. 42-288 R/L
POST MILE R58.7

ROUTE 180/41 SEPARATION
GENERAL PLAN

DS OSD 2138 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 8-18-93 | 8-30-93 | 1-24-94 | 6-1-94 | 7-20-95 | 7-31-95 | 8-14-95 | 9-27-95 | 11-16-95 | 11-22-95

SHEET 1 OF 22

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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	180, 168, 41	Var	690	1169

Yong P. Kim
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — Yong Pil Kim, No. 48365, Exp. 6-30-96, CIVIL — STATE OF CALIFORNIA

4-15-96
PLANS APPROVAL DATE

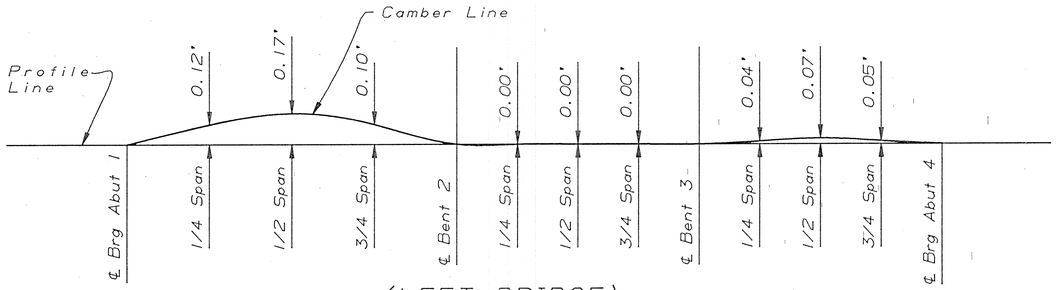
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CONTRACT NO: 06-0257U4

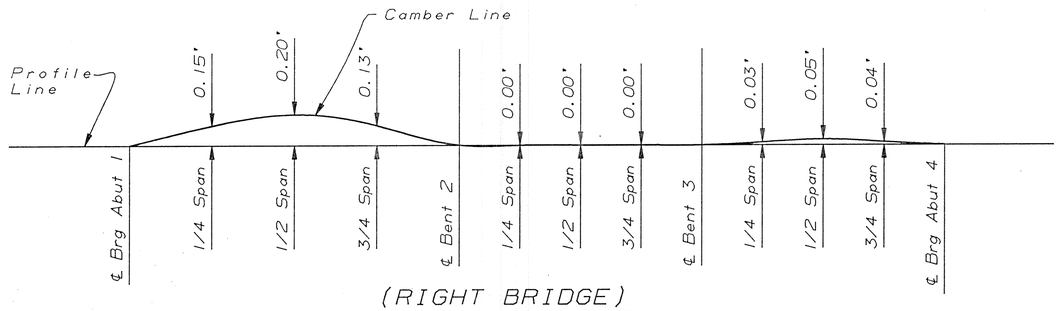
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FIELD CORRECTION DATE: 04/16/1999

CORRECTIONS TRANSFERED BY: C. Fassett
FIELD CORRECTIONS BY: Rick Salinas

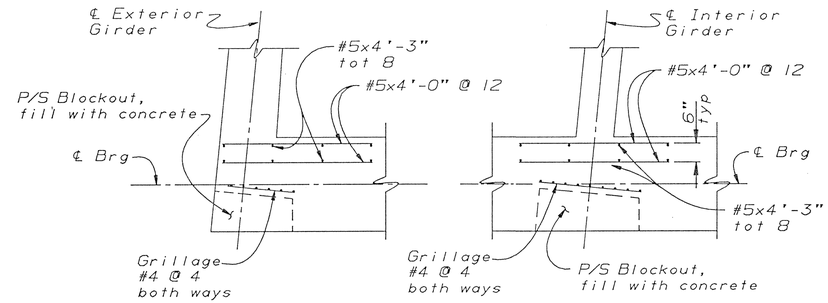
NO AS BUILT CORRECTIONS



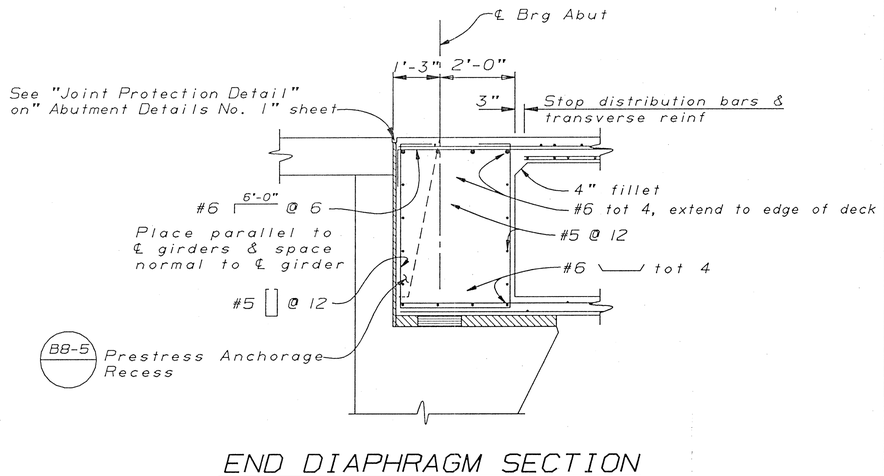
(LEFT BRIDGE)
CAMBER DIAGRAM
NO SCALE
(Does not include allowance for falsework settlement)



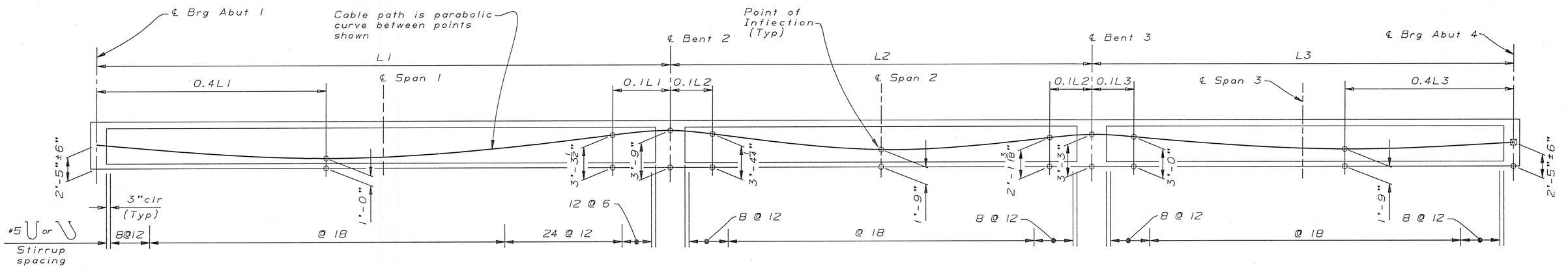
(RIGHT BRIDGE)
CAMBER DIAGRAM
NO SCALE
(Does not include allowance for falsework settlement)



PLAN-PRESTRESS BLOCKOUT
B8-5
½" = 1'-0"



END DIAPHRAGM SECTION
½" = 1'-0"



LONGITUDINAL SECTION
NO SCALE

LEGEND
⊠ *Indicates point of no movement for stressing from Abutment 1 end.*

	BY		CHECKED	
DESIGN	Pat Preston	4-95	Yong Pil Kim	7-95
DETAILS	Roberta Lim	7-95	Yong Pil Kim	7-95
QUANTITIES	Robert Zezoff	7-95	Gonzalo Otero	7-95

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 8

CU 06255
EA 0257U1

BRIDGE NO. 42-288 R/L
POST MILE R58.7

ROUTE 180/41 SEPARATION
LONGITUDINAL SECTION

OS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 7-18-95, 8-5-95

SHEET 13 OF 22

ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	180, 168, 41	Var	692	1169

REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — YONG PIL KIM — No. 48365 — Exp. 6-30-96 — CIVIL — STATE OF CALIFORNIA

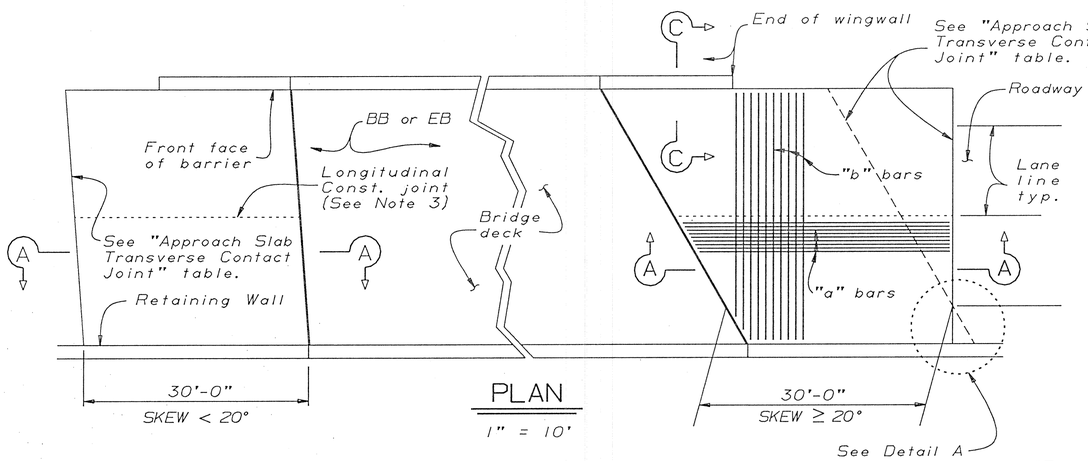
4-15-96
PLANS APPROVAL DATE

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TRANSFER DATE: 01/08/2003 FIELD CORRECTION DATE: 04/16/1999 CONTRACT NO: 06-0257U4

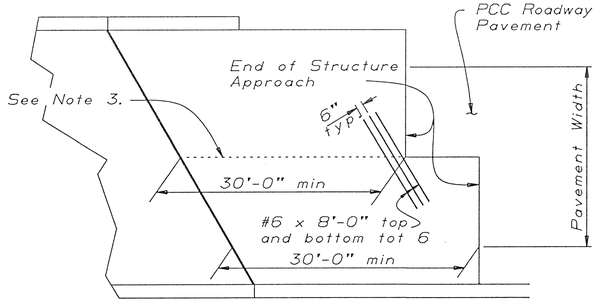
CORRECTIONS TRANSFERED BY: C. Fossett FIELD CORRECTIONS BY: Rick Sallnas

NO AS BUILT CORRECTIONS



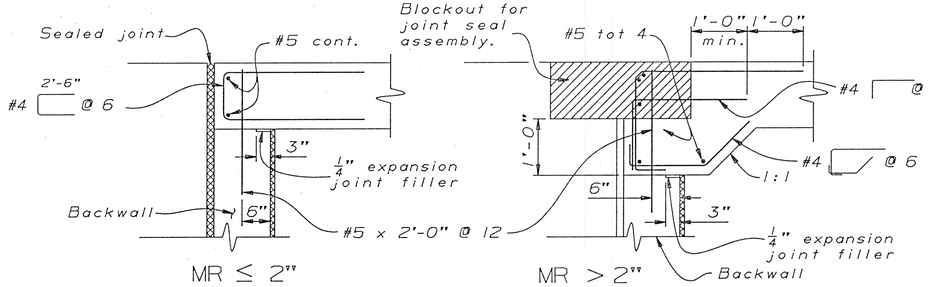
PLAN

1" = 10'



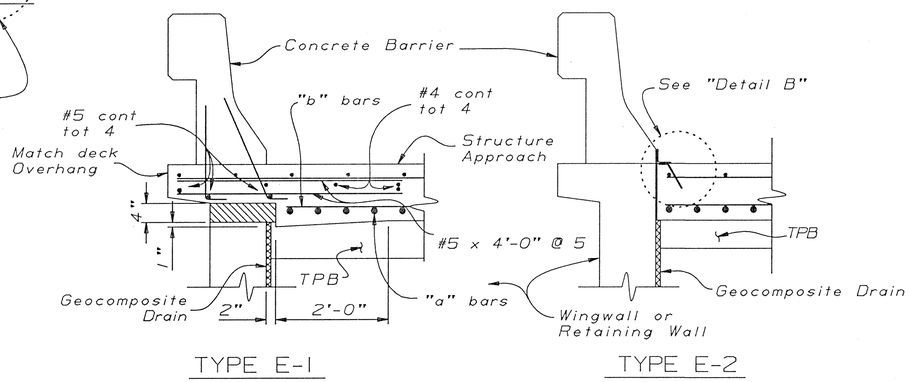
STRUCTURE APPROACH - END STAGGER DETAIL

No Scale



SEAT TYPE ABUTMENT TIE DETAILS (SEE NOTE 1)

3/4" = 1'-0"

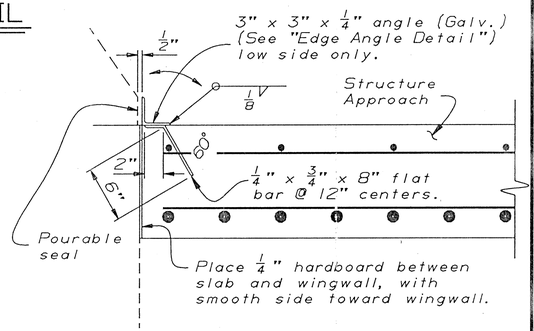


TYPE E-1 TYPE E-2

SECTION C-C

3/4" = 1'-0"

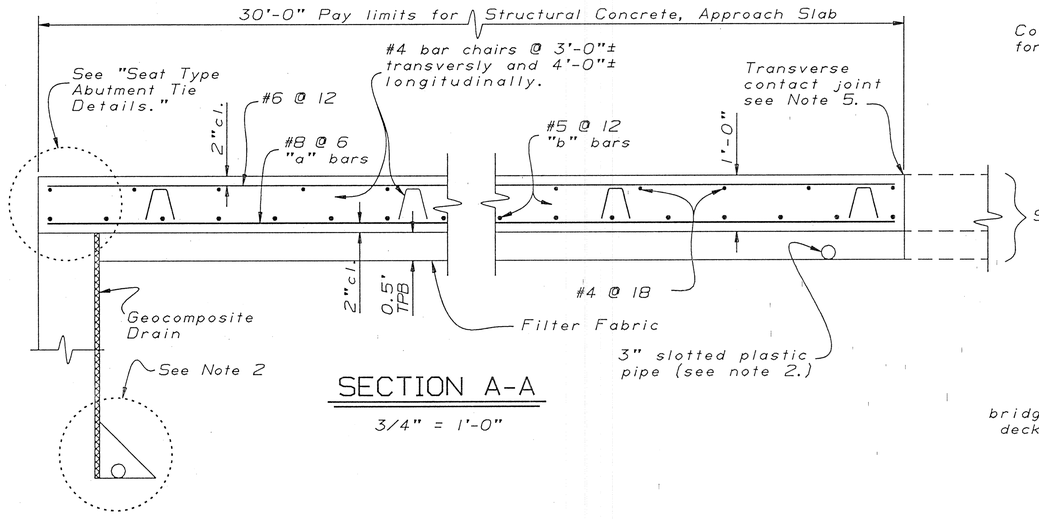
(TYPE E-1 TO BE USED, UNLESS OTHERWISE SHOWN ON PLANS)



DETAIL B

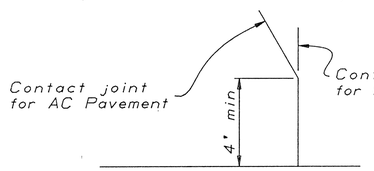
1/2" = 1'-0"

APPROACH SLAB TRANSVERSE CONTACT JOINT		
APPROACH SKEW	W/ AC ROADWAY PAVEMENT	W/ PCC ROADWAY PAVEMENT
< 20°	Parallel to face of paving notch	Parallel to face of paving notch
20° - 45°	Parallel to face of P N use (Detail A)	Stagger lines 24' to 36' apart.
> 45°	Parallel to face of P N use (Detail A)	Stagger at each lane line.



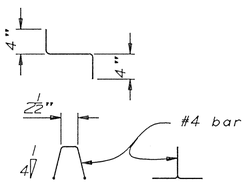
SECTION A-A

3/4" = 1'-0"



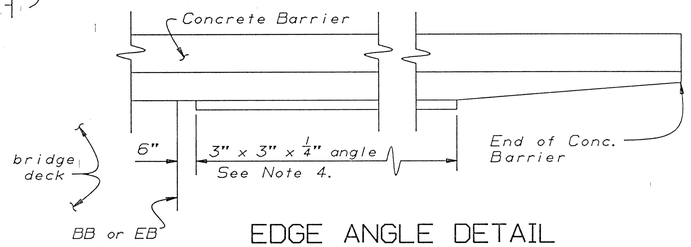
DETAIL A

No Scale



BAR CHAIR DETAIL

1" = 1'-0"



EDGE ANGLE DETAIL

1/2" = 1'-0"

NOTES

1. *For details not shown, see Structure Plans. For MR ≤2", adjust bar reinforcement to clear a sawcut for sealed joint, when required.*
2. *For drainage details, see "Structure Approach Drainage Details" sheet.*
3. *Longitudinal Construction Joints, when permitted by the Engineer, shall be located on lane lines.*
4. *End angle at beginning of barrier transition, end of wingwall or end of structure approach, as applicable.*
5. *For transverse contact joint with new PCC paving, refer to Standard Plan A35-A.*
6. *At the Contractor's option, approach slab transverse reinforcement may be placed parallel to paving notch. Spacing of transverse reinforcement is measured along ℄ roadway.*

▨ *Remove all polystyrene.*

STANDARD DRAWING

FILE NO. XS 22-18	DESIGN BY M. Traffalis	CHECKED E. Thorkildsen	APPROVAL RECOMMENDED BY Rick Sallnas
DRAWING DATE 8/92	DETAILS BY J. F. Casarino	CHECKED E. Thorkildsen	DESIGN SUPERVISOR
	SUBMITTED BY M. Ha		

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 8

BRIDGE NO.	42-288R/L
POST MILE	R58.7

ROUTE 180/41 SEPARATION
STRUCTURE APPROACH TYPE N(30S)

DS 050 2147A (CADD 5/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06255
EA 0257U1

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 7-10-95 8-5-95 11-11-95

SHEET 15 OF 22

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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	180, 168/41	Var	604	1169

M Yoshimoto 12-08-95
REGISTERED ELECTRICAL ENGINEER DATE

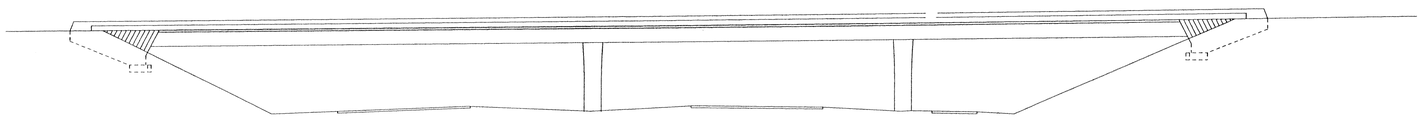
4-15-96
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
M YOSHIMOTO
No. 6002
Exp. 9-30-98
ELECTRICAL
STATE OF CALIFORNIA

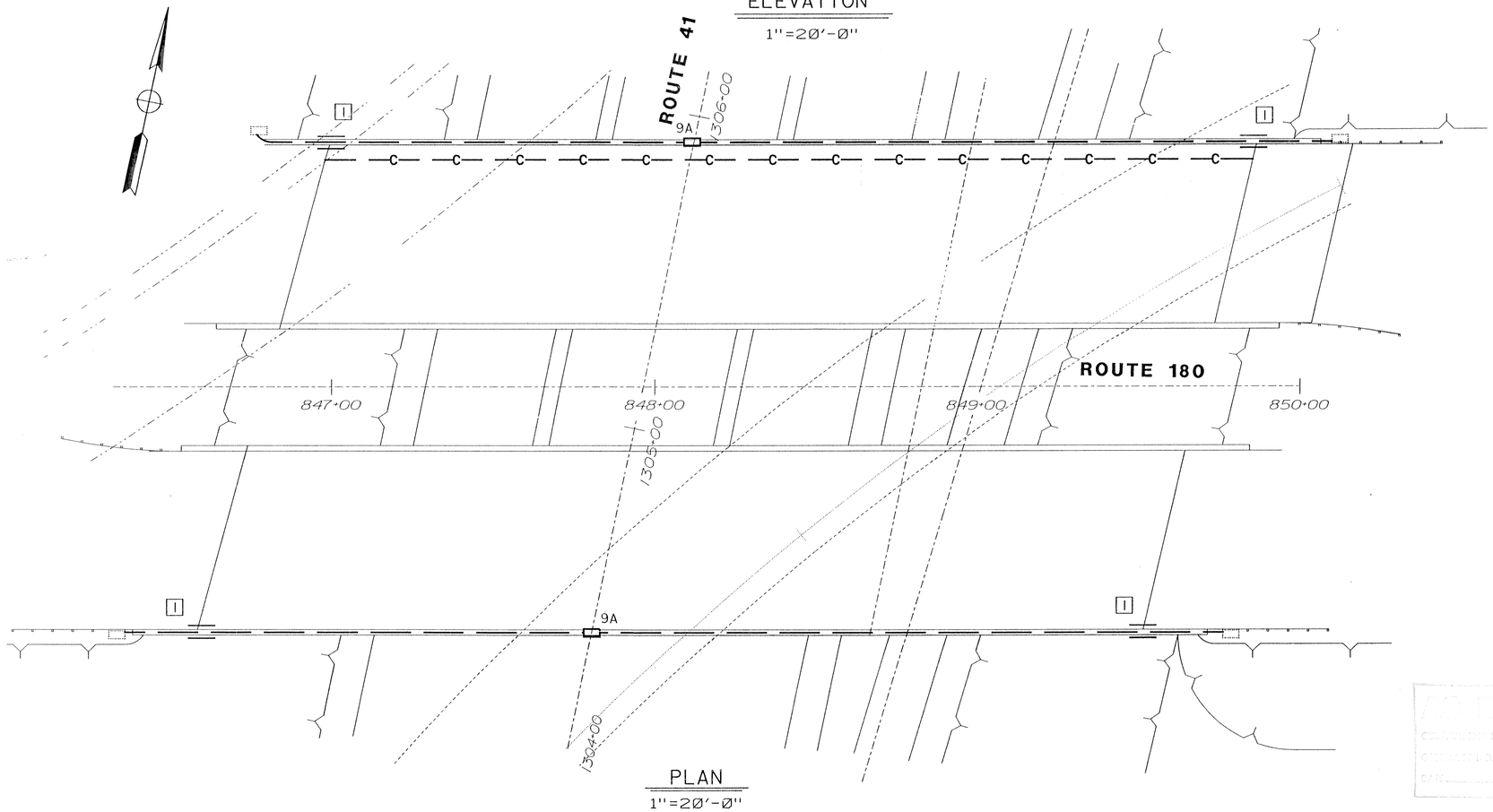
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CONTRACT NO: 06-025104
TRANSFER DATE: 01/08/2003
FIELD CORRECTION DATE: 04/16/1999
CORRECTIONS TRANSFERED BY: C. Fossett
FIELD CORRECTIONS BY: Rick Salinas

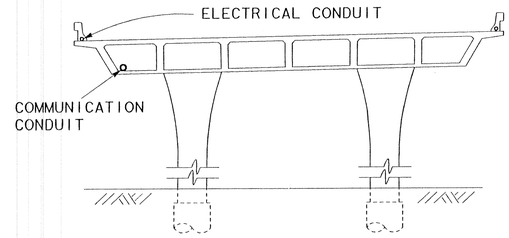
NO AS BUILT CORRECTIONS



ELEVATION
1"=20'-Ø"



PLAN
1"=20'-Ø"



TYPICAL SECTION
1"=1Ø'-Ø"

PROJECT NOTES

1. [I] DETAIL X, CONDUIT EXPANSION FITTING.
2. 2" CONDUIT THROUGHOUT UNLESS OTHERWISE STATED.
3. ALL COMMUNICATION CONDUIT SHALL BE 4" WITH PULL ROPE UNLESS OTHERWISE STATED.

AS BUILT
CORRECTED BY: E. J Abercrombie
CONTRACT NO.: 06-025104
DATE: 5/99

THIS IS A COPY
NOT AN ORIGINAL

E-49

DESIGN	BY D L GOMEZ	CHECKED	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO. 42-288 R/L
DETAILS	BY	CHECKED	LAYOUT	BY	CHECKED		POST MILE R58.7
QUANTITIES	BY	CHECKED	SPECIFICATIONS	BY	PLANS AND SPECS COMPARED	CU 06255 EA 0257U1	DISREGARD PRINTS BEARING EARLIER REVISION DATES

D L GOMEZ
DESIGN ENGINEER

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

ROUTE 180/41 SEPARATION
BRIDGE ELECTRICAL

REVISION DATES (PRELIMINARY STAGE ONLY) | SHEET | OF

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CONTRACT No. 06-025704

TRANSFER DATE: 01/08/2003
FIELD CORRECTION DATE: 04/16/1999

CORRECTIONS TRANSFERED BY: C.Fassett
FIELD CORRECTIONS BY: Rick Salinas

AS BUILT CORRECTIONS

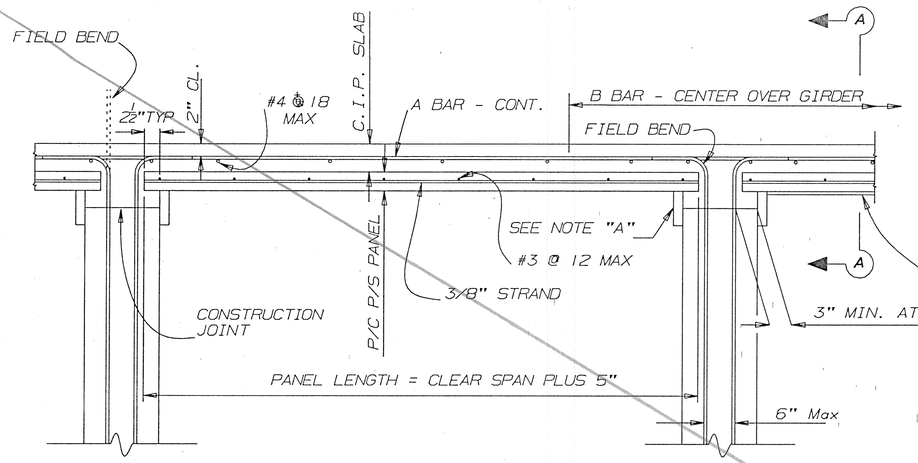
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	180, 168, 41	Var	694	1169

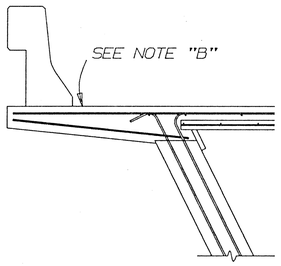
REGISTERED ENGINEER - CIVIL

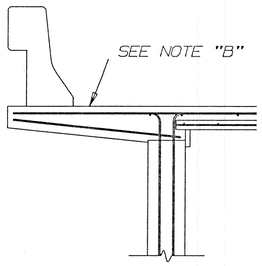
REGISTERED PROFESSIONAL ENGINEER — YONG PIL KIM — No. 48365 — Exp. 6-30-96 — CIVIL — STATE OF CALIFORNIA

4-15-96
PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

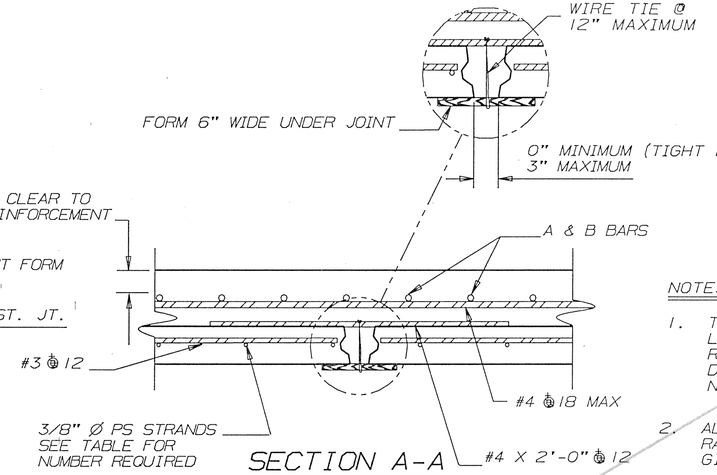




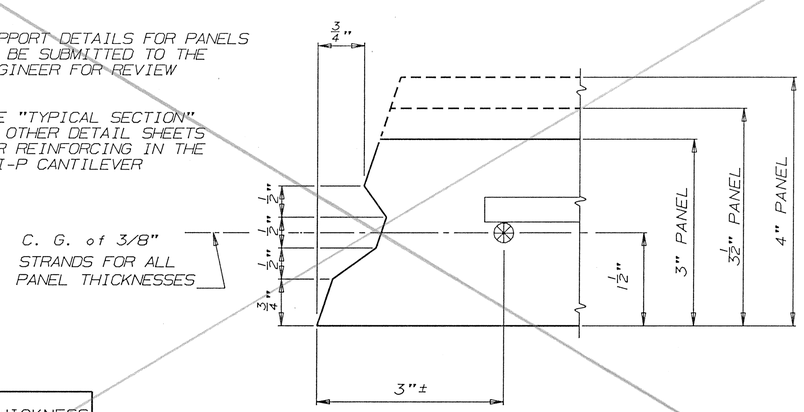


NOTE "A" - SUPPORT DETAILS FOR PANELS TO BE SUBMITTED TO THE ENGINEER FOR REVIEW

NOTE "B" - SEE "TYPICAL SECTION" ON OTHER DETAIL SHEETS FOR REINFORCING IN THE C-I-P CANTILEVER



SECTION A-A



EDGE DETAIL

This option Not used
Conventional CIP
Construction used

ALL PANELS				3" PANEL THICKNESS PANEL WT = 39#/SF					3 1/2" PANEL THICKNESS PANEL WT = 45#/SF					4" PANEL THICKNESS PANEL WT = 52#/SF				
				C.I.P. SLAB THICKNESS (IN)		MIN. NO. OF 3/8" STRAND IN PANEL WIDTH			C.I.P. SLAB THICKNESS (IN)		MIN. NO. OF 3/8" STRAND IN PANEL WIDTH			C.I.P. SLAB THICKNESS (IN)		MIN. NO. OF 3/8" STRAND IN PANEL WIDTH		
SPAN ℄ Girder to ℄ Girder	TOTAL SLAB THICKNESS (IN)	"A" BARS IN TOP OF C.I.P. SLAB CONT.	"B" BARS IN TOP OF C.I.P. SLAB SHORT BARS	●		4'	6'	8'	●		4'	6'	8'	●		4'	6'	8'
6'-0"	7 1/2"	#5@12	3'-10"	11	4 1/2"	6	9	12										
6'-6"	7 1/2"	#5@12	4'-0"	11	4 1/2"	6	9	12										
7'-0"	7 1/2"	#5@12	4'-1"	11	4 1/2"	6	9	12										
7'-6"	7 1/2"	#5@12	4'-3"	11	4 1/2"	6	9	12										
8'-0"	7 5/8"	#5@12	4'-5"	14	4 5/8"	6	9	12	10	4 1/8"	6	9	12					
8'-6"	7 3/4"	#5@10	4'-7"	14	4 3/4"	7	10	14	10	4 1/4"	6	9	12					
9'-0"	8"	#5@10	4'-9"	14	5"	8	12	16	11	4 1/2"	6	9	12					
9'-6"	8 1/8"	#5@10	4'-10"	14	5 1/8"	9	13	17	14	4 5/8"	6	9	12					
10'-0"	8 3/8"	#5@10	5'-0"	14	5 3/8"	10	15	20	14	4 7/8"	7	10	13					
10'-6"	8 1/2"	#5@10	5'-2"	14	5 1/2"	11	16	22	14	5"	7	11	14					
11'-0"	8 5/8"	#6@12	5'-4"						14	5 1/8"	8	12	15	14	4 5/8"	6	9	12
11'-6"	8 7/8"	#6@12	5'-5"						14	5 3/8"	9	13	17	14	4 7/8"	7	10	13
12'-0"	9"	#6@12	5'-7"						14	5 1/2"	10	14	18	14	5"	7	10	14
12'-6"	9 1/8"	#6@12	5'-9"						14	5 5/8"	10	15	20	14	5 1/8"	8	11	15
13'-0"	9 3/8"	#6@12	5'-11"						14	5 7/8"	11	17	22	14	5 3/8"	9	12	16
13'-6"	9 1/2"	#6@12	6'-1"											14	5 1/2"	9	13	18
14'-0"	9 3/4"	#6@12	6'-3"											14	5 3/4"	10	15	19
14'-6"	9 7/8"	#6@12	6'-4"											14	5 7/8"	11	16	21
15'-0"	10 1/8"	#6@12	6'-6"											14	6 1/8"	12	17	22

"B" Bars to be centered over girders. Spacing and size to be the same as for "A" Bars. At exterior girder cantilevers use reinforcing shown on detail sheets.

● The maximum size longitudinal bar between top of panel and "A" Bars to provide 2" clearance at top of C-I-P slab. If larger clearance is required for environmental reasons, thicken slab.

NOTES:

1. THE CONTRACTOR SHALL SUBMIT FOR THE ENGINEER'S APPROVAL, LAYOUT AND DETAIL SHOP PLANS SHOWING ALL DIMENSIONS, STEEL REINFORCEMENT, LIFTING LOOPS, BAR CHAIRS, JOINT FORMS, 3/8" DIAMETER PRESTRESSING STRANDS AND CLEARANCES. DETAILS NOT SHOWN ON SHOP PLANS SHALL CONFORM TO THE CONTRACT PLANS.
2. ALL PRETENSIONED PANELS SHALL BE PLACED PERPENDICULAR OR RADIAL TO THE LONGITUDINAL POST-TENSIONED CAST-IN-PLACE GIRDERS.
3. ENDS OF THE PANELS SHALL BE NEATLY SAWED TO PROVIDE 2½" WIDE CONCRETE BEARING SURFACE ON THE CAST-IN-PLACE GIRDERS AND CAPS. WHEN PANELS ARE PLACED IN VARIABLE WIDTH BAYS, OR TRAPIZODIAL AND TRIANGULAR CORNERS, THEY SHALL BE SAWED TO FIT. ADJUST REINFORCING STEEL AT CAPS TO PROVIDE FOR THE 2½" BEARING SURFACE.
4. CAST-IN-PLACE BEARING CONCRETE THICKNESS UNDER THE PRETENSIONED PANEL ENDS SHALL BE NOT LESS THAN 2" DEEP OR MORE THAN 3" DEEP.
5. FOR USE WITH CAST-IN-PLACE POST-TENSIONED GIRDERS WITH 12" MIN. GIRDER STEMS.
6. FINISH ON TOP OF PANELS TO BE RAKED PARALLEL TO STRANDS, 1/4" AMPLITUDE.
7. THESE DETAILS ARE ALTERNATIVE TO THOSE SHOWN ON THE SUPERSTRUCTURE PLANS. DETAILS NOT SHOWN SHALL CONFORM TO THOSE DETAILS.
8. IF PANELS ARE TIGHT FIT, WIRE AND TIE FORMS ARE NOT REQUIRED.

DESIGN NOTES:

LIVE LOADING:

HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD IN ACCORDANCE WITH 1983 AASHTO AND ALL CURRENT INTERIM SPECIFICATIONS AND REVISIONS BY CALTRANS.

DESIGN INCLUDES 35 LBS. PER SQUARE FOOT FOR FUTURE WEARING SURFACE.

CONCRETE STRENGTH:

PRECAST PRETENSIONED PANELS: f'_c = 5000 PSI AT 28 DAYS; f'_{ci} = 4000 PSI AT RELEASE.

CAST-IN-PLACE DECK SLAB: f'_c = 4000 PSI AT 28 DAYS, OR AS REQUIRED ON "PRESTRESSING NOTES" FOR SUPERSTRUCTURE CONCRETE.

PRESTRESSING STEEL:

ALL STRANDS SHALL BE 3/8" DIAMETER LOW RELAXATION STEEL STRANDS WITH MINIMUM ULTIMATE STRENGTH f'_s = 270,000 PSI.

INITIAL JACKING FORCE PER 3/8" STRAND = 16,800 POUNDS.

STANDARD DRAWING

FILE NO. XS 12-73	DESIGN BY W.J. JURKOVICH	CHECKED E.G. POMEROY	APPROVAL RECOMMENDED BY
DRAWING DATE 5/93	DETAILS BY J. CHUBNA	CHECKED W.J. JURKOVICH	DIVISION CHIEF
	SUBMITTED BY W.J. JURKOVICH		

DS OSD 2147A (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 8

CU 06255
EA 0257U1

BRIDGE NO.	ROUTE 180/41 SEPARATION
42-288R/L	
POST MILE R58.7	PC P/S CONCRETE DECK PANELS FOR P/S BOX GIRDERS

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 7-18-95 | 8-5-95

SHEET 17 OF 22

ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	180, 168, 41	Var	691	1169

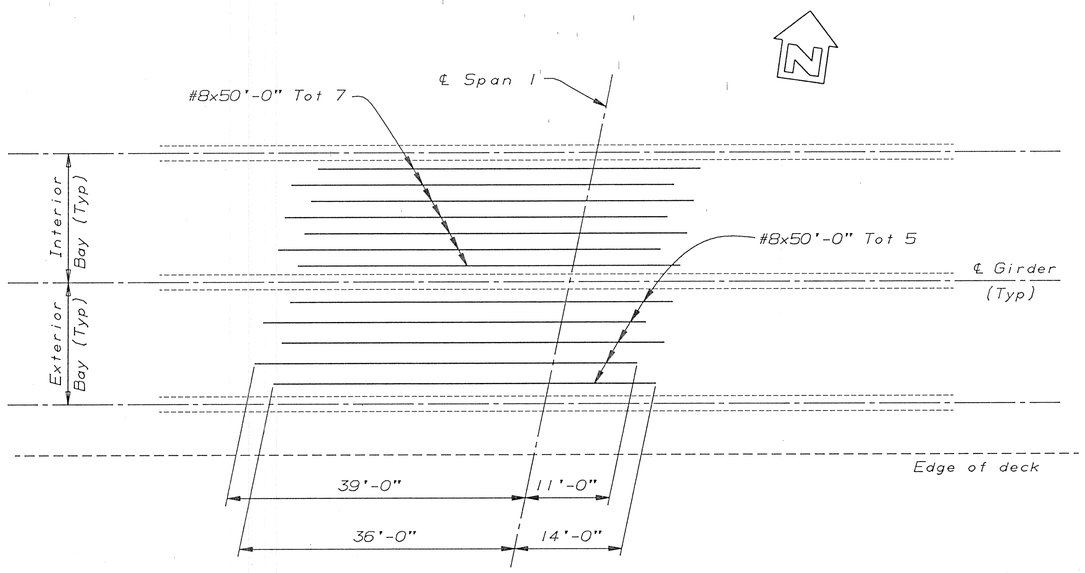
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — Yong Pil Kim — No. 48365 — Exp. 6-30-96 — CIVIL — STATE OF CALIFORNIA

4-15-96
PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

NO AS BUILT CORRECTIONS
CORRECTIONS TRANSFERED BY: C. Fossett
FIELD CORRECTIONS BY: Rick Salinas
TRANSFER DATE: 01/08/2003
FIELD CORRECTION DATE: 04/16/1999
CONTRACT NO: 06-0257U4

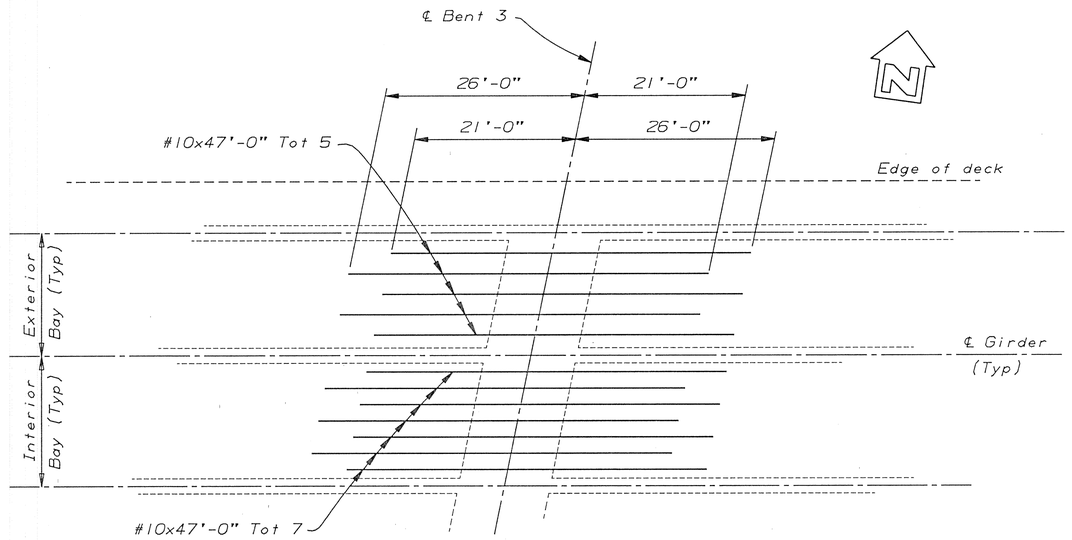


BOTTOM LONGITUDINAL REINFORCEMENT

NO SCALE

NOTES:

1. No lap splice allowed for #10 longitudinal reinforcements.
2. For relative spacing of the longitudinal reinforcements, see "TYPICAL SECTION" sheet.



BOTTOM LONGITUDINAL REINFORCEMENT

NO SCALE

	BY		CHECKED	
DESIGN	Pat Preston	4-95	Yong Pil Kim	7-95
DETAILS	Roberta Lim	7-95	Yong Pil Kim	7-95
QUANTITIES	Robert Zezoff	7-95	Gonzalo Otero	7-95

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 8

CU 06255
EA 0257U1

BRIDGE NO. 42-288 R/L
POST MILE R58.7

ROUTE 180/41 SEPARATION
GIRDER REINFORCEMENT

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 7-18-95; 8-9-95; 11-11-95

SHEET 14 OF 22

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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	180, 168, 41	Var	695	1169

REGISTERED ENGINEER - CIVIL

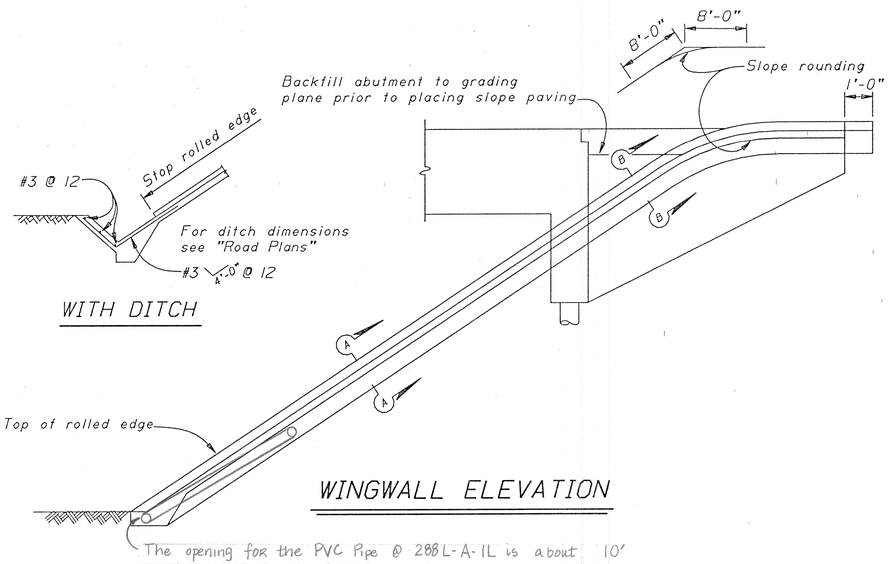
REGISTERED PROFESSIONAL ENGINEER — YONG PIL KIM, No. 48365, Exp. 6-30-96, CIVIL, STATE OF CALIFORNIA

4-15-96
PLANS APPROVAL DATE

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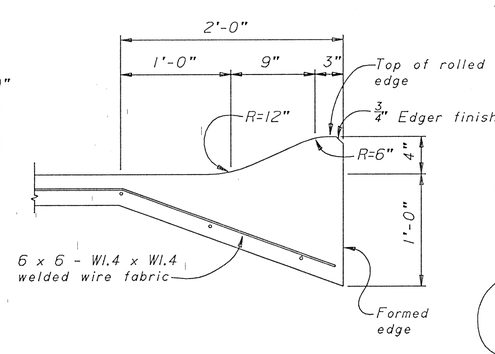
CONTRACT NO: 06-0257U4
TRANSFER DATE: 01/08/2003
FIELD CORRECTION DATE: 04/16/1999
CORRECTIONS TRANSFERED BY: C. Fossett
FIELD CORRECTIONS BY: Rick Salinas

AS BUILT CORRECTIONS

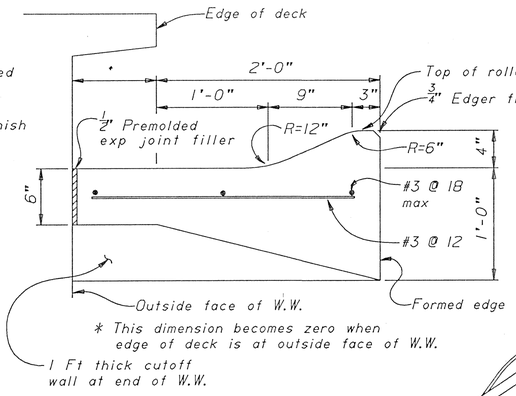


WITH DITCH

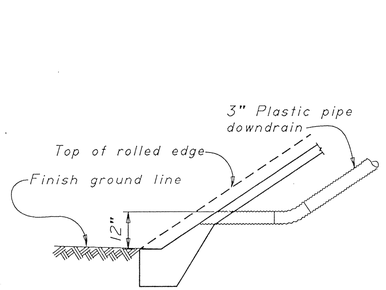
WINGWALL ELEVATION



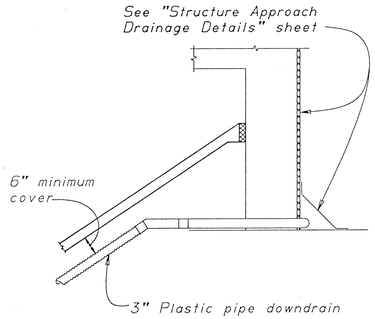
SECTION A - A



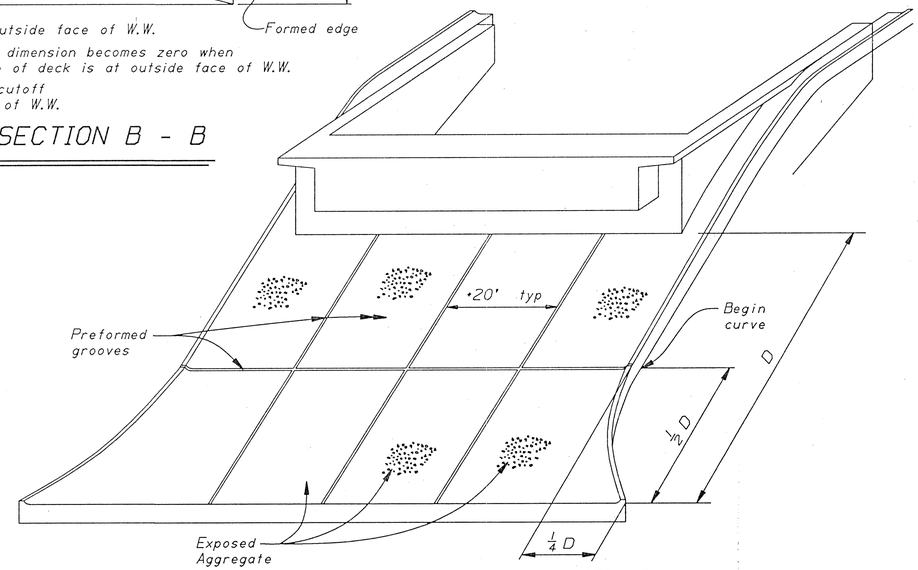
SECTION B - B



TYPICAL - NO CURB



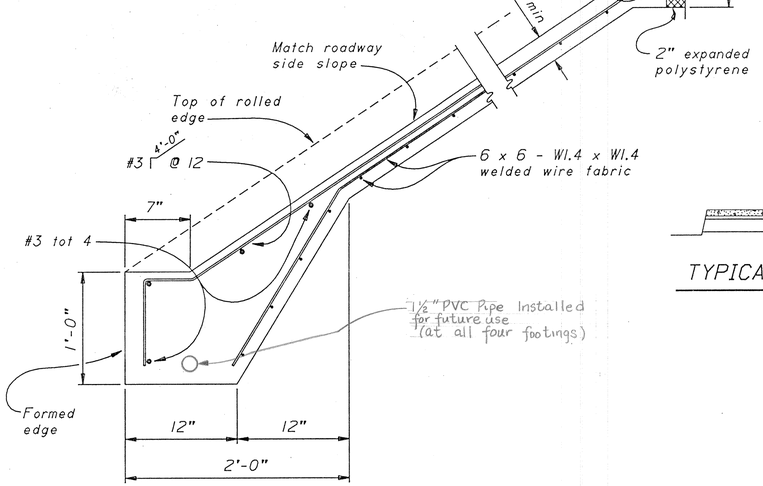
TYPICAL - DRAIN CONNECTION



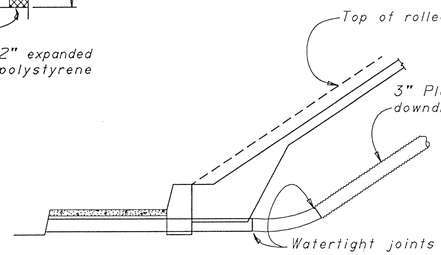
* Or as directed by the Engineer to provide uniform spacing

NOTE: For actual limits of slope paving on this project see sketch below.

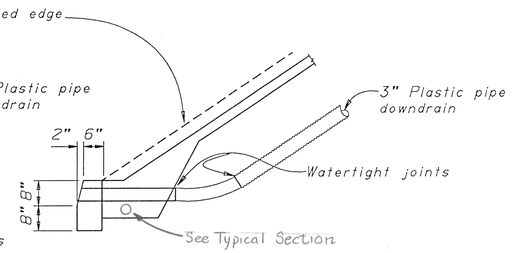
PICTORIAL VIEW OF TYPICAL INSTALLATION



TYPICAL SECTION - CONCRETE PAVING



TYPICAL - WITH SIDEWALK



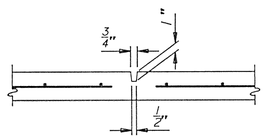
TYPICAL - WITH CURB

Note: See "Road Plans" for curb details

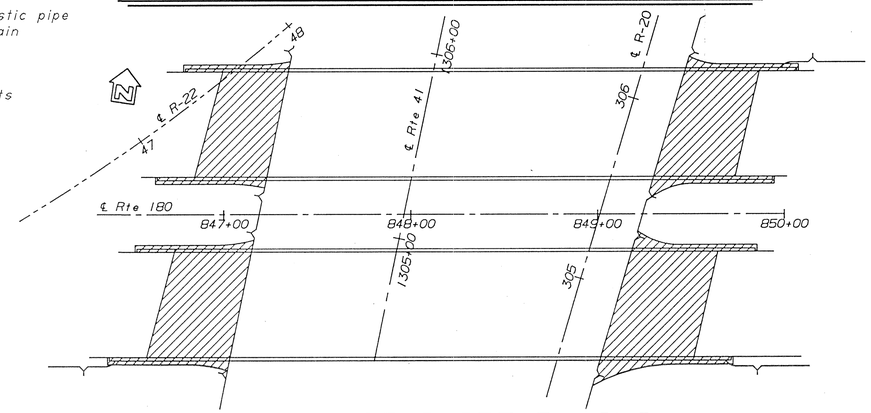
DRAINAGE DETAILS

Note: Minimum radius curve for 3" plastic pipe is 30".

Note: Details are not to scale



PREFORMED GROOVE



LIMITS OF SLOPE PAVING

No Scale

	BY		CHECKED	
DESIGN	Pat Preston	4-95	Yong Pil Kim	7-95
DETAILS	Roberta Lim	7-95	Yong Pil Kim	7-95
QUANTITIES	Robert Zezoff	7-95	Gonzalo Otero	7-95

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 8

BRIDGE NO. 42-288R/L
POST MILE R58.7

ROUTE 180/41 SEPARATION
SLOPE PAVING-FULL SLOPE

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06255
EA 0257U1

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 7-19-95, 8-5-95, 11-11-95

SHEET 18 OF 22

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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	180, 41, 168,	Var	680	1169

REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — YONG PIL KIM — No. 48365 — Exp. 6-30-96 — CIVIL — STATE OF CALIFORNIA

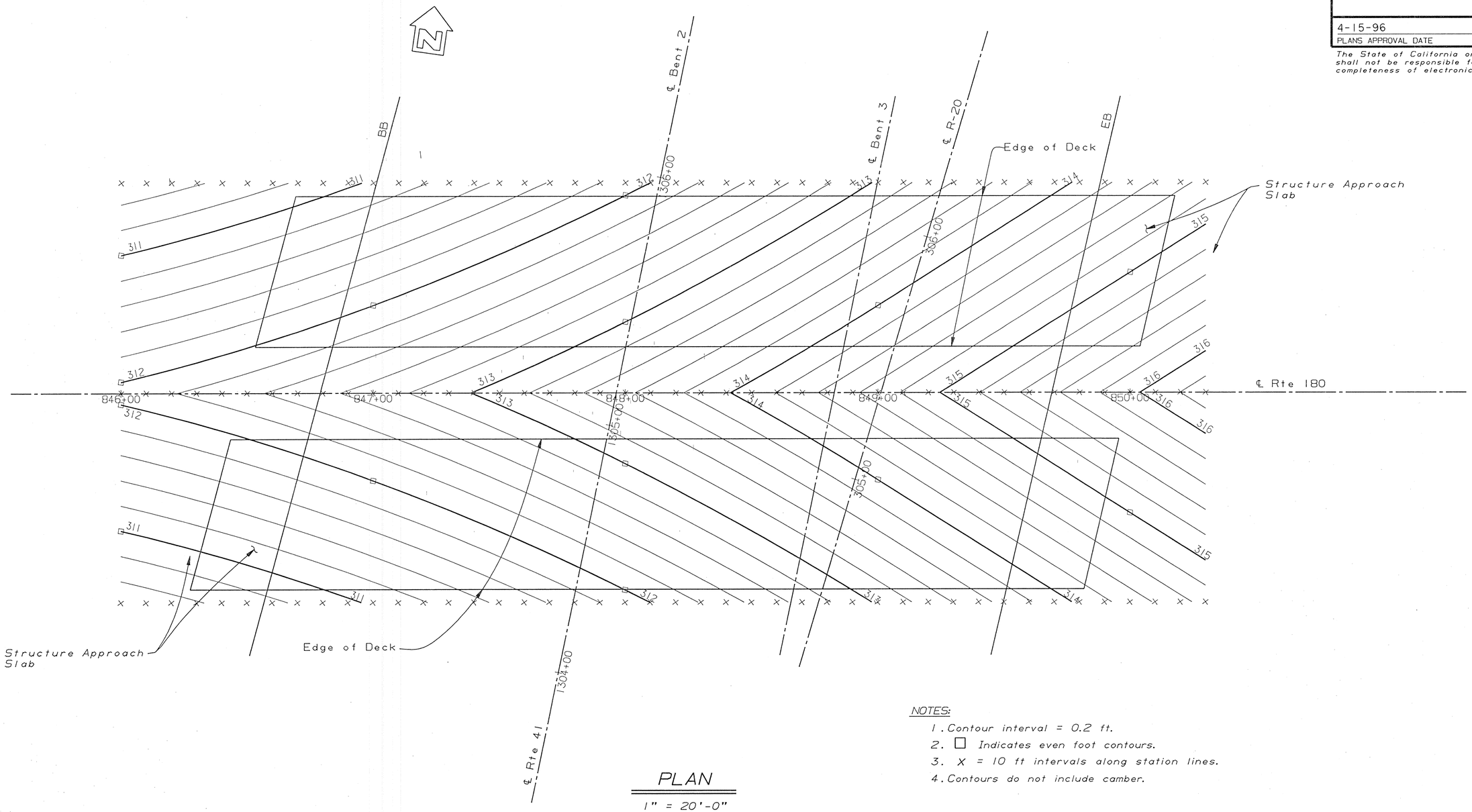
4-15-96
PLANS APPROVAL DATE

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TRANSFER DATE: 01/08/2003
FIELD CORRECTION DATE: 04/16/1999
CONTRACT No: 06-0257U4

CORRECTIONS TRANSFERED BY: C. Fossett
FIELD CORRECTIONS BY: Rick Sallings

NO AS BUILT CORRECTIONS



PLAN
1" = 20'-0"

NOTES:

1. Contour interval = 0.2 ft.
2. ☐ Indicates even foot contours.
3. X = 10 ft intervals along station lines.
4. Contours do not include camber.

DESIGN	BY Pat Preston 4-95	CHECKED Yong Pil Kim 7-95	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 8	BRIDGE NO. 42-288R/L
DETAILS	BY Roberta Lim 7-95	CHECKED Yong Pil Kim 7-95			POST MILE R58.7
QUANTITIES	BY Robert Zezoff 7-95	CHECKED Gonzalo Otero 7-95			

ROUTE 180/41 SEPARATION
DECK CONTOURS

DS OSD 2139 (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06255
EA 0257U1

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): ~~7-10-95~~ ~~7-20-95~~ ~~8-3-95~~ ~~9-27-95~~ 11-10-95

SHEET 3 OF 22

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California Department of Transportation
Division of Maintenance

Structure Maintenance and Investigations

BRIDGE

INSPECTION

RECORDS

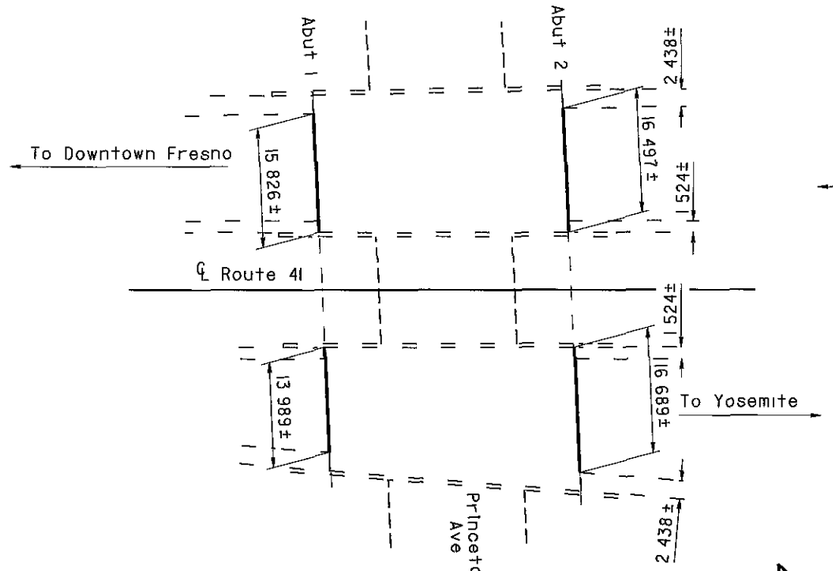
INFORMATION

SYSTEM

The requested documents have been generated by BIRIS.

These documents are the property of the California Department of Transportation and should be handled in accordance with Deputy Directive 55 and the State Administrative Manual.

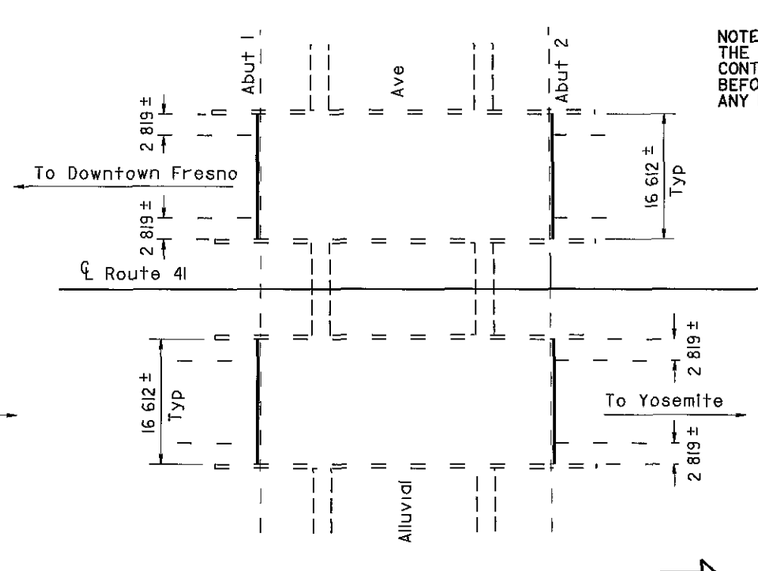
Records for “Confidential” bridges may only be released outside the Department of Transportation upon execution of a confidentiality agreement.



PRINCETON AVENUE UC

Br No 42-0296 L/R, Fre, KP 42 2

1 400



ALLUVIAL AVENUE UC

Br No 42-0386 L/R, Fre, KP 49 8

1 400

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	41	36 5/50 0	3	4

2/16/01
REGISTERED CIVIL ENGINEER

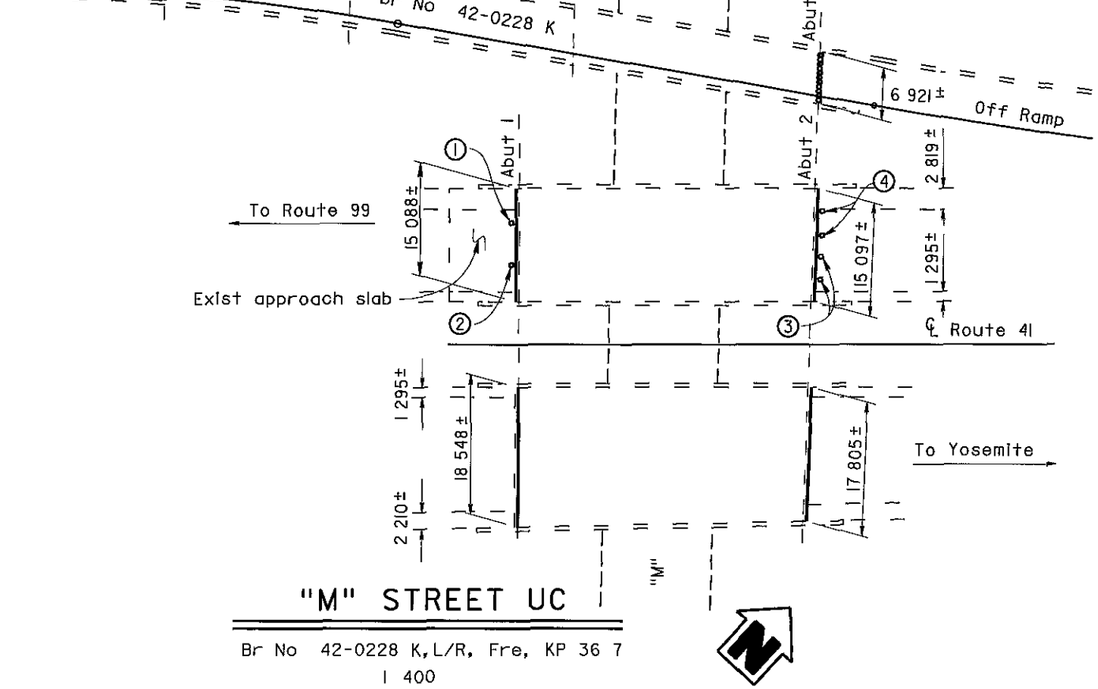
REGISTERED PROFESSIONAL ENGINEER
DIOSDADO ACOBA
No 52003
EXP 12-31-02
CIVIL
STATE OF CALIFORNIA

3-26-01
PLANS APPROVAL DATE

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NOTES:

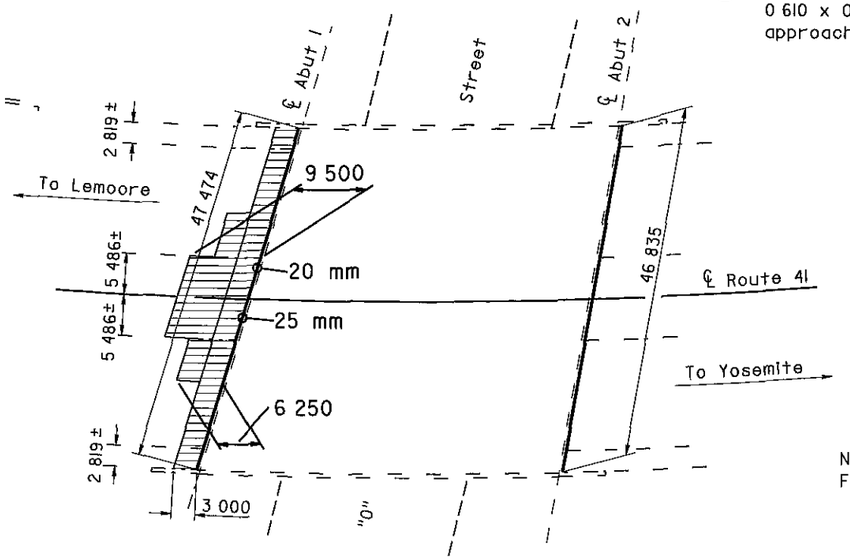
- — — — Indicates existing structure
- / Indicates location of existing joint seal removal and placement of new joint seal
- Indicates location of remove existing backwall and joint seal and place new backwall and joint seal See JOINT SEAL DETAILS sheet
- Indicates limits of grind existing PCC approach slab to match bridge deck
- ① Indicates approximate location of repair 0 152 x 0 075 x 0 080 concrete spalls in existing approach slab See "Joint Seal Details" sheet
- ② Indicates approximate location of repair 0 125 x 0 125 x 0 080 concrete spalls in existing approach slab See "Joint Seal Details" sheet
- ③ Indicates approximate location of repair 0 760 x 0 760 x 0 080 concrete spalls in existing approach slab See "Joint Seal Details" sheet
- ④ Indicates approximate location of repair 0 610 x 0 305 x 0 080 concrete spalls in existing approach slab See "Joint Seal Details" sheet



"M" STREET UC

Br No 42-0228 K,L/R, Fre, KP 36 7

1 400



"O" STREET UC

Br No 42-0282, Fre, KP 36 9

1 400

INDEX TO PLANS

SHEET NO	TITLE
1	GENERAL PLAN
2	JOINT SEAL DETAILS

STANDARD PLANS DATED JULY 1999

A10A	ABBREVIATIONS
B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 50 mm)

NOTE
FOR QUANTITIES SEE JOINT SEAL DETAILS

AS BUILT MRC 3-28-03

CORRECTIONS BY Laura Gordon
CONTRACT NO 06-442104
DATE 12-28-01

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Michael J Lee 2/16/01
DESIGN ENGINEER

DESIGN	BY R Amir 6/00	CHECKED D Acoba 6/00					
DETAILS	BY K Endow 3/00	CHECKED D Acoba 6/00	LAYOUT	BY K Endow 3/00	CHECKED R Amir 6/00		
QUANTITIES	BY R Amir 6/00	CHECKED D Acoba 6/00	SPECIFICATIONS	BY	PLANS AND SPECS COMPARED		

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ENGINEERING SERVICE CENTER
STRUCTURE MAINTENANCE

CU 06600
EA 442101

BRIDGE NO Various
KILOMETER POST Varies

ROUTE 41 BRIDGES
GENERAL PLAN

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STATE ONLY) 6 27 00 | 8 31 00 | 2 5 01 | 2 13 01 | 2 16 01

SHEET 1 OF 2

FILE => prgp dgn

USERNAME -> mcarlson DATE PLOTTED > 28-MAR 2003 TIME PLOTTED => 10 38

ClibPDF - www.fastio.com

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
06	Fre	41	36 5/50 0	4	4

Caltrans Metric

2/16/01
REGISTERED CIVIL ENGINEER

3-26-01
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DIOSDADO ACOBA — No 52003 — EXP 12-31-02 — CIVIL — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet

AS BUILT

MRC 3-28-03

CORRECTIONS BY Laura Gordon
CONTRACT NO 06-442104
DATE 12-28-01

JOINT SEAL TABLE

BRIDGE NUMBER	LOCATION		MINIMUM "MR" (mm)	MINIMUM "WI" (mm)	APPROXIMATE LENGTH (m)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (mm)
42-0296L	Abut 1	PN	15	39	15 8	No	305
	Abut 2	PN	15	39	16 5	No	305
42-0296R	Abut 1	PN	15	39	14 0	No	305
	Abut 2	PN	15	39	16 7	No	305
42-0386L	Abut 1	BW	15	34	16 8	Yes	152
	Abut 2	BW	15	38	16 8	Yes	152
42-0386R	Abut 1	BW	15	34	16 8	Yes	152
	Abut 2	BW	15	34	16 8	Yes	152
42-0228K	Abut 1	BW	30	-	7 0	No	305
	Abut 4	BW	40	-	7 1	Yes	152
42-0228L	Abut 1	PN	15	39	15 2	No	305
	Abut 2	PN	15	40	15 2	No	305
42-0228R	Abut 1	PN	15	40	18 0	No	305
	Abut 2	PN	15	40	18 0	No	305
42-0282	Abut 1	PN	30	65	47 8	No	305
	Abut 2	PN	30	71	47 1	No	305

LEGEND

PN - Paving Notch
BW - Backwall

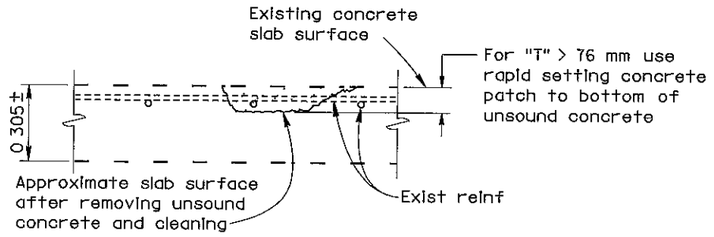
JOINT OPENING TABLE

TEMP (C)	MR = 30	MR = 40
-8	49	59
6	42	49
19	34	39
33	27	29
46	19	19

The following notes apply to JOINT SEAL TYPE B

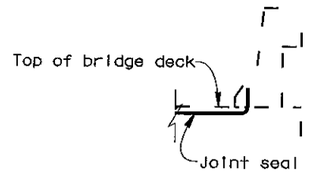
1) Seal must satisfy both minimum Movement Rating (MR) and minimum WI requirements
2) Minimum WI is the calculated maximum width of the joint based on field measurements After the joints have been cleaned, minimum WI is to be recalculated by the Engineer
3) WI shall be the smaller of the values determined as follows
   A) 0 85 times the manufacturer's designed minimum uncompressed width of the seal
   B) The width of the seal on the third successive test cycle of the pressure deflection test, when compressed to an average pressure of 20 68 kPa
4) Bend Type B joint seal 152 mm up into curb or rail on the low side of the deck where deck joint matches curb or rail joint
5) For details not shown see B6-21

Note
Reinforcement will be encountered during concrete removal



APPROACH SLAB REPAIR DETAIL

NO SCALE

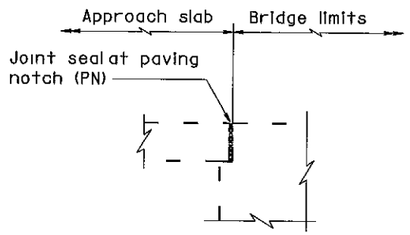


CONCRETE BARRIER

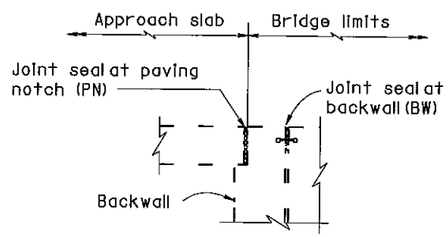
JOINT SEAL AT LOW SIDE OF DECK

Notes Details shown for illustration purposes only

For use only where deck joint matches the sidewalk, curb or barrier rail joint

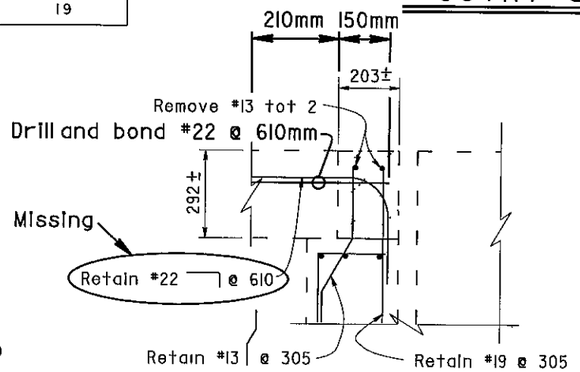


DIAPHRAGM ABUTMENT

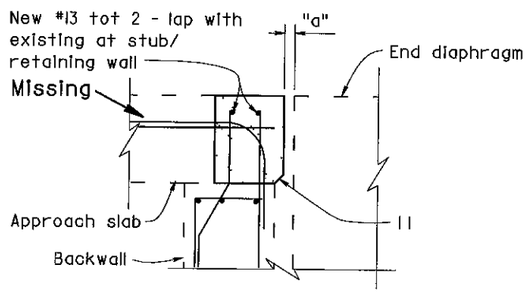


ABUTMENT WITH BACKWALL & APPROACH SLAB

JOINT SEAL LOCATION



EXISTING



RECONSTRUCTION

SEAT ABUTMENT

Br No 42-228 K

NOTE
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

PRINCETON AVENUE UC BR NO 42-0296 L/R
QUANTITIES

CLEAN EXPANSION JOINT	69 m
JOINT SEAL (MR 15 MM)	69 m

ALLUVIAL AVENUE UC BR NO 42-0386 L/R
QUANTITIES

CLEAN EXPANSION JOINT	67 m
JOINT SEAL (MR 15 MM)	67 m

'M" STREET UC BR NO 42-0228 K, L/R
QUANTITIES

REPAIR CONCRETE APPROACH SLAB	LUMP SUM
BRIDGE REMOVAL (PORTION)	LUMP SUM
STRUCTURAL CONCRETE, BRIDGE	1 m^3
CLEAN EXPANSION JOINT	81 m
JOINT SEAL (MR 15 MM)	67 m
JOINT SEAL (MR 30 MM)	7 m
JOINT SEAL (MR 40 MM)	7 m

" O " STREET UC BR NO 42-0282
QUANTITIES

CLEAN EXPANSION JOINT	95 m
GRIND EXISTING CONCRETE APPROACH SLAB	142 m^2
JOINT SEAL (MR 30 MM)	95 m

Indicates concrete removal

Indicates concrete replacement

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DESIGN	BY R Amir 6/00	CHECKED D Acoba 6/00	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY K Endow 3/00	CHECKED D Acoba 6/00	ENGINEERING SERVICE CENTER STRUCTURE MAINTENANCE
QUANTITIES	BY R Amir 6/00	CHECKED D Acoba 6/00	BRIDGE NO Various; KILOMETER POST Varies

ROUTE 41 BRIDGES
JOINT SEAL DETAILS

STRUCTURES MAINTENANCE GNERAL PLAN & DETAIL SHEET (METRIC) (REV (10/6/99)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 06600
EA 442101

FILE > prjs dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 6 21 00 | 8 31 00 | 2 5 01 | 2 13 01 | 2 16 01

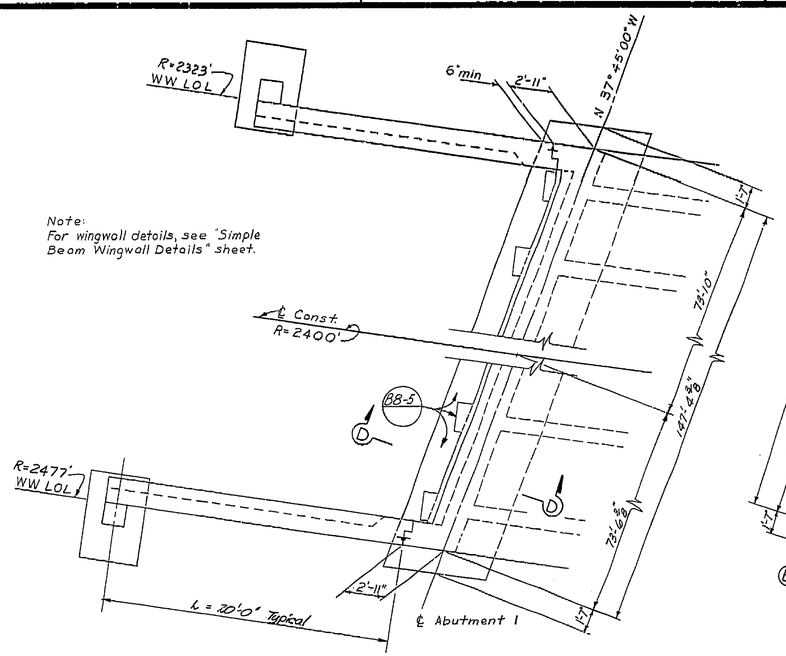
SHEET 2 OF 2

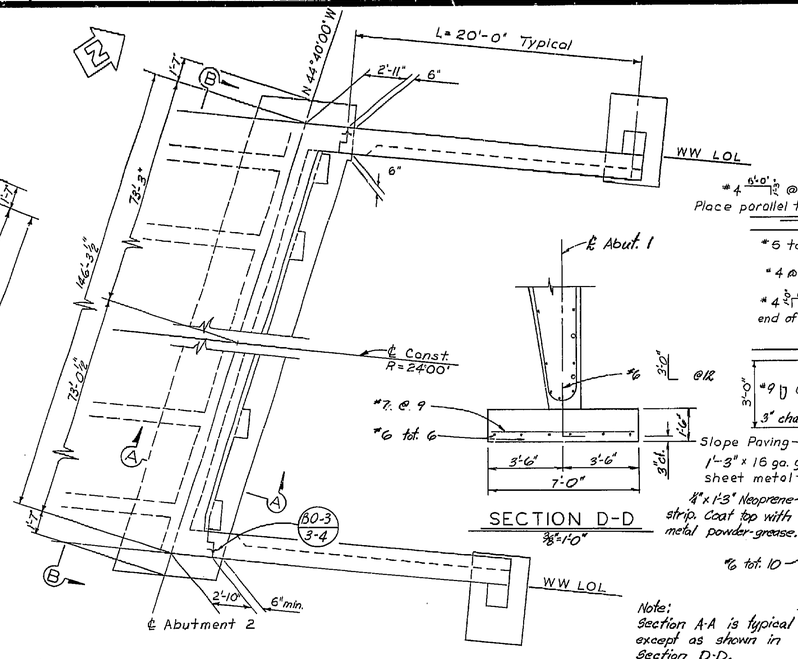
USERNAME > mgarrison DATE PLOTTED > 28 MAR 2003 TIME PLOTTED -> 11 00

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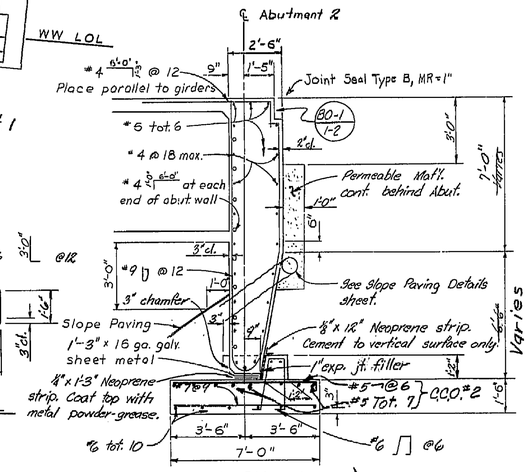
DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	FRE	41	R22.5/R23.8	126	235

R C Blake
REGISTERED CIVIL ENGINEER — REGISTERED CIVIL ENGINEER
DATE APPROVED: May 30, 1975





SECTION D-D
⅜"=1'-0"

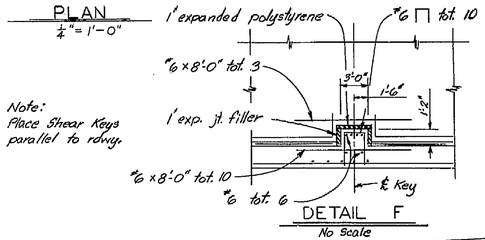


SECTION A-A
⅜"=1'-0"

Note:
Section A-A is typical except as shown in Section D-D.

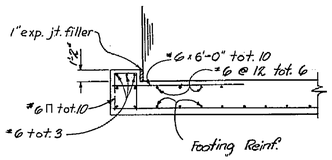
Place transverse key after stressing is completed.

PLAN
¼"=1'-0"

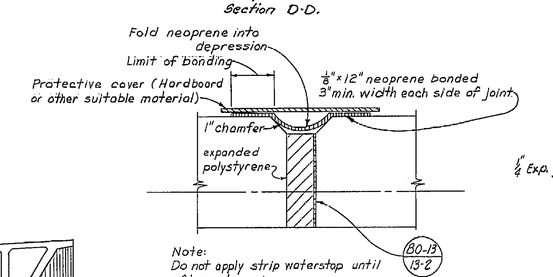


Note:
Place Shear Keys parallel to rdwy.

DETAIL F
No Scale

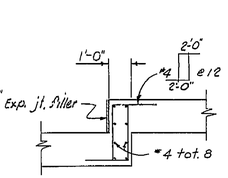


DETAIL E
⅜"=1'-0"



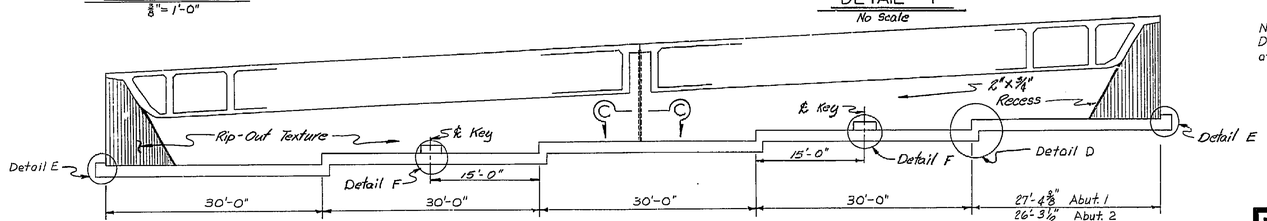
Note:
Do not apply strip waterstop until after stressing.

SECTION G-C
No scale



Typical each footing step

DETAIL D
⅜"=1'-0"



VIEW B-B
⅜"=1'-0"
(Abutment 1 similar)

Note:
See "simple Beam Wingwall Details" sheet for additional Texture details.

AS BUILT
CORRECTIONS BY C. Pearce
CONTRACT NO. 06-025614
DATE 1-15-75 R&H 5-16-75

AS BUILT PLANS
Contract No. 06-025614
Date Completed 9-3-74
Document No. 6226555

BRIDGE DEPARTMENT
DESIGN SECTION 15
Project Engineer B. Strauss

DESIGN	by J. Knock	11/71
	Checked E.M. Brumbley	11-20
DETAILS	by J. KNOCK	5/70
	Checked E.M. Brumbley	11-20
QUANTITIES	by A. Warren	1/72
	Checked Ed. Brumbley	1/72

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

"O" STREET UNDERCROSSING

ABUTMENT DETAILS

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-282	23.0		4	10

REVISION DATES (PRELIMINARY STAGE ONLY)
Disregard prints bearing earlier revision dates →

WO
CU

126

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.
DATE 6/24/75 SIGNED Beck MacLane TITLE Microfilm Supervisor

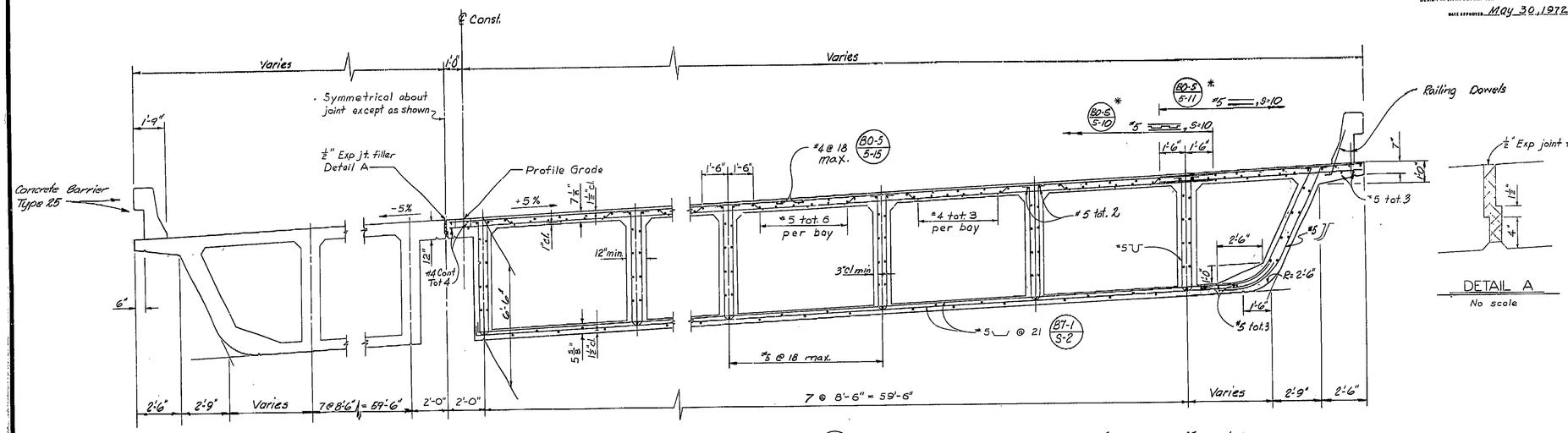
MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MICROFILM

DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	FRE	41	R22.5/R23.8	128	235

DESIGN BY STUDY SUPERVISOR — REGISTERED CIVIL ENGINEER AND DATE

R C Clarke

DATE APPROVED May 30, 1972



TYPICAL SECTION (87-1 8-1)

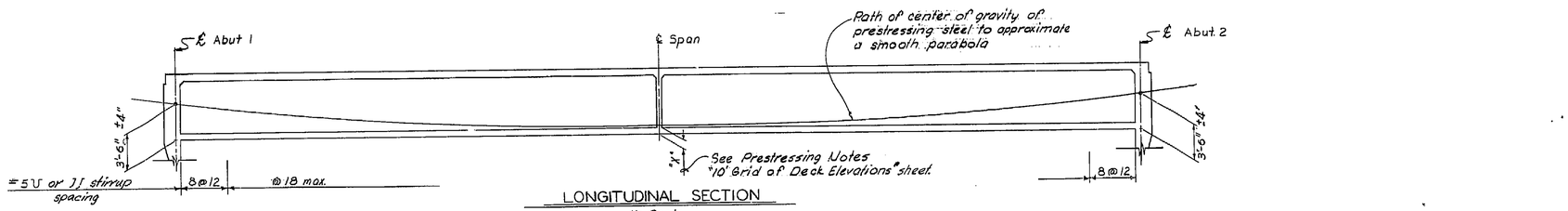
Scale: ⅜" = 1'

* — See "Girder Layout" sheet for additional reinf. details.

DETAIL A

No scale

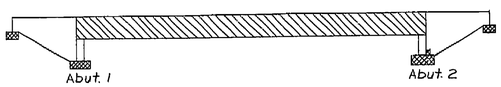
Note:
See "General Plan" sheet for utilities.
Details shown are typical unless noted otherwise.



LONGITUDINAL SECTION

No Scale

"NO AS-BUILT CORRECTIONS"
AS BUILT
CORRECTIONS BY _____
CONTRACT NO. _____
DATE _____



CONCRETE TYPE LIMITS

- Structure Concrete, Bridge
- Structure Concrete, Bridge Footing
- Cast-in-place Prestressed Concrete

AS BUILT PLANS
Contract No. 06-025614
Date Completed 9-3-74
Document No. 6555

BRIDGE DEPARTMENT
DESIGN SECTION 15
Project Engineer B. Lazarus

DESIGN	by J. Kwock	11/71
	Checked E.M. Brumberg	11-20
DETAILS	by J. KWOCK	5/70
	Checked E.M. Brumberg	11-20
QUANTITIES	by R. Hansen	11/72
	Checked E.M. Brumberg	12

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

"O" STREET UNDERCROSSING

TYPICAL SECTION

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-282	23.0		6	10

WO 025611
CU 06202

Disregard prints bearing earlier revision dates →

REVISION DATES (PRELIMINARY STAGE ONLY)

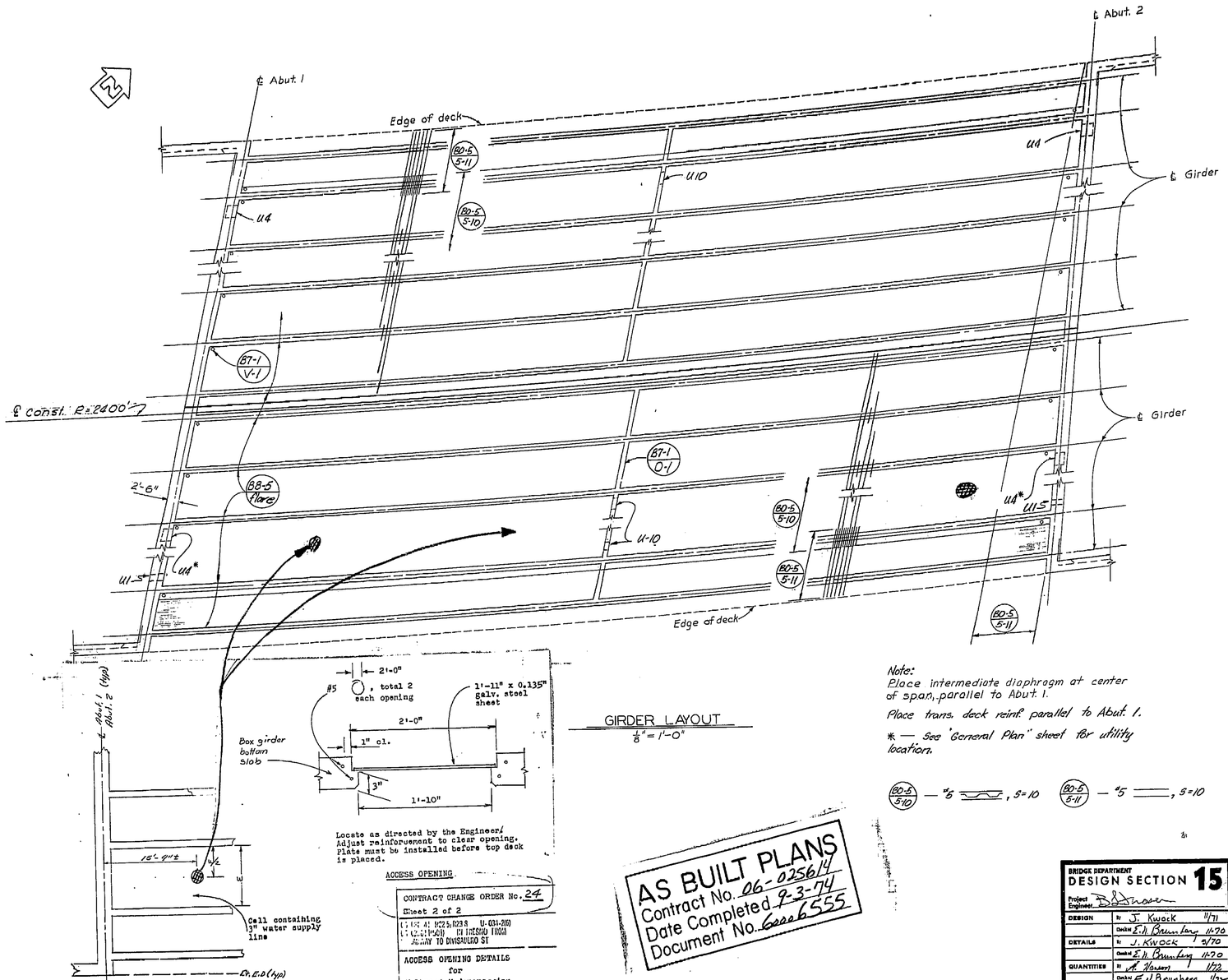
I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 6/24/75 DIRECTOR Dick Maclaw TITLE Microfilm Supervisor

MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF TRANSPORTATION – MICROFILM
SCALE 1"= 50' SCALE 1"= 20' SCALE 1"= 10' or 1"= 100' SCALE 1"= 40'
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DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	FRE	41	R22.5/R23.8	129	235

R C Blake
DESIGN SECTION SUPERVISOR REGISTERED CIVIL ENGINEER OR ARCHITECT
DATE APPROVED May 30, 1972



Locate as directed by the Engineer. Adjust reinforcement to clear opening. Plate must be installed before top deck is placed.

ACCESS OPENING

CONTRACT CHANGE ORDER No. 24
Sheet 2 of 2
(-) 1.5% AT HC25.1/23.8 U-031-2(6)
(+) 2.5% AT HC25.1/23.8 IN FRESNO FROM ALLEY TO DIVISADERO ST

ACCESS OPENING DETAILS for M Street Undercrossing O Street Undercrossing

Dwn. by MSmith Ckd. by L.Arie

GIRDER LAYOUT
1/8" = 1'-0"

Note:
Place intermediate diaphragm at center of span, parallel to Abut. 1.
Place trans. deck reinf. parallel to Abut. 1.
* — See "General Plan" sheet for utility location.

(80-5 5-10) — #5 ——, S=10 (80-5 5-11) — #5 ——, S=10

AS BUILT
CORRECTIONS BY C. Pearson
CONTRACT NO. 06-025614
DATE 1-15-75 SKH 5-16-75

AS BUILT PLANS
Contract No. 06-025614
Date Completed 7-3-74
Document No. 6886555

BRIDGE DEPARTMENT DESIGN SECTION 15		
Project Engineer B.D.Jensen		
DESIGN	By J. Kwock	11/71
	Checked E.H.Brumberg	11-70
DETAILS	By J. KWOCK	2/70
	Checked E.H. Brumberg	11-70
QUANTITIES	By A. Hansen	1/72
	Checked E.H. Brumberg	1/72

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

"O" STREET UNDERCROSSING

GIRDER LAYOUT

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-282	23.0		7	17

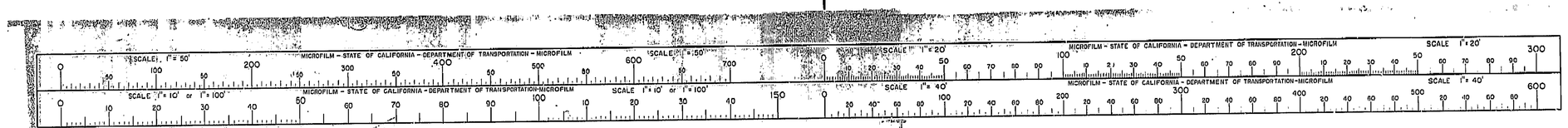
Disregard prints bearing earlier revision dates →

REVISION DATES (PRELIMINARY STAGE ONLY)
3-4-74 7-3-74

WO
CU

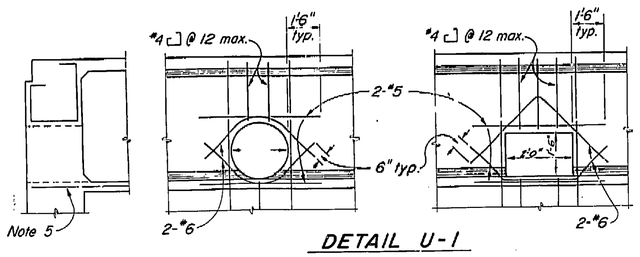
129

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.
DATE 6/24/75 SIGNATURE Dick Mueller TITLE Microfilm Supervisor

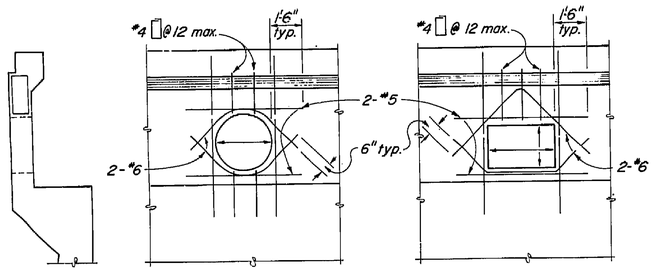


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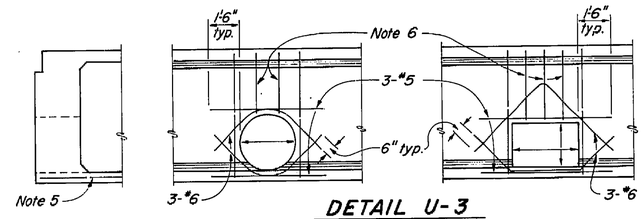
ABUTMENT DIAPHRAGMS



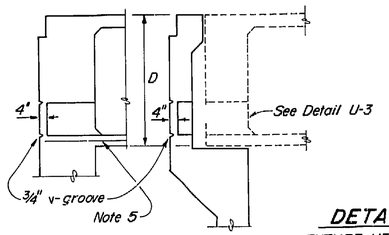
DETAIL U-1

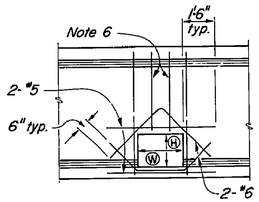


DETAIL U-2



DETAIL U-3

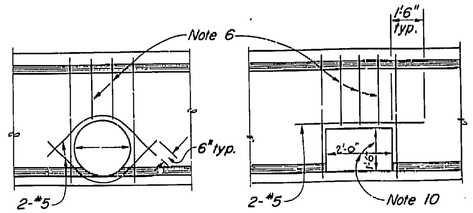




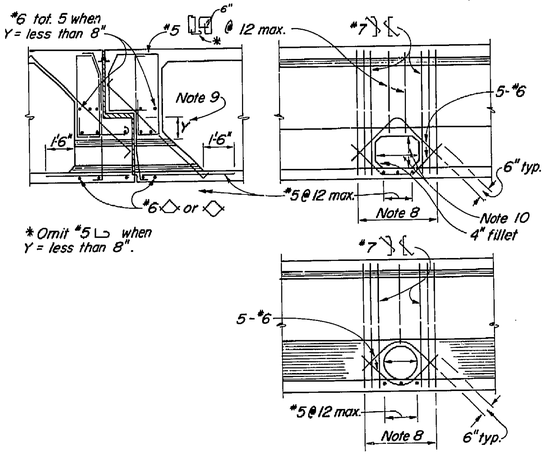
DETAIL U-4
FUTURE UTILITY OPENING

Ⓗ = 1/3 D or 1'-6" min., whichever is greater.
Ⓦ = 1/3 D or 2'-0" min., whichever is greater.

INTERMEDIATE DIAPHRAGMS

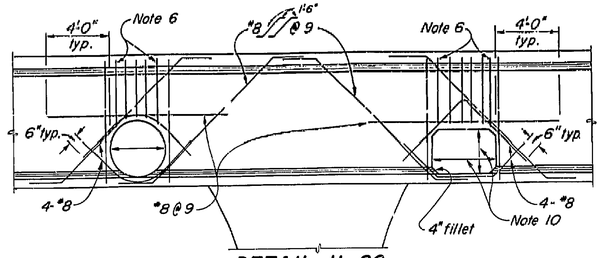


DETAIL U-10
AT INTERMEDIATE DIAPHRAGM

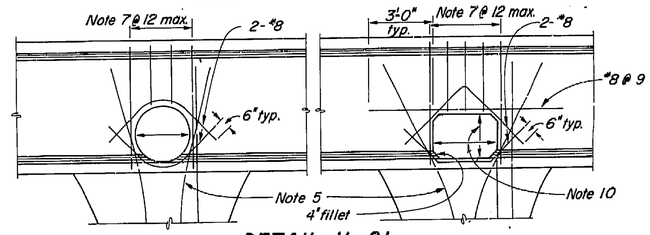


DETAIL U-11
AT HINGE

BENT CAPS



DETAIL U-20
NEAR OR BETWEEN COLUMNS



DETAIL U-21
AT COLUMN

NOTES :

1. For exact location, elevation, size and direction of openings see other sheets.
2. Girders not shown. See other sheets.
3. All reinf. detailed to be placed in addition to reinf. shown on other sheets.
4. Watertight seal around utilities at abutments to be of sufficient strength to withstand earth pressure. If structure is prestressed, seal to be placed after stressing is completed.
5. Main reinf. to clear opening.
6. Stirrups to be same bar size, shape and 2/3 the spacing of adjacent stirrups shown on other sheets.
7. Stirrups to be same bar size and shape as adjacent stirrups shown on other sheets.
8. Replace each set of 4-#7 bars cut off by opening. Place 1/2 on each side of opening.
9. When "Y" is less than 8", extend top of opening to bottom of bearing seat elevation.
10. For future utility opening dimensions, see Detail U-4.

BRIDGE ENGINEER _____ REGISTERED CIVIL ENGINEER No. 5585
DATE APPROVED May 30, 1972

"NO AS-BUILT CORRECTIONS"
AS BUILT
CORRECTIONS BY _____
CONTRACT NO. _____
DATE _____

AS BUILT PLANS
Contract No. 06-025614
Date Completed 9-3-74
Document No. 6000 6555

STANDARD DRAWING
DESIGN DETAILS

STATE OF CALIFORNIA
BUSINESS AND TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

7/71 XS-16-49

"O" STREET UNDERCROSSING

UTILITY OPENING - BOX GIRDER

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-282	23.0		9	10

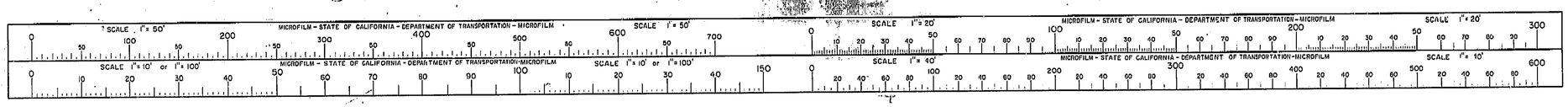
REVISION DATES (PRELIMINARY STAGE ONLY)

WO
CU

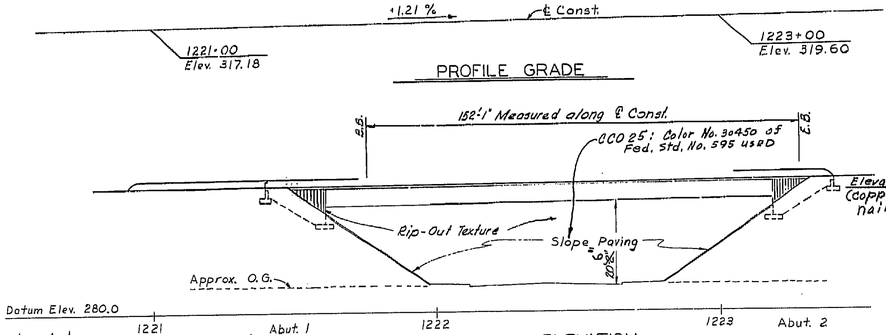
Disregard prints bearing earlier revision dates →

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

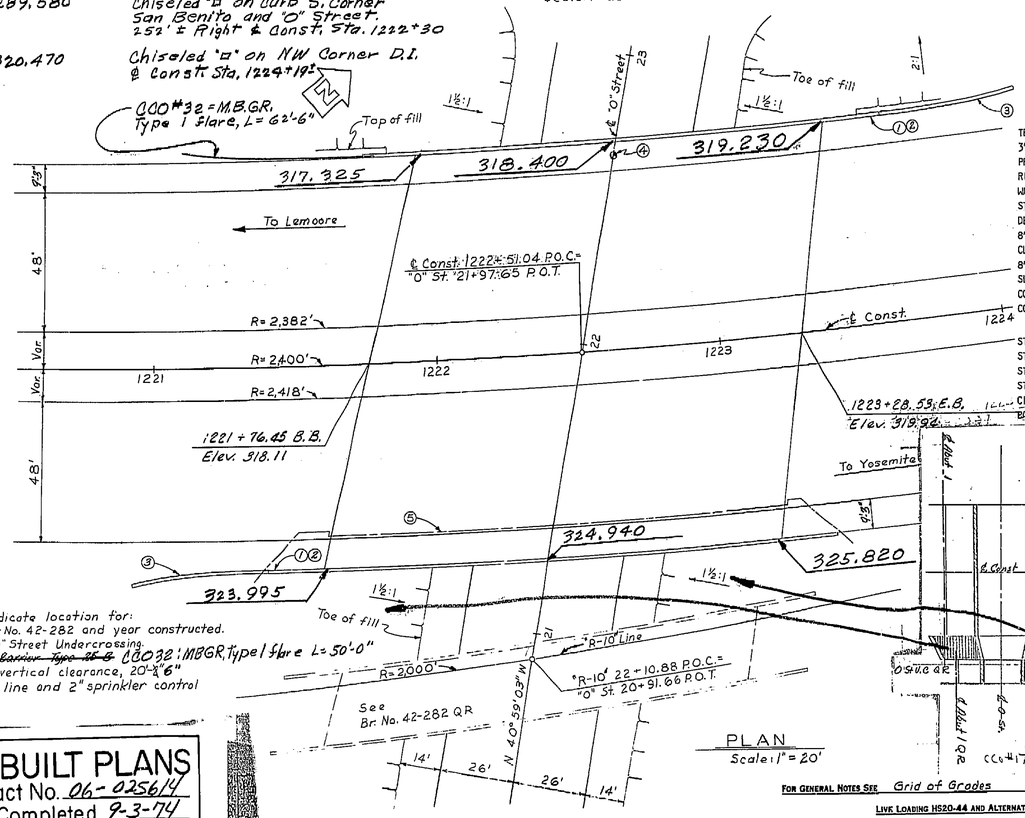
DATE 6/24/15 SIGNATURE Dick Macleave TITLE Microfilm Supervisor



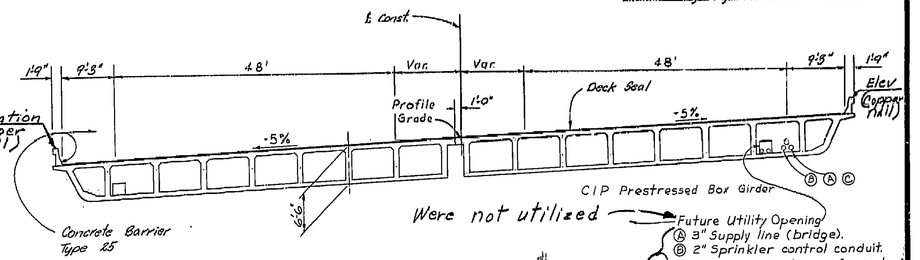
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Point	Elevation	Description
BM_1	289.580	Chiseled "□" on curb S. Corner San Benito and "O" Street. 252' ± Right ℄ Const. Sta. 1222+30
BM_2	320.470	Chiseled "□" on NW Corner D.I. ℄ Const. Sta. 1224+19±



NOTE:
Numbers indicate location for:
① Painting Br No. 42-282 and year constructed.
② Painting "O" Street Undercrossing.
③ ~~Concrete Barrier Type 25 &~~ CCO 32: MBGR, Type 1 flare L = 50'-0"
④ Minimum vertical clearance, 20'-3"
⑤ 3" Supply line and 2" sprinkler control conduit.



TYPICAL SECTION
Scale: 1"= 10'

A. 3" dia. galvanized steel pipe State Water Supply line installed and capped outside the bridge for future use. 3" expansion hose assemblies were used near each abutment inside the box girder cell.

B. 2" dia. rigid steel pipe State Sprinkler Control Conduit with Std. Plan ES-7B Detail "X" conduit expansion joints and capped outside the bridge for future use.

C. 2" dia. rigid steel pipe State Communication Conduit with Std. Plan ES-7B Detail "X" conduit expansion joints and capped outside the bridge for future use.

Installations details per Std. Plan 814.3 dated 6/72

APPROXIMATE QUANTITIES

TEMPORARY RAILING (TYPE K)	420 LF
3" SUPPLY LINE (BRIDGE)	226 LF
PRESTRESSING CAST-IN-PLACE CONCRETE	LUMP SUM
RIPPED TEXTURE (REINFORCING BAR)	570 SQ FT
WATERSTOP	40 LF
STRIP WATERSTOP	314 LF
DECK SEAL (EPOXY)	22,830 SQ FT
8" PERFORATED STEEL PIPE UNDERDRAIN (.064" THICK)	284 LF
CLASS 1 PERMEABLE MATERIAL (BRIDGE)	83 CY
8" CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK)	186 LF
SLOPE PAVING(CONCRETE)	130 CY
CONCRETE BARRIER (TYPE 25)	389 LF
CONCRETE BARRIER (TYPE 25B)	49 LF

FINAL QUANTITIES

STRUCTURE EXCAVATION (BRIDGE)	690 CY
STRUCTURE BACKFILL (BRIDGE)	500 CY
STRUCTURE CONCRETE, BRIDGE FOOTING	133 CY
STRUCTURE CONCRETE, BRIDGE	170 CY
CIP PRESTRESSED-CONCRETE (GRADE 35-50)	1,580 CY
BAR REINFORCING STEEL (BRIDGE)	293,000 LB

INDEX TO PLANS

SHEET NO.	TITLE
1.	GENERAL PLAN
2.	10' GRID OF DECK ELEVATIONS
3.	FOUNDATION PLAN
4.	ABUTMENT DETAILS
5.	SIMPLE BEAM WINGWALL DETAILS
6.	TYPICAL SECTION
7.	GIRDER LAYOUT
8.	SLOPE PAVING DETAILS - FULL SLOPE
9.	UTILITY OPENING - BOX GIRDER
10.	LOG OF TEST BORINGS

See "Ventura Ave. Viaduct" Br. No. 42-278 for Special Details, Concrete Barrier Type 25 Details, Temporary Railing Type K Details & Joint Seal Details.

STANDARD PLANS

A62-B.2
B0-1, 3, 5, 13
B7-1
B8-5

AS BUILT
CORRECTIONS BY C. Passaro
CONTRACT NO. 06-025614
DATE 1-15-75 MCM 5-15-75

STANDARD PLAN SHEET NO.
DETAIL NO.

AS BUILT PLANS
Contract No. 06-025614
Date Completed 9-3-74
Document No. 6666555

127

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor R.C. Bleck
Project Engineer Bruce Schroeder

DESIGN	BY J. Kwock	11/71	Checked	E.N. Bramberg	11-72
DETAILS	BY J. Kwock	3/72	Checked	E.N. Bramberg	11-72
LAYOUT	BY J. Kwock	11/71	Checked	E.N. Bramberg	4/72
QUANTITIES	BY A. Nguyen	1/72	Checked	E.N. Bramberg	1/72
SPECIFICATIONS	BY W.E. Smith		Plans and Spec. Checked		5/72

Approved Recommended by R.C. Cassano Registered Civil Engr. License No. 7019

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

"O" STREET UNDERCROSSING
LOCATED AT THE INTERSECTION OF 'O' STREET AND SAN BENITO STREET IN THE CITY OF FRESNO IN FRESNO COUNTY

GENERAL PLAN

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-282	23.0		1	10

REVISION DATES (PRELIMINARY STAGE ONLY)

Disregard prints bearing earlier revision dates

WO 025611
CU 06202

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 6/24/75 SIGNATURE Dick Mirabeau TITLE Micrographics Supervisor

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MICROFILM
SCALE 1"= 50' SCALE 1"= 50' SCALE 1"= 20' SCALE 1"= 20'
SCALE 1"= 10' or 1"= 100' SCALE 1"= 10' or 1"= 100' SCALE 1"= 40' SCALE 1"= 40'

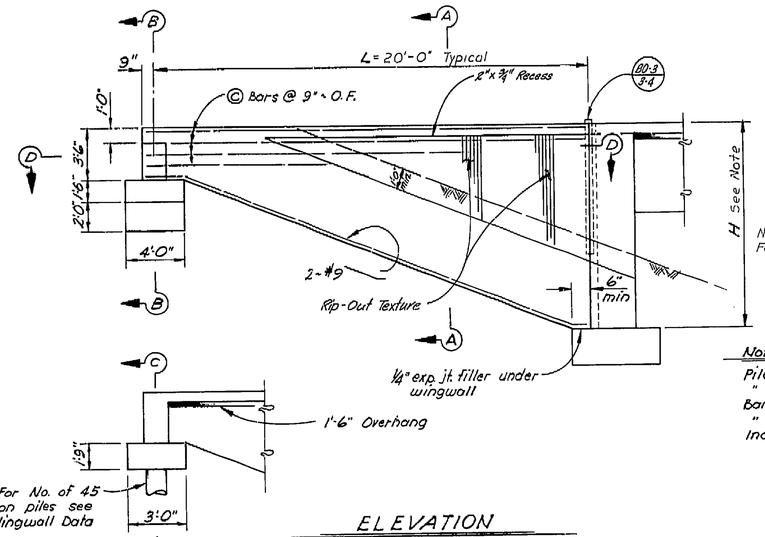
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET	TOTAL SHEETS
06	FRE	41	R22.6/R23.8	127	235

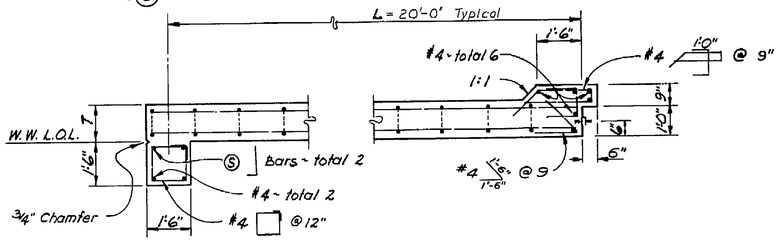
May 30, 1972

* —— Increase wall thickness 1" for Rip-Out Texture.

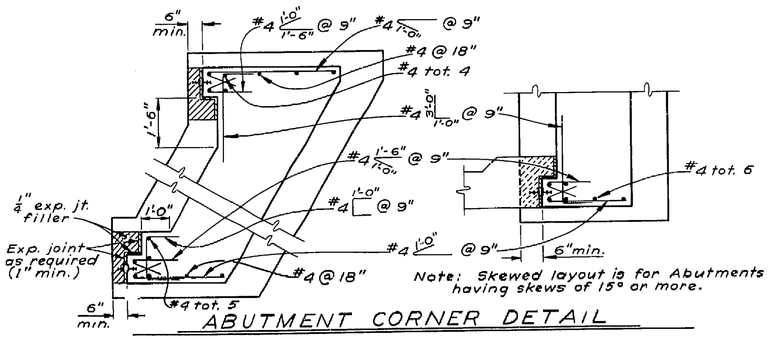
WINGWALL DATA				
L (ft)	H (ft)	T*	Ⓒ & Ⓢ Bars	No. piles
20	10	1'-0"	7	1
	11	1'-0"	7	1
	12	1'-0"	7	1
	13	1'-0"	7	1
	14	1'-0"	8	1
22	10	1'-0"	8	1
	11	1'-0"	8	1
	12	1'-0"	8	1
	13	1'-0"	8	1
	14	1'-0"	8	1
24	10	1'-0"	8	1
	11	1'-0"	8	1
	12	1'-3"	8	1
	13	1'-3"	8	1
	14	1'-3"	8	2
26	10	1'-3"	8	1
	11	1'-3"	8	1
	12	1'-3"	8	1
	13	1'-3"	8	2
	14	1'-3"	8	2
28	10	1'-3"	8	1
	11	1'-3"	8	1
	12	1'-3"	9	2
	13	1'-3"	9	2
	14	1'-3"	9	2
30	10	1'-3"	9	1
	11	1'-3"	9	1
	12	1'-3"	9	2
	13	1'-3"	9	2
	14	1'-6"	9	2
32	10	1'-3"	9	1
	11	1'-6"	9	2
	12	1'-6"	9	2
	13	1'-6"	9	2
	14	1'-6"	9	2
34	10	1'-6"	9	1
	11	1'-6"	9	2
	12	1'-6"	9	2
	13	1'-6"	10	2
	14	1'-6"	10	2
36	10	1'-6"	10	2
	11	1'-6"	10	2
	12	1'-6"	10	2
	13	1'-6"	10	2
	14	1'-6"	10	2
38	10	1'-6"	10	2
	11	1'-6"	10	2
	12	1'-6"	10	2
	13	1'-6"	10	2
	14	1'-9"	10	2
40	10	1'-6"	10	2
	11	1'-6"	10	2
	12	1'-9"	10	2
	13	1'-9"	10	2
	14	1'-9"	10	2



ELEVATION



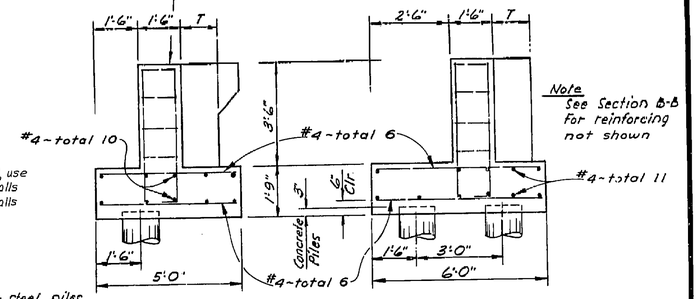
SECTION D-D



Note: Skewed layout is for Abutments having skews of 15° or more.

ABUTMENT CORNER DETAIL

Support post to be full height (3'-6" ℓ) when wall with overhang is used.

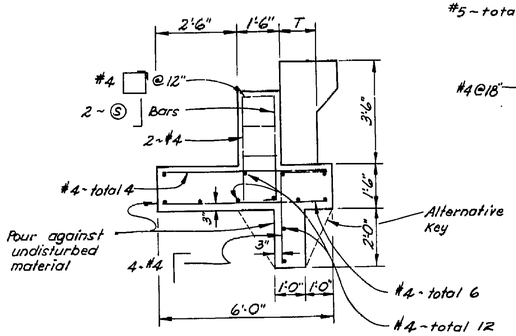


Note
See Section B-B for reinforcing not shown

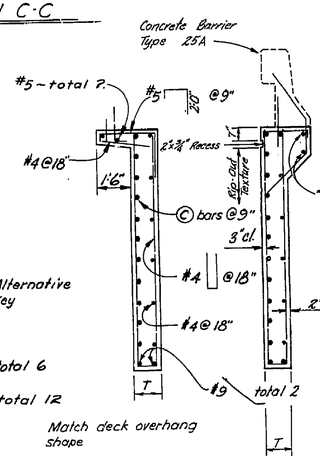
Note:
For reinforcing steel, use
H=13 West wingwalls
H=14 East wingwalls

Note
Pile embedment = 5" for steel piles
" " = 6" for timber piles
Bar clearance = 6" for Steel Piles
" " = 9" for Timber Piles
Increase footing depth to 2'-0" if Timber Piles are used.

SECTION C-C



SECTION B-B



Match deck overhang shape

Note: When superstructure is prestressed, the wingwall must be placed after stressing is completed. Backfill material inside of walls must be placed prior to placing backfill outside of walls.

"NO AS-BUILT CORRECTIONS"

AS BUILT
CORRECTIONS BY.
CONTRACT NO.
DATE

1'-6" OVERHANG NO OVERHANG

SECTION A-A

12/69	STATE OF CALIFORNIA BUSINESS AND TRANSPORTATION AGENCY DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	XS-4-25

"O" STREET UNDERCROSSING

SIMPLE BEAM WINGWALL DETAILS

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-282	23.0		5	10

REVISION DATES (PRELIM. OR STAGE ONLY)

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CU

Disregard prints bearing earlier revision dates.

AS BUILT PLANS
Contract No. 06-025614
Date Completed 9-3-74
Document No. 6666555

127

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DATE 6/24/75 DIRECTOR Dick Macbur TITLE Supvg Engineer

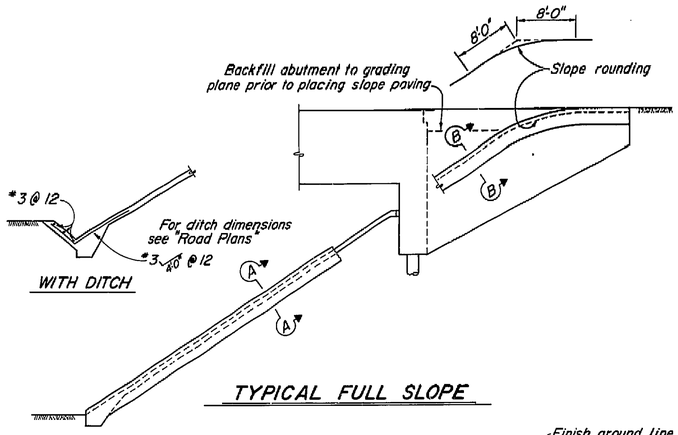
MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MICROFILM

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DIST.	COUNTY	ROUTE	POST MILES-TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	FRE	41	R 22.5/R23.8	130	235

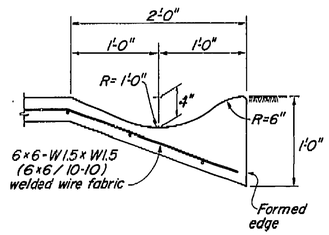
BRIDGE ENGINEER — REGISTERED CIVIL ENGINEER No. 5585

DATE APPROVED May 30, 1972

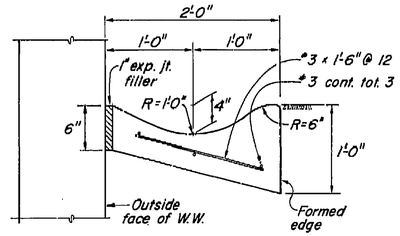


WITH DITCH

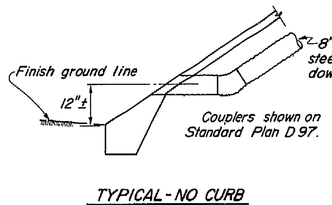
TYPICAL FULL SLOPE



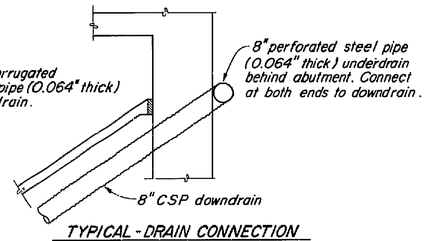
SECTION A-A



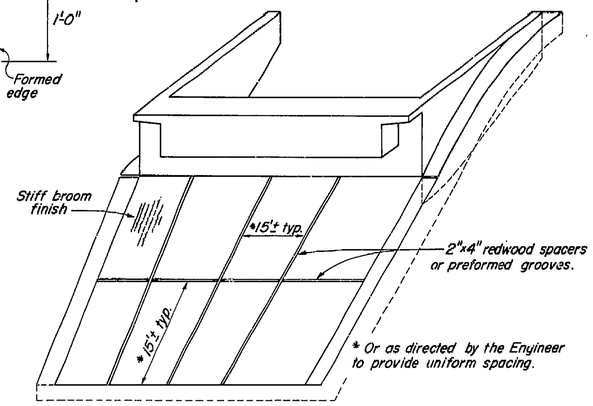
SECTION B-B



TYPICAL - NO CURB

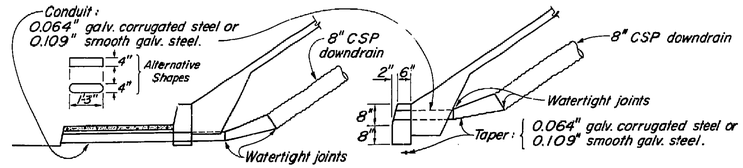


TYPICAL - DRAIN CONNECTION



PICTORIAL VIEW OF TYPICAL INSTALLATION

TYPICAL SECTION



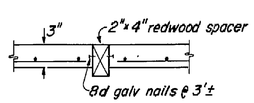
TYPICAL WITH SIDEWALK

USED

TYPICAL - WITH CURB

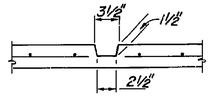
Note: In case of conflict between curb details shown here and those on Road Plans, the Road Plans shall govern.

DRAINAGE DETAILS



SPACER DETAIL

USED



PREFORMED GROOVE

LIMITS OF SLOPE PAVING

AS BUILT

CORRECTIONS BY C. Pearson

CONTRACT NO. 06-025614

DATE 1-15-75 JKH 5-16-75

STANDARD DRAWING

DESIGN | DETAILS | QUANTITIES

AS BUILT PLANS
Contract No. 06-025614
Date Completed 9-3-74
Document No. Case 6555

BRIDGE DEPARTMENT			STATE OF CALIFORNIA	
DESIGN SECTION 15			BUSINESS AND TRANSPORTATION AGENCY	XS-22-11
Project Engineer			DEPARTMENT OF PUBLIC WORKS	
			DIVISION OF HIGHWAYS	
DESIGN	In charge	J. Kwock 11/71	8 / 71	
	Checked	E N Brunberg 1-71	"O" STREET UNDERCROSSING	
DETAILS	In charge	Rand Tambert 10-71		
	Checked	E N Brunberg 1-71	SLOPE PAVING DETAILS - FULL SLOPE	
QUANTITIES	In charge	A. Hazen 1/72		
	Checked	E N Brunberg 1/72	BRIDGE NO. 42-282	POST MILE 23.0
			DRAWING NO. 8	SHEET OF 10

Disregard prints bearing earlier revision dates →

REVISION DATES (PRELIMINARY STAGE ONLY)

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DATE 6/24/75 DESIGNED David Mirabelle DRAWN Magdalena Lagunero

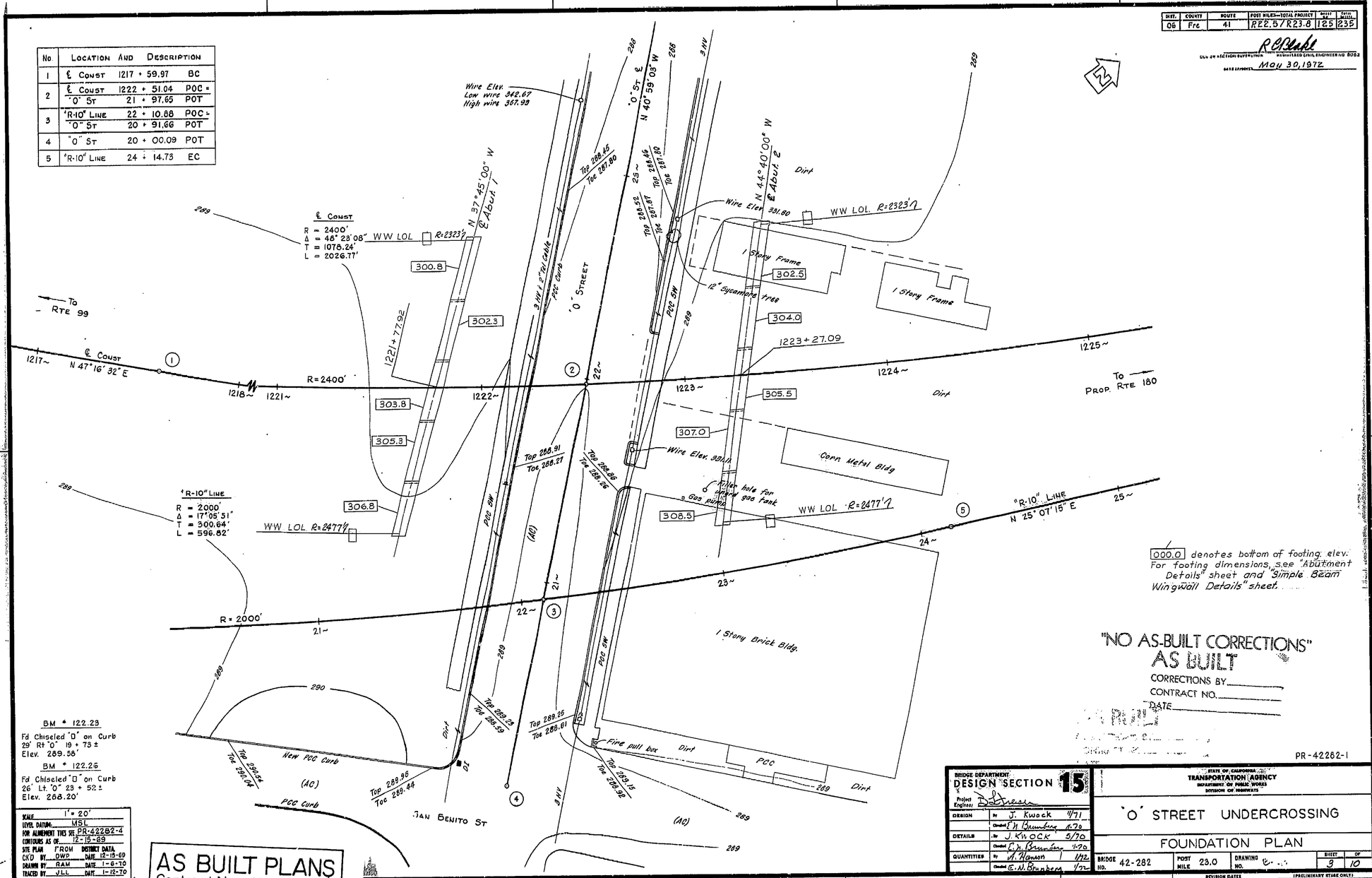
MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MICROFILM

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DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41	R22.5/R23.8	125	235

R.C. Clark
DLA OR SECTION SUPERVISOR — REGISTERED CIVIL ENGINEER NO 8082
DATE APPROVED: MAY 30, 1972

No.	Location And Description		
1	℄ Const	1217 + 59.97	BC
2	℄ Const	1222 + 51.04	POC =
	"O" St	21 + 97.65	POT
3	"R-10" Line	22 + 10.88	POC =
	"O" St	20 + 91.66	POT
4	"O" St	20 + 00.09	POT
5	"R-10" Line	24 + 14.73	EC



BM * 122.23
Fd Chiseled "O" on Curb
29' Rt "O" 19 + 73 ±
Elev. 289.58'

BM * 122.26
Fd Chiseled "O" on Curb
26' Lt "O" 23 + 52 ±
Elev. 288.20'

SCALE	1" = 20'
LEVEL DATUM:	MSL
FOR ALIGNMENT THIS SEE	PR-42282-4
CONTOURS AS OF	12-15-69
SITE PLAN FROM	DISTRICT DATA
CK'D BY	DWP DATE 12-15-69
DRAWN BY	RAM DATE 1-6-70
TRACED BY	JLL DATE 1-12-70

"NO AS-BUILT CORRECTIONS"
AS BUILT
CORRECTIONS BY
CONTRACT NO.
DATE

PR-42282-1

BRIDGE DEPARTMENT
DESIGN SECTION 15
Project Engineer D. D. Swan

DESIGN	By	J. Knock	11/71
	Checked	E.N. Brunberg	1-72
DETAILS	By	J. Knock	5/70
	Checked	E.N. Brunberg	1-70
QUANTITIES	By	A. Hanson	1/72
	Checked	E.N. Brunberg	1/72

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

"O" STREET UNDERCROSSING

FOUNDATION PLAN

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-282	23.0		3	10

REVISION DATES (PRELIMINARY STAGE ONLY)								
3/6/74	7/24/74	10/2/74						

Disregard prints bearing earlier revision dates

WO 025611
CU 06202

AS BUILT PLANS
Contract No. 06-025614
Date Completed 9-3-74
Document No. 6000 6555

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 6/24/15 SIGNATURE Rick Mueller TITLE Microfilm Supervisor

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MICROFILM

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DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	FRE	41	R22.5/R23.8	124	235

R. C. Blake
REGISTERED CIVIL ENGINEER OR ARCHITECT
DATE APPROVED May 30, 1972

GENERAL NOTES

DESIGN: A.A.S.H.O. dated 1969 with revisions and as supplemented by CRIDGE PLANNING AND DESIGN MANUAL.

LIVE LOADING: HS20-44 and alternative

REINFORCED CONCRETE: f_s = 24,000 psi, except
= 20,000 psi in transverse deck slabs and stirrups

f_c = 1,300 psi, except
= 1,200 psi in transverse deck slabs

n = 10

FOOTING PRESSURE: (TONS PER SF)	ALLOWABLE	DESIGN
Abut. 1	2.0	2.0
Abut. 2	2.0	2.0

PRESTRESSING NOTES

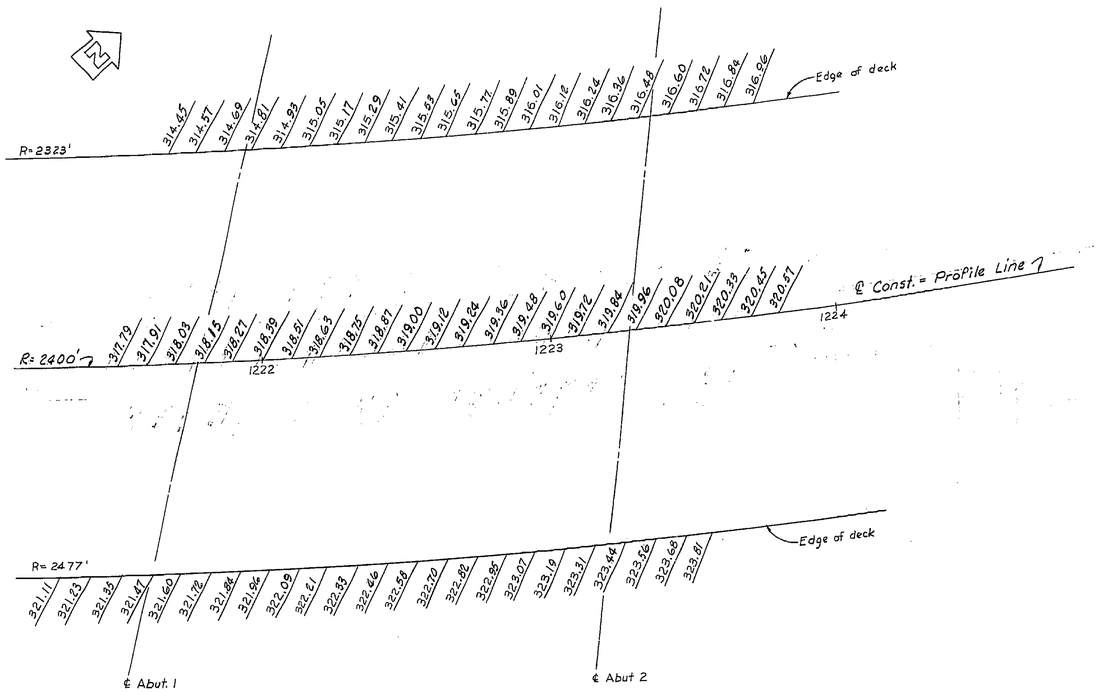
WORKING FORCE: The total force per bridge at ℄ span remaining after losses including those due to creep and shrinkage of concrete and creep of steel have occurred shall not be less than;

x in inches	working force in kips 9 girders left bridge	9 girders right bridge
8" minimum	14,000	15,500
10"	14,500	16 000
12" maximum	15,000	16,600

CONCRETE: f'_c = 4,500 psi at 28 days; f'_{ci} = 3,500 psi at time of stressing

CAMBER: Left Bridge - To be cast parabolic with camber at ℄ span = 0.21' above profile grade.

Right Bridge- To be cast parabolic with camber at ℄ span = 0.30' above profile grade.



NOTE:
Deck elevations calculated radially from ℄ Const profile line.
These elevations do not include camber.

Scale: 1" = 20'

"NO AS-BUILT CORRECTIONS"
AS BUILT
CORRECTIONS BY
CONTRACT NO.
DATE

AS BUILT PLANS
Contract No. 06-025614
Date Completed 9-3-74
Document No. 6006555

124

BRIDGE DEPARTMENT
DESIGN SECTION 15
Project Engineer B. Thrasher

DESIGN	By J. Knock	11/71
	Checked E.N. Brumberg	11-72
DETAILS	By J. KNOCK	5/70
	Checked E.N. Brumberg	4-72
QUANTITIES	By A. Hovey	1/72
	Checked E.N. Brumberg	1/72

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

"O" STREET UNDERCROSSING

10' GRID OF DECK ELEVATIONS

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-282	23.0		2	4

WO 025611
CU 06202

Dissegard prints bearing earlier revision dates

REVISION DATES (PRELIMINARY STAGE ONLY)
3/26 7/14 10/26

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 6/24/75 DRAWN Dick MacBain TITLE Supervisor

MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF TRANSPORTATION – MICROFILM
SCALE 1" = 50'
SCALE 1" = 20'
SCALE 1" = 10' or 1" = 100'
SCALE 1" = 40'

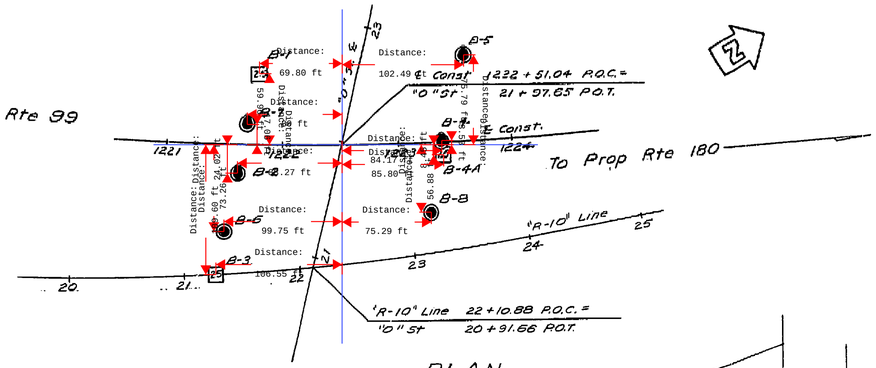
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	+1	R22.9/R23.8	132	235

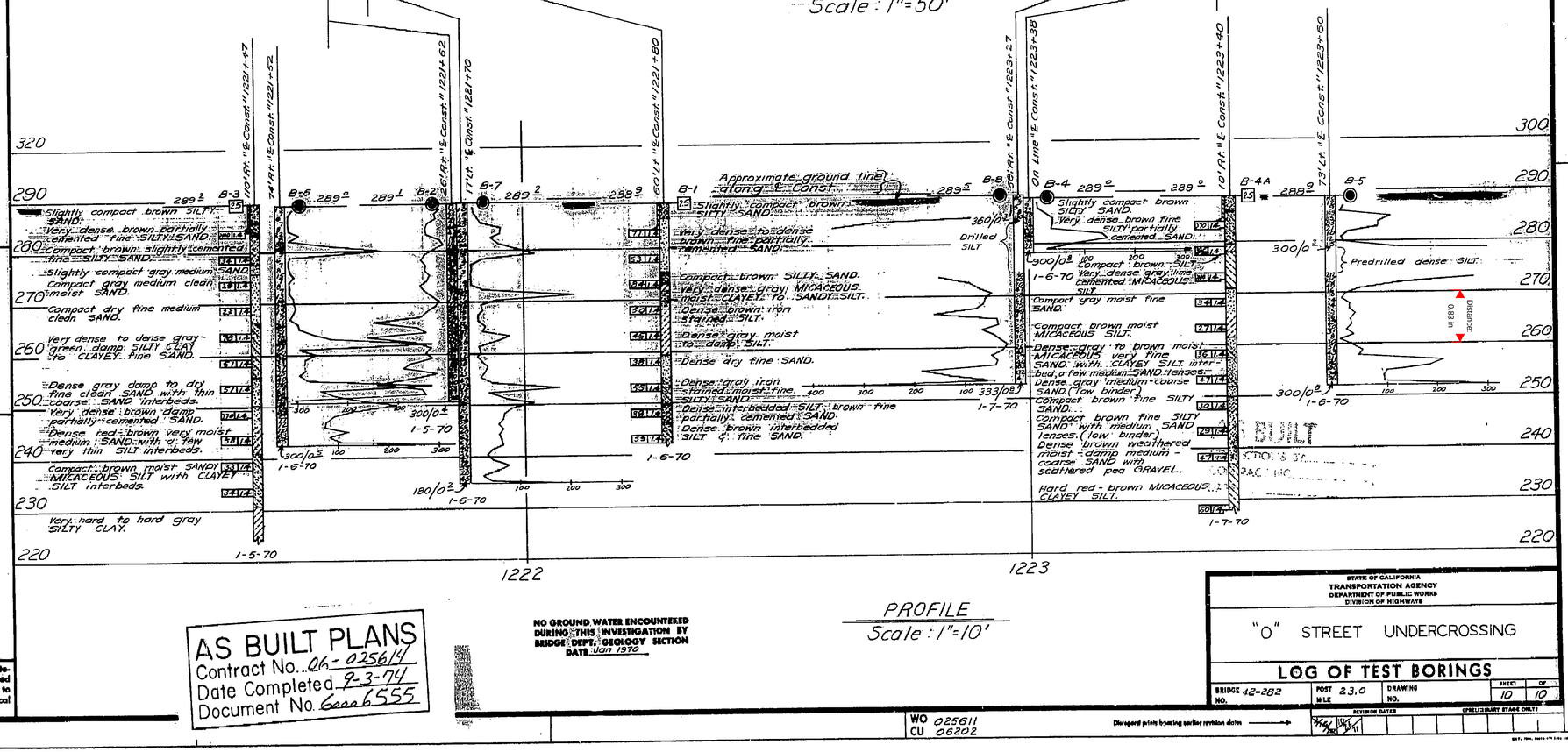
R CORLAN
DESIGN SECTION SUPERVISOR — REGISTERED CIVIL ENGINEER NO. 8082
DATE APPROVED May 30, 1972

AS BUILT
CORRECTIONS BY
CONTRACT NO.
DATE

B.M. # 122.26
Chiseled "□" on Curb
26' Lt. "O" 23+52±
Elev. 288.20



PLAN
Scale: 1"=50'



PROFILE
Scale: 1"=10'

LEGEND OF BORING OPERATIONS

Penetrometer; 2½ Cone Penetrometer; Sampler Borings (Dry); Rotary Borings (Wet); Auger Borings (Dry); Jet Borings; Auger Borings; Test Pits; 1" Soil Tube; Rotary Borings

LEGEND OF EARTH MATERIALS

Silty Clay or Clayey Silt; Peat and Organic Matter; Fill Material; Igneous Rock; Sedimentary Rock; Metamorphic Rock; Gravel; Sand; Silt; Clay; Sandy Clay or Clayey Sand; Sandy Silt or Silty Sand

CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS

Diagram showing the limits established by the Division of Clean Waters, Department of Public Works, for the terms "gravelly sand," "coarse, medium and fine sand," "silty sand," "clayey sand," "sandy clay," "silty clay," "gravelly clay," "clay," "silt," and "gravel." Refer to Standard Grade Size Limits.

NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

BRIDGE DEPARTMENT
ENGINEERING GEOLOGY SECTION

FIELD STUDY
DRAWN
CHECKED
Approved for Publication

AS BUILT PLANS
Contract No. 06-025614
Date Completed 9-3-74
Document No. 6666555

NO GROUND WATER ENCOUNTERED DURING THIS INVESTIGATION BY BRIDGE DEPT., GEOLOGY SECTION
DATE Jan 1970

WO 025611
CU 06202

Disregard prints bearing earlier revision dates

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

"O" STREET UNDERCROSSING

LOG OF TEST BORINGS

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-282	23.0		10	10

REVISION DATES (PRELIMINARY STAGE ONLY)

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.
DATE 6/24/75 SIGNED Richard M. Anderson TITLE Supervising Engineer

SCALE 1"= 50' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MICROFILM
SCALE 1"= 20' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MICROFILM
SCALE 1"= 10' or 1"= 100' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MICROFILM
SCALE 1"= 40' MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MICROFILM

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California Department of Transportation
Division of Maintenance

Structure Maintenance and Investigations

BRIDGE

INSPECTION

RECORDS

INFORMATION

SYSTEM

The requested documents have been generated by BIRIS.

These documents are the property of the California Department of Transportation and should be handled in accordance with Deputy Directive 55 and the State Administrative Manual.

Records for “Confidential” bridges may only be released outside the Department of Transportation upon execution of a confidentiality agreement.

INDEX TO PLANS

SHEET NO.	TITLE
1	GENERAL PLAN
2	INDEX TO PLANS
3	DECK CONTOURS
4	FOUNDATION PLAN NO. 1
5	FOUNDATION PLAN NO. 2
6	ABUTMENT LAYOUT
7	ABUTMENT DETAILS
8	RETAINING WALL TYPE 1(MOD) DETAILS
9	96"Ø CIDH CONCRETE PILE
10	BENT DETAILS NO. 1
11	BENT DETAILS NO. 2
12	BENT DETAILS NO. 3
13	TYPICAL SECTION
14	GIRDER LAYOUT NO. 1
15	GIRDER LAYOUT NO. 2
16	GIRDER LAYOUT NO. 3
17	GIRDER LAYOUT NO. 4
18	GIRDER REINFORCEMENT NO. 1
19	GIRDER REINFORCEMENT NO. 2
20	4"Ø COMMUNICATION CONDUIT
21	PTFE BEARING PAD
22	ABUTMENT JOINT SEAL DETAILS
23	STRUCTURE APPROACH TYPE (N30S)
24	STRUCTURE APPROACH DRAINAGE DETAILS
25	PC P/S CONCRETE DECK PANELS FOR P/S BOX GIRDERS
26	LOG OF TEST BORINGS 1 OF 4
27	LOG OF TEST BORINGS 2 OF 4
28	LOG OF TEST BORINGS 3 OF 4
29	LOG OF TEST BORINGS 4 OF 4

STANDARD PLANS DATED JULY 1992

A62C	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL-BRIDGE
B0-5	BRIDGE DETAILS
B0-13	BRIDGE DETAILS
B2-3	16' CAST-IN-DRILLED-HOLE CONCRETE PILE
B3-1	RETAINING WALL TYPE 1
B3-8	RETAINING WALL DETAILS NO. 1
B7-1	BOX GIRDER DETAILS
B7-6	DECK DRAINS TYPES D-1 & D-2
B7-10	UTILITY OPENING BOX GIRDER
B8-5	CAST-IN-PLACE PRESTRESS GIRDER DETAILS
B11-53	CONCRETE BARRIER TYPE 25

PILE DATA - CIDH CONCRETE PILES

Location			Diameter	Design Loading (Service Load)	Nominal Resistance Compression	Cut-Off Elevation	Specified Tip Elevation
LEFT BRIDGE	Abut 1	Abutment	16"	70 Tons	280 Kips	—	245.0
		Ret.Wall H-10'	16"	70 Tons	280 Kips	—	250.0
		Ret.Wall H-6'	16"	70 Tons	280 Kips	—	254.0
		Ret.Wall H-4'	16"	70 Tons	280 Kips	—	258.0
	Bent 2		96"	1680 Tons	6720 Kips	267.5	204.0
	Bent 3		96"	1893 Tons	7572 Kips	267.0	183.0
	Bent 4		96"	2058 Tons	8232 Kips	257.0 2	172.0
	Bent 5		96"	1970 Tons	7880 Kips	258.5 1	184.0 1
	Bent 6		96"	1805 Tons	7220 Kips	256.0	184.0
	Abut 7	Abutment	16"	70 Tons	280 Kips	—	251.0
		Ret.Wall H-10'	16"	70 Tons	280 Kips	—	256.0
		Ret.Wall H-6'	16"	70 Tons	280 Kips	—	260.0
		Ret.Wall H-4'	16"	70 Tons	280 Kips	—	262.0
RIGHT BRIDGE	Abut 1	Abutment	16"	70 Tons	280 Kips	—	245.0
		Ret.Wall H-10'	16"	70 Tons	280 Kips	—	250.0
		Ret.Wall H-6'	16"	70 Tons	280 Kips	—	254.0
	Bent 2		96"	1710 Tons	6840 Kips	264.5	194.0
	Bent 3		96"	1895 Tons	7580 Kips	265.0	175.0
	Bent 4		96"	2085 Tons	8340 Kips	256.0	172.0
	Bent 5		96"	2048 Tons	8192 Kips	263.0 2	187.0 2
	Bent 6		96"	2010 Tons	8040 Kips	248.5	177.0
	Abut 7	Abutment	16"	70 Tons	280 Kips	—	251.0
		Ret.Wall H-10'	16"	70 Tons	280 Kips	—	256.0
		Ret.Wall H-6'	16"	70 Tons	280 Kips	—	260.0
		Ret.Wall H-4'	16"	70 Tons	280 Kips	—	264.0

AS BUILT PLANS

Contract No. 06-342604
Contractor BENCO
Resident Engineer L. HICKINBOTHAM
Date of Completion 11/97
BY DAVID L. VALLOOR

* COPPER NAIL FINAL ELEVATIONS

1	308.17	13	302.51	25	307.46	37	310.06	49	303.28	61	307.43
2	308.12	14	301.94	26	306.73	38	309.94	50	303.26	62	306.08
3	308.11	15	301.30	27	306.07	39	309.80	51	303.02	63	304.91
4	307.94	16	301.29	28	305.19	40	309.59	52	310.88	64	303.88
5	307.75	17	301.07	29	304.32	41	309.36	53	310.41	65	303.23
6	307.47	18	308.99	30	303.30	42	308.97	54	310.81	66	302.55
7	307.16	19	308.93	31	302.69	43	308.20	55	310.70	67	302.54
8	306.61	20	308.92	32	302.06	44	307.41	56	310.62	68	302.19
9	305.88	21	308.78	33	302.05	45	306.53	57	310.42		
10	305.25	22	308.56	34	301.80	46	305.58	58	310.18		
11	304.39	23	308.27	35	310.07	47	304.64	59	309.72		
12	303.51	24	307.96	36	310.07	48	303.99	60	308.70		

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41, 99	R20.7/R22.1; 19.2/19.8	252R2	368

REGISTERED ENGINEER - CIVIL

STANLEY KU, No. 47498, Exp. 12-31-95, CIVIL, REGISTERED PROFESSIONAL ENGINEER, STATE OF CALIFORNIA

1-22-96
PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

GENERAL NOTES
LOAD FACTOR DESIGN

DESIGN: BRIDGE DESIGN SPECIFICATIONS (1983 AASHTO with Interims and Revisions by CALTRANS)

DEAD LOAD: Includes 35 psf for future wearing surface.

LIVE LOADING: HS20-44 and alternative and permit design load.

SEISMIC LOADING: Peak Rock Acceleration = 0.1g
Depth of Alluvium > 150 ft.

REINFORCED CONCRETE: f_y = 60,000 psi
f'_c = 3,250 psi
n = 9
Transverse Deck Slabs (Working Stress Design)
f_s = 20,000 psi
f_c = 1,200 psi
n = 10

PRESTRESSED CONCRETE: See "Prestressing Notes"

MARK	DATE	DESCRIPTIONS	BY	CH'D
		REVISIONS		
2	8-8-96	Changed Elevation	DL	OH
1	6-19-96	Changed Elevation	SK	DL
△				
△				
△				

CONTRACT CHANGE ORDER NO. 14
SHEET 2 OF 2

DESIGN	BY Stanley Ku	CHECKED Duc Trinh	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY Roberto Lim	CHECKED Duc Trinh	DIVISION OF STRUCTURES STRUCTURE DESIGN 8
QUANTITIES	BY Stanley Ku	CHECKED Duc Trinh	CU 06107 EA 342601

DS OSD 2139 (CADD 3/95)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

BRIDGE NO. 42-266 R/L
POST MILE R22.1

ROUTE 41/99 SEPARATION
INDEX TO PLANS

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)

CLAM SHEET ID | SHEET 2 | OF 29

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RELEASED 11-2-92

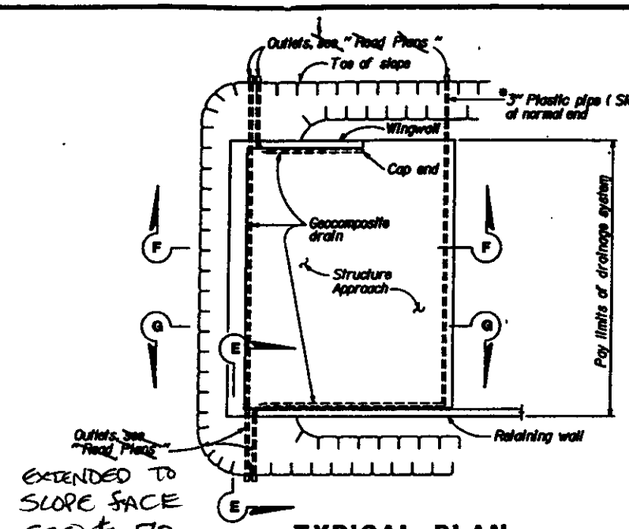
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41, 99	R20.7/R22.1, 19.2/19.8	274	368

REGISTERED ENGINEER - CIVIL

STANLEY KU
No. 47458
Exp. 6-30-95
CIVIL
STATE OF CALIFORNIA

1-22-96
PLANS APPROVAL DATE

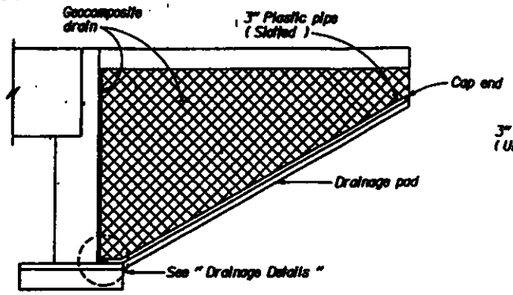
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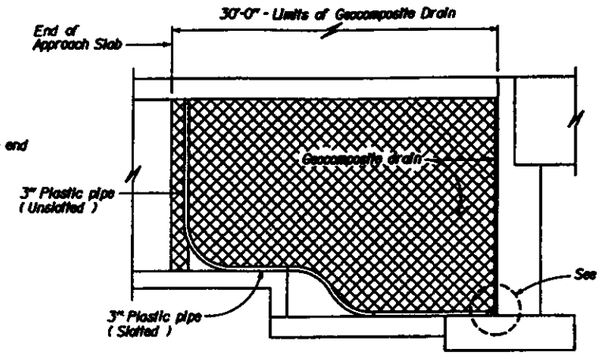
EXTENDED TO SLOPE FACE CCO # 70

TYPICAL PLAN
1" = 10'

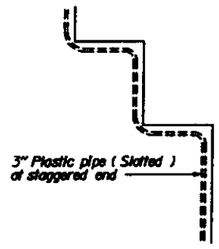
* For pipe layout at staggered end, see "Detail B."



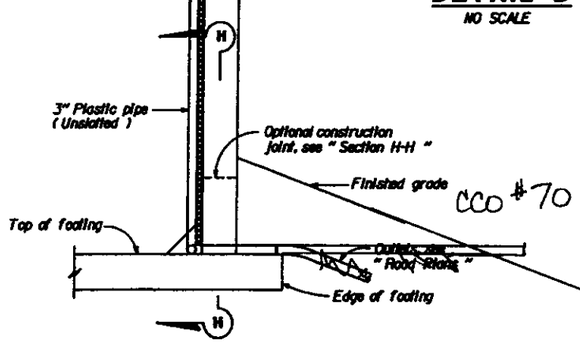
CANTILEVER WINGWALL SECTION F-F
1/4" = 1'-0"



RETAINING WALL WINGWALL SECTION G-G
1/4" = 1'-0"



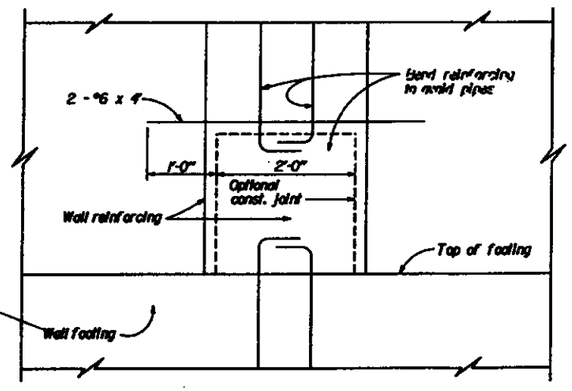
DETAIL B
NO SCALE



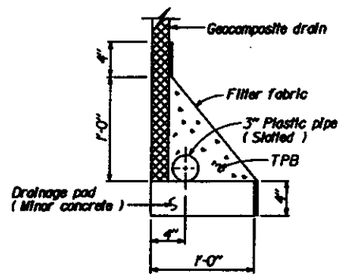
CCO # 70

SECTION E-E
1/2" = 1'-0"

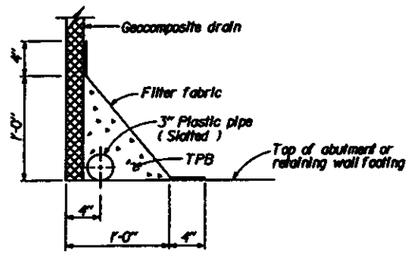
NOTE: Bends and junctions in 3" plastic pipe are 30" radius min.



SECTION H-H
1" = 1'-0"



WITHOUT FOOTING



WITH FOOTING

DRAINAGE DETAILS
1/2" = 1'-0"

AS BUILT PLANS

Contract No. 06-342604
Contractor BGN CO
Resident Engineer L. WICKINGHAM
Date of Completion 11/97
BY DAVID L. VALLEJOS

STANDARD DRAWING					
FILE NO. XS 22-17	DESIGN	BY M. Traffalis	CHECKED E. Thortildsen	APPROVAL RECOMMENDED BY	
DESIGN DATE 8/92	DETAILS	BY R. Yee	CHECKED E. Thortildsen	DESIGN SUPERVISOR	
	SUBMITTED BY	M. Ha			

OS OSD 2417A (CADD 4/99)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN

CU 0607
EA 34260I

BRIDGE NO.	ROUTE 41/99 SEPARATION
42-266R/L	
POST MILE R22.1	STRUCTURE APPROACH DRAINAGE DETAILS

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 24 OF 29

XSB07.DGN VH

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AS BUILT PLANS

Contract No. 06-342604
Contractor BGNW
Resident Engineer L. HIGGINBOTHAM
Date of Completion 11/97
BY DAVID LLANOS L. VALLEJOS
NO CHANGES.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41, 99	R20.7/R22.1, 19.2/19.8	255	368

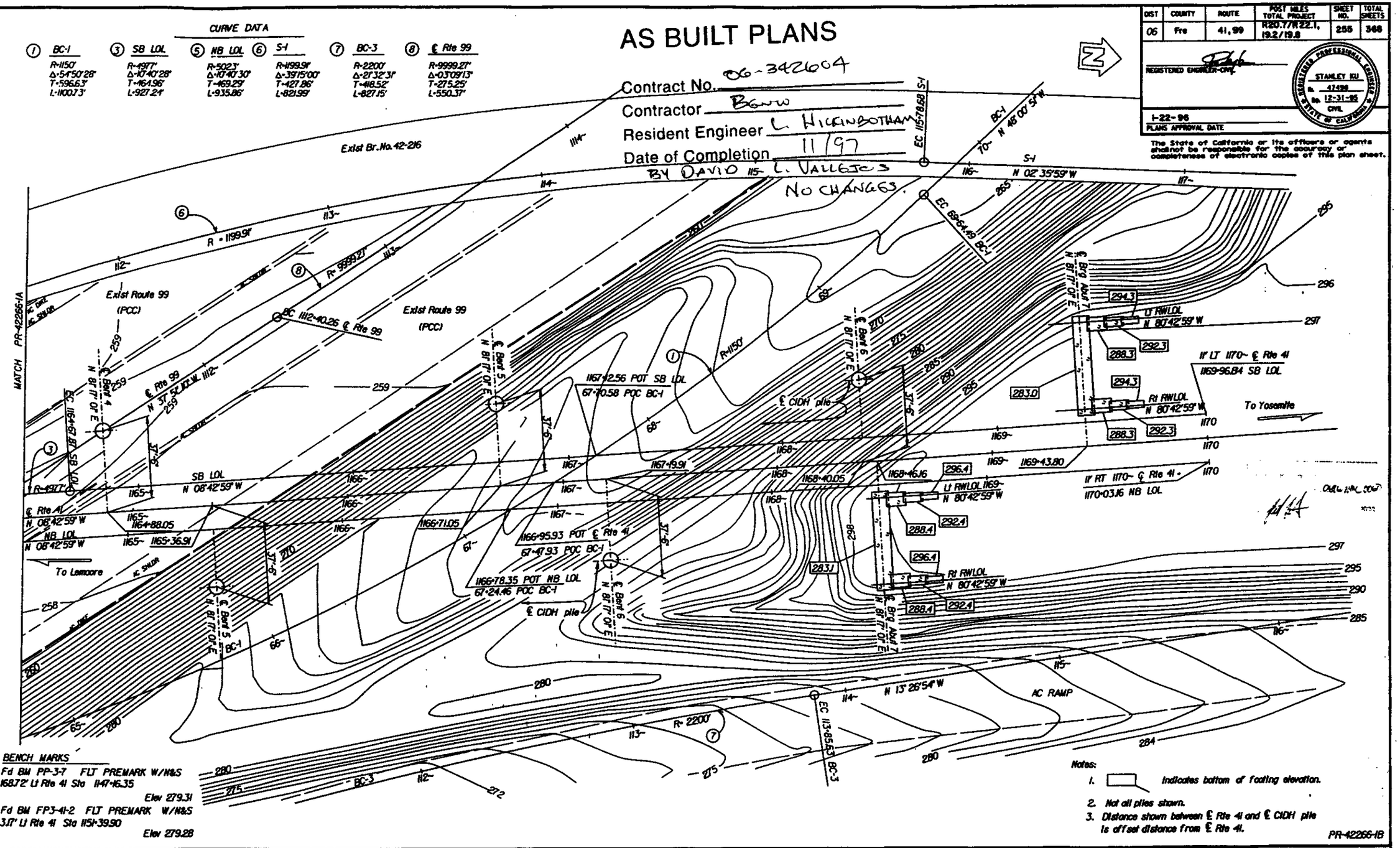
REGISTERED ENGINEER-CIVIL — STANLEY KU — No. 47499 — Exp. 12-31-95 — CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

1-22-96
PLANS APPROVAL DATE

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CURVE DATA

① BC-1	③ SB LOL	⑤ NB LOL	⑥ S-1	⑦ BC-3	⑧ ℄ Rte 99
R=1150'	R=4977'	R=5023'	R=11999.91'	R=2200'	R=9999.27'
Δ=5°50'28"	Δ=10°40'28"	Δ=10°40'30"	Δ=39°15'00"	Δ=21°32'31"	Δ=0°30'13"
T=596.63'	T=464.96'	T=469.29'	T=427.86'	T=418.52'	T=275.25'
L=1100.73'	L=927.24'	L=935.86'	L=821.99'	L=827.15'	L=550.37'



BENCH MARKS

Fd BM PP-3-7 FLT PREMARK W/N&S
168.72' Lt Rte 41 Sta 1147+16.35
Elev 279.31

Fd BM FP3-41-2 FLT PREMARK W/N&S
3.17' Lt Rte 41 Sta 1151+39.90
Elev 279.28

Notes:
1. ▭ Indicates bottom of footing elevation.
2. Not all piles shown.
3. Distance shown between ℄ Rte 41 and ℄ CIDH pile is offset distance from ℄ Rte 41.

PR-42266-1B

PRELIMINARY INVESTIGATION SECTION											
SCALE 1" = 20'	DATUM NGVD, 1929	PHOTOGRAMMETRY AS OF:		DRAWN	BY	PJC 7/95	DESIGN	BY Stanley Ku	CHECKED Duc Trinh	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURES DESIGN 8	BRIDGE NO. 42-266 R/L	ROUTE 41/99 SEPARATION
		SURVEYED BY SRS 3/93		TRACED	BY	PJC 8/95	DETAILS	BY David Forbes	CHECKED Duc Trinh			POST MILE R22.1	FOUNDATION PLAN NO. 2
ALIGNMENT TIES DIST TRAV SHEETS		FIELD CHECKED BY		CHECKED	BY	BRL 8/95	QUANTITIES	BY Stanley Ku	CHECKED Duc Trinh		CU 06107 EA 342601	DISREGARD PRINTS BEARING EARLIER REVISION DATES →	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET 5	OF 29
DS OSD 2145 14/89							ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3								

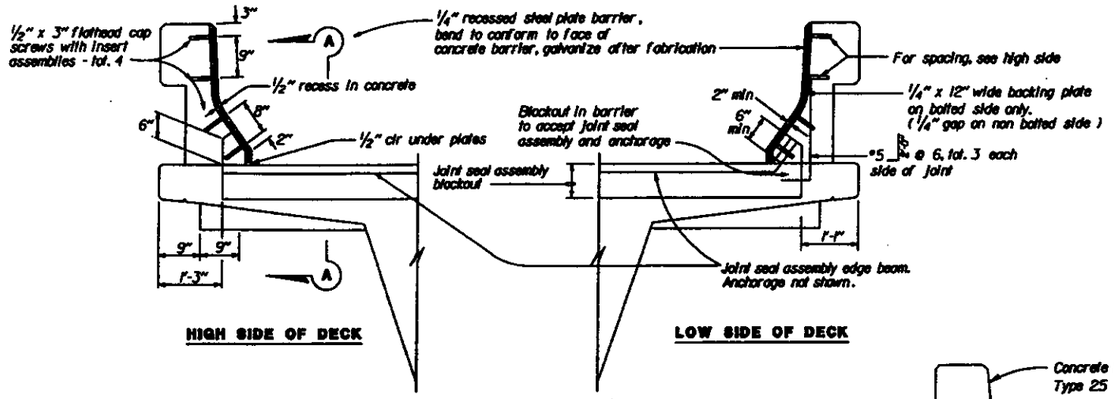
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41, 99	R20.7/R22.1, R9.2 / R9.8	272	368

REGISTERED ENGINEER - CIVIL — STANLEY KU — 42496 — Exp. 12-31-96 — CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

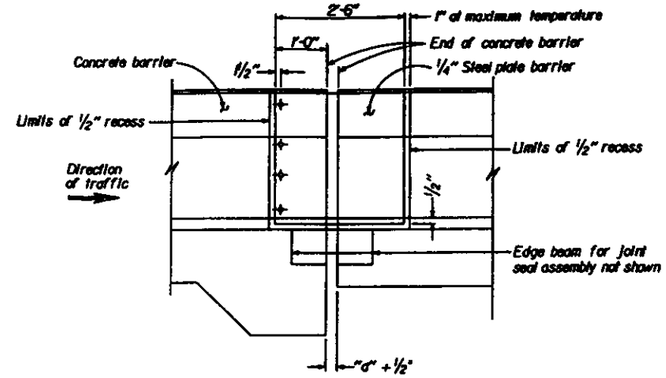
1-22-96
PLANS APPROVAL DATE

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SEAL INSTALLATION

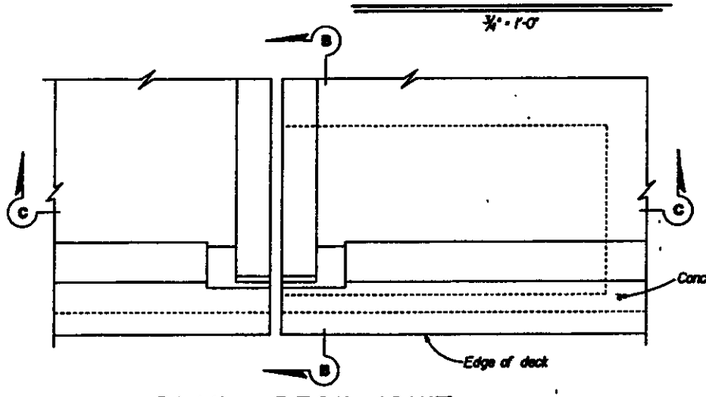
¾" = 1'-0"



SECTION A-A

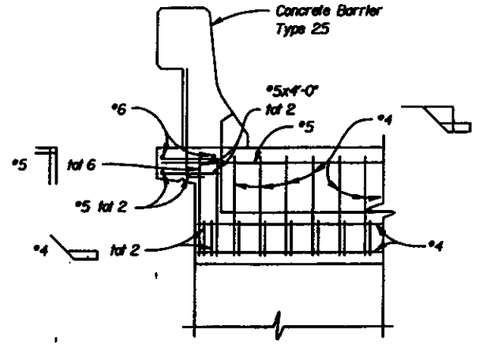
No Scale

* Bend reinforcement if interferes with supports for Joint Seal Assembly



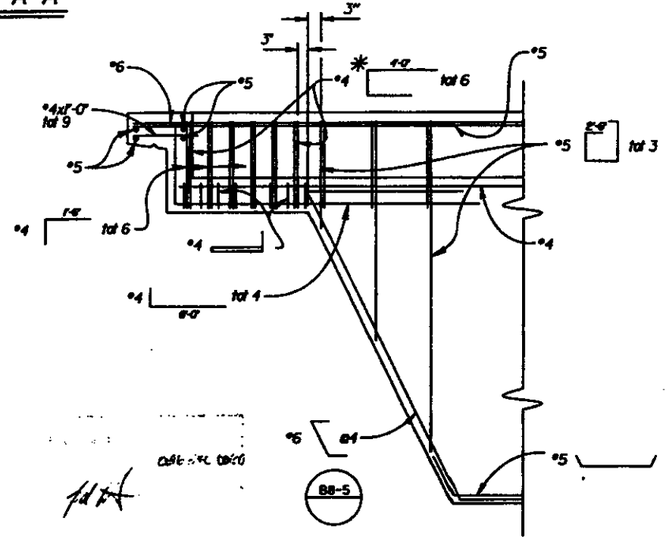
PLAN - DECK JOINT

¾" = 1'-0"



JOINT SEAL ASSEMBLY BLOCKOUT AT STRUCTURE APPROACH

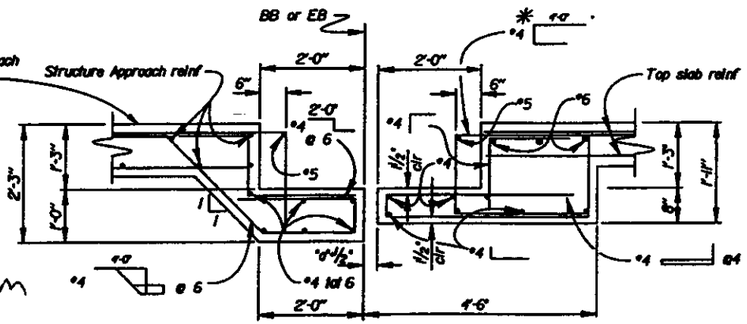
¾" = 1'-0"



SECTION B-B

¾" = 1'-0"

NOTE: Reinf. shown is in addition to slab reinf., see "Typical Section" sheet.



SECTION C-C

¾" = 1'-0"

JOINT INFORMATION		"d" DIMENSIONS			
LOCATION	MOVEMENT RATING (M.R.)	SKEW	WINTER	SPRING & FALL	SUMMER
Left Bridge - Abut 1	6½	N/A	3/4"	2½"	1¾"
Left Bridge - Abut 7	7	N/A	3½"	2½"	1¾"
Right Bridge - Abut 1	6	N/A	3"	2¼"	1½"
Right Bridge - Abut 7	8	N/A	4"	3"	2"

AS BUILT PLANS

Contract No. 06-342604
Contractor BENCO
Resident Engineer L. NICKINBOTHAM
Date of Completion 11/97

NO CHANGES
BY DAVID L. VALLEJOS

DESIGN	BY Stanley Ku	CHECKED Duc Trinh	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 8
DETAILS	BY David Forbes	CHECKED Duc Trinh		
QUANTITIES	BY Stanley Ku	CHECKED Duc Trinh		

CU 0807
EA 34260

BRIDGE NO. 42-266 R/L
POST MILE R22.1

ROUTE 41/99 SEPARATION
ABUTMENT JOINT SEAL DETAILS

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES

PLAN SHEET NO. 22 OF 29

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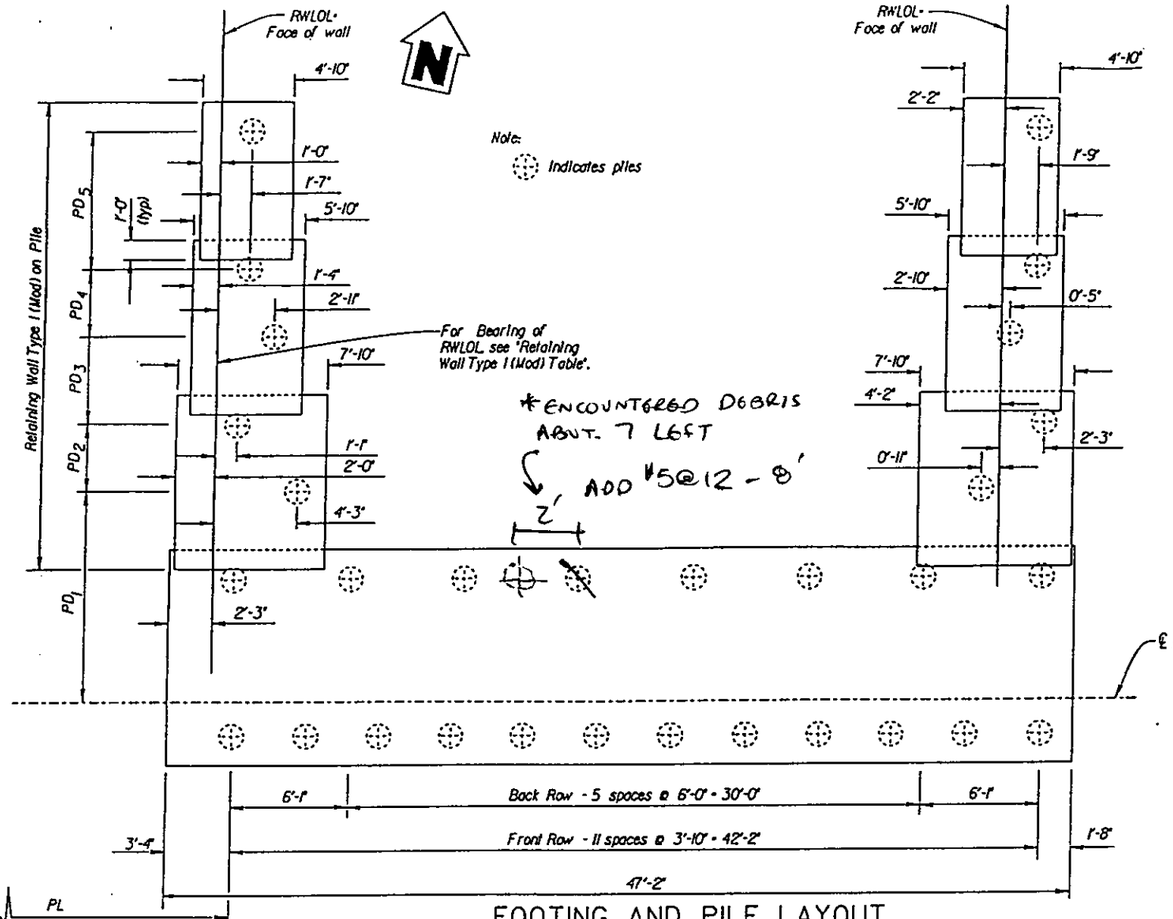
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41, 99	R20.7/R22.1, 19.2/19.8	258S	368

REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — DER-FU DONALD LEE — No. 50918 — Exp. 9-30-97 — CIVIL — STATE OF CALIFORNIA

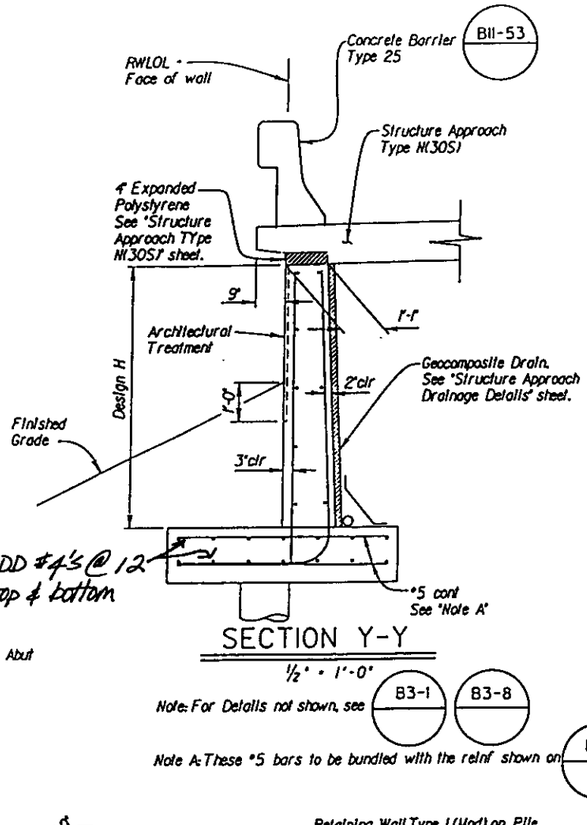
1-22-96
PLANS APPROVAL DATE

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FOOTING AND PILE LAYOUT

1/4" = 1'-0"



SECTION Y-Y

1/2" = 1'-0"

Note: For Details not shown, see B3-1 B3-8

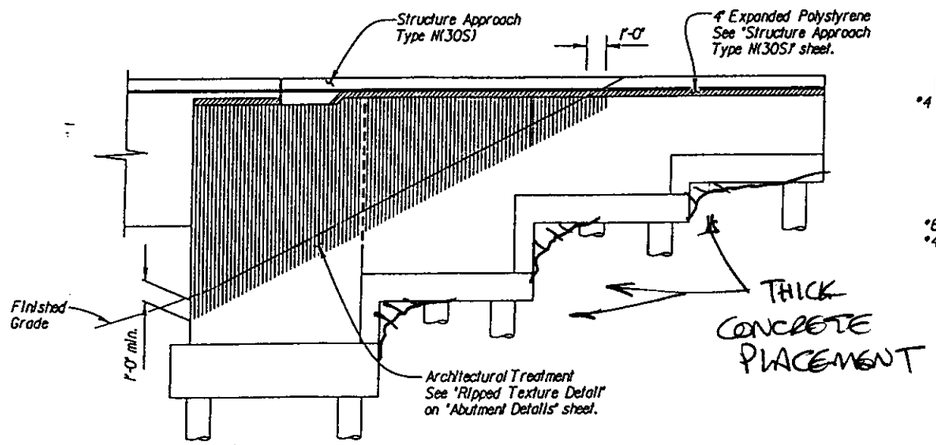
Note A: These #5 bars to be bundled with the reinf shown on B3-1 ("c" & "d" bars)

RETAINING WALL TYPE I (MOD) TABLE

LOCATION	RIGHT BRIDGE		LEFT BRIDGE	
	Abutment 7		Abutment 7	
	Lt. Wall	Rt. Wall	Lt. Wall	Rt. Wall
PD1	10'-9"	10'-9"	10'-9"	10'-9"
PD2	3'-6"	3'-6"	3'-6"	3'-6"
PD3	4'-6"	4'-6"	4'-6"	4'-6"
PD4	3'-6"	3'-6"	3'-6"	3'-6"
PD5	7'-0"	7'-0"	7'-0"	7'-0"
WL	24'-0"	24'-0"	24'-0"	24'-0"
WL1	8'-0"	8'-0"	8'-0"	8'-0"
WL2	8'-0"	8'-0"	8'-0"	8'-0"
WL3	8'-0"	8'-0"	8'-0"	8'-0"
H1	10'-0"	10'-0"	10'-0"	10'-0"
H2	6'-0"	6'-0"	6'-0"	6'-0"
H3	4'-0"	4'-0"	4'-0"	4'-0"
R	NA	NA	NA	NA
BRG.	N8°42'59"W	N8°42'59"W	N8°42'59"W	N8°42'59"W
PL	18'-1"		18'-1"	

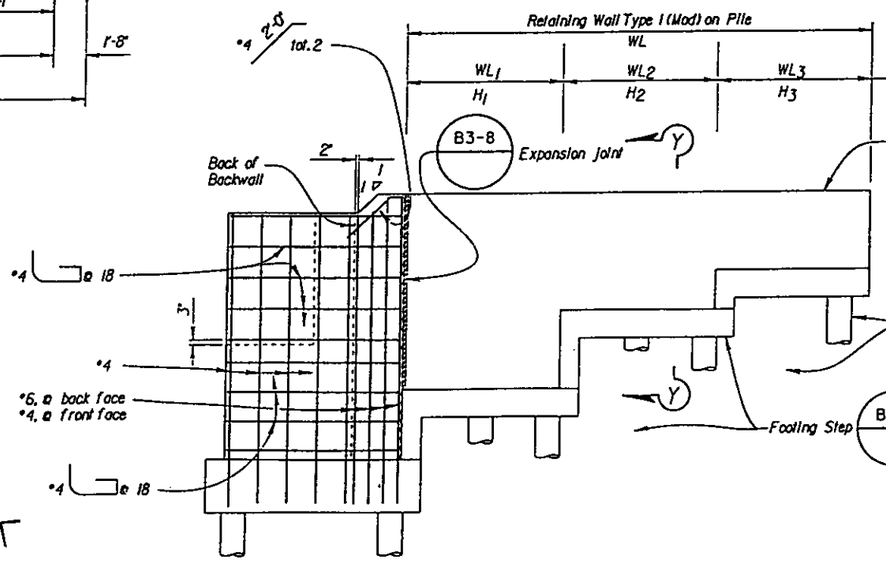
AS BUILT PLANS

Contract No. 06-342604
Contractor BENZO
Resident Engineer L. NICKINBOTHAM
Date of Completion 11/97
BY DAVID L. VALLEJOS



LIMITS OF ARCHITECTURAL TREATMENT

1/4" = 1'-0"



Note:
Right Wall of Abutment 7
Right Bridge shown, others similar.

RETAINING WALL TYPE I (MOD)

1/4" = 1'-0"

NOTE: THIS SHEET TO BE APPLIED TO ABUTMENT 7 LEFT AND RIGHT BRIDGES ONLY. FOR ABUTMENT 1 DETAILS, SEE "RETAINING WALL TYPE I (MOD) DETAILS" SHEET.

RECEIVED
NOV 07 1996
BY:

SUPPLEMENTAL SHEET
CONTRACT CHANGE ORDER NO. 19
SHEET 2 OF 2

DESIGN	BY Don Lee	CHECKED Overcomer Hor	
DETAILS	BY Roberto Lim	CHECKED Overcomer Hor	
QUANTITIES	BY Don Lee	CHECKED Overcomer Hor	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 8

CU 06107
EA 342601

BRIDGE NO. 42-266R/L
POST MILE R22.1

ROUTE 41/99 SEPARATION

RET WALL TYPE I (MOD) DETAILS - ABUT 7 (LT & RT)

DISREGARD PRINTS BEARING EARLIER REVISION DATES

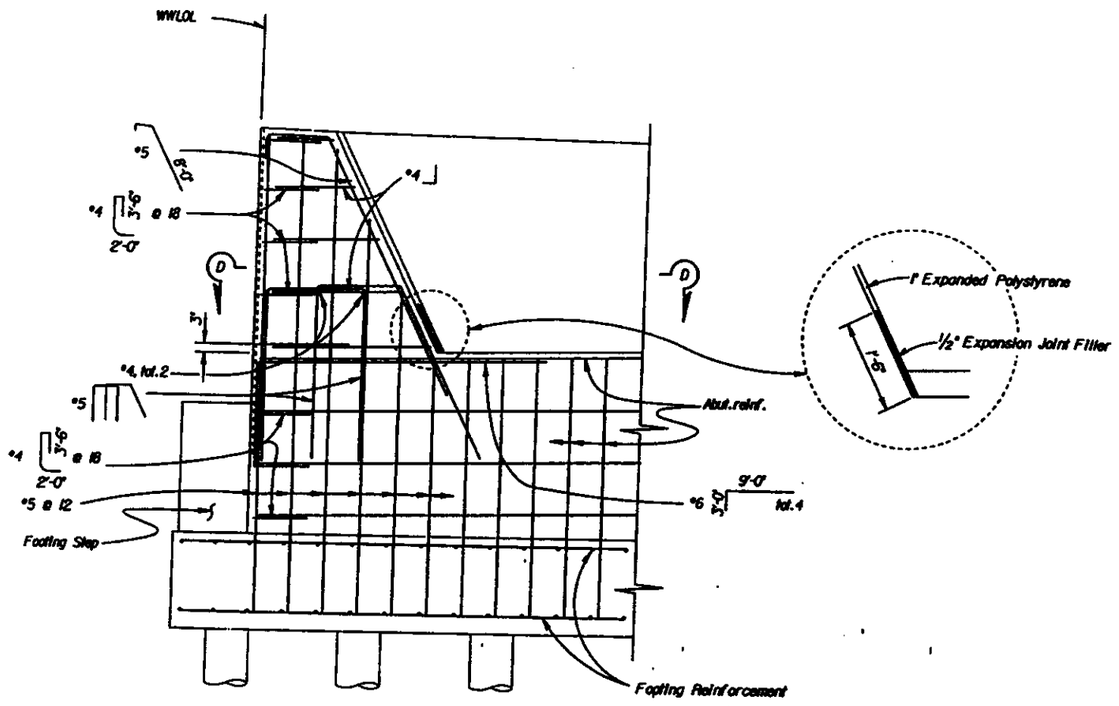
REVISION DATES (PRELIMINARY STAGE ONLY)
0-75-96

SHEET 8A OF 29

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

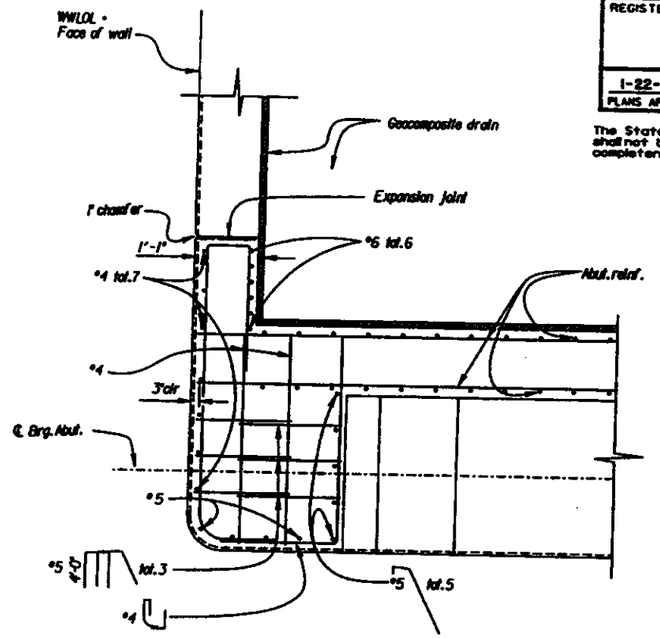
DS 050 2139 (CADD 9/95)

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EXTERNAL KEY DETAIL

½" = 1'-0"



SECTION D-D

½" = 1'-0"

AS BUILT PLANS

Contract No. 06-342604

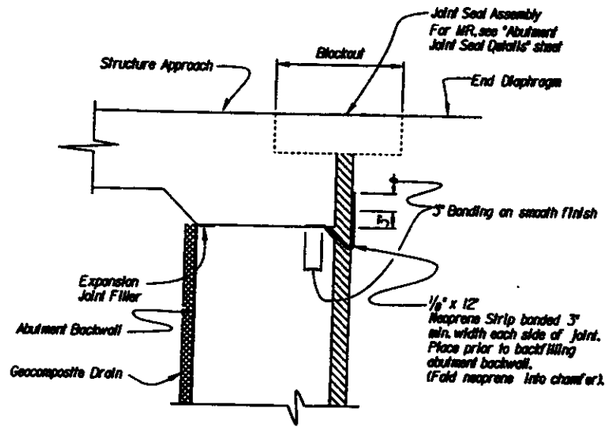
Contractor BENCO

Resident Engineer L. HICKINBOTHAM

Date of Completion 11/97

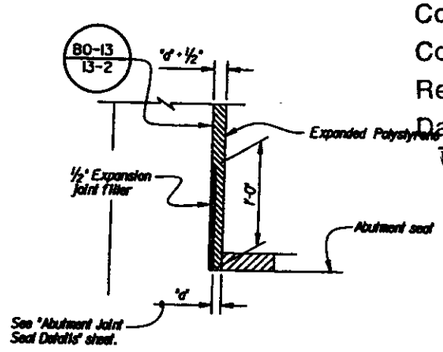
BY DAVID L. VALLEJOS

NO CHANGES.



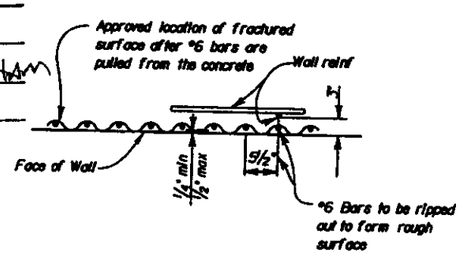
JOINT PROTECTION DETAILS

No Scale



BACK WALL BASE DETAIL

No Scale



RIPPED TEXTURE DETAIL

1"=1'-0"

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41,99	R20.7/R22.1, 19.2/19.8	257	368

REGISTERED ENGINEER - CIVIL

STANLEY KU No. 47458 Exp. 12-31-98 CIVIL

1-22-96

PLANS APPROVAL DATE

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DESIGN	BY Stanley Ku	CHECKED Duc Trinh
DETAILS	BY [signature] 08-95	CHECKED Duc Trinh
QUANTITIES	BY Stanley Ku	CHECKED Duc Trinh

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 8

CU 0607
EA 34260

BRIDGE NO. 42-266R/L
POST MILE R22.3

ROUTE 41/99 SEPARATION

ABUTMENT DETAILS

DRAWINGS, PRINTS BEARING EARLIER REVISION DATES —

REVISION DATES (PRELIMINARY STAGE ONLY)

PLAN SHEET NO. 7 OF 29

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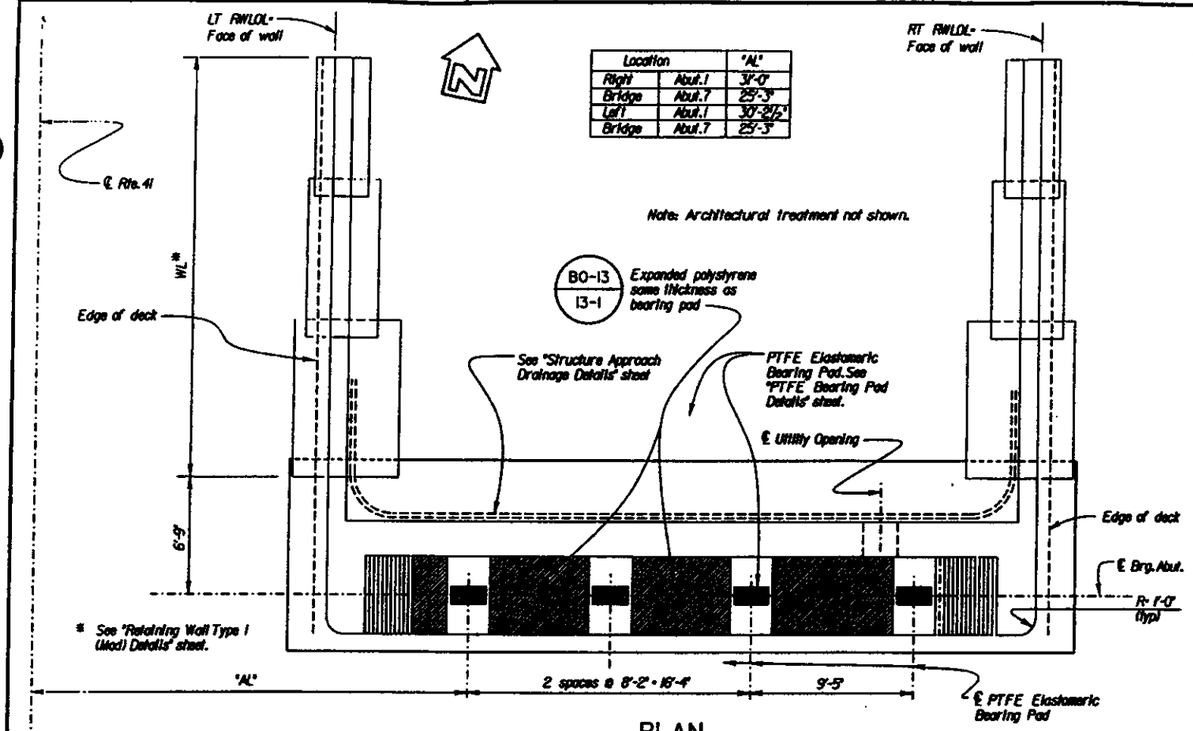
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41,99	R20.7/R22.1, 19.2 / 19.8	256	368

REGISTERED ENGINEER - CIVIL — STANLEY KU — 47498 — Exp. 12-31-95 — CIVIL

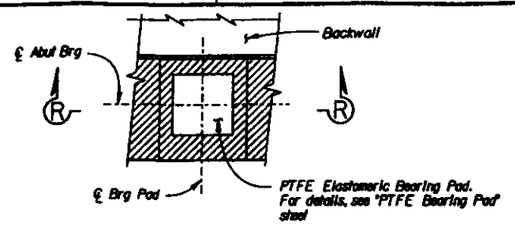
1-22-96
PLANS APPROVAL DATE

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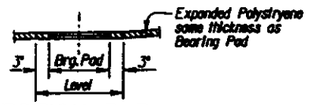
Location		"AL"
Right Bridge	Abut.1	31'-0"
	Abut.7	25'-3"
Left Bridge	Abut.1	30'-2½"
	Abut.7	25'-3"



PLAN
1/4" = 1'-0"

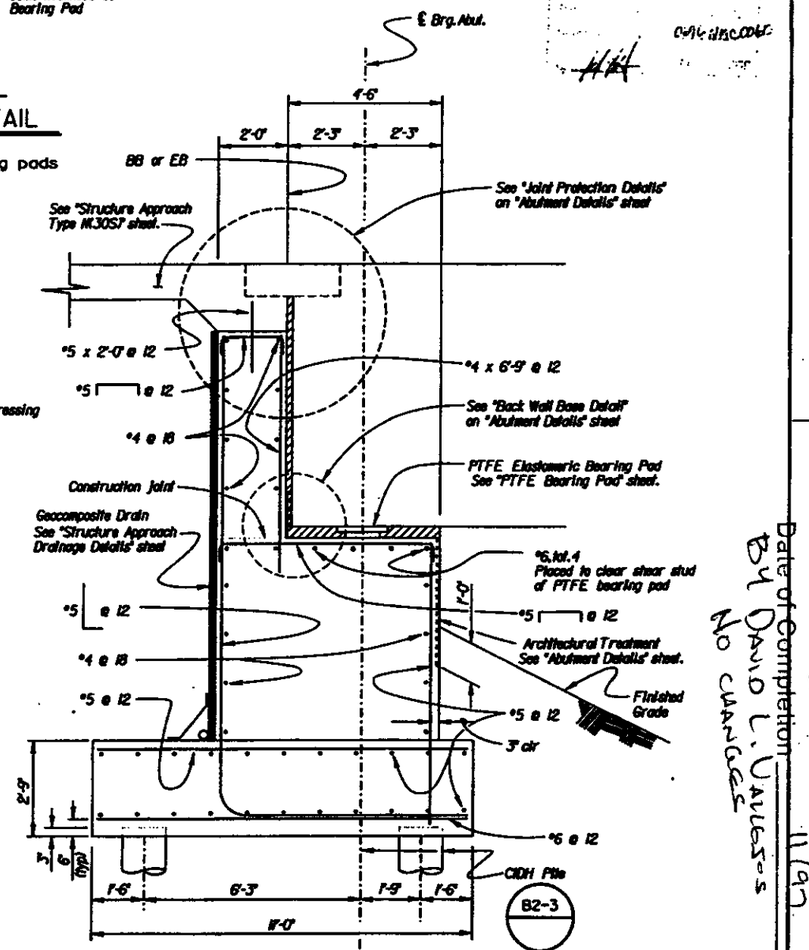


PLAN

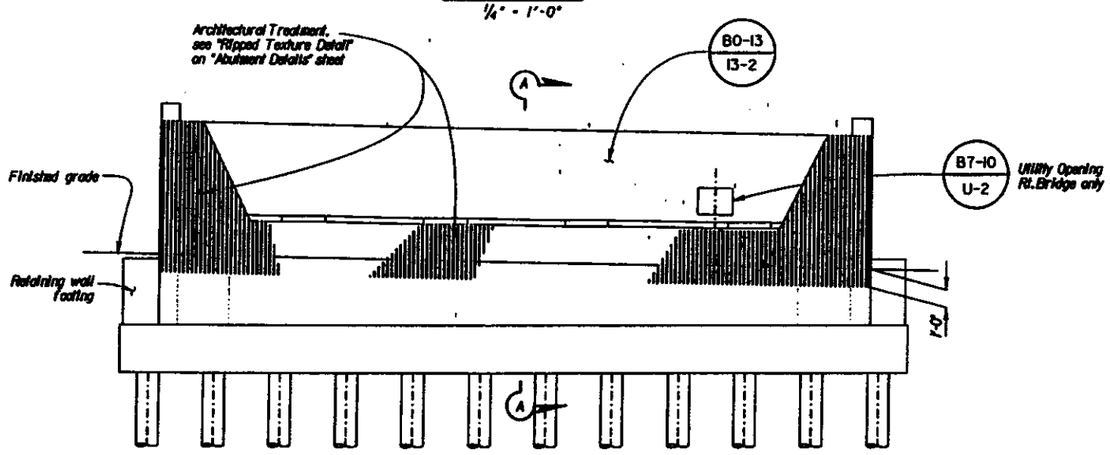


SECTION R-R

BEARING PAD DETAIL
No Scale
Details typical at all bearing pads



Note: Back Wall shall be placed after completion of prestressing



ELEVATION
1/4" = 1'-0"

Note: Abutment 7 of Right Bridge shown, others similar.

SECTION A-A
1/2" = 1'-0"

AS BUILT PLANS
Contract No. 06-342604
Contractor Bess
Resident Engineer L. Hunbottom
Date of Completion 11-97
By David L. Vallees
No changes

DESIGN	BY Stanley Ku	CHECKED Duc Trinh	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 8	BRIDGE NO. 42-0068R/L; POST MILE R22.3
DETAILS	BY Stanley Ku	CHECKED Duc Trinh			
QUANTITIES	BY Stanley Ku	CHECKED Duc Trinh			

ROUTE 41/99 SEPARATION
ABUTMENT LAYOUT

CU 0607
EA 342601

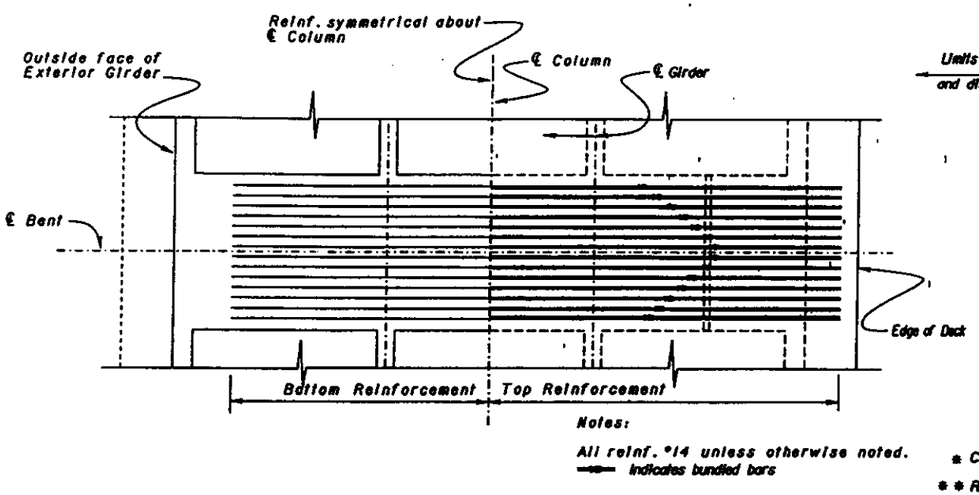
DS 859 209 (CAD) 3/99

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3

STANDARD PRINTS SHOWING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY) | PLAN SHEET NO. 6 | SHEET 6 | OF 29

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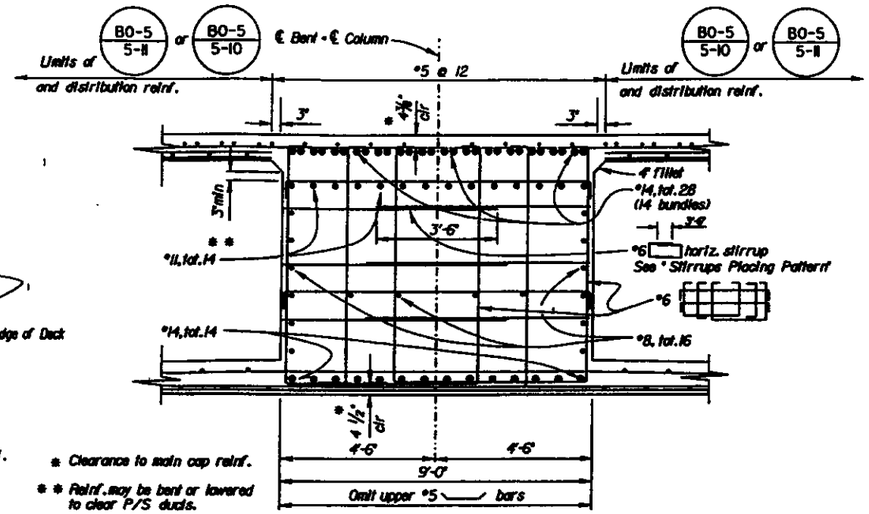


Notes:

All reinf. #14 unless otherwise noted.
═══ Indicates bundled bars

BENT CAP REINFORCEMENT

1/4" = 1'-0"

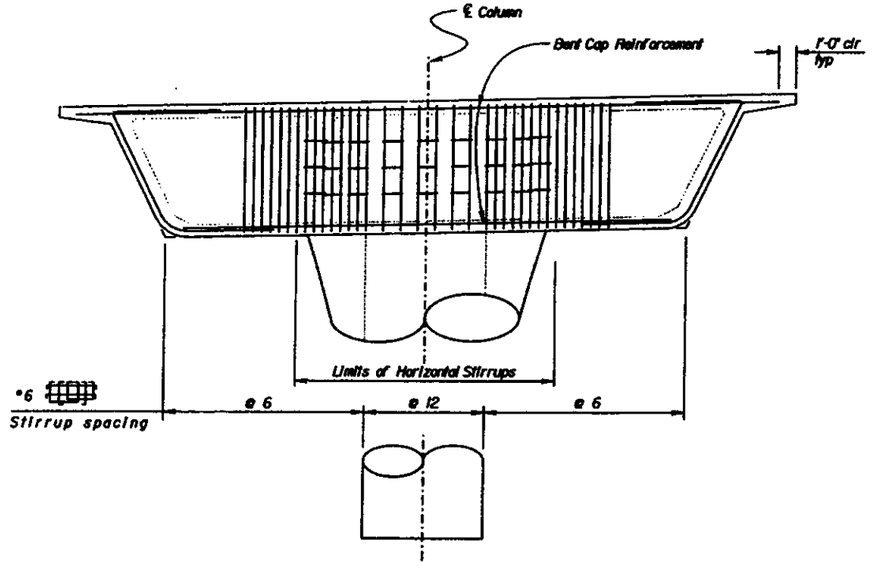


* Clearance to main cap reinf.

** Reinf. may be bent or lowered to clear P/S ducts.

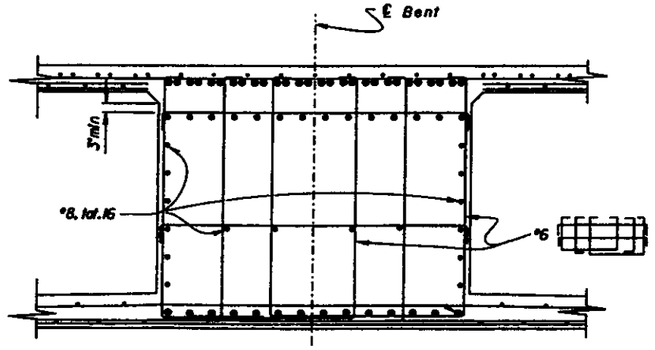
SECTION N-N

1/2" = 1'-0"



HORIZONTAL STIRRUPS PLACING PATTERN

1/4" = 1'-0"



Note: For details not shown, see "Section N-N".

SECTION M-M

1/2" = 1'-0"

Note:
For locations of Section M-M and N-N, see "Bent Details No.1" sheet.

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41,99	R20.7/R22.1, 19.2/19.8	281	368

REGISTERED ENGINEER - CIVIL

STANLEY KU, No. 47498, Exp. 12-31-95, CIVIL, REGISTERED PROFESSIONAL ENGINEER, STATE OF CALIFORNIA

1-22-96
PLANS APPROVAL DATE

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AS BUILT PLANS

Contract No. 06-342604
Contractor BENCO
Resident Engineer L. HICKINBOTHAM
Date of Completion 11/97
BY DAVID L. VALLEJOS
NO CHANGES.

DESIGN	BY Stanley Ku	CHECKED Duc Trinh	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 8	BRIDGE NO. 42-266R/L
DETAILS	BY [signature] 08-95	CHECKED Duc Trinh			POST MILE R22.1
QUANTITIES	BY Stanley Ku	CHECKED Duc Trinh			

ROUTE 41/99 SEPARATION
BENT DETAILS NO. 2

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3

CU 0807
EA 34260

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)

PLAN SHEET NO. 11 OF 29

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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41, 99	R20.7/R22.1, 19.2/19.8	260	368

REGISTERED ENGINEER - CIVIL

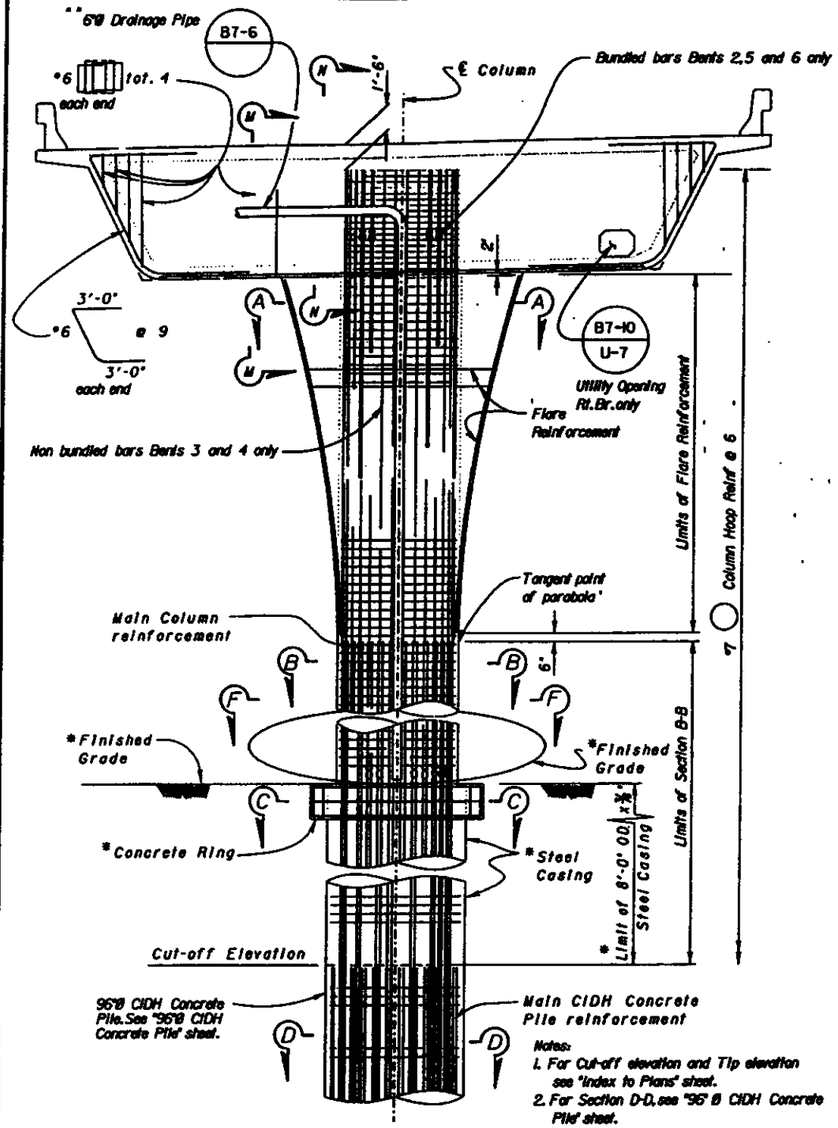
1-22-96
PLANS APPROVAL DATE

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AS BUILT PLANS

Contract No. 06-342609
Contractor BENCO
Resident Engineer L. HICKINBOTHAM
Date of Completion 11/97
BY DAVID L. VALLEJOS

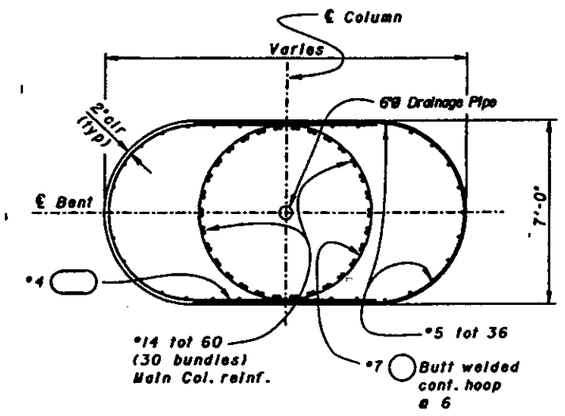
DRAFTING ERROR



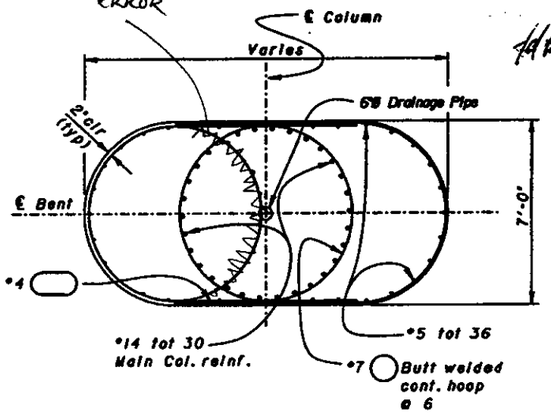
ELEVATION
¼" = 1'-0"

Notes:
1. For Cut-off elevation and Tip elevation see "Index to Plans" sheet.
2. For Section D-D, see "96" Ø CIDH Concrete Pile" sheet.
3. For Section M-M and N-N, see "Bent Details No.2" sheet.
4. For View F-F and "Column Geometrics", see "Bent Details No.3" sheet.
5. For location of tangent point of parabola, see "Column Geometrics" on "Bent Details No.3" sheet.
6. All hoop reinforcements are butt welded continuous hoop, see "96" Ø CIDH Concrete Pile" sheet.

ℓ Indicates bundled bars

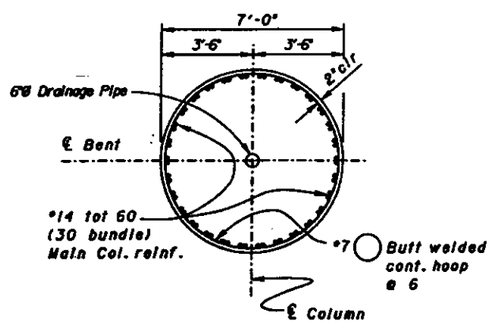


BENTS 2, 5, 6

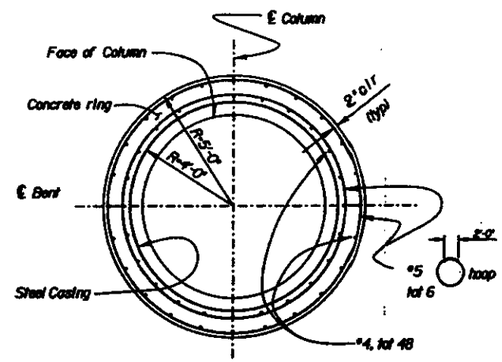


BENTS 3, 4

SECTION A-A
¾" = 1'-0"



SECTION B-B
¾" = 1'-0"

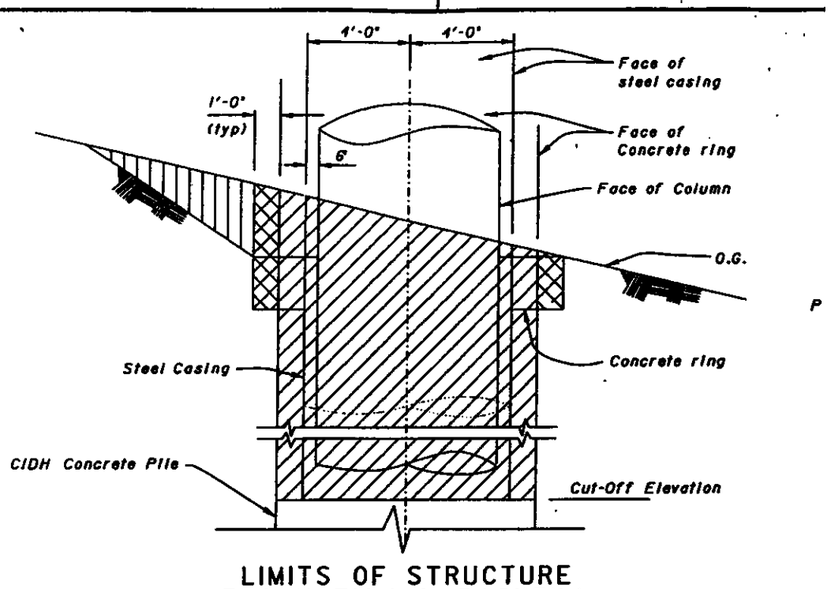


SECTION C-C Bent 2 and Bent 6 only
¾" = 1'-0"

DESIGN	BY Stanley Ku	CHECKED Duc Trinh	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 8	BRIDGE NO. 42-256R/L	ROUTE 41/99 SEPARATION	
DETAILS	BY [signature] 08-95	CHECKED Duc Trinh			POST MILE R22.1	BENT DETAILS NO. 1	
QUANTITIES	BY Stanley Ku	CHECKED Duc Trinh		CU 0607 EA 34260			SHEET 10 OF 29

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

ClibPDF - www.fastio.com



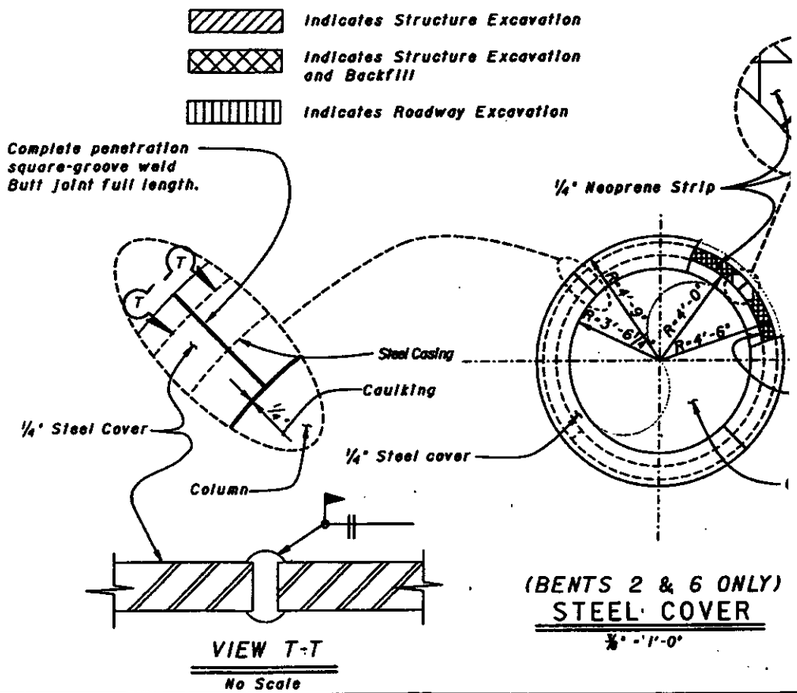
LIMITS OF STRUCTURE EXCAVATION & BACKFILL

3/8" = 1'-0"

Indicates Structure Excavation

Indicates Structure Excavation and Backfill

Indicates Roadway Excavation



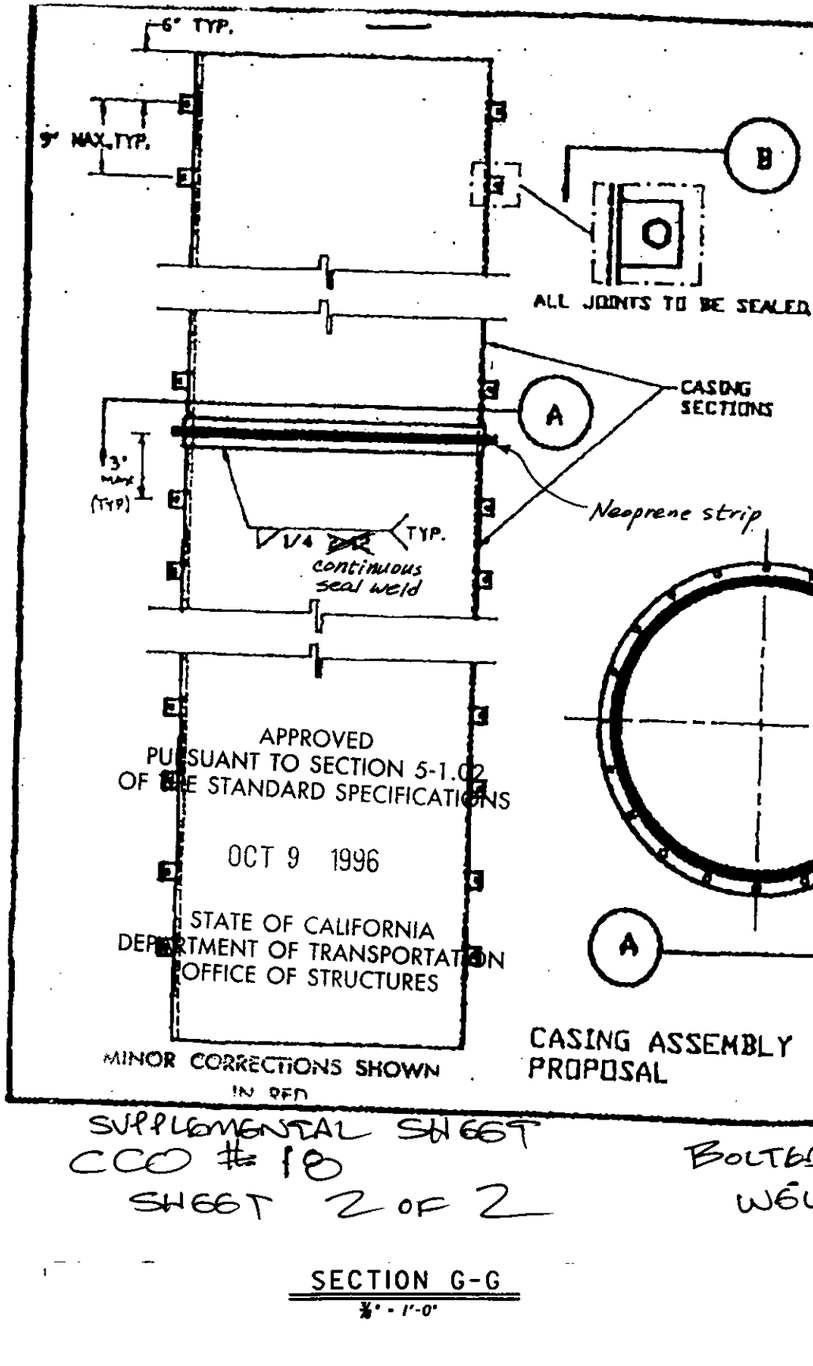
VIEW T-T

No Scale

(BENTS 2 & 6 ONLY)

STEEL COVER

3/8" = 1'-0"



SECTION G-G

3/8" = 1'-0"

APPROVED
PURSUANT TO SECTION 5-1.02
OF THE STANDARD SPECIFICATIONS

OCT 9 1996

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
OFFICE OF STRUCTURES

MINOR CORRECTIONS SHOWN IN RED

CASING ASSEMBLY PROPOSAL

NOTES:
1. ALL HARDWARE TO BE GALVANIZED.
2. L4X4X1/4 ANGLE TO BE PRIMED.
3. ALL JOINTS TO BE SEALED W/ NEOPRENE ~~CAULKING~~ STRIP

DATE	REVISIONS
07OCT96	MISC. DETAILS, NOTES
12SEPT96	MISC. DETAILS, NOTES

CDOT 06-342604

30JULY96 — L&W STEEL 723 S. KILROY ROAD TURLOCK, CA 95380

SCALE:NOTED — DRAWN:STEVEN DICK — 1 OF 1

SUPPLEMENTAL SHEET
CCO # 18
SHEET 2 OF 2

BOLTED JOINTS IN LIEU OF WELDED SEAMS.

DESIGN	BY Stanley Ku	CHECKED Duc Trinh	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 8	BRIDGE NO. 42-268R/L	ROUTE 41/99 SEPARATION
DETAILS	BY Stanley Ku 08-95	CHECKED Duc Trinh			POST MILE R22.1	BENT DETAILS NO. 3
QUANTITIES	BY Stanley Ku	CHECKED Duc Trinh		CU 05107 EA 342601	DISREGARD PRINTS BEARING EARLIER REVISION DATES →	PLAN SHEET NO. 12 OF 29

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

ClibPDF - www.fastio.com

REGISTERED PROFESSIONAL ENGINEER RICHARD WAYNE SNOW No. 37229 Exp. 6-00 CIVIL STATE OF CALIFORNIA

denco 10/1996 14:17 209-667-0. PHONE NO. : 9166851459 L AND W STEEL MFG Oct. 07 1996 04:13PM P4 PAGE 02

AS BUILT PLANS

Contract No. 06-342604
Contractor BGM CO
Resident Engineer L. HICKINBOTHAM
Date of Completion 11/97
BY DAVID L. VALLEJOS

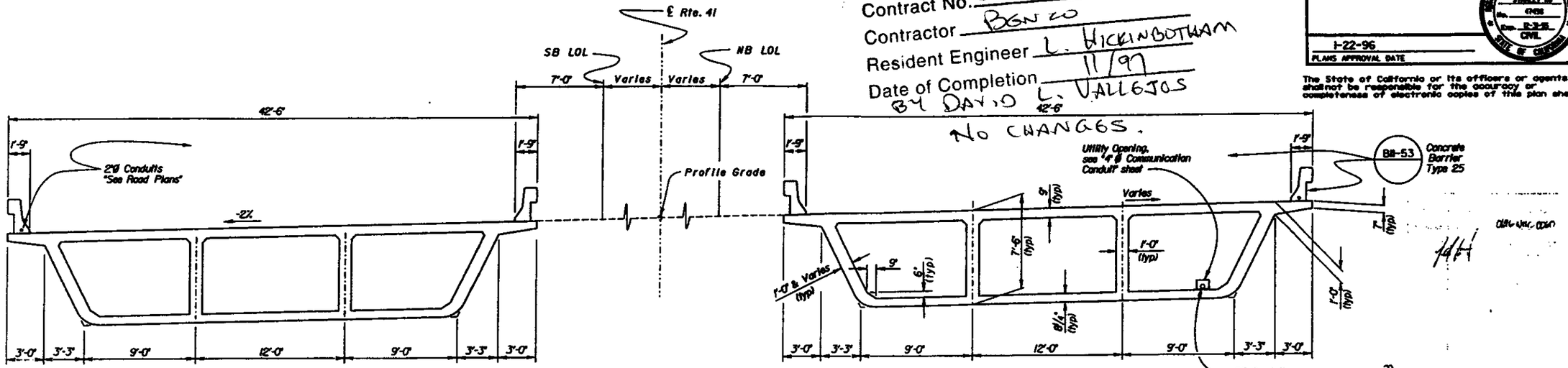
NO CHANGES.

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41,99	R20.1/R22.1, 19.2/19.8	263	368

REGISTERED ENGINEER - CIVIL — STANLEY IN — CIVIL — STATE OF CALIFORNIA

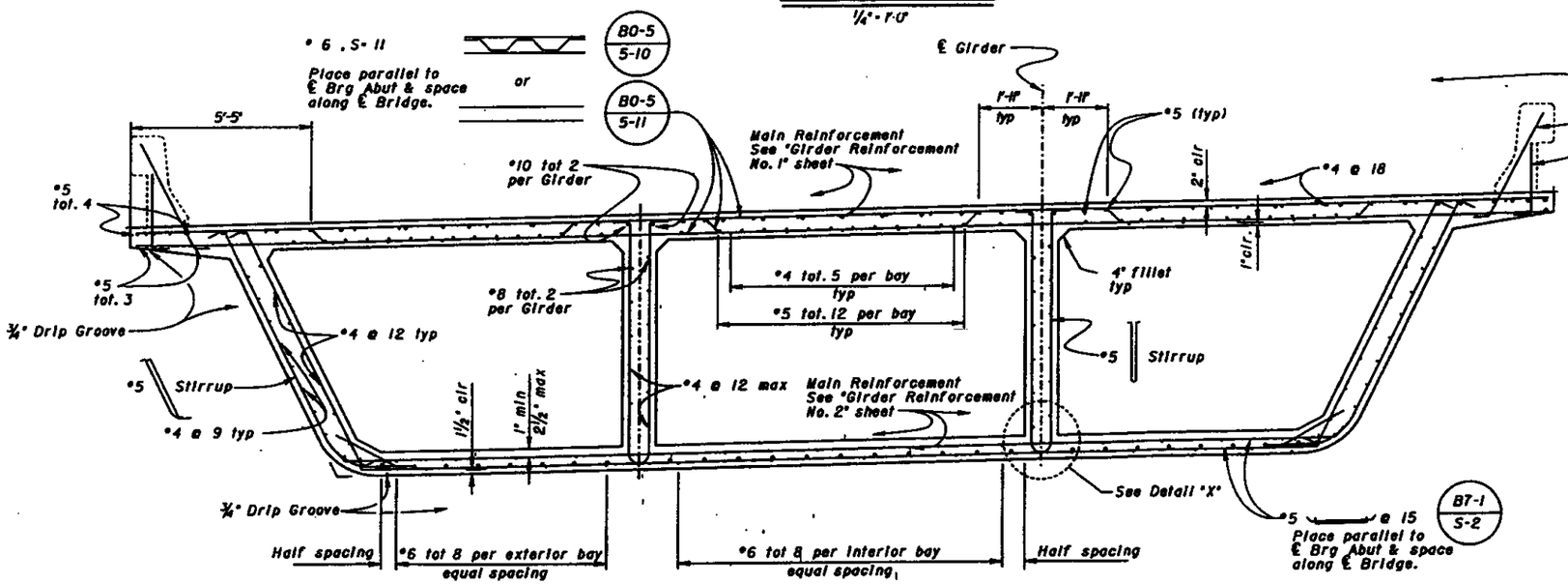
1-22-96
PLANS APPROVAL DATE

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LEFT BRIDGE — TYPICAL SECTION — RIGHT BRIDGE

1/4" = 1'-0"

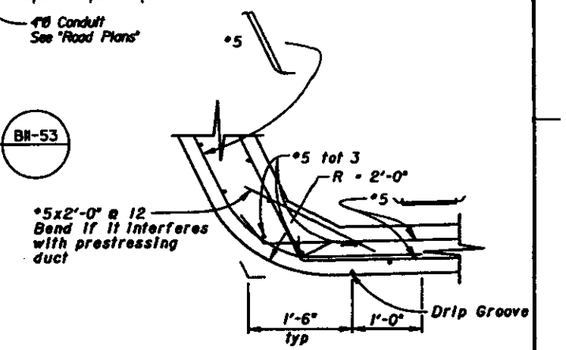


PART TYPICAL SECTION

1/2" = 1'-0"

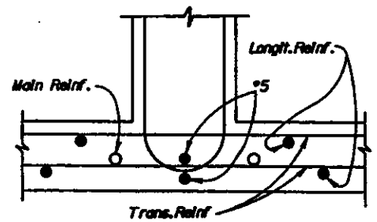
B0-5 B7-1 B7-6

Left Bridge shown; Right Bridge similar.



CORNER DETAIL

No Scale



DETAIL "X"

NO SCALE

DESIGN	BY Stanley Ku	CHECKED Duc Trinh	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY Stanley Ku 07-95	CHECKED Duc Trinh	DIVISION OF STRUCTURES STRUCTURE DESIGN 8
QUANTITIES	BY Stanley Ku	CHECKED Duc Trinh	CU 0807 EA 342601

BRIDGE NO. 42-266R/L
POST MILE R22.1

ROUTE 41/99 SEPARATION
TYPICAL SECTION

DISREGARD PRINTS BEARING EARLIER REVISION DATES

SHEET 13 OF 29

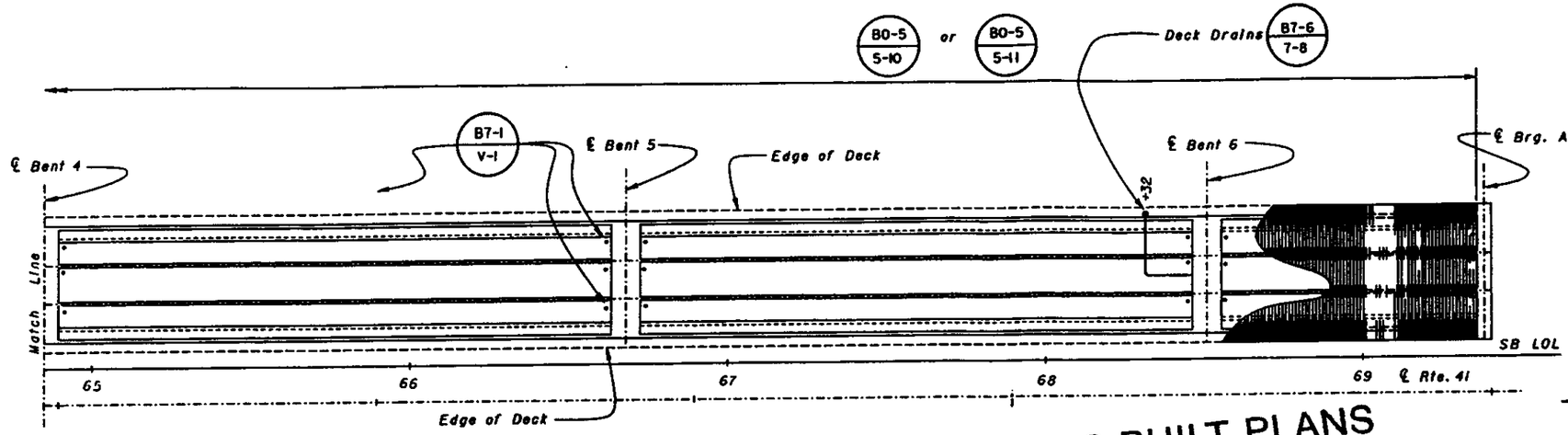
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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41,99	R20.7/ R22.1, 19.2/19.8	287	368

REGISTERED ENGINEER - CIVIL — STANLEY KU, No. 47488, Exp. 12-31-95, CIVIL, STATE OF CALIFORNIA

1-22-96
PLANS APPROVAL DATE

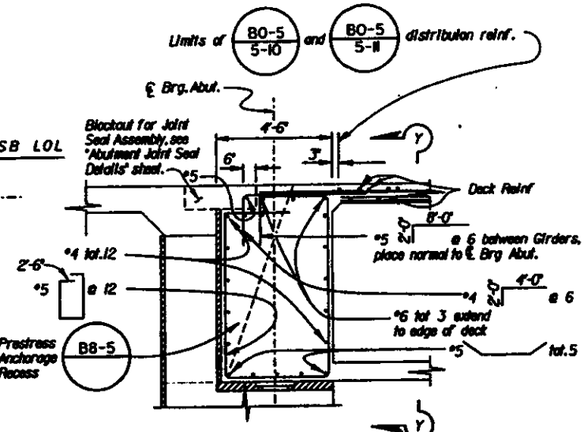
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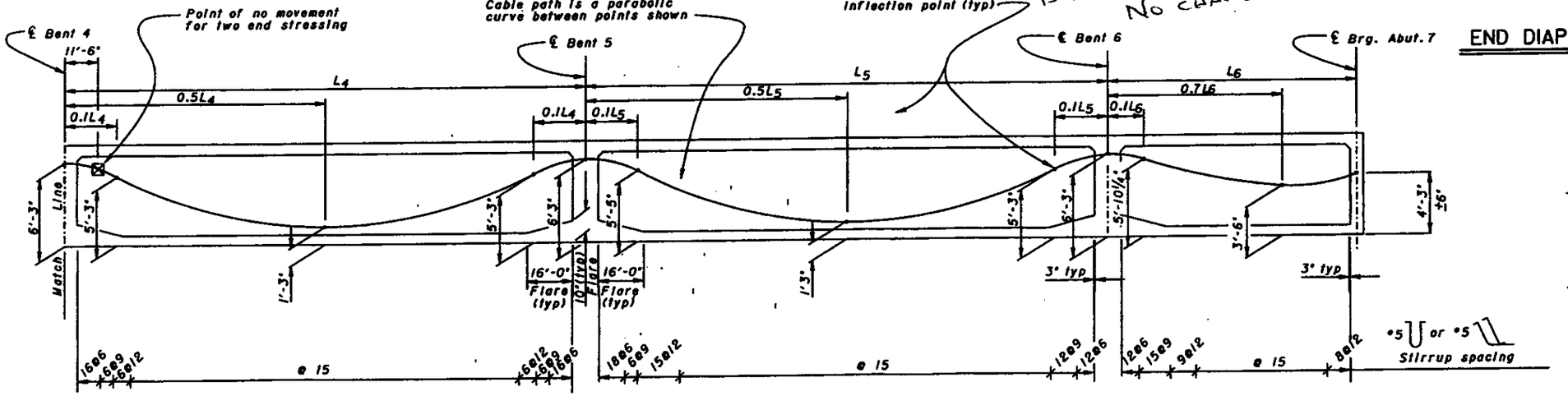
GIRDER LAYOUT
1" = 20'

B0-5 B7-1 B7-6 B8-5

AS BUILT PLANS
Contract No. 06-342604
Contractor BENCO
Resident Engineer L. NICKINBOTHAM
Date of Completion 11/99
BY DAVID L. VALLEJOS
NO CHANGES.

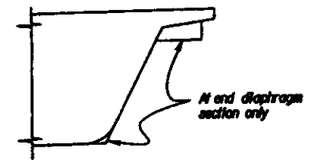


END DIAPHRAGM SECTION
3/4" = 1'-0"



LONGITUDINAL SECTION - LEFT BRIDGE
No Scale

Note: Concrete Barrier not shown



VIEW Y-Y
No Scale

DESIGN	BY Stanley Ku	CHECKED Duc Trinh	
DETAILS	BY Stanley Ku 07-95	CHECKED Duc Trinh	
QUANTITIES	BY Stanley Ku	CHECKED Duc Trinh	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
DIVISION OF STRUCTURES
STRUCTURE DESIGN 8

CU 0607
EA 34260

BRIDGE NO. 42-266R/L
POST MILE R22.1

ROUTE 41/99 SEPARATION
GIRDER LAYOUT NO. 4

SHEET 17 OF 29

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AS BUILT PLANS

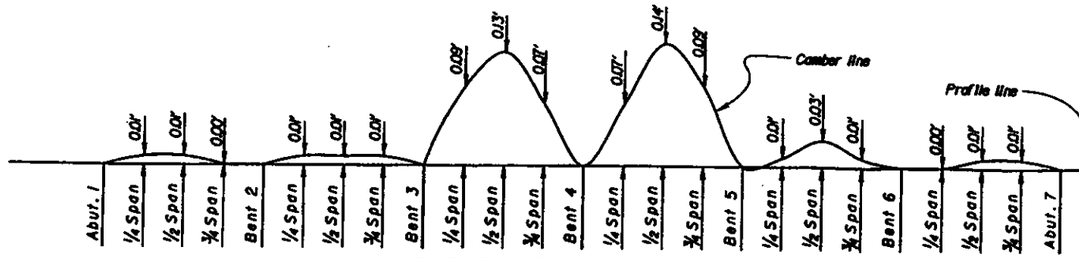
Contract No. 06-342604
Contractor BGNCO
Resident Engineer L. HICKINBOTHAM
Date of Completion 11/97
BY DAVID L. VALLEJOS
NO CHANGES.

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41, 99	R20.7/R22.1, 19.2/19.8	286	388

REGISTERED ENGINEER - CIVIL — STANLEY KU, No. 41698, Exp. 12-31-96, CIVIL, STATE OF CALIFORNIA

1-22-96
PLANS APPROVAL DATE

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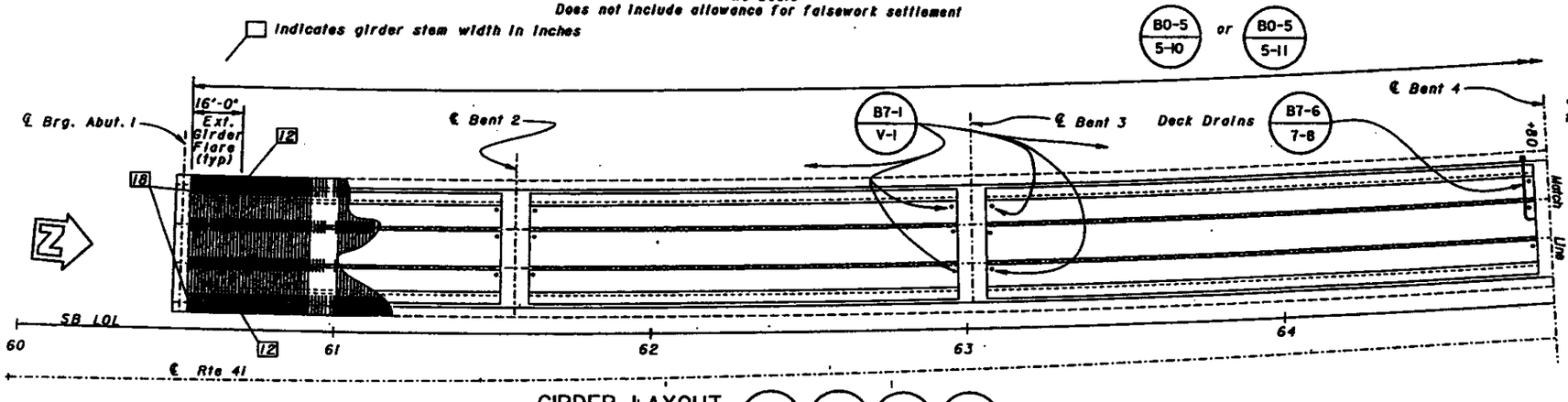


CAMBER DIAGRAM - LEFT BRIDGE

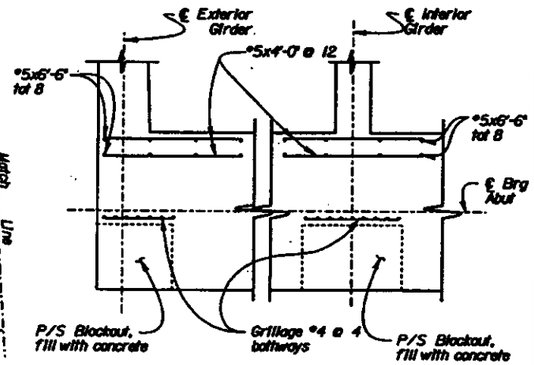
No Scale
Does not include allowance for falsework settlement

☐ indicates girder stem width in inches

Note: For details not shown, see B8-5



B0-5 / 5-10 or B0-5 / 5-11



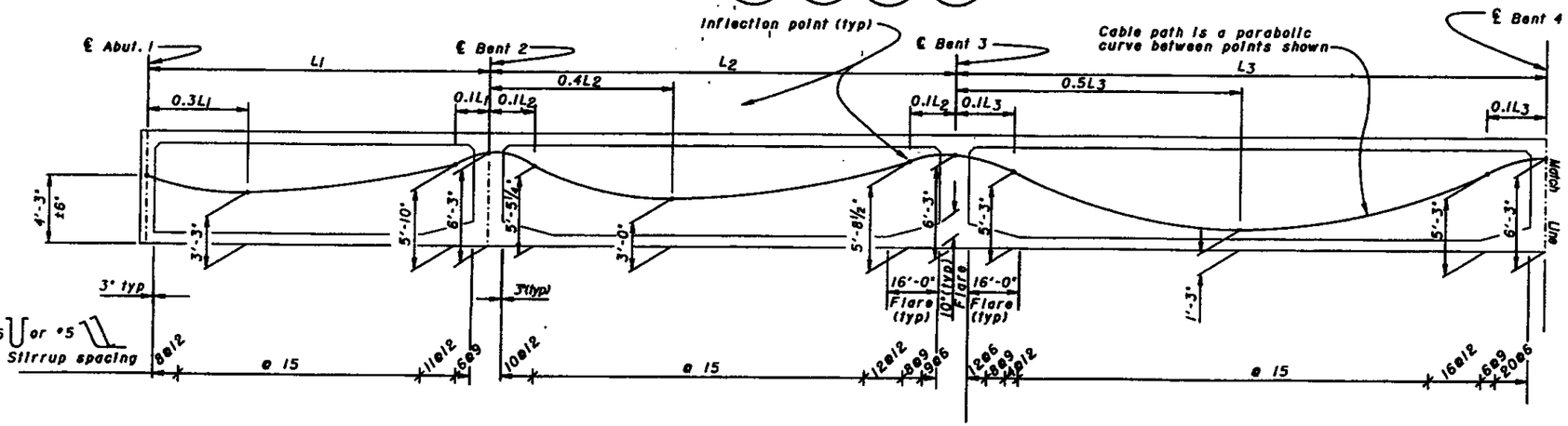
PRESTRESS BLOCKOUT DETAIL

½" = 1'-0"

GIRDER LAYOUT

B0-5 B7-1 B7-6 B8-5

1" = 20'



LONGITUDINAL SECTION - LEFT BRIDGE

No Scale

PRESTRESSING NOTES

270 KSI Low Relaxation Strands

P_{jack} = 8770 kips
Anchor Set = 3/8 in
Total Number of Girders = 4

Distribution of prestress force (Pjack) between girders shall not exceed the ratio of 3:2.
Maximum final force variation between girders shall not exceed 725 kips.
Concrete: f'_c = 4000 psi @ 28 days
f'_{ci} = 3500 psi @ time of stressing
Contractor shall submit elongation calculations based on initial stress at
B = 0.824 times jacking stress.
Stressing shall be performed from both ends.

DESIGN	BY Stanley Ku	CHECKED Duc Trinh	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 8	BRIDGE NO. 42-266R/L
DETAILS	BY Stanley Ku 07-95	CHECKED Duc Trinh			POST MILE R22.1
QUANTITIES	BY Stanley Ku	CHECKED Duc Trinh		CU 0G07 EA 342604	

ROUTE 41/99 SEPARATION
GIRDER LAYOUT NO. 3

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY, STAGE, ETC.) | PLAN SHEET NO. | SHEET | OF
16 | 29

ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41,99	R20.1/R22.1, 19.2/19.8	265	368

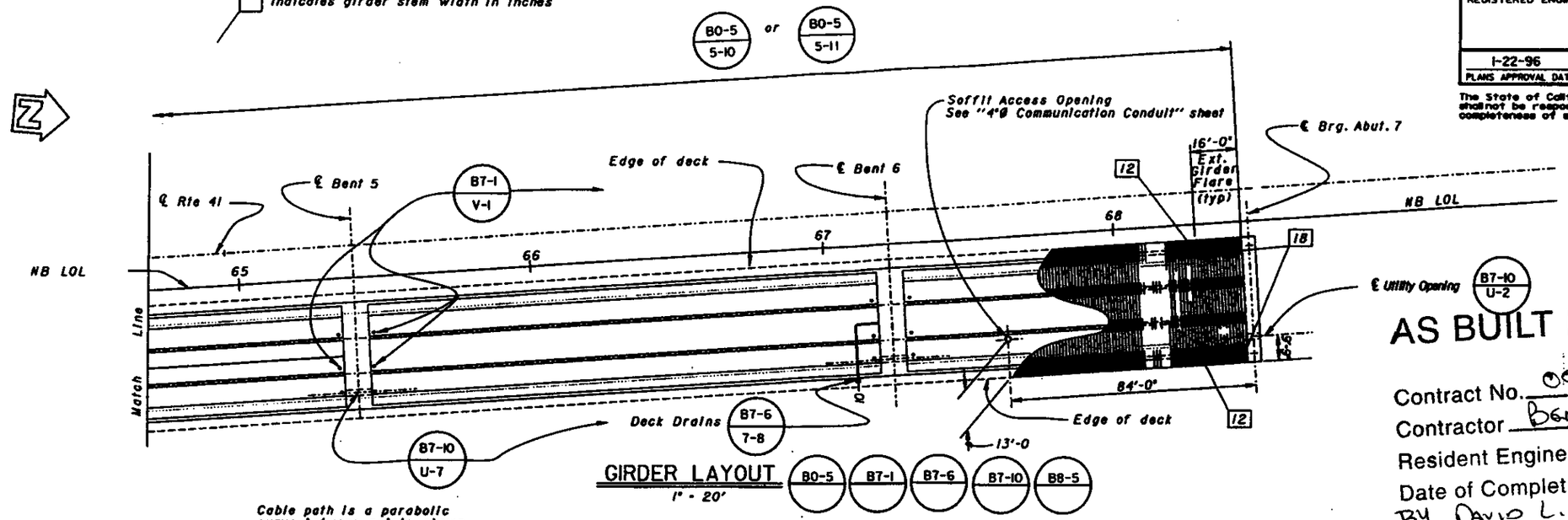
REGISTERED ENGINEER - CIVIL

STANLEY KU No. 42458 Exp. 12-31-96 CIVIL STATE OF CALIFORNIA

1-22-96
PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

Indicates girder stem width in inches



LONGITUDINAL SECTION - RIGHT BRIDGE
No Scale

AS BUILT PLANS

Contract No. 06-342604
Contractor BENCO
Resident Engineer L. HICKINBOTHAM
Date of Completion 11/97
BY DAVID L. VALLEJOS
NO CHANGES

PRESTRESSING NOTES

270 KSI Low Relaxation Strand:

P_{jack} = 8660 kips

Anchor Set = 3/8 in

Total Number of Girders = 4

Distribution of prestress force (Pjack) between girders shall not exceed the ratio of 3:2.
Maximum final force variation between girders shall not exceed 725 kips.
Concrete: f'_c = 4000 psi @ 28 days

f'_{ci} = 3500 psi @ time of stressing

Contractor shall submit elongation calculations based on initial stress at

β = 0.834 times jacking stress.

Stressing shall be performed from both ends.

DESIGN	BY Stanley Ku	CHECKED Duc Trinh	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 8	BRIDGE NO. 42-0068R/L	ROUTE 41/99 SEPARATION
DETAILS	BY Stanley Ku 07-95	CHECKED Duc Trinh			POST MILE R22.1	GIRDER LAYOUT NO. 2
QUANTITIES	BY Stanley Ku	CHECKED Duc Trinh		CU 0607 EA 342601		SHEET 15 OF 29

DS 660 209 (CAD) 3/99

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

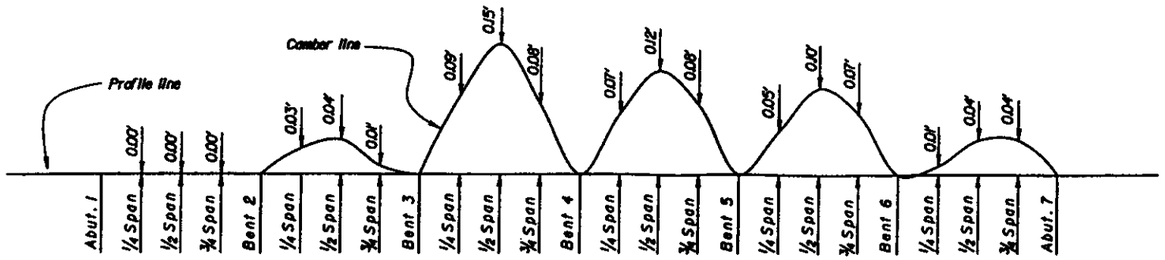
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41,99	R20.7/R22.1, 19.2/19.8	284	368

REGISTERED ENGINEER - CIVIL

1-22-96
PLANS APPROVAL DATE

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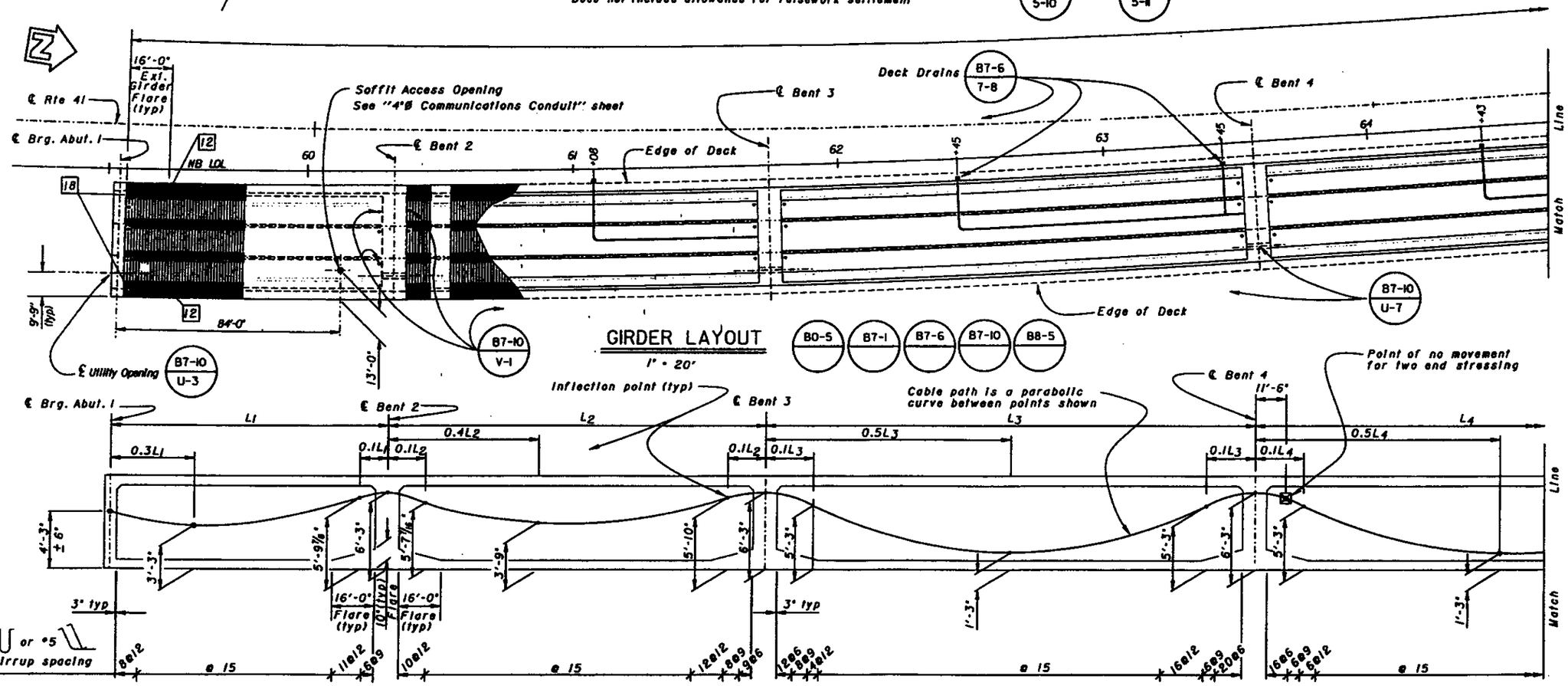


CAMBER DIAGRAM - RIGHT BRIDGE

No Scale
Does not include allowance for falsework settlement

Indicates girder stem width in inches

B0-5 / 5-10 or B0-5 / 5-11



GIRDER LAYOUT

1" = 20'

B0-5 B7-1 B7-6 B7-10 B8-5

LONGITUDINAL SECTION-RIGHT BRIDGE

No Scale

DESIGN	BY Stanley Ku	CHECKED Duc Trinh	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 8	BRIDGE NO. 42-256R/L
DETAILS	BY [signature] 08-95	CHECKED Duc Trinh			POST MILE R22.1
QUANTITIES	BY Stanley Ku	CHECKED Duc Trinh			

ROUTE 41/99 SEPARATION
GIRDER LAYOUT NO. 1

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 05107
EA 34250

SHEET 14 OF 29

AS BUILT PLANS
Contract No. 06-342604
Contractor Bergco
Resident Engineer L. Hightbottom
Date of Completion 11/97
By David L. Lauer
No changes.

ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41, 99	R20.7/R22.1, 19.2/19.8	279	368

REGISTERED ENGINEERING GEOLOGIST

J. R. BOMAN — 1579 — No. 8-01-98 — Exp. — CERTIFIED ENGINEERING GEOLOGIST — STATE OF CALIFORNIA

1-22-96
PLANS APPROVAL DATE

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AS BUILT PLANS

Contract No. 06-342604
Contractor B&W CO
Resident Engineer L. HICKINBOTHAM
Date of Completion 11/97
By DAVID L. VALLEJOS
NO CHANGES.

LEGEND OF BORING OPERATIONS

LEGEND OF EARTH MATERIALS

CONSISTENCY OF SOIL BY FIELD TEST (or N-Value) According to the Standard Penetration Test

NOTE: Classification of soils assigned as shown on the charts is based upon visual examination and is not to be construed to imply mathematical analysis.

PROFILE
Scale : Horz. 1" = 20'
Vert. 1" = 10'

ENGINEERING SERVICE CENTER	STRUCTURE FOUNDATIONS	FIELD INVESTIGATION BY:	State of CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN	BRIDGE NO. 42-206 RL / POST MILE T22.1	ROUTE 41/99 SEPARATION LOG OF TEST BORINGS 4 OF 4
DRAWN BY				CU: 06197 EA: 342601	DRAWN AND PRINTS READING EARLIER REVISION DATES →	REVISION DATES (PRELIMINARY STAGE ONLY) / SHEET 29 / OF 29
CHECKED BY					ORIGINAL SCALE IN INCHES FOR REDUCED PLANS → 0 1 2 3	

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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41,99	R20.7/R22.1, 19.2/19.8	278	368

REGISTERED ENGINEERING GEOLOGIST — J. K. DUNHAM, No. 1877, Exp. 6-31-96, CERTIFIED ENGINEERING GEOLOGIST, STATE OF CALIFORNIA

1-22-96
PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

AS BUILT PLANS

Contract No. 06.342609
Contractor BGN CO
Resident Engineer L. HICKINBOTHAM
Date of Completion 11/97
BY DAVID L. VALLEJOS
NO CHANGES.

10.4f

B.M. # 125 - Fre - 35
T- bar & cap flush on North gutter line of Belgravia Ave in E. Kirt St. 188.47± Lt. "TL" Sta. 38+44.204 Elev. 279.182

B-1 279.2 — PMS
Road base - coarse GRAVEL. Tan medium to coarse SILTY SAND.
Coarse tan and gray mottled fine SANDY SILT.
Slightly compact gray SILTY fine SAND.
Dense gray SILT.
Compact gray fine to medium SAND.
Slightly compact gray fine SANDY SILT.
Compact gray SILT with thin laminations of red brown SILT.
Red brown CLAYEY fine to very coarse SAND.
0.46 in

B-3 279.7
Very hard grayish brown fine SANDY SILTY CLAY.
Very hard gray fine CLAYEY SILT.
Very hard (Fe_2O_3 stain) slightly CLAYEY SILT.
Very dense grayish brown SILTY MICACEOUS SAND.
Very dense grayish brown fine SILTY SAND.
7-13-65
7-14-65

Approx. 0.0 along TR Line.
B-2 280.1
Compact brown SILTY fine to coarse SAND.
B-19 270.2
Compact light brown clean SAND.
Dense olive green SILT
Compact olive green fine SANDY SILT.
B-15 256.8
Slightly compact light gray MICACEOUS clean fine SAND.
Dense gray fine to coarse SAND.
Very dense reddish brown MICACEOUS CLAYEY SILT.
Very dense reddish brown MICACEOUS fine to coarse SANDY SILT.
Very dense reddish brown SILT and CLAYEY SILT.
Very dense grayish brown MICACEOUS fine SANDY SILT.
CLAYEY SILT.
Dense light gray fine to medium SAND.
CLAYEY SILT.
Reddish brown MICACEOUS fine to medium SANDY SILT.
Grayish brown coarse SANDY CLAYEY SILT.
11-29-67
B-7 256.2
Very stiff red brown CLAYEY fine SAND.
Compact olive SILTY very fine SAND.
Hard & dense red brown SANDY CLAY & CLAYEY SAND.
35.18 ft
11-29-67
7-15-65

B-22 262.2
B-17 275.2
Very hard streaked reddish brown SANDY SILTY CLAY.
Very dense reddish brown SANDY CLAYEY SILT.
"Hardpan."
Very hard grayish brown (Fe_2O_3 stain) fine SANDY slightly CLAYEY SILT.
Hard gray CLAYEY SANDY SILT.
Very dense grayish brown SILTY SAND.
Very dense gray slightly SILTY SAND.
10.85 ft
11-28-67
10-29-71

58 59 60 VI-2-71 61 62 63

PROFILE
Scale : Horz. 1" = 20'
Vert. 1" = 10'

LEGEND OF BORING OPERATIONS
LEGEND OF EARTH MATERIALS
CONSISTENCY CLASSIFICATION FOR SOILS
According to the Standard Penetration Test
NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed as expert geotechnical analysis.

ENGINEERING SERVICE CENTER	STRUCTURE FOUNDATIONS	FIELD INVESTIGATION BY:	State of CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN	BRIDGE NO. 42-288 R/L. POST MILE 122.1	ROUTE 41/99 SEPARATION. LOG OF TEST BORINGS 3 OF 4
DRAWN BY				CU: 06107 EA: 342601		
CHECKED BY						

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS → 0 1 2 3

DESIGNED PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY) | SHEET 28 | OF 29

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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41,99	R20.7/R22.1, 19.2/19.8	277	368

REGISTERED ENGINEERING GEOLOGIST

J. K. BUSHMAN No. 1677 Exp. 3-31-96 CERTIFIED ENGINEERING GEOLOGIST STATE OF CALIFORNIA

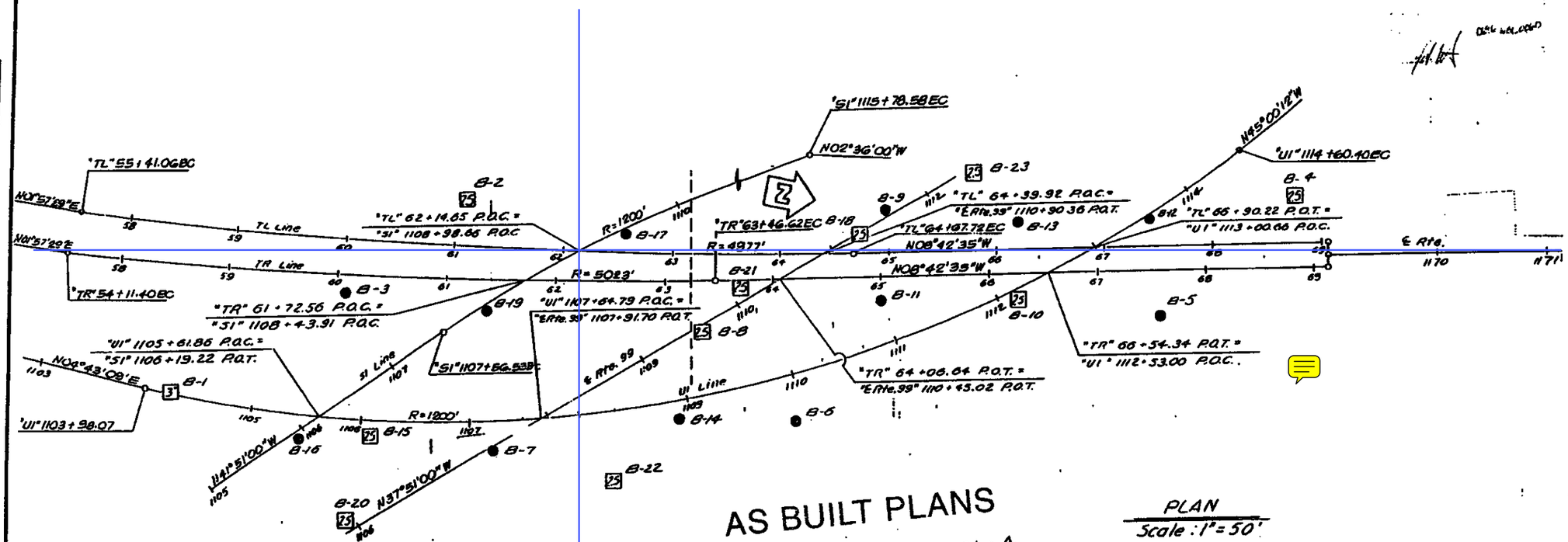
1-22-96
PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

CURVE DATA

TR Line	TL Line	U-I Line	SI Line
R = 5023'	R = 4977'	R = 1200'	R = 1200'
Δ = 10°40'04"	Δ = 10°40'04"	Δ = 50°43'21"	Δ = 39°15'00"
T = 468.97'	T = 464.67'	T = 568.81'	T = 427.89'
L = 935.22'	L = 926.66'	L = 1062.33'	L = 822.05'

Note:
TR Line, TL Line, and U-I Line are not used in construction of any structures in this project. These alignments were used in the years of 1965, 1967, and 1971 to identify locations of core samples, and shall only be used for this purpose only.



AS BUILT PLANS

PLAN
Scale: 1" = 50'

Contract No. 06-342604
Contractor Bawco
Resident Engineer L. Hickingotham
Date of Completion 11/97
BY David L. Vallejos
NO CHANGES.

LEGEND OF BORING OPERATIONS

LEGEND OF EARTH MATERIALS

CONSISTENCY CLASSIFICATION FOR SOILS
According to the Standard Penetration Test

NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply investigated analysis.

ENGINEERING SERVICE CENTER	STRUCTURE FOUNDATIONS	FIELD INVESTIGATION BY:	State of CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN	BRIDGE NO. 42-286 R/L	ROUTE 41/99 SEPARATION
DRAWN BY					POST MILE R22.1	LOG OF TEST BORINGS 2 OF 4
CHECKED BY				CU: 06107 EA: 342601		SHEET 27 OF 29

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS → 0 1 2 3

STANDARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)

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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41,99	R20.77/R22.1, 19.2/19.8	276	368

REGISTERED ENGINEERING GEOLOGIST

J. K. BOWMAN, No. 1577, Exp. 6-31-96, CERTIFIED ENGINEERING GEOLOGIST, STATE OF CALIFORNIA

1-22-96
PLANS APPROVAL DATE

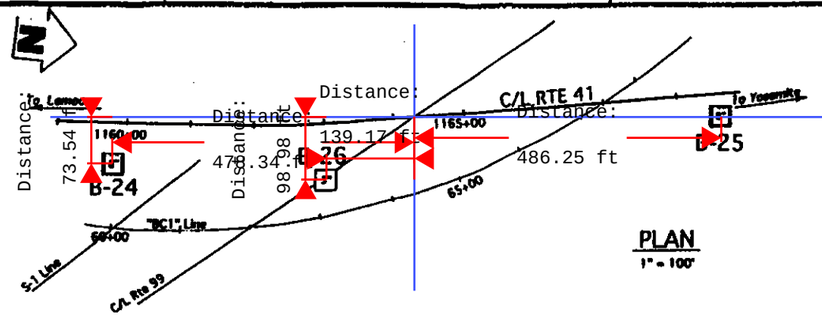
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

BENCH MARK

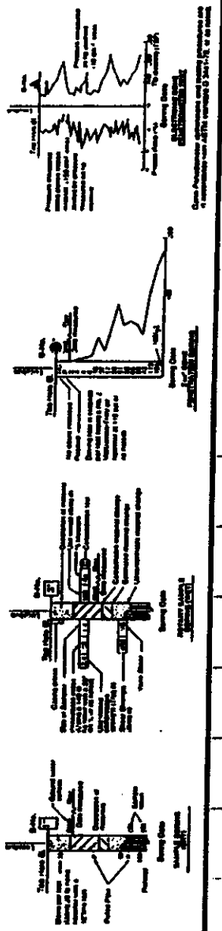
B-24 FD TRN 19
PK NAIL @ W. END BR. NO. 42-215 @ BELGRAVIA AVE & HWY 99

R-25 FD 94145-101
1" IP @ TOP OF FILL 90' W CONTROL POINT 92130-112

B-26
ELEVATION ESTIMATED FROM SITE PLAN



PLAN
1" = 100'



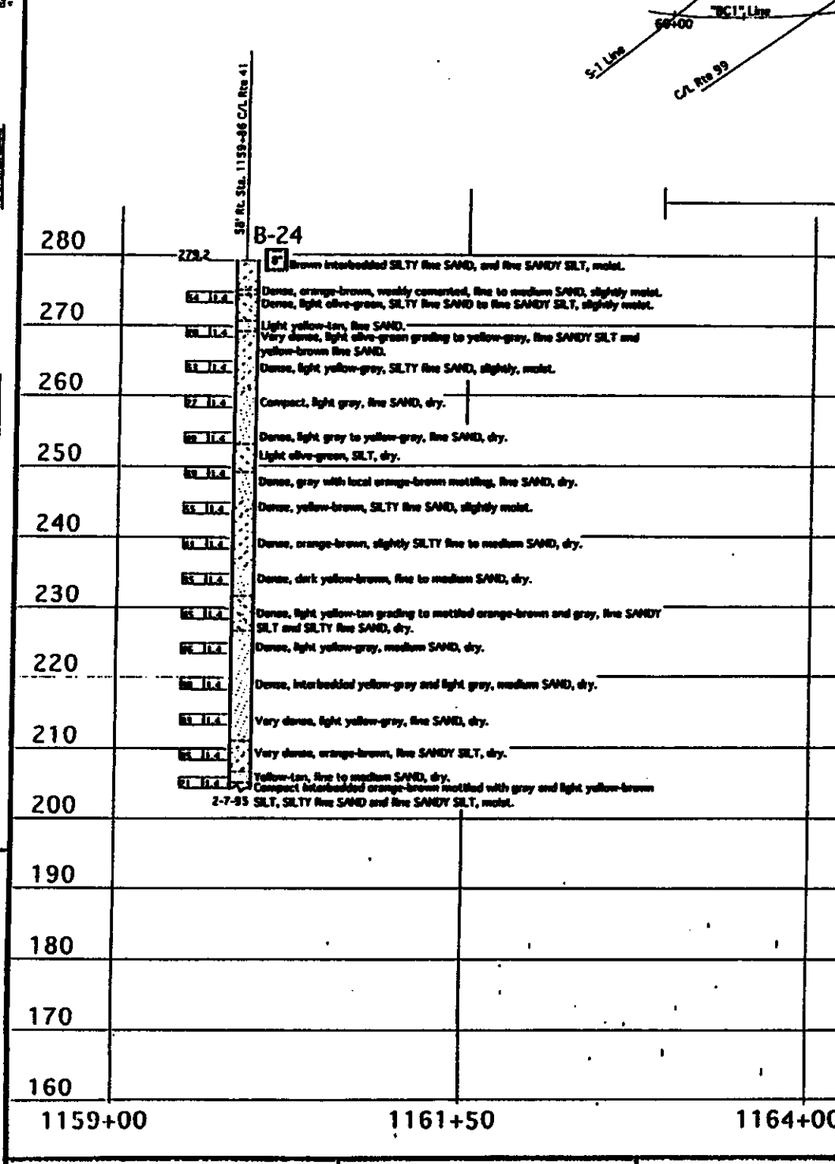
LEGEND OF BORING OPERATIONS

LEGEND OF EARTH MATERIALS

CONSISTENCY-CLASSIFICATION CHARTS
According to the Standard Penetration Test

Cohesive	Granular	Approximate Relative Density %
Very Soft	Very Loose	0-15
Soft	Loose	15-35
Stiff	Medium Dense	35-65
Very Stiff	Dense	65-85
Hard	Very Dense	>85

NOTE: Classification of earth material as shown on this sheet is based upon field examination and is not to be construed to imply mechanical analysis.



AS BUILT PLANS
Contract No. 06-342604
Contractor BENCO
Resident Engineer L. HICKINBOTHAM
Date of Completion 11/97
VALLEJOS
BY DAVID
NO CHANGES.

ENGINEERING SERVICE CENTER	STRUCTURE FOUNDATIONS	FIELD INVESTIGATION BY:	State of CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN	ROUTE 41/99 SEPARATION
DRAWN BY	9-95	J. BOWMAN & D. THOMAS		CU: 06167 EA: 342801	LOG OF TEST BORINGS 1 OF 4
CHECKED BY					

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS → 0 1 2 3

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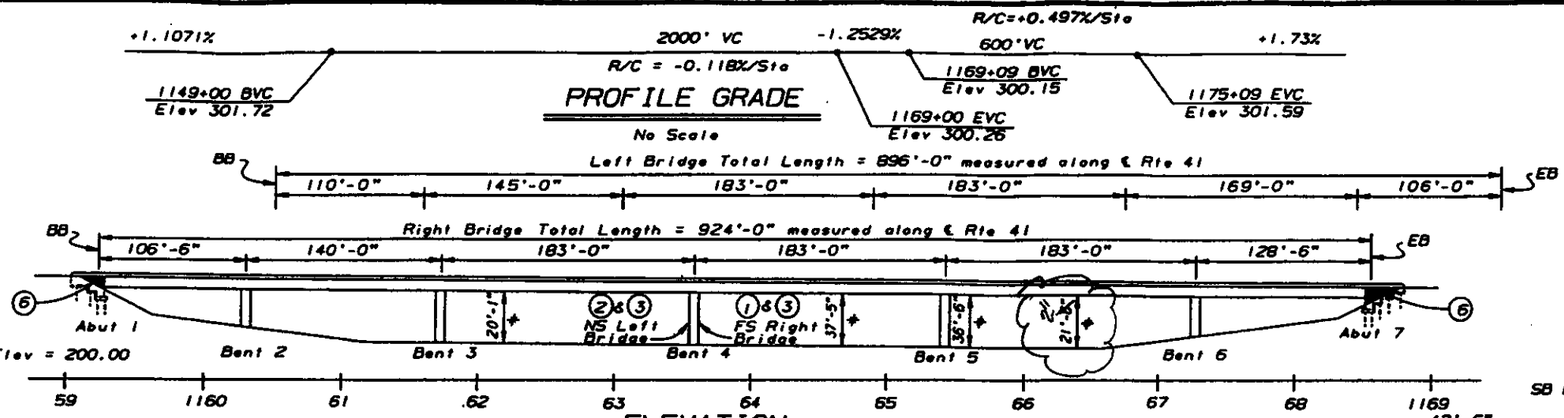
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41,99	R20.7/R22.1, 19.2/19.8	251	368

REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA — STANLEY NU — No. 47459 — Exp. 12-31-98 — CIVIL

1-22-96
PLANS APPROVAL DATE

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Notes:

1. Point "Bridge No. 42-266 R"
2. Point "Bridge No. 42-266 L"
3. Point "Route 41/99 Separation"
4. MBGR see "Road Plans"
5. Structure Approach Type N(30S)
6. Architectural Treatment
7. 2"Ø Conduit, see "Road Plans"
8. 4"Ø Conduit, see "Road Plans"

⊗ Point of Minimum Vertical Clearance

\+ Minimum Vertical Clearance

Indicates Deck Drain Type D-2

For General Notes, Index to Plans, Standard Plans List and Pile Data, see "Index to Plans" sheet.

* FOR FINAL ELEVATIONS ON COPPER NAILS, SEE SHEET 252R2.

CURVE DATA

SB LOL

(1) R=4977'
Δ=10°40'28"
T=464.96'
L=927.24'

℄ RTE 41

(2) R=5000'
Δ=10°40'28"
T=467.11'
L=931.52'

NB LOL

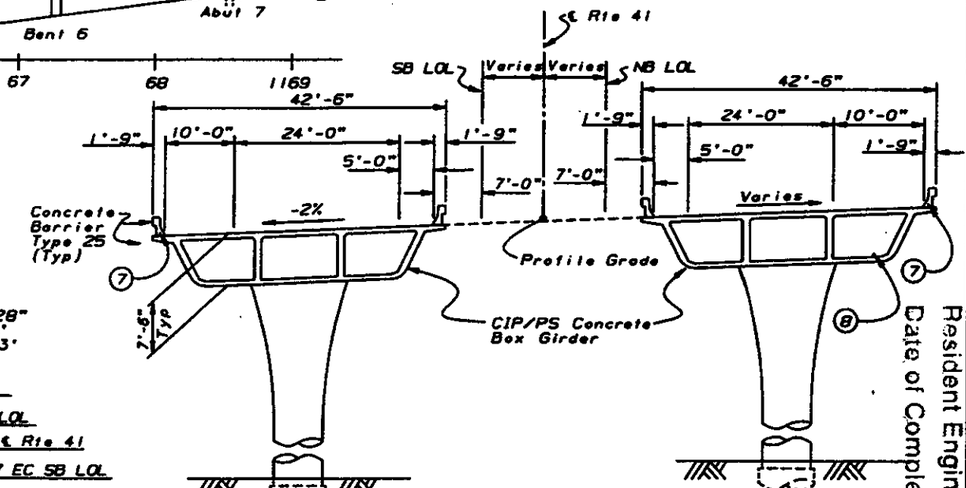
(3) R=5023'
Δ10°40'30"
T=469.29'
L=935.86'

S-1

(4) R=1199.91'
Δ=39°15'00"
T=427.86'
L=821.99'

BC-1

(5) R=1150'
Δ=54°50'28"
T=596.63'
L=1100.73'



TYPICAL SECTION

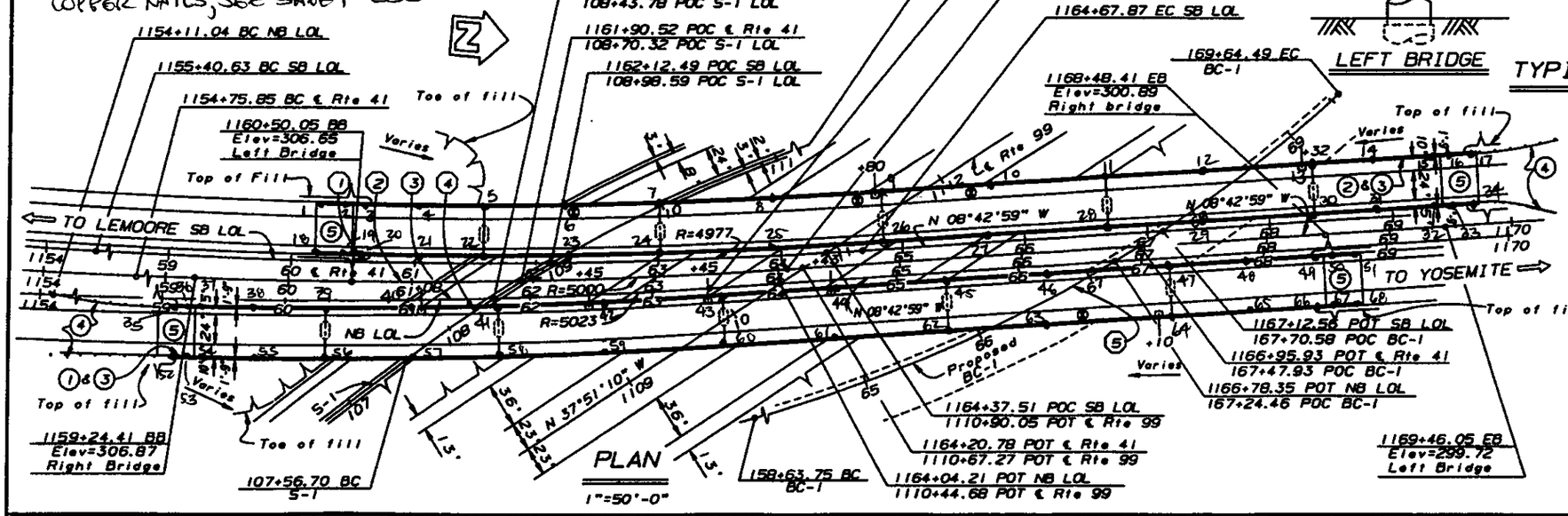
1"=10'-0"

Standard Plan Sheet No.

Detail No.

QUANTITIES

STRUCTURE EXCAVATION (BRIDGE)	1,120	CY
STRUCTURE BACKFILL (BRIDGE)	664	CY
16" CAST-IN-DRILLED-HOLE CONCRETE PILING	4,579	LF
96" CAST-IN-DRILLED-HOLE CONCRETE PILING	772	LF
PRESTRESSING CAST-IN-PLACE CONCRETE	LUMP SUM	
STRUCTURAL CONCRETE, BRIDGE FOOTING	267	CY
STRUCTURAL CONCRETE, BRIDGE	7,230	CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N)	210	CY
LIFTED TEXTURE (REINFORCING BAR)	1,940	SQFT
PTFE BEARING	16	EA
JOINT SEAL ASSEMBLY (NR 6")	41	LF
JOINT SEAL ASSEMBLY (NR 7")	41	LF
JOINT SEAL ASSEMBLY (NR 6 1/2")	41	LF
JOINT SEAL ASSEMBLY (NR 8")	41	LF
BAR REINFORCING STEEL (BRIDGE)	2,171,000	LB
MISCELLANEOUS METAL (BRIDGE)	31,800	LB
CONCRETE BARRIER (TYPE 25)	3,883	LF



DESIGN	Stanley Ku	Duc Trinh	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 8
DETAILS	Norm Kelley	Duc Trinh	LAYOUT	Stanley Ku	Duc Trinh		
QUANTITIES	Stanley Ku	Duc Trinh	SPECIFICATIONS				

Brian Mori
DESIGN ENGINEER

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06107
EA 342601

BRIDGE NO. 42-266 R/L
POST MILE R22.1

ROUTE 41/99 SEPARATION
GENERAL PLAN

SHEET 1 OF 29

AS BUILT PLANS
BY DAVID L. VALLEJOS

Contract No. 06-342604
Contractor Blanco
Resident Engineer L. HICKINBOTHAM
Date of Completion 11/97

See CO #60

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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41,99	R20.7/R22.1, 19.2/19.8	270	368

REGISTERED ENGINEER - CIVIL

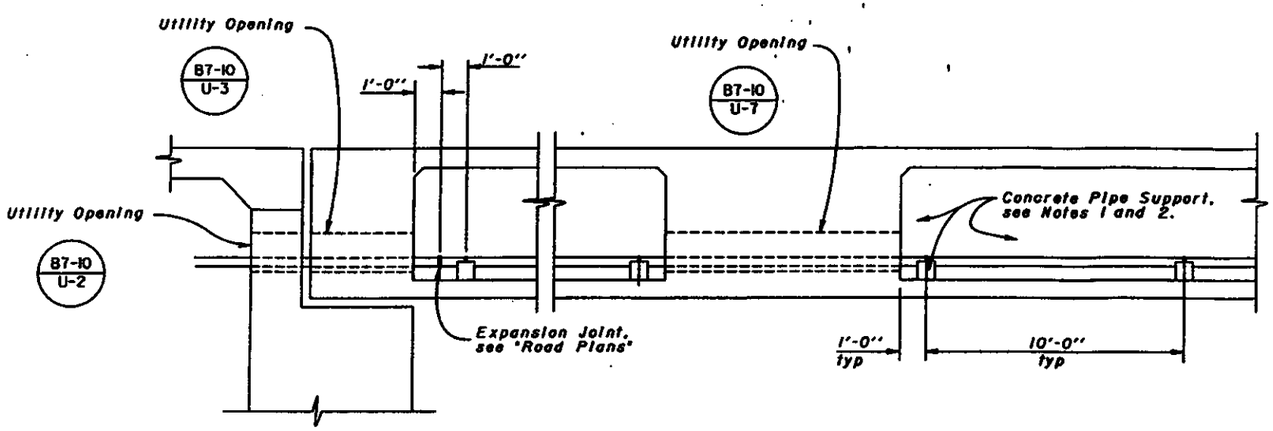
STANLEY KU No. 47498 Date 12-2-96 CIVIL STATE OF CALIFORNIA

1-22-98
PLANS APPROVAL DATE

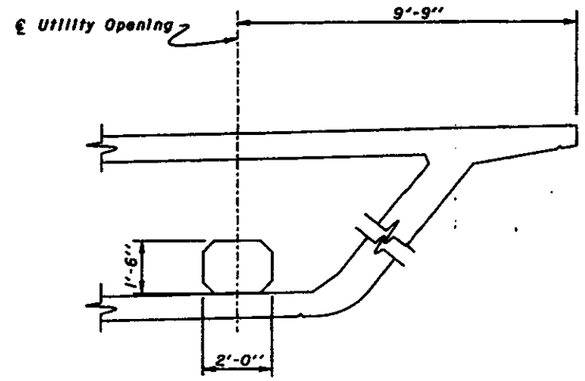
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AS BUILT PLANS

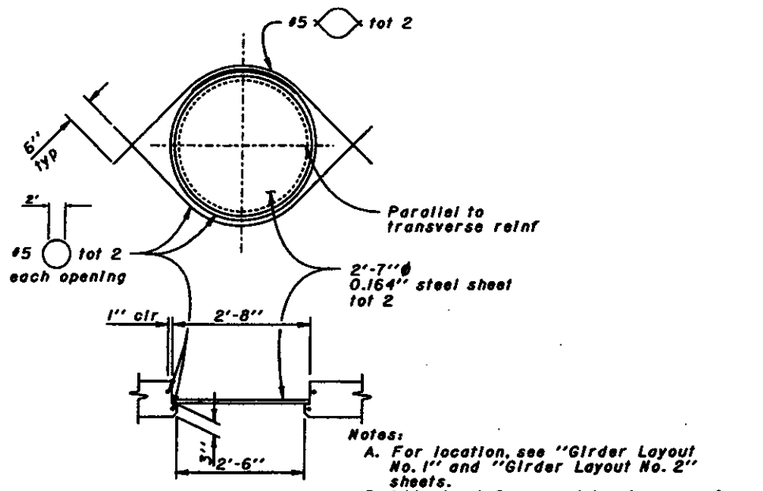
Contract No. 06-342604
Contractor BENCO
Resident Engineer L. HICKINGBOTHAM
Date of Completion 11/97
BY DAVID L. VALLEJOS
NO CHANGES



INSTALLATION
No Scale

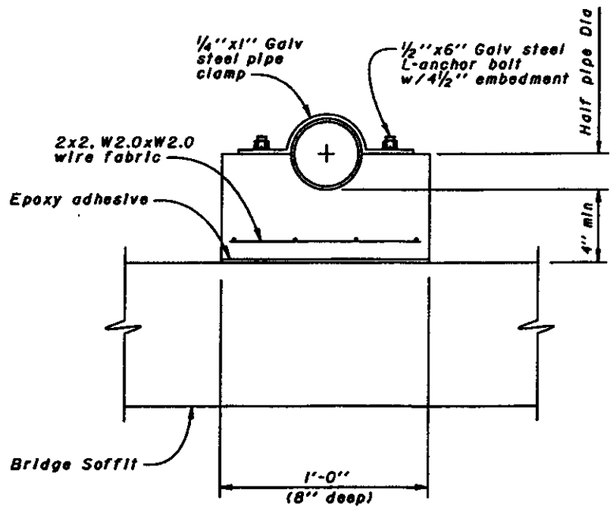


UTILITY OPENING LOCATION
1/2" = 1'-0"



Notes:
A. For location, see "Girder Layout No. 1" and "Girder Layout No. 2" sheets.
B. Adjust reinforcement to clear opening.
C. Plate must be installed before top deck is placed.

SOFFIT ACCESS OPENING
3/4" = 1'-0"



CONCRETE PIPE SUPPORT
3" = 1'-0"

OLSL APP. COLO

Notes:
1. Pipe clamp shall be shimmed with steel washer plate to provide 1/4" clearance between pipe and clamp.
2. Maximum spacing between pipe supports shall be 10' unless otherwise detailed on the plans.
3. For details not shown, see "Road Plans".

DESIGN	BY Stanley Ku	CHECKED Duc Trinh	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 8	BRIDGE NO. 42-266 R/L
DETAILS	BY David Forbes	CHECKED Duc Trinh			POST MILE R22.1
QUANTITIES	BY Stanley Ku	CHECKED Duc Trinh		CU 0E0T EA 342601	ROUTE 41/99 SEPARATION
					4" ø COMMUNICATION CONDUIT

DS 000 230 (CADD 3/98) — ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

REVISION DATES (PRELIMINARY STAGE ONLY) — 12-2-96 — PLAN SHEET NO. 20 — OF 29

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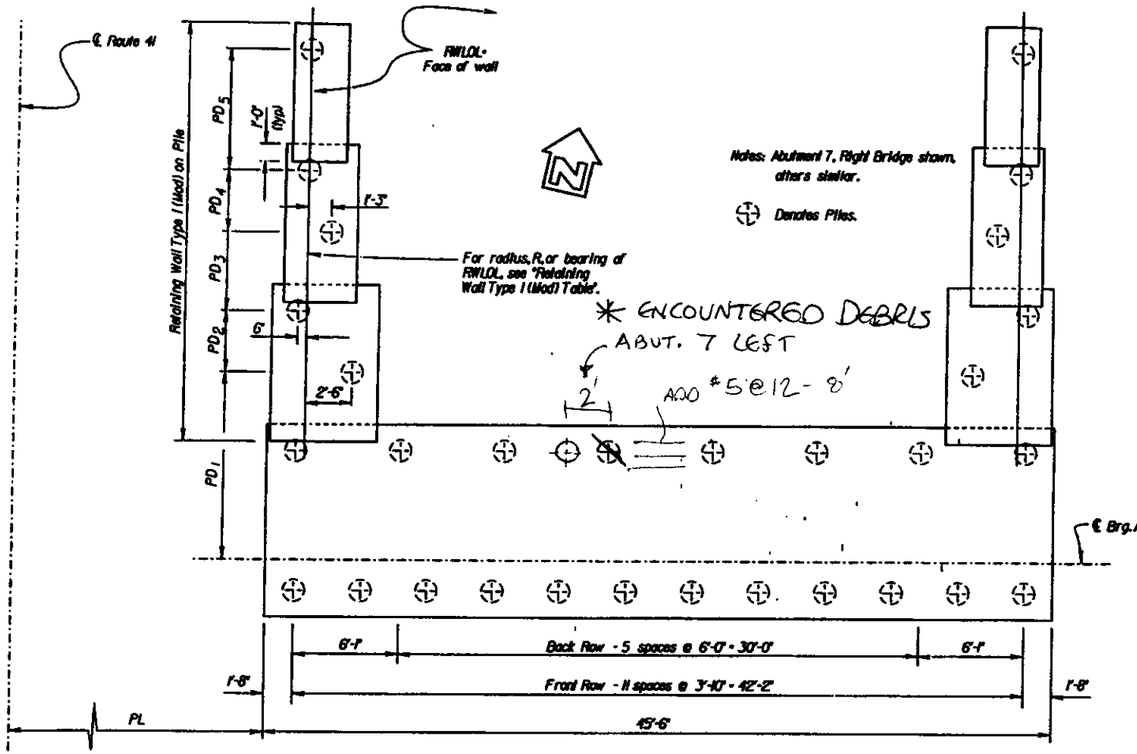
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41,99	R20.7/R22.1, 19.2/19.8	258	368

REGISTERED ENGINEER - CIVIL

STANLEY KU, No. 47498, Exp. 12-31-96, CIVIL, REGISTERED PROFESSIONAL ENGINEER, STATE OF CALIFORNIA

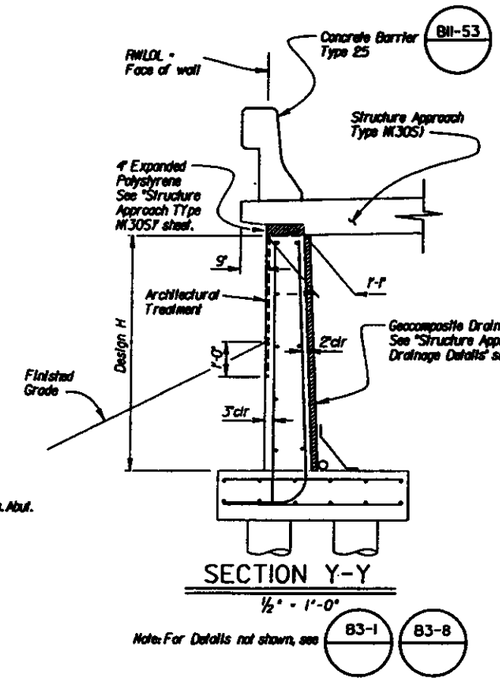
1-22-96
PLANS APPROVAL DATE

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FOOTING AND PILE LAYOUT

½" = 1'-0"



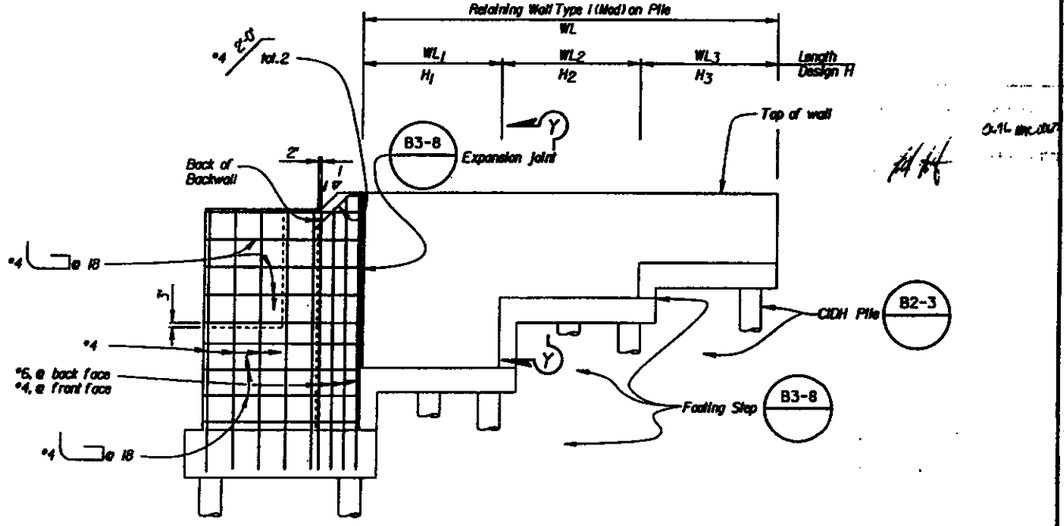
SECTION Y-Y

½" = 1'-0"

Note: For Details not shown, see B3-1 B3-8

RETAINING WALL TYPE I (MOD) TABLE

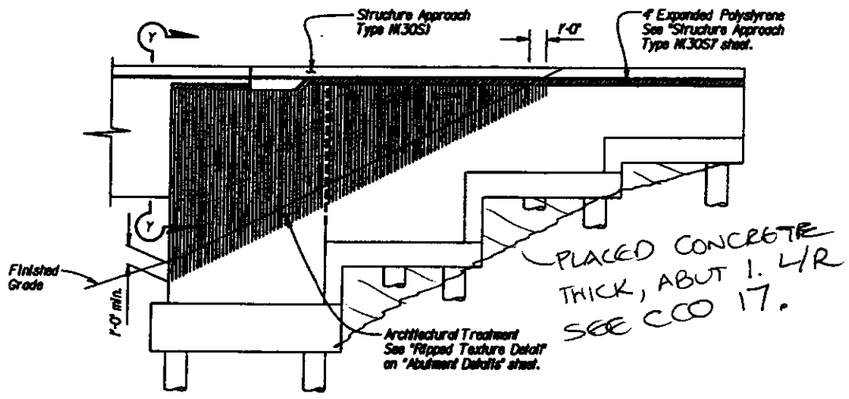
LOCATION	RIGHT BRIDGE				LEFT BRIDGE			
	Abutment 1		Abutment 7		Abutment 1		Abutment 7	
	Lt. Wall	Rt. Wall	Lt. Wall	Rt. Wall	Lt. Wall	Rt. Wall	Lt. Wall	Rt. Wall
PD1	10'-9"	10'-9"	10'-9"	10'-9"	10'-9"	10'-9"	10'-9"	10'-9"
PD2	3'-6"	3'-6"	3'-6"	3'-6"	3'-6"	3'-6"	3'-6"	3'-6"
PD3	4'-6"	4'-6"	4'-6"	4'-6"	4'-6"	4'-6"	4'-6"	4'-6"
PD4	3'-6"	3'-6"	3'-6"	3'-6"	3'-6"	3'-6"	3'-6"	3'-6"
PD5	NA	NA	7'-0"	7'-0"	7'-0"	7'-0"	7'-0"	7'-0"
WL	20'-0"	20'-0"	24'-0"	24'-0"	24'-0"	24'-0"	24'-0"	24'-0"
WL_1	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
WL_2	12'-0"	12'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
WL_3	NA	NA	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
H_1	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
H_2	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"
H_3	NA	NA	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"
R	5029'	5010'	NA	NA	4930'	4917'	NA	NA
BRG.	NA	NA	N18°42'59"W	N18°42'59"W	NA	NA	N18°42'59"W	N18°42'59"W
PL	22'-2"		18'-3"		21'-4½"		16'-5"	



Note:
Right Wall of Abutment 7
Right Bridge shown, others similar.

LIMITS OF ARCHITECTURAL TREATMENT

¼" = 1'-0"



PLACED CONCRETE THICK, ABOUT 1. 4/R SEE CCO 17.

RETAINING WALL TYPE I (MOD)

¼" = 1'-0"

AS BUILT PLANS

Contract No. 06-342604
Contractor Bemo
Resident Engineer L. HICKINBOTHAM
Date of Completion 11/97
BY DAVID L. VALLEJOS

	BY	CHECKED
DESIGN	Stanley Ku	Duc Trinh
DETAILS	Stanley Ku 08-95	Duc Trinh
QUANTITIES	Stanley Ku	Duc Trinh

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 8

BRIDGE NO. 42-268R/L
POST MILE R22J

ROUTE 41/99 SEPARATION
RETAINING WALL TYPE I (MOD) DETAILS

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 0607
EA 342601

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET NO.	OF
8	29

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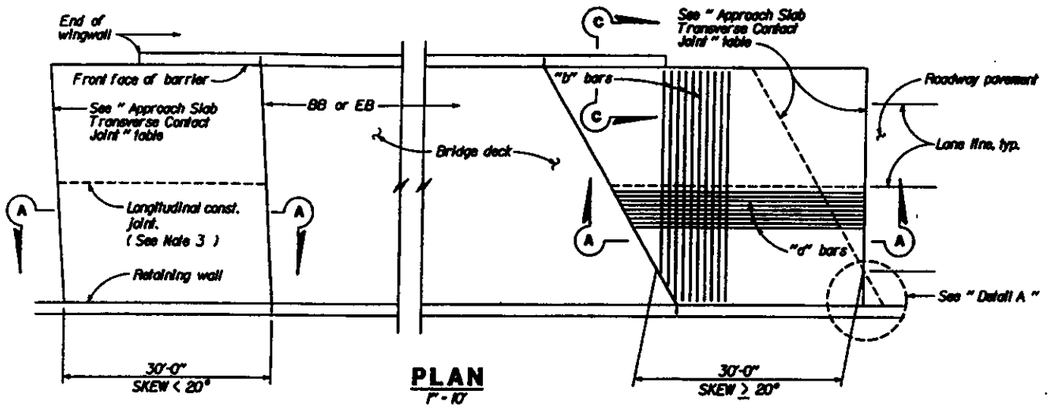
RELEASED 1-2-96

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41, 99	R20.1/R22.1, 19.2/19.8	273	368

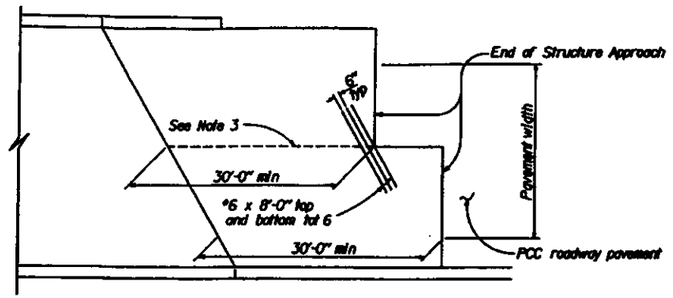
REGISTERED ENGINEER - CIVIL — STANLEY HU, No. 47498, Exp. 12-31-96, CIVIL, REGISTERED PROFESSIONAL ENGINEER, STATE OF CALIFORNIA

1-22-96
PLANS APPROVAL DATE

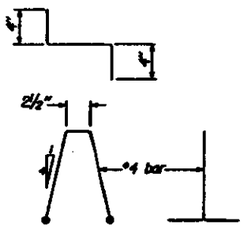
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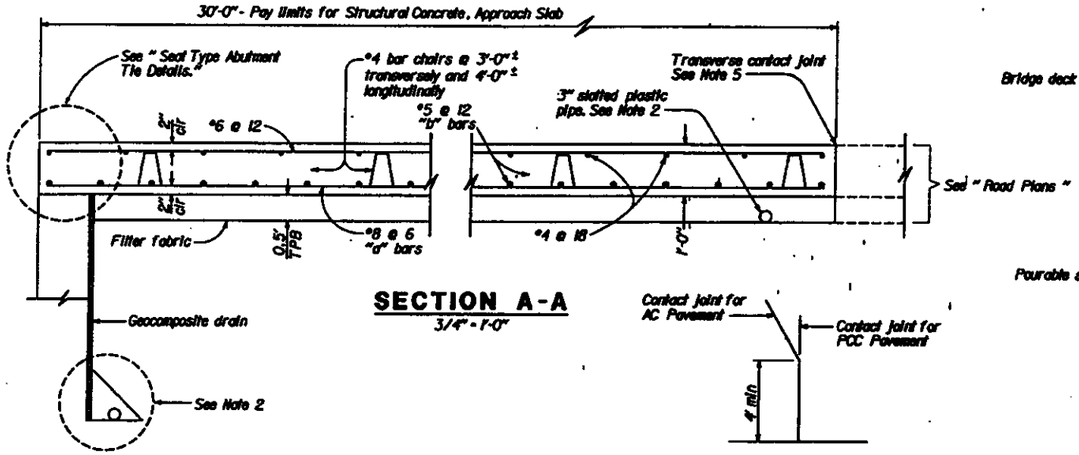
PLAN
1" = 10'



STRUCTURE APPROACH - END STAGGER DETAIL
NO SCALE

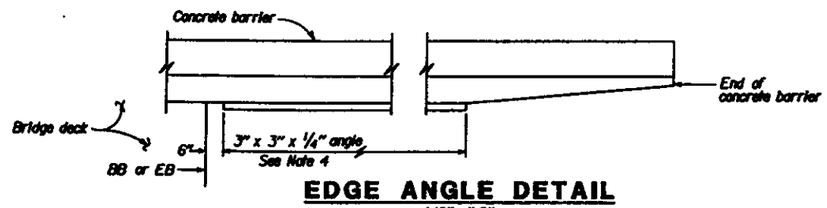


BAR CHAIR DETAIL
1½" = 1'-0"

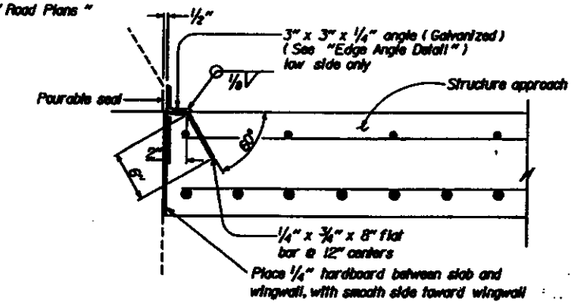


SECTION A-A
3/4" = 1'-0"

DETAIL A
NO SCALE

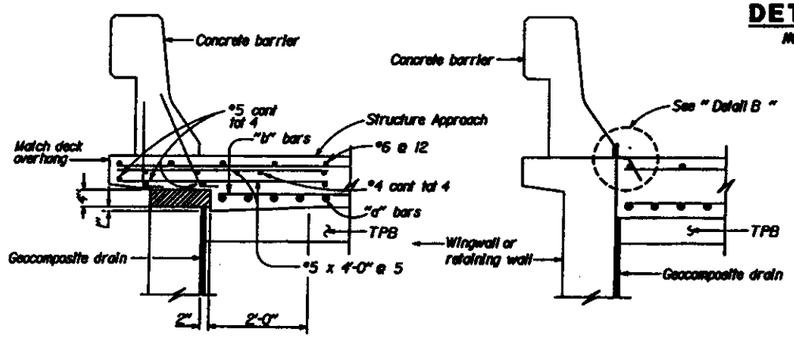


EDGE ANGLE DETAIL
1/2" = 1'-0"



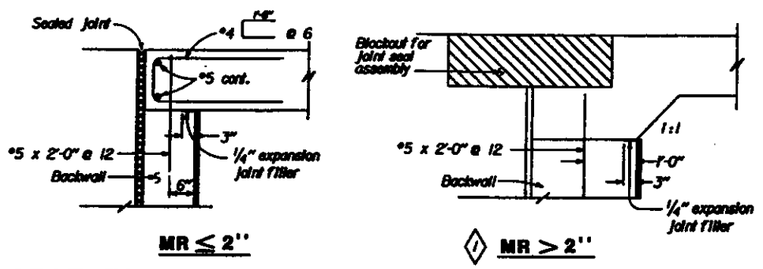
DETAIL B
1½" = 1'-0"

APPROACH SLAB TRANSVERSE CONTACT JOINT		
APPROACH SKEW	WITH AC ROADWAY PAVEMENT	WITH PCC ROADWAY PAVEMENT
< 20°	Parallel to face of paving notch	Parallel to face of paving notch
20°-45°	Parallel to face of P H use (Detail A)	Stagger lines 24" to 36" apart.
> 45°	Parallel to face of P H use (Detail A)	Stagger at each lane line.



TYPE E-1 TYPE E-2

SECTION C-C
3/4" = 1'-0"
(Type E-1 to be used, unless otherwise shown on plans.)



MR ≤ 2" ◇1 MR > 2"

SEAT TYPE ABUTMENT TIE DETAILS (SEE NOTE 1)
3/4" = 1'-0"

NOTES:

1. For MR ≤ 2", adjust bar reinforcement to clear a sawcut for sealed joint, when required. For MR > 2", see "Abutment Joint Seal Details" for reinforcement.
2. For drainage details, see " Structure Approach Drainage Details " sheet.
3. Longitudinal construction joints, when permitted by the Engineer, shall be located on lane lines.
4. End angle at beginning of barrier transition, end of wingwall or end of structure approach, as applicable.
5. For transverse contact joint with new PCC paving, refer to Standard Plan A35-A.
6. At the contractor's option, approach slab transverse reinforcement may be placed parallel to paving notch. Spacing of transverse reinforcement is measured along ℄ roadway.

▨ Remove all polystyrene.

STANDARD DRAWING
FILE NO. XS 22-16 | DESIGN BY M. Traffolis | CHECKED E. Thorkildsen
DESIGN DATE REVISED | DETAILS BY R. Yee | CHECKED E. Thorkildsen
SUBMITTED BY M. Ha
APPROVED RECOMMENDED BY — DESIGN SUPERVISOR

◇1 Modified Detail
◇2 Modified Note

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
DIVISION OF STRUCTURES
STRUCTURE DESIGN

BRIDGE NO. 42-266R/L
POST MILE R22J

ROUTE 41/99 SEPARATION
STRUCTURE APPROACH TYPE N(30S)

CU 0607
EA 342601

DISREGARD PRINTS BEARING EARLIER REVISION DATES → REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 23 OF 28

DS OSD 247A (CADD 4/99)
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

XS0022.DGN VH

AS BUILT PLANS
Contract No. 06-342604
Contractor Bianco
Resident Engineer IN RED C. HUGHBOTHAM
Date of Completion 11/96
No CHANGES
BY DAVID C. VALLEJO

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41, 99	R20.7/R22.1, 19.2/19.8	253	368

REGISTERED ENGINEER - CIVIL

STANLEY KU
No. 41958
Exp. 6-30-98
CIVIL
STATE OF CALIFORNIA

1-22-96
PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

AS BUILT PLANS

Contract No. 06-342604

Contractor Bergco

Resident Engineer L. HICKINBOTHAM

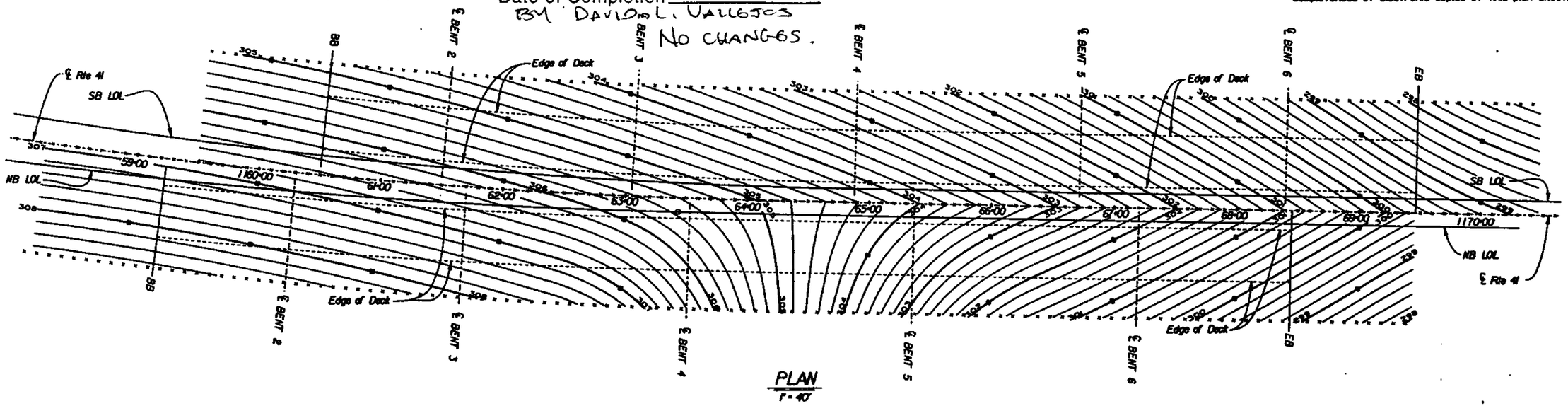
Date of Completion 11/97

BY DAVID L. VALLEJOS

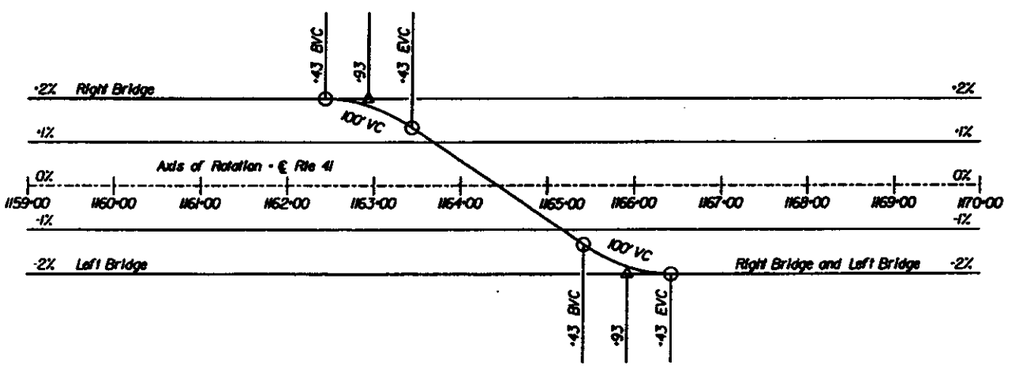
NO CHANGES.

NOTES:

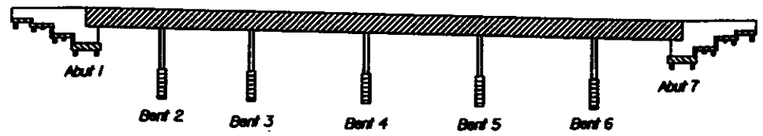
- o Indicates even foot contour.
- • 10' intervals along station lins.
1. Contours do not include camber.
2. Contour Interval = 0.20'
3. Contours shown are top of pcc deck elevations



PLAN
1" = 40'



SUPERELEVATION
No Scale



- Structural Concrete, Bridge
- Structural Concrete, Bridge Footing
- Structural Concrete, Bridge (4,000 psi at 28 days)
- CIDH Concrete Piles (3,500 psi at 28 days)

CONCRETE STRENGTH AND TYPE LIMITS
NO SCALE

DESIGN	BY Stanley Ku	CHECKED Duc Trinh	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 8	BRIDGE NO. 42-266 R/L; POST MILE R22.1
DETAILS	BY JFCesarino	CHECKED Duc Trinh			
QUANTITIES	BY Stanley Ku	CHECKED Duc Trinh		CU 06107 EA 342601	

ROUTE 41/99 SEPARATION
DECK CONTOURS

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DRAWING PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)

PLAN SHEET ID: SHEET 3 OF 29

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		SOLE PLATE			INTERMEDIATE PLATE				MASONRY PLATE			BEARING PAD		
LOCATION		Ls (In)	Ws (In)	Ts (In)	U (In)	Wi (In)	Ti (In)	Di (In)	Lm (In)	Wm (In)	Tm (In)	Lb (In)	Wb (In)	Tb (In)
Left Bridge	Abut 1	20	22	2	12	22	1 1/8	6 1/2	12	22	3/4	12	22	2
	Abut 7	20	22	2	12	22	1 1/8	6 1/2	12	22	3/4	12	22	2
Right Bridge	Abut 1	22	22	2	12	22	1 1/8	7	12	22	3/4	12	22	2
	Abut 7	22	22	2	12	22	1 1/8	7	12	22	3/4	12	22	2

DESIGN VERTICAL LOAD ON PTFE BEARING PAD			
LOCATION		MAXIMUM	MINIMUM
Left Bridge	Abut 1	230 kips	169 kips
	Abut 7	214 kips	153 kips
Right Bridge	Abut 1	228 kips	167 kips
	Abut 7	253 kips	186 kips

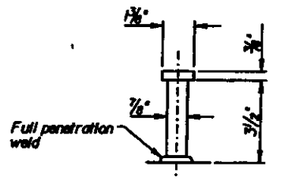
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41,99	R20.7/R22.1, 19.2/19.8	271	368

REGISTERED ENGINEER - CIVIL

STANLEY KU No. 47498 Exp. 12-31-96 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

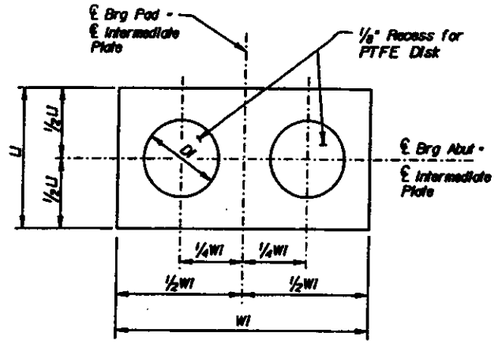
1-22-96
PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

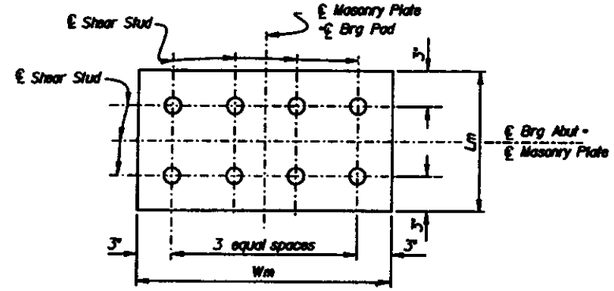


SHEAR STUD
3"=1'-0"

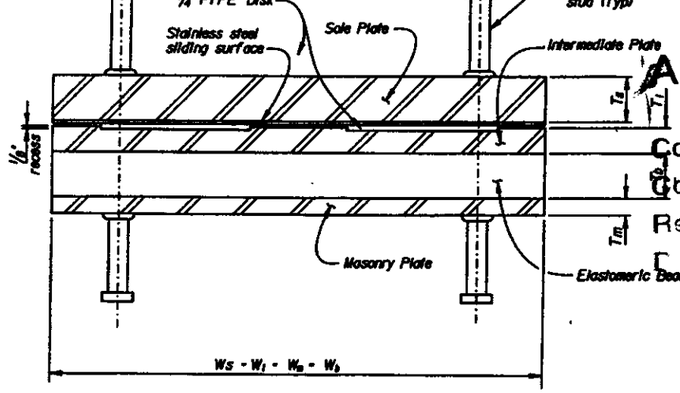
Note:
Not all shear studs shown.



INTERMEDIATE PLATE
No Scale

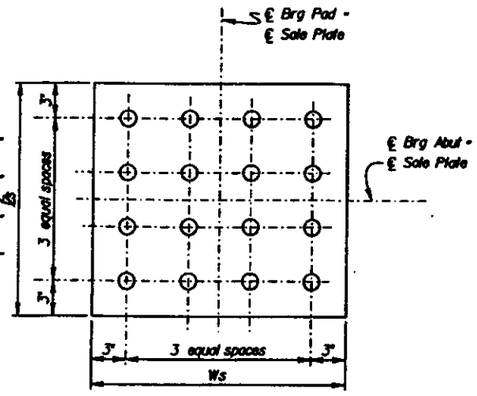


MASONRY PLATE
No Scale

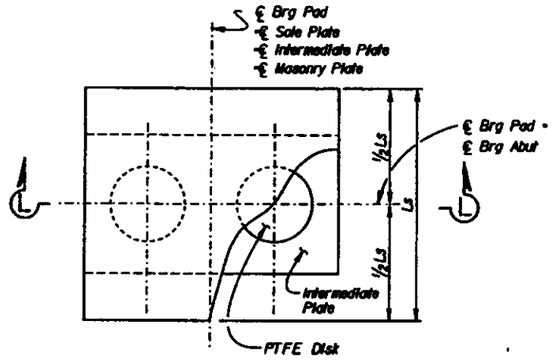


SECTION L-L
No Scale

AS BUILT PLANS
Contract No. 06-342604
Contractor BENCO
Resident Engineer L. HICKINBOTHAM
Date of Completion 11/97
BY DAVID L. VALLEJOS
NO CHANGES.



SOLE PLATE
No Scale

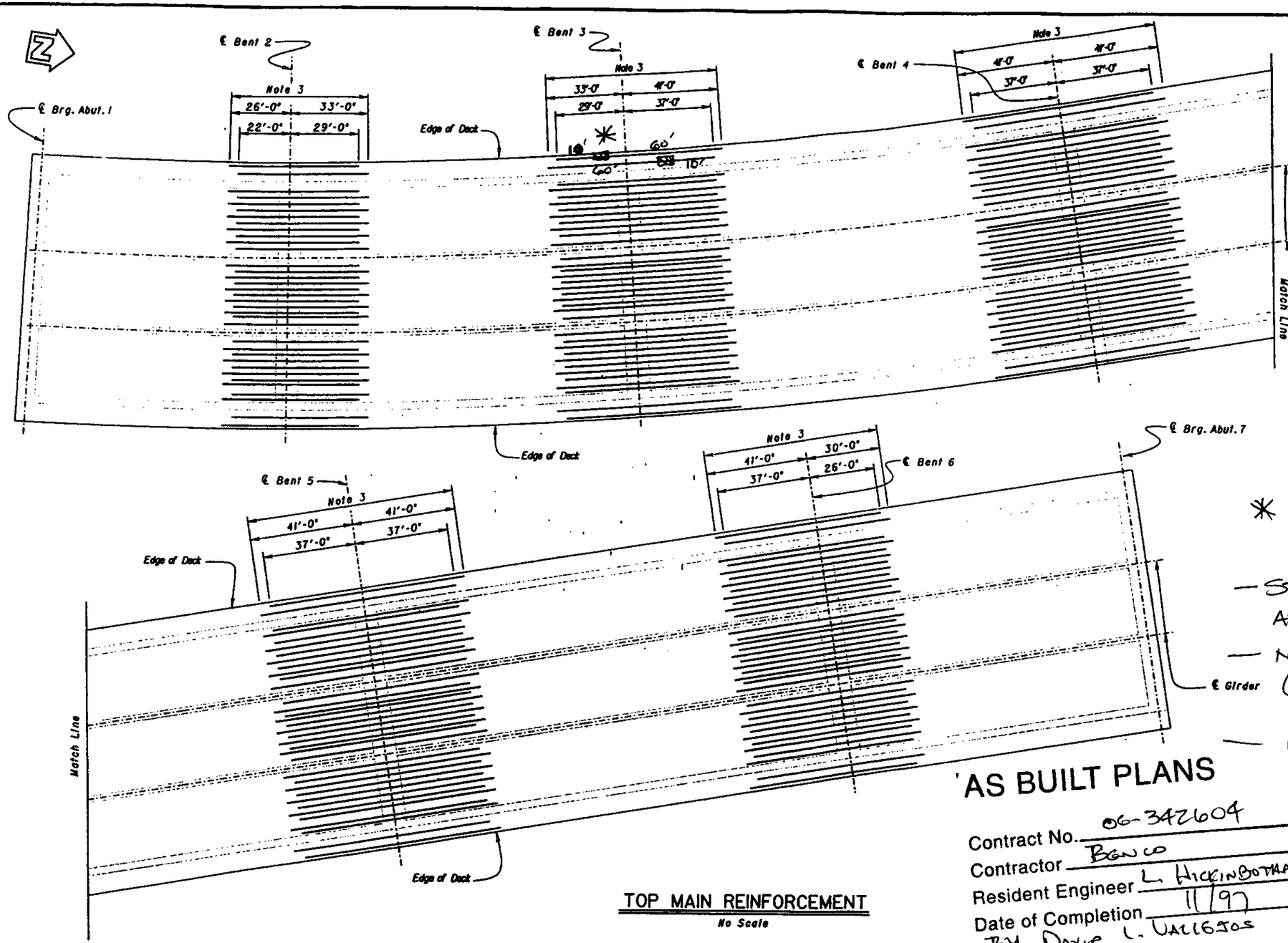


PTFE BEARING PAD
No Scale

DESIGN	Stanley Ku	CHECKED	Duc Trinh	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 8	ORIGINAL NO. 42-266R/L	41/99 SEPARATION OVERCROSSING
DETAILS	Roberta Lin	CHECKED	Duc Trinh			POST MILE R22.1	PTFE BEARING PAD
QUANTITIES	Stanley Ku	CHECKED	Duc Trinh		CU 06107 EA 342601		SHEET 21 OF 29

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3

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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41, 99	R80.7/R22.1, 19.2/19.8	268	368

REGISTERED ENGINEER - CIVIL

STANLEY KU
No. 42498
Date 12-31-96
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

1-22-96
PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

Notes:

1. All reinforcement #10 bars unless otherwise noted.
2. Reinforcement shall be placed to clear deck drain.
3. No lap splices allowed.
4. Right bridge shown, left bridge similar.

* TYP. LAYOUT OF COUPLERS AT ALL LOCATIONS.
— STAGGER ADJACENT COUPLERS AS SHOWN.
— NO COUPLERS AT ℄ BENT
— ERICO LENTON COUPLERS

TOP MAIN REINFORCEMENT
No Scale

'AS BUILT PLANS

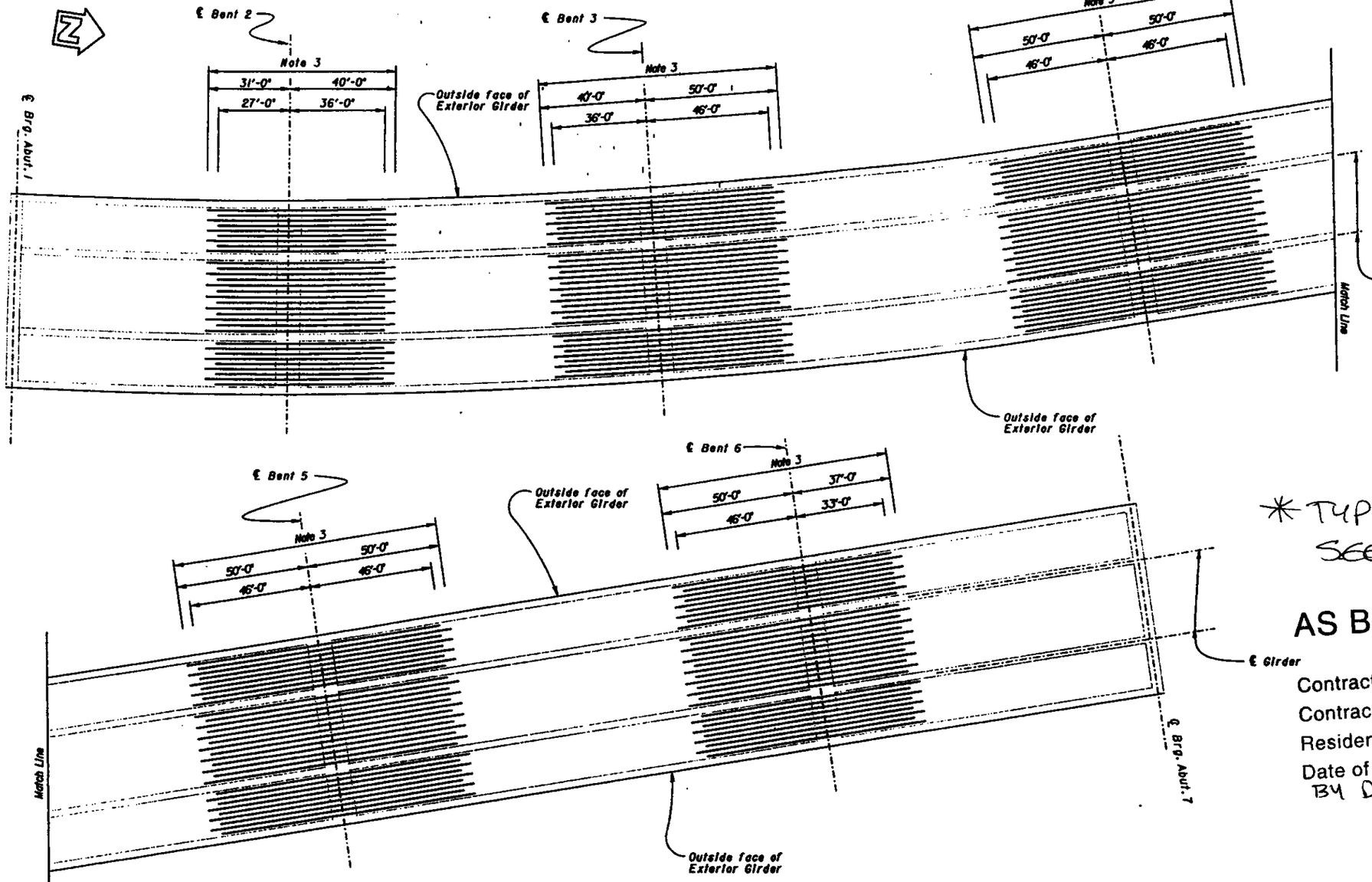
Contract No. 06-342604
Contractor BGN CO
Resident Engineer L. HICKINBOTHAM
Date of Completion 11/97
BY DAVID L. VALLEJOS

OVAL HOLE ADDED

DESIGN	BY Stanley Ku	CHECKED Duc Trinh	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 8	BRIDGE NO. 42-266R/L	ROUTE 41/99 SEPARATION	
DETAILS	BY	CHECKED Duc Trinh			POST MILE R22J	GIRDER REINFORCEMENT NO. 1	
QUANTITIES	BY Stanley Ku	CHECKED Duc Trinh		CU 0807 EA 342604	REVISED DATES	SHEET 18	OF 29

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3

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BOTTOM MAIN REINFORCEMENT

No Scale

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41, 99	R20.7/R22.1, 19.2/19.8	289	368

REGISTERED ENGINEER - CIVIL

STANLEY KU No. 47498 Exp. 6-30-98 CIVIL STATE OF CALIFORNIA

1-22-96
PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

Notes:

1. All reinforcement #10 bars unless otherwise noted.
2. Reinforcement shall be placed to clear Deck Drain.
3. No lap splices allowed.
4. Right bridge shown, left bridge similar.

* TYP. LAYOUT OF COUPLERS, SEE SHEET 268.

AS BUILT PLANS

Contract No. 06-342604
Contractor BENCO
Resident Engineer L. HICKINGBOTHAM
Date of Completion 11/97
BY DAVID L. VALLEJOS

#64

DESIGN	BY Stanley Ku	CHECKED Duc Trinh	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 8	BRIDGE NO. 42-268R/L
DETAILS	BY	CHECKED Duc Trinh			POST MILE R22.1
QUANTITIES	BY Stanley Ku	CHECKED Duc Trinh		CU 0807 EA 342601	

ROUTE 41/99 SEPARATION
GIRDER REINFORCEMENT NO.2

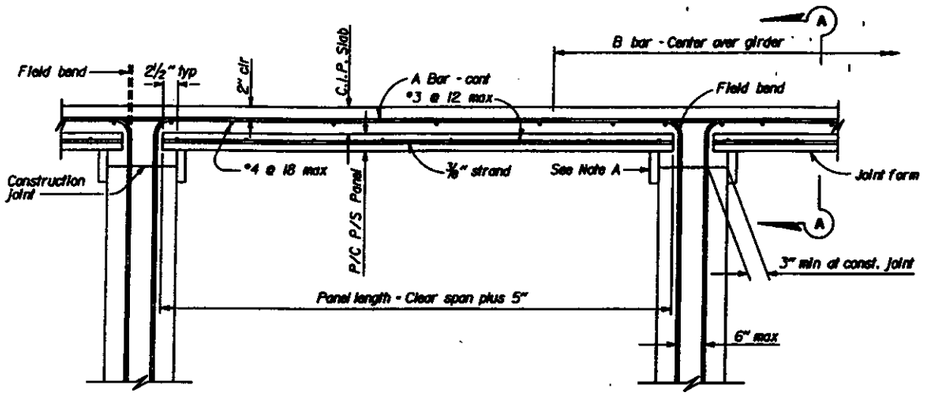
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

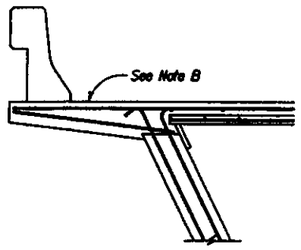
DESIGNED POINTS OCCURRING EARLIER REVISION DATES

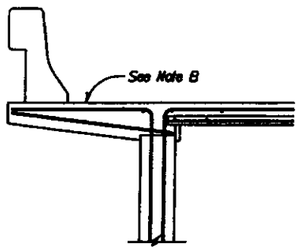
PLAN SHEET NO. 19 OF 29

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RELEASED 5-18-93







NOTE A - Support details for panels to be submitted to the engineer for review

NOTE B - See "Typical Section" on other detail sheets for reinforcing in the C.I.P cantilever

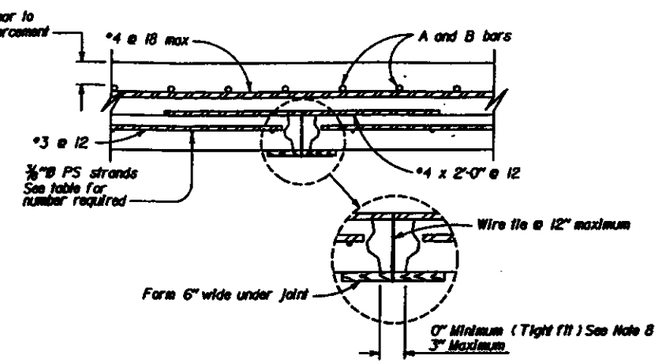
ALL PANELS				3" PANEL THICKNESS PANEL WT - 39#/SF				
SPAN ℄ GIRDER TO ℄ GIRDER	TOTAL SLAB THICKNESS (IN)	"A" BARS IN TOP OF C.I.P. SLAB CONT.	■ "B" BARS IN TOP OF C.I.P. SLAB SHORT BARS	C.I.P. SLAB THICKNESS (IN)		MIN. NO. OF ⅜" STRAND IN PANEL WIDTH		
				●		4'	6'	8'
6'-0"	7½"	#5 @ 12	3'-10"	11	4½"	6	9	12
6'-6"	7½"	#5 @ 12	4'-0"	11	4½"	6	9	12
7'-0"	7½"	#5 @ 12	4'-1"	11	4½"	6	9	12
7'-6"	7½"	#5 @ 12	4'-3"	11	4½"	6	9	12
8'-0"	7⅝"	#5 @ 12	4'-5"	14	4⅝"	6	9	12
8'-6"	7¾"	#5 @ 10	4'-7"	14	4¾"	7	10	14
9'-0"	8"	#5 @ 10	4'-9"	14	5"	8	12	16
9'-6"	8⅛"	#5 @ 10	4'-10"	14	5⅛"	9	13	17
10'-0"	8⅜"	#5 @ 10	5'-0"	14	5⅜"	10	15	20
10'-6"	8½"	#5 @ 10	5'-2"	14	5½"	11	16	22
11'-0"	8⅝"	#6 @ 12	5'-4"					
11'-6"	8⅞"	#6 @ 12	5'-5"					
12'-0"	9"	#6 @ 12	5'-7"					
12'-6"	9⅛"	#6 @ 12	5'-9"					
13'-0"	9⅜"	#6 @ 12	5'-11"					
13'-6"	9½"	#6 @ 12	6'-1"					
14'-0"	9¾"	#6 @ 12	6'-3"					
14'-6"	9⅞"	#6 @ 12	6'-4"					
15'-0"	10⅛"	#6 @ 12	6'-6"					

3½" PANEL THICKNESS PANEL WT - 45#/SF					
C.I.P. SLAB THICKNESS (IN)		MIN. NO. OF ⅜" STRAND IN PANEL WIDTH			
●		4'	6'	8'	
10	4⅛"	6	9	12	
10	4¼"	6	9	12	
11	4½"	6	9	12	
14	4⅝"	6	9	12	
14	4⅞"	7	10	13	
14	5"	7	11	14	
14	5⅛"	8	12	15	
14	5¼"	9	13	17	
14	5⅜"	10	14	18	
14	5½"	10	15	20	
14	5⅝"	10	15	20	
14	5⅞"	11	17	22	

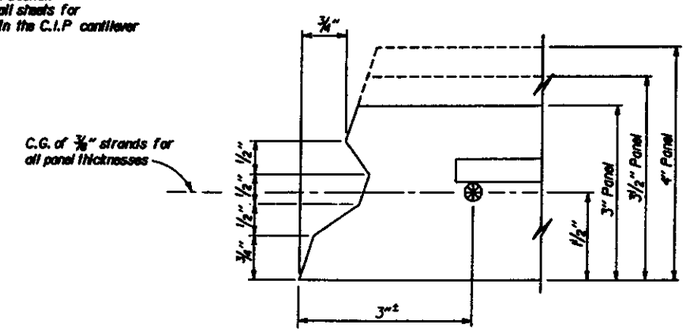
4" PANEL THICKNESS PANEL WT - 52#/SF				
C.I.P. SLAB THICKNESS (IN)		MIN. NO. OF ⅜" STRAND IN PANEL WIDTH		
●		4'	6'	8'
14	4⅝"	6	9	12
14	4⅞"	7	10	13
14	5"	7	10	14
14	5⅛"	8	11	15
14	5¼"	9	12	16
14	5½"	9	13	18
14	5¾"	10	15	19
14	5⅞"	11	16	21
14	6⅛"	12	17	22

■ "B" bars to be centered on C.I.P. Spacing and size to be same as for "A" bars. At exterior girder cantilevers use reinforcing shown on detail sheets.

● The maximum size longitudinal bar between top of panel and "A" bars to provide 2" clearance at top of C.I.P slab. If larger clearance is required for environmental reasons, thicken slab.



SECTION A-A



EDGE DETAIL

AS BUILT PLANS

Contract No. 06-342604

Contractor Benco

Resident Engineer L. Hickinbotham

Completion 11/97

By David L. Vallejos

*NOT USED ON THIS PROJECT

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41,99	R20.7 / R22.1, 19.2 / 19.8	275	368

REGISTERED ENGINEER - CIVIL — STANLEY XU, No. 47998, Exp. 12-31-96, CIVIL, REGISTERED PROFESSIONAL ENGINEER, STATE OF CALIFORNIA

1-22-96
PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

NOTES:

1. The contractor shall submit for the Engineer's approval, layout and detail shop plans showing all dimensions, steel reinforcement, lifting loops, bar chairs, joint forms, ⅜" diameter prestressing strands and clearances. Details not shown on shop plans shall conform to the contract plans.
2. All pretensioned panels shall be placed perpendicular or radial to the longitudinal post - tensioned cast-in-place girders.
3. Ends of the panel shall be neatly sawed to provide 2½" wide concrete bearing surface on the cast-in-place girders and caps. When panels are placed in variable width bays or trapizodial and triangular corners, they shall be sawed to fit. Adjust reinforcing steel at caps to provide for the 2½" bearing surface.
4. Cast-in-place bearing concrete thickness under the pretensioned panel ends shall be not less than 2" deep or more than 3" deep.
5. For use with cast-in-place post tensioned girders with 12" min. girder stems.
6. Finish on top of panels to be rated parallel to strands, ¼" amplitude.
7. These details are alternative to those shown on the superstructure plans. Details not shown shall conform to those details.
8. If panels are tight fit, wire and tie forms are not required.

DESIGN NOTES:

LIVE LOADING:

HS20-44 and alternative and permit design load in accordance with 1983 AASHTO and all current interim specifications and revisions by Caltrans.

Design includes 35 lbs. per square foot for future wearing surface.

CONCRETE STRENGTH:

Precast pretensioned panels: f'_c = 5000 psi at 28 days; f'_{ci} = 4000 psi at release

Cast-in-place deck slab: f'_c = 4000 psi at 28 days, or as required on "prestressing notes" for superstructure concrete.

PRESTRESSING STEEL:

All strands shall be ⅜" diameter low relaxation steel strands with minimum ultimate strength f'_s = 270,000 psi.

Initial jacking force per ⅜" strand = 16,800 pounds.

STANDARD DRAWING					
FILE NO. XS 12-73	DESIGN BY W.J. Jurkovich	CHECKED E.G. Pomeroy	APPROVAL RECOMMENDED BY Shannon L. Post, BRIDGE ENGINEER		
DESIGN DATE 5/93	DETAILS BY R. Yee	CHECKED W.J. Jurkovich			
	SUBMITTED BY W.J. Jurkovich				

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN

CU 06107
EA 342601

BRIDGE NO. 42-266 R/L
POST MILE R 22.1

ROUTE 41/99 SEPARATION

PC P/S CONCRETE DECK PANELS FOR P/S BOX GIRDERS

DS OSD 247A (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 25 OF 29

XS12F3.DGN VM

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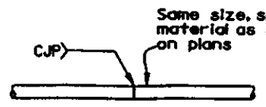
AS BUILT PLANS

Contract No. 06-342604
Contractor BENCO
Resident Engineer L. HICKINBOTHAM
Date of Completion 11/97
BY DAVID L. VALLEJO

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41, 99	R20.7/R22.4 19.2/19.8	259	368

REGISTERED ENGINEER - CIVIL
STANLEY KU No. 47938 Exp. 12-31-96 CIVIL
1-22-96
PLANS APPROVAL DATE

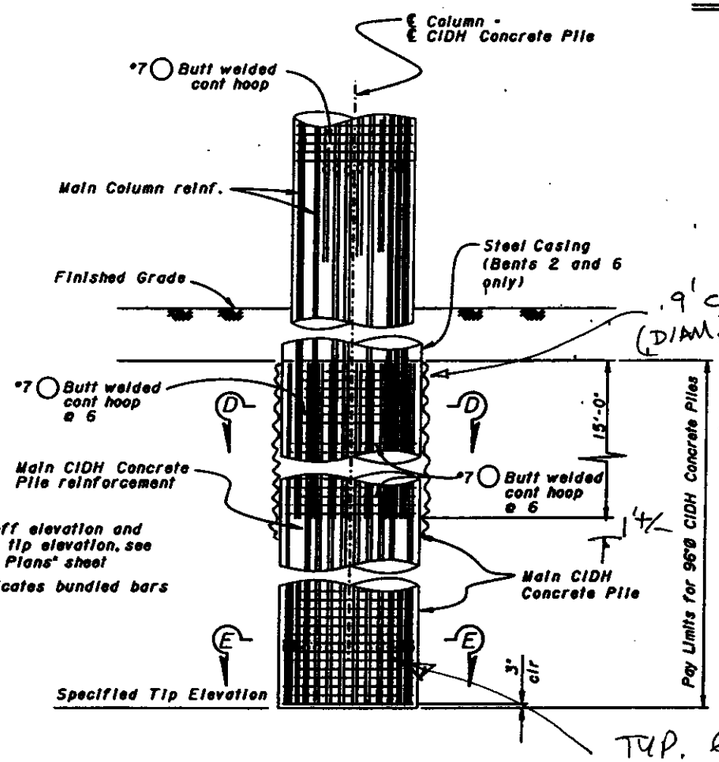
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



Individual hoops, made continuous with 100% penetration welds.

BUTT WELDED CONTINUOUS HOOP

No Scale

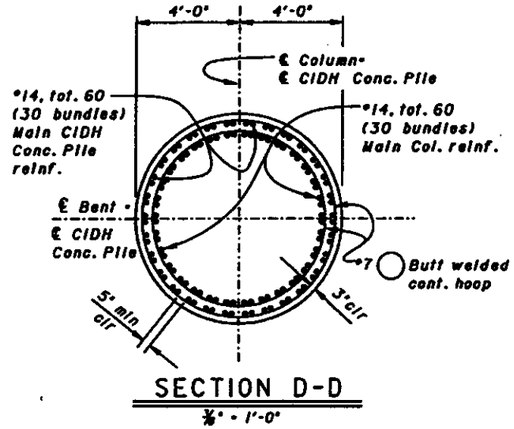


9' CMP CASING LEFT IN-PLACE (DIAM.) WITH 6"-12" 3 SACK SLURRY BACKFILL AROUND THE OUTSIDE OF CASING. TYP. ALL LOCATIONS EXCEPT BENT 2 L/R & 6 L/R. CMP CASING REMOVED FOR PLACEMENT OF ISOLATION CASING.

TYP. ERICO LENTON COUPLER STAGGER

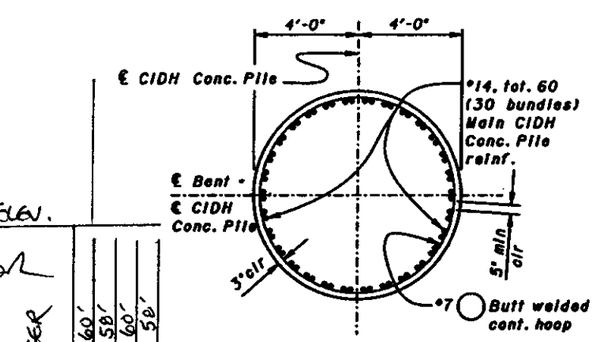
ELEVATION

1/4" = 1'-0"



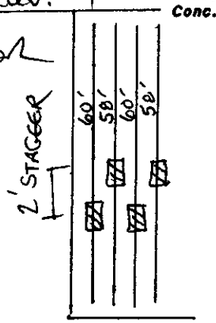
SECTION D-D

3/8" = 1'-0"



SECTION E-E

3/8" = 1'-0"



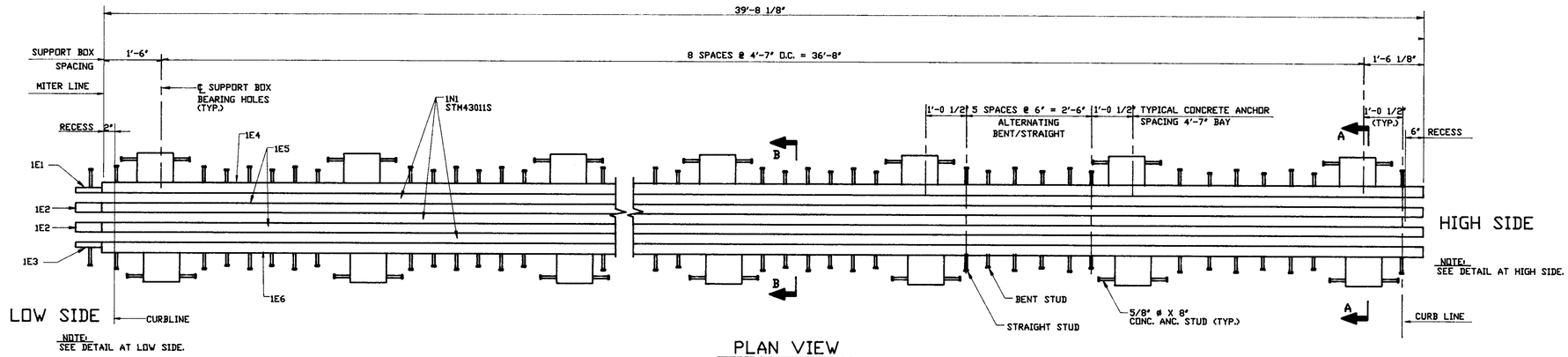
DESIGN	BY Stanley Ku	CHECKED Duc Trinh	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 8	BRIDGE NO. 42-286R/L
DETAILS	BY Stanley Ku 10-95	CHECKED Duc Trinh			POST MILE R22J
QUANTITIES	BY Stanley Ku	CHECKED Duc Trinh		CU 0607 EA 342601	ROUTE 41 / 99 SEPARATION
					96"Ø CIDH CONCRETE PILE

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES

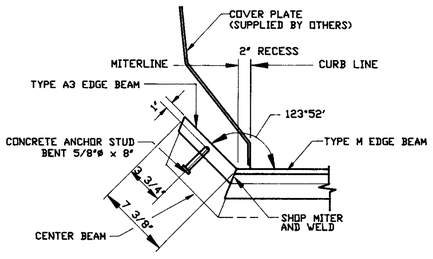
PLAN SHEET NO. 9 OF 29

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PLAN VIEW

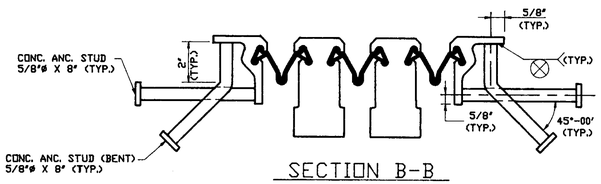
STM43011AA
1 REQ'D @ 42-266L ABUT. 1
1 REQ'D @ 42-266L ABUT. 7
1 REQ'D @ 42-266R ABUT. 7



DETAIL AT LOW SIDE

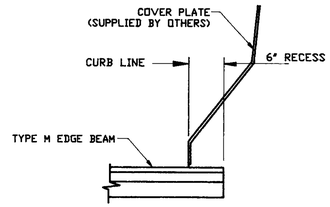
JOINT INFORMATION CHART							
PRODUCT NO.	BRIDGE NO.	LOCATION	M.R.	SKEW	'A' DIMENSION		
					WINTER	SUMMER	SPRING & FALL
STM43011AA	42-226L	ABUTMENT 1	6 1/2"	0°	3 1/4"	1 3/4"	2 1/2"
STM43011AA	42-266L	ABUTMENT 7	7"	0°	3 1/2"	1 3/4"	2 1/2"
STM43011AA	42-266R	ABUTMENT 7	8"	0°	4"	2"	3"

MIN. "W" = 2(2.5) + [MAX STRUCT. TEMP. - ACTUAL STRUCT. TEMP.] X [.0000060) (1200) (CONTRIBUTORY LENGTH/100)]
SEE CALTRANS FORM DS-D129 FOR TEMPERATURE AND CONTRIBUTORY LENGTH



SECTION B-B

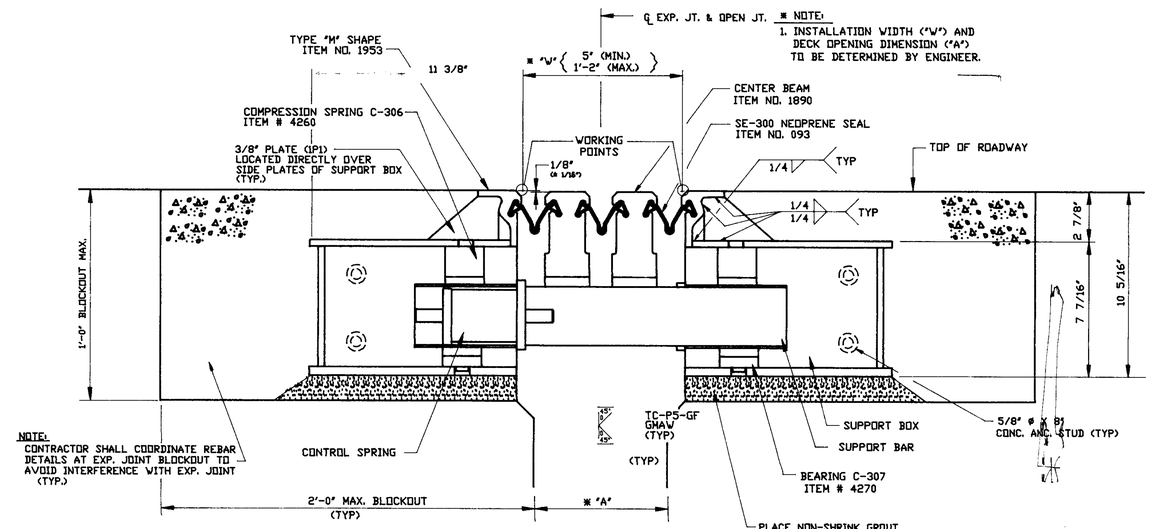
NOTE: FOR INFORMATION NOT SHOWN SEE SECTION A-A.



DETAIL AT HIGH SIDE

GENERAL NOTES

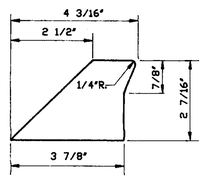
1. THE CONTRACTOR MUST VERIFY ALL DIMENSIONS PRIOR TO FABRICATION TO ENSURE ACCURACY OF THE EXPANSION JOINT.
2. ALL MATERIALS AND FABRICATION SHALL BE IN ACCORDANCE WITH THE 1992 STATE OF CALIFORNIA STANDARD SPECIFICATIONS AND THE PROJECT SPECIAL PROVISIONS, EXCEPT AS NOTED HEREIN.
3. ALL WELDING SHALL CONFORM TO THE REQUIREMENTS OF THE 1992 STATE OF CALIFORNIA STANDARD SPECIFICATIONS, ANSI/AASHTO/AWS D1.5, AND THE PROJECT SPECIAL PROVISIONS.
4. THE EXPANSION JOINT ASSEMBLY SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A-123 AFTER FABRICATION.
5. THE EXPANSION JOINT OPENING SHALL BE PRESET BY THE MANUFACTURER TO 9 1/2" PRIOR TO SHIPPING. FINAL ADJUSTMENT SHALL BE MADE IN THE FIELD, BY THE CONTRACTOR AS DIRECTED BY THE E.I.C., PRIOR TO PLACEMENT OF CONCRETE.
6. THE NEOPRENE SEALS SHALL BE SHOP INSTALLED BY THE MANUFACTURER USING INSTALLATION TOOLS AND PRIMA-LUB ADHESIVE. THE ADHESIVE SHALL BE APPLIED TO ALL NEOPRENE/STEEL CONTACT SURFACES.
   THE NEOPRENE SEALS SHALL BE SUPPLIED IN CONTINUOUS LENGTHS. FACTORY SPLICES WILL BE PERMITTED.
7. IN HOUSE STATE INSPECTION IS NOT REQUIRED.



SECTION A-A

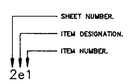
NOTE: REINFORCEMENT: AT THE TIME OF REINFORCEMENT PLACEMENT, THE EXPANSION JOINT BLOCKOUT AREA SHALL BE LAYED OUT, INCLUDING MODULAR EXPANSION JOINT SUPPORT BOX LOCATIONS. ANY MINOR RELOCATION OF REINFORCEMENT SHALL BE MADE AT THIS TIME TO AVOID INTERFERENCE WITH THE MODULAR EXPANSION JOINT SUPPORT BOXES AND/OR ANCHORAGES. W.B.A. DOES NOT REQUIRE ANY ADDITIONAL REBAR BE PLACED FOR THE PROPER FUNCTIONING OF THE MODULAR EXPANSION JOINT.

CALTRANS: PLEASE VERIFY.



1P1 DETAIL

3/8" PLATE



MARK SYSTEM

NO.	DESCRIPTION	NAME	DATE
1			
2			
3			
4			

REVISIONS

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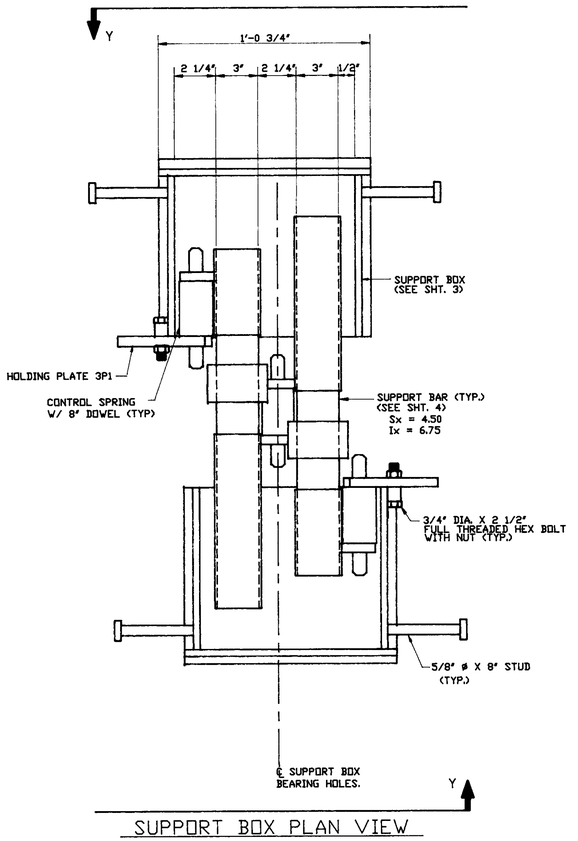
Watson Bowman Acme
85 PINEVIEW DRIVE AMHERST, N.Y. 14228 TEL. (716) 691-7588 FAX (716) 691-9239
JENNE
A DIVISION OF HARRIS SPECIALTY CHEMICALS, INC.

PROJECT:
ROUTE 41/99 SEPARATION
WBA STM-900 MODULAR STRIP SEAL EXP. JOINT

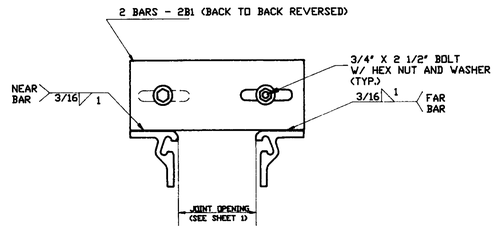
DETAILED BY: MN	DATE: 8/8/96
CHECKED BY: JFW	DATE: 8/28/96
SCALE: N.T.S.	WBA JOB NO.: 43011
SHEET NO.: 1 OF 5	DRAWING NO.: B-16409

STATE:	CALIFORNIA
COUNTY:	FRESNO
CONTRACT NO.:	06-342604
DISTRICT: 06	ROUTE: 41,99
BRIDGE NO.:	42-266L, 42-266R
JOINT LOCATION:	ABUT. 1 & 7, ABUT 7
POST MILE:	35.0
WBA PRODUCT NO.:	STM42325AA

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SUPPORT BOX PLAN VIEW

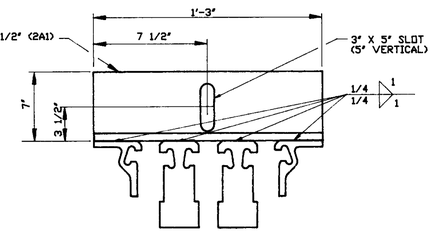


SHIPPING CLAMP ASSEMBLY

(THIS IS A TEMPORARY DEVICE)

NOTE:

1. SHIPPING CLAMPS SHALL BE SPACED DIRECTLY BETWEEN SUPPORT BOXES, PARALLEL TO THE CENTERLINE OF THE SUPPORT BAR, AND BETWEEN ENDS OF JT. AND FIRST & LAST BOXES.
2. EACH SHIPPING CLAMP ASSEMBLY SHALL INCLUDE:
   (2) BAR - 2B1
   (2) 3/4" DIA. X 2 1/2" BOLT
   (2) 3/4" HEX NUT
   (2) 3/4" STD. WASHERS
3. CONTRACTOR TO REMOVE SHIPPING CLAMPS WHEN JOINT IS SET AND GRIND WELDS SMOOTH, AND TOUCH UP ANY DAMAGED GALVANIZED AREAS.

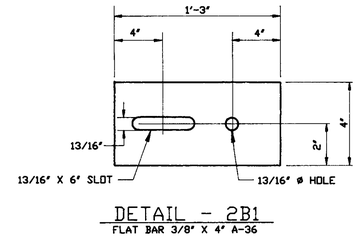


LIFTING DEVICE ASSEMBLY

THIS IS A TEMPORARY DEVICE

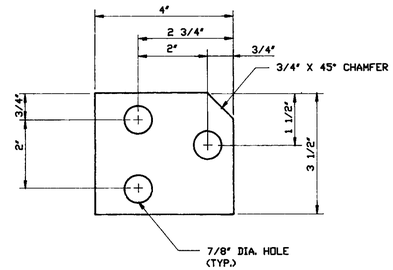
NOTE:

1. LIFTING ANGLES SHALL BE PLACED BY THE FABRICATOR TO ACHIEVE A LEVEL LIFT FOR PLACEMENT (2 PER JT.SECTION).
2. THE CONTRACTOR SHALL REMOVE AFTER THE JOINT IS SET IN BLOCKOUT, PRIOR TO PRESETTING OF JOINT.
3. THE CONTRACTOR SHALL REMOVE BY GRINDING WELDS SMOOTH.
4. CONTRACTOR SHALL TOUCH UP ANY DAMAGED GALVANIZED AREAS.



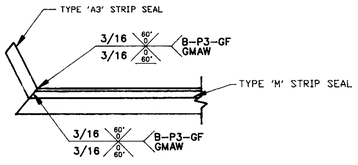
DETAIL - 2B1

FLAT BAR 3/8" X 4" A-36



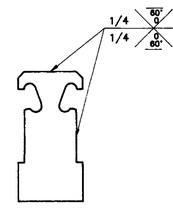
HOLDING PLATE - 2P1

1/2" PLATE



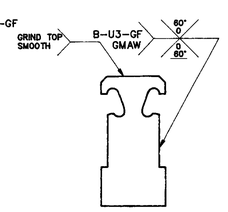
SHOP WELD DETAIL

CURB UPTURN SPLICE

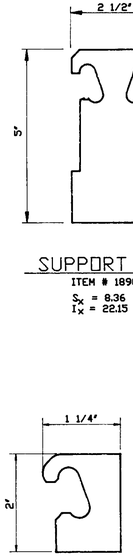


SHOP WELD DETAIL

CURB UPTURN SPLICE



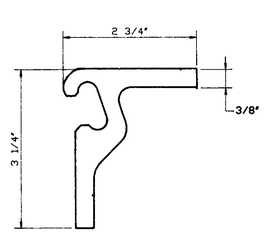
SHOP WELD DETAIL



SUPPORT BEAM

ITEM # 1890

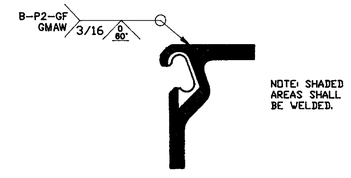
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I_x = 22.15



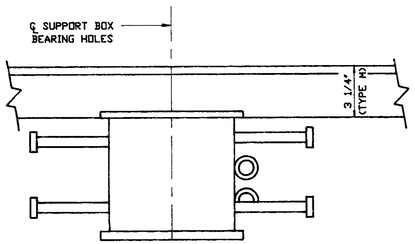
TYPE 'M' SHAPE

ITEM # 1953

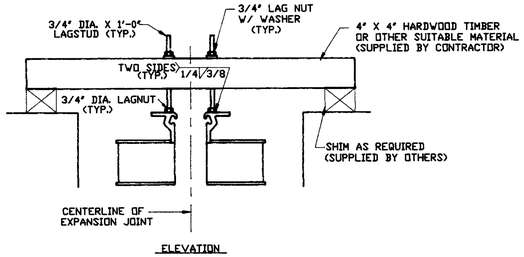
S_x = 1.56
I_x = 2.23



SHOP WELD DETAIL



VIEW - Y

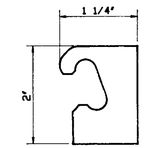


ELEVATION

LEVELING ASSEMBLY

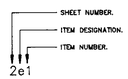
NOTES:

1. LEVELING NUTS SHALL BE LOCATED AT EVERY OTHER SUPPORT BOX.
2. LEVELING NUTS SHALL BE SHOP INSTALLED PARALLEL TO THE EXPANSION JOINT SUPPORT BARS.
3. CONTRACTOR SHALL MATCH DRILL THE TIMBER WITH THE 3/4" LAG NUTS PRIOR TO SETTING THE EXPANSION DAM IN ITS FINAL POSITION.
4. CONTRACTOR SHALL REMOVE LEVELING NUTS WHEN JOINT IS SET AND GRIND WELDS SMOOTH.
5. CONTRACTOR SHALL TOUCH UP ANY DAMAGED GALVANIZED AREAS.
6. 3/4" X 1'-0" LAGSTUD (INCLUDING HARDWARE) SHALL BE REUSED FOR JOINTS STM42325AA, STM42325AB, AND BOTH STM42325AC. SUPPLIED ON WBA DRAWING B-16342



TYPE 'A3' SHAPE

ITEM # 1918



MARK SYSTEM

STATE: CALIFORNIA
COUNTY: FRESNO
CONTRACT NO.: 06-342604
DISTRICT: 06 ROUTE: 41,99
BRIDGE NO.: 42-266L, 42-266R
JOINT LOCATION: ABUT. 1 & 7, ABUT 7
POST MILE: 35.0
WBA PRODUCT NO.: STM42325AA

NO.	DESCRIPTION	NAME	DATE
4			
3			
2			
1			

REVISIONS

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Watson Bowman Acme
85 PINEVIEW DRIVE AMHERST, N.Y. 14228 TEL. (716) 691-7566 FAX (716) 691-9239
A DIVISION OF JENNS HARRIS SPECIALTY CHEMICALS, INC.

PROJECT:
ROUTE 41/99 SEPARATION
WBA STM-900 MODULAR STRIP SEAL EXP. JOINT

DETAILED BY: MN	DATE: 8/8/96
CHECKED BY: JFW	DATE: 8/28/96
SCALE: N.T.S.	WBA JOB NO.: 43011
SHEET NO.: 2 OF 5	DRAWING NO.: B-16409

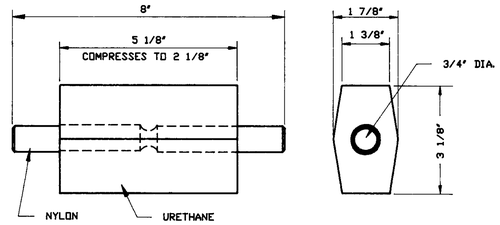
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STRUCTURED BILL OF MATERIALS FOR STM43011BR1

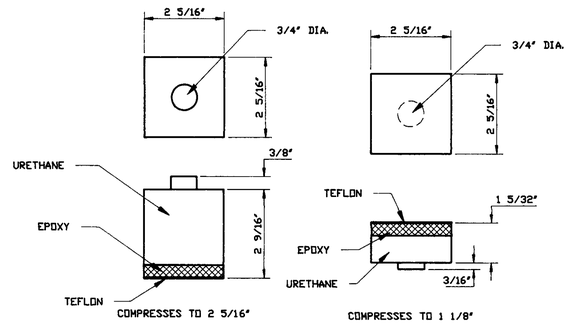
STM43011BR1 QTY.REQ'D: 1 EA STRUCTURED BILL OF MATERIALS DWG. NO.: B-16409

LV	PART NO.	QUANTITY	U/M	DESCRIPTION	MATERIAL	REV. #
0	STM43011BR1	1.000	EA	STM-900 SUP'T BAR 3P1 B-16409(X	GALVANIZED BARS	
1	3734	57.000	LB	PLATE 3"	A-36	
1	4323	2.000	EA	MOD SUP STOP BAR C-13159	A-36	
1	STM43011BR101	2.000	EA	FLAT BAR SS 3 1/4" X 6"(3M1)(X		
2	8570	0.700	LB	STNLS STL 12GA TYPE 304 2B FIN		
1	STM43011BR102	2.000	EA	FLAT BAR SS 3 1/4" X 9"(3M2)(X		
2	8570	1.000	LB	STNLS STL 12GA TYPE 304 2B FIN		

********** END OF STRUCTURED BILL OF MATERIALS **********

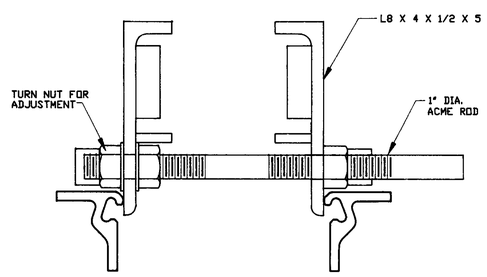


CONTROL SPRING



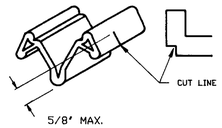
COMPRESSION SPRING
C-306

BEARING
C-307

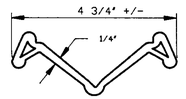


PRESTRESS DEVICE
(PART # 4324)
POSITION FOR EXPANSION

NOTE: PRESTRESS DEVICE TO BE USED ON ALL JOINTS INCLUDING THOSE ON WBA DWG B-16408.

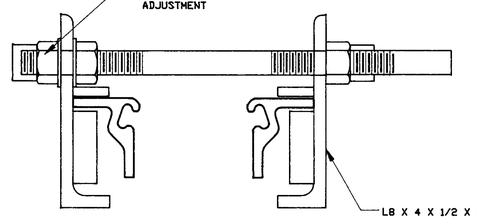


SEAL TREATMENTS AT CURB
(TO BE USED FOR ANGLES GREATER THAN 60°)

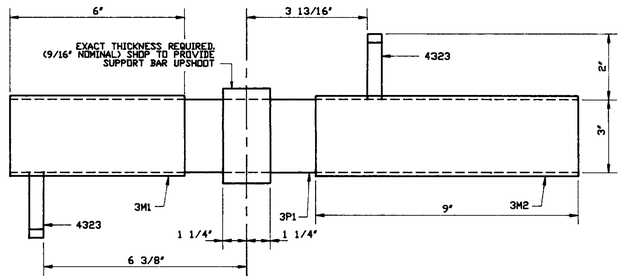


MOVEMENT RATING - 3"

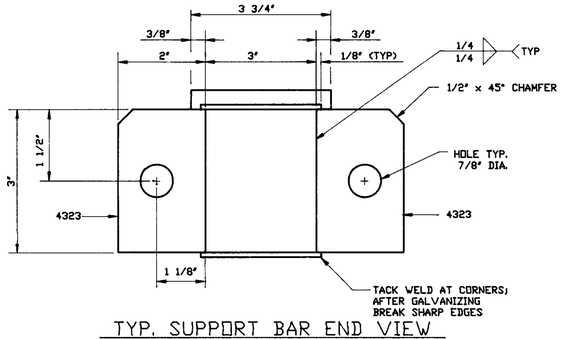
SE-300 SEAL
ITEM # 093



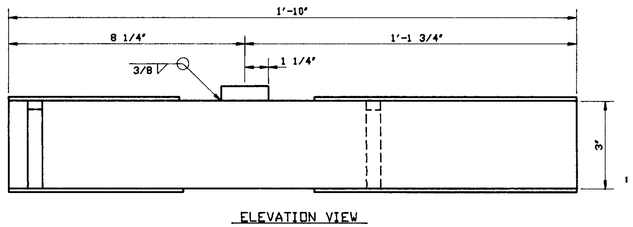
PRESTRESS DEVICE
(PART # 4324)
POSITION FOR COMPRESSION



PLAN VIEW

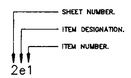


TYP. SUPPORT BAR END VIEW



ELEVATION VIEW

SUPPORT BAR - 3P1



MARK SYSTEM

STATE: CALIFORNIA
COUNTY: FRESNO
CONTRACT NO.: 06-342604
DISTRICT: 06 ROUTE: 41,99
BRIDGE NO.: 42-266L, 42-266R
JOINT LOCATION: ABUT. 1 & 7, ABUT 7
POST MILE: 35.0
WBA PRODUCT NO.: STM42325AA

NO.	DESCRIPTION	NAME	DATE
4			
3			
2			
1			

REVISIONS

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Watson Bowman Acme
85 PINEVIEW DRIVE AMHERST, N.Y. 14228 TEL. (716) 691-7588 FAX (716) 691-9239
JENNE
A DIVISION OF HARRIS SPECIALTY CHEMICALS, INC.

PROJECT:
ROUTE 41/99 SEPARATION
WBA STM-900 MODULAR STRIP SEAL EXP. JOINT

DETAILED BY: MN	DATE: 8/8/96
CHECKED BY: JFW	DATE: 8/28/96
SCALE: N.T.S.	WBA JOB NO.: 43011
SHEET NO.: 3 OF 5	DRAWING NO.: B-16409

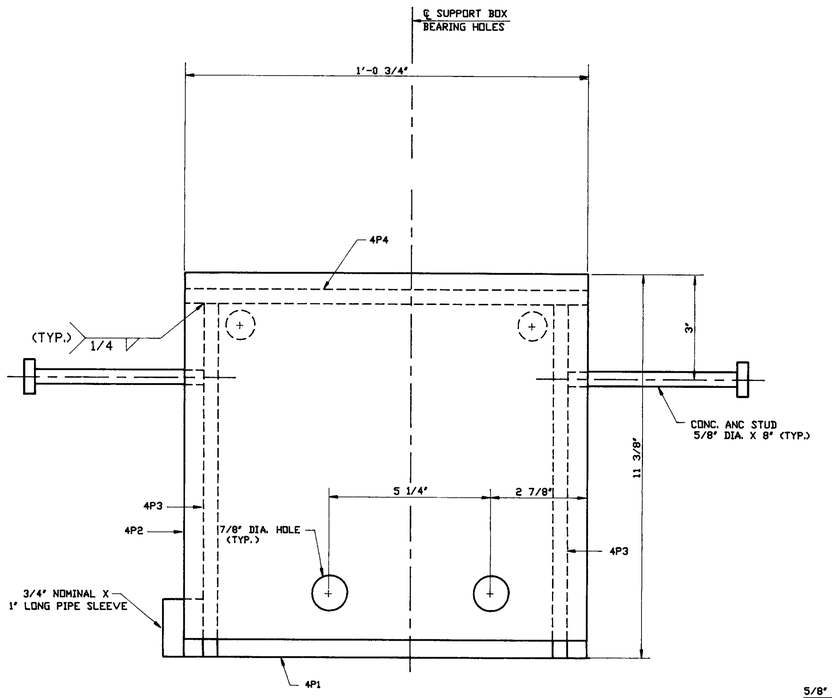
ClibPDF - www.fastio.com

STRUCTURED BILL OF MATERIALS FOR STM43011BX1

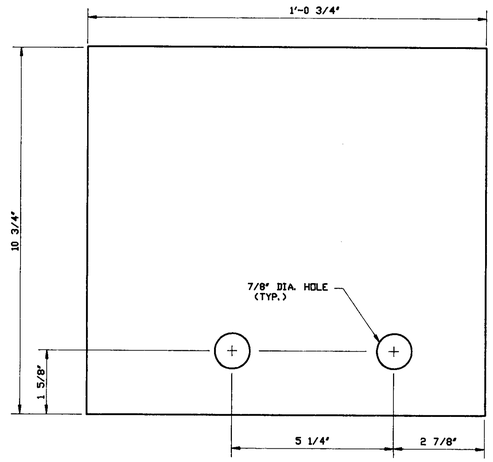
STM43011BX1 QTY.REQ'D: 1 EA STRUCTURED BILL OF MATERIALS DWG NO.: B-16409

LV	PART NO.	QUANTITY	U/M	DESCRIPTION	MATERIAL	REV. #
0	STM43011BX1	1.000	EA	STM-900 SUPPORT BOX B-16409 (X	GALVANIZED BOXES	
1	3540	54.500	LB	PLATE 3/8"	A-36	
1	7233	2.000	EA	PIPE 3/4" NOMINAL SCH 40 X 1"		
1	STM43011BX101	1.000	PK	PARTS FOR BOX ASSEMBLY (U		
2	4640	4.000	EA	CONC. ANC. 5/8" X 8" NP	A-108	

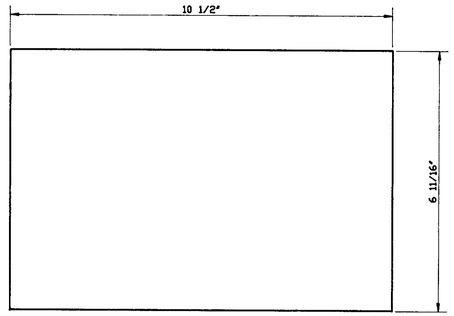
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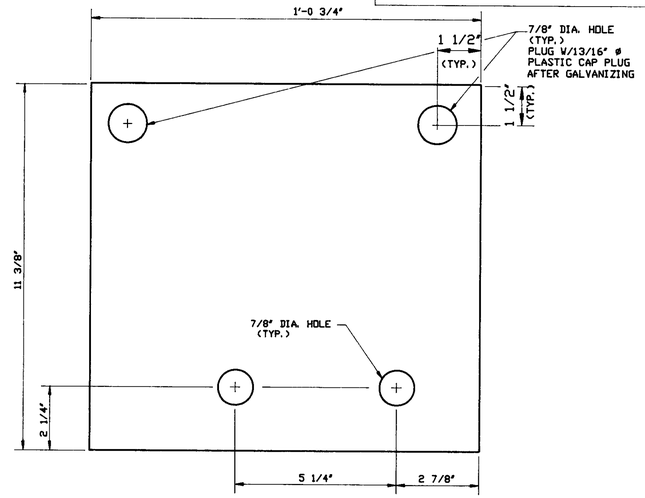
SUPPORT BOX ASSEMBLY



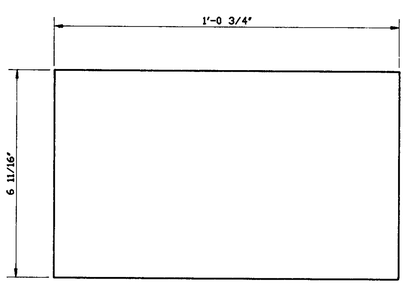
DETAIL - 4P2
PLATE - 3/8"



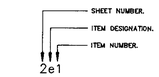
DETAIL - 4P3 (2 REQ'D)
PLATE - 3/8"



DETAIL - 4P1
PLATE - 3/8"



DETAIL - 4P4
PLATE - 3/8"



MARK SYSTEM

STATE: CALIFORNIA
COUNTY: FRESNO
CONTRACT NO.: 06-342604
DISTRICT: 06 ROUTE: 41,99
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POST MILE: 35.0
WBA PRODUCT NO.: STM42325AA

NO.	DESCRIPTION	NAME	DATE
4			
3			
2			
1			

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A DIVISION OF HARRIS SPECIALTY CHEMICALS, INC.

PROJECT:
ROUTE 41/99 SEPARATION
WBA STM-900 MODULAR STRIP SEAL EXP. JOINT

DETAILED BY: MN	DATE: 8/8/96
CHECKED BY: JFW	DATE: 8/28/96
SCALE: N.T.S.	WBA JOB NO.: 43011
SHEET NO.: 4 OF 5	DRAWING NO.: B-16409

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STM43011AA QTY: 3 REQ'D. STRUCTURED BILL OF MATERIALS DWG. NO: B-16409

LV	PART NO.	QTY	UM	DESCRIPTION	MATERIAL	REV.
0	STM43011AA	1.000	EA	STM-900, 40.4 FT (X	SHIPPING LENGTH 40.0' +/-	
					JOINTS ARE GALVANIZED	
1	STM43011S	3.000	EA	SEAL FOR SHOP INSTALL		
2	093	42.000	FT	SE-300 STRIP SEAL		
1	STM43011AB03	18.000	EA	HOLDING PLATE (2P1) (X		
2	3560	2.000	LB	PLATE 1/2"	A-36	
1	STM43011AA01	1.000	EA	EXTRUSION ASSEMBLY (X		
2	STM43011AA02	1.000	EA	PROFILES (W		
3	1953	80.000	FT	SSM FM 2-3/4" X 3-1/4" C-11869	A-36	
3	1890	82.000	FT	MOD CB FM SS C-12183	A-36	
3	1918	2.000	FT	SS A3 FM 1-1/4" X 2" C-11810	A-36	
2	STM43011BX1	18.000	EA	STM-900 SUPPORT BOX B-16409 (X	A-36	
2	STM43011BR1	18.000	EA	STM-900 SUPPORT BAR B-16409 (X	A-36	
2	STM43011AA03	1.000	PK	PARTS FOR ASSEMBLY (U		
3	4260	36.000	EA	MOD BEARING (UPPER) C-306	COMPRESSION SPRING, URETHANE	
3	4270	36.000	EA	MOD CONTROL BEARING (LOWER) C-307	COMPRESSION SPRING, URETHANE	
3	4321	36.000	EA	MOD CONTROL SPRING BUFFER	C-13751	
3	4320	36.000	EA	MOD CONTROL SPRING DOWEL 8"	C-13746	
3	5304	56.000	EA	BOLT 3/4" X 2-1/2" ZP	A-325	
3	8021	56.000	EA	NUT 3/4" ZP	A-325	
3	7602	20.000	EA	WASHER 3/4"	F-436	
3	8084	10.000	EA	NUT 3/4" NL LAG ZP		
3	4640	52.000	EA	CONC ANC STUD ST 5/8" X 8"	A-108	
3	3468	2.000	EA	RUSTOLEUM 2117 GALV. SPRAY PAINT		
2	STM43011AB05	50.000	EA	CONC ANC BENT		
3	4640	1.000	EA	CONC ANC STUD ST 5/8" X 8"	A-108	
2	STM36144AB06	36.000	EA	STIFFNER PLATE (1P1) (X		
3	3540	1.230	LB	3/8" PLATE	A-36	
2	STM43011AB07	20.000	EA	SHIPPING CLAMP (2B1) (W		
3	5931	1.260	FT	FLAT BAR 3/8 X 4	A-36	
2	STM43011AB08	2.000	EA	LIFTING ANGLE (2A1) (W		
3	4130	1.308	FT	ANGLE 7" X 4" X 1/2"	A-36	

MATERIAL SPECIFICATIONS

STEEL EDGE & SUPPORT BEAMS - All beams are made of ASTM A-36 grade steel and have grooves which grip the neoprene locking seal.

NEOPRENE LOCKING SEAL - Seals shall be in accordance with ASTM D-2628. The neoprene locking seal is bonded to the steel beams with Prima-Lub Adhesive. The neoprene seal is designed to absorb all joint movements. The physical properties of the locking seal are as follows:

PHYSICAL PROPERTIES	PROCEDURE	REQUIREMENT
Tensile Strength	(D-412)	2000 PSI
Elongation at Break	(D-412)	250%
Hardness, Type A Durometer	(D-2240) MOD.	55 - 70
Compression Set 70 hour at 212°F (D)	(D-395) Method B Mod.	40%
Oven Aging, 70 hour at 212°F	(D-573)	
Tensile Strength, loss, max.		20%
Elongation, loss, max.		20%
Hardness, Type A Durometer (points change)		0 to +10
Oil Swell, Astm #3, 70 hour at 212°F, weight change max.		45%
Ozone Resistance, 20% strain 300 PPHM, in air at 104°F (Wiped with toluene to remove surface contamination)	(D-1149)	No Cracks

COMPRESSION SPRING C-306 - This compression spring is composed of urethane, epoxy and 3/64" thick teflon sheet. The compression spring sits on top of the support bar. The physical properties of the urethane are:

Shore Durometer	(ASTM D-2240)	90A
Elongation at Break	(ASTM D-412)	425%
Tensile Strength	(ASTM D-412)	6500 PSI
100% Modulus	(ASTM D-412)	1200 PSI
300% Modulus	(ASTM D-412)	2400 PSI
Tear Strength	(ASTM D-470)	110 PLI
Rebound Resilience	(ASTM D-2632)	40%

CONTROL SPRING - The control spring which is located between the support bars act to equalize the expansion of each seal. The control spring is made of URETHANE.

STAINLESS STEEL - Stainless steel is used on the sliding surfaces of the support bar that contact the teflon surface of the bearing and compression spring. The stainless shall be ASTM A167, Type 304 No. 2B finish.

PRIMA-LUB ADHESIVE - Prima-lub Adhesive is used to bond the neoprene locking seal to the steel extrusions. This adhesive shall be a one-part moisture curing polyurethane and hydrocarbon solvent mixture with the following physical properties:

Average Weight per Gallon	8.5 lbs +/- 10%
Solids Content	72% (min.)
Adhesive to remain workable	From 5-120°F
Film Strength	2000 PSI (min.)
Elongation at room temperature	350% (min.)
Flash Point (seta closed cup)	over 100°F

BEARING C-307 - The bearing is composed of urethane, epoxy and 3/64" thick teflon sheet on which the support bar slides on. The physical properties of the urethane are:

Shore Durometer	(ASTM D-2240)	90A
Elongation at Break	(ASTM D-412)	425%
Tensile Strength	(ASTM D-412)	6500 PSI
100% Modulus	(ASTM D-412)	1200 PSI
300% Modulus	(ASTM D-412)	2400 PSI
Tear Strength	(ASTM D-470)	110 PLI
Rebound Resilience	(ASTM D-2632)	40%

INSTALLATION PROCEDURE

STEP 1. VERIFY THE DIMENSIONS OF THE BLOCKOUT A-A ON SHEET 1. CORRECT AS NECESSARY.

STEP 2. LIFT AND PLACE EXPANSION JOINT INTO BLOCKOUT. WHILE JOINT IS SUSPENDED, INSTALL LEVELING DEVICES AND ADJUST TO PROPER GRADE AND ELEVATION.

STEP 3. CHECK JOINT FOR ALIGNMENT WITH CURBS. REMOVE LIFTING ANGLES AND GRIND WELDS SMOOTH. LOOSEN BOLTS AT SHIPPING CLAMPS IF REQUIRED TO ADJUST THE EXP. JOINT.

STEP 4. PRESET THE EXPANSION JOINT OPENING AS DIRECTED BY THE FIELD ENGINEER. TIGHTEN BOLTS AT SHIPPING CLAMPS.

STEP 5. PRIOR TO PLACEMENT OF CONCRETE, ALL PRESTRESS DEVICES SHALL BE REMOVED. DEVICES ON TOP OF THE JOINT MAY REMAIN IF THEIR LOCATION WILL NOT INTERFERE WITH CONCRETE PLACEMENT OR EXPANSION JOINT PERFORMANCE.

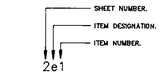
STEP 6. TEMPERATURE AND JOINT OPENING SHOULD BE CHECKED FOR ANY DISCREPANCIES FROM INITIAL ADJUSTMENT.

STEP 7. CONTRACTOR SHALL AT THIS TIME HAVE REQUIRED FORMWORK IN PLACE.

STEP 8. ALL CONCRETE PLACEMENT SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.

STEP 9. UPON COMPLETING CONCRETE PLACEMENT OPERATIONS, LOOSEN NUTS AT SHIPPING CLAMPS. THE ENGINEER SHALL DETERMINE WHEN REMOVAL OF THE LEVELING DEVICES WILL BE PERMITTED.

STEP 10. CONTRACTOR SHALL REMOVE ALL TEMPORARY DEVICES FROM TOP OF JOINT AND TOUCH UP ALL AREAS OF DAMAGED GALVANIZING.



MARK SYSTEM

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COUNTY: FRESNO
CONTRACT NO.: 06-342604
DISTRICT: 06 ROUTE: 41,99
BRIDGE NO.: 42-266L, 42-266R
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JENNE

PROJECT: ROUTE 41/99 SEPARATION
WBA STM-900 MODULAR STRIP SEAL EXP. JOINT

DETAILED BY: MN	DATE: 8/8/96
CHECKED BY: JFW	DATE: 8/28/96
SCALE: N.T.S.	WBA JOB NO.: 43011
SHEET NO.: 5 OF 5	DRAWING NO.: B-16409

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California Department of Transportation
Division of Maintenance

Structure Maintenance and Investigations

BRIDGE

INSPECTION

RECORDS

INFORMATION

SYSTEM

The requested documents have been generated by BIRIS.

These documents are the property of the California Department of Transportation and should be handled in accordance with Deputy Directive 55 and the State Administrative Manual.

Records for “Confidential” bridges may only be released outside the Department of Transportation upon execution of a confidentiality agreement.

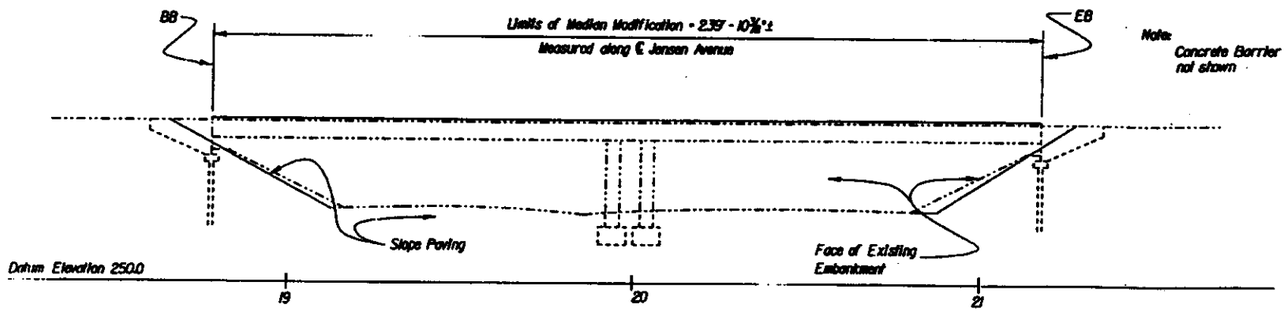
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41,99	R20.7/R22.1, 22.2/22.8	334	368

REGISTERED ENGINEER - CIVIL

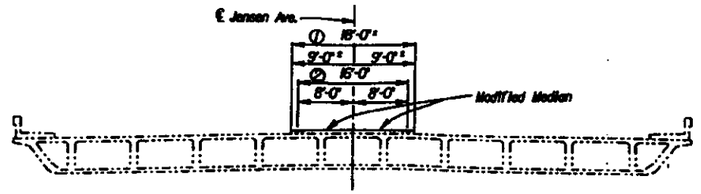
STANLEY KU No. 47988 Exp. 12-31-96 CIVIL STATE OF CALIFORNIA

1-22-96
PLANS APPROVAL DATE

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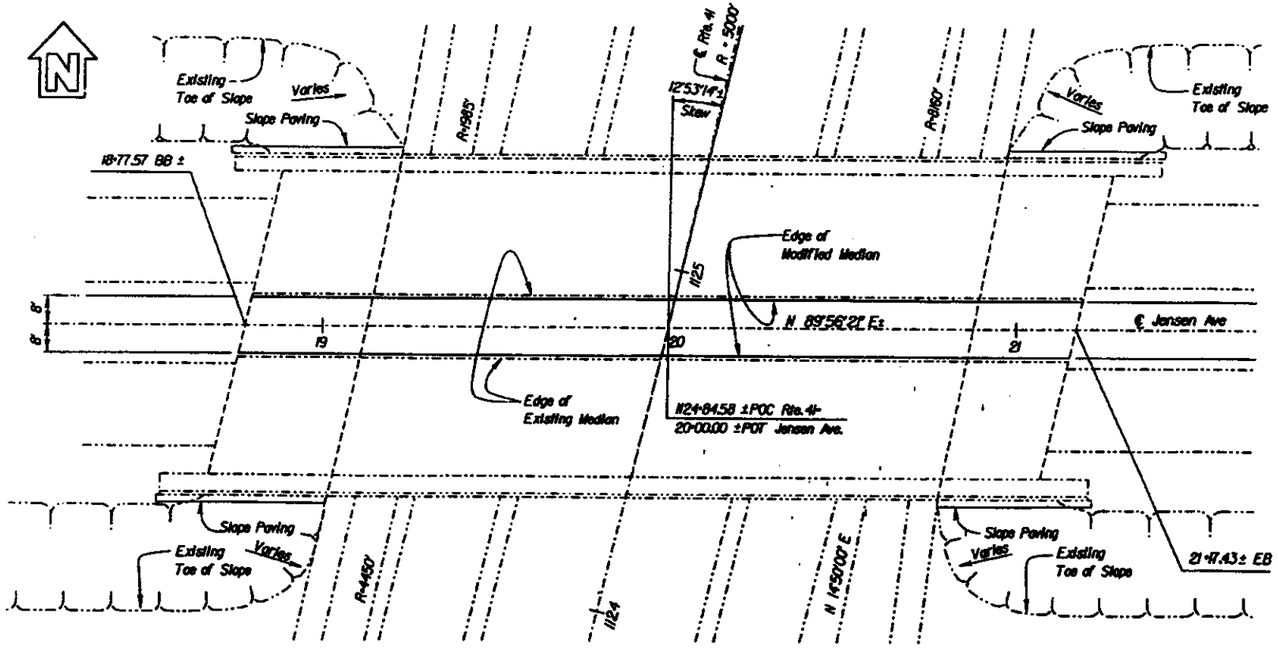
ELEVATION
1" = 20'-0"



TYPICAL SECTION
1" = 10'-0"

Note:
① Limits of existing median
② Limits of modified median

STANDARD PLAN SHEET NO.
DETAIL NO.



PLAN
1" = 20'-0"

AS BUILT PLANS

Contract No. 06-342604
Contractor BENCO
Resident Engineer LES HICKINBOTHAM
Date of Completion 6/10/97
BY DAVID L. VALLEJOS STRUC. REP.
NO CHANGES ON THIS SHEET.

INDEX TO PLANS

SHEET	TITLE
1.	GENERAL PLAN
2.	MEDIAN MODIFICATION
3.	SLOPE PAVING - FULL SLOPE

QUANTITIES

BRIDGE REMOVAL (PORTION)	LUMP	SUM
ASPHALT CONCRETE (TYPE B)	4	TON
STRUCTURAL CONCRETE, BRIDGE	6	CY
DRILL AND BOND DOWEL	110	LF
REFINISH BRIDGE DECK	1,000	SQFT
BAR REINFORCING STEEL (BRIDGE)	500	LB
SLOPE PAVING (CONCRETE)	90	CY

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	BY Stanley Ku	CHECKED Don Lee	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 8
DETAILS	BY Stanley Ku	CHECKED Don Lee	LAYOUT	BY Stanley Ku	CHECKED Don Lee		
QUANTITIES	BY Stanley Ku	CHECKED Robert Nguyen	SPECIFICATIONS	BY N. Mehdi 10-95	CHECKED/APPROVED D.L. Vallejos 10-95		

Brian Maroney
DESIGN ENGINEER

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3

CU 0607
EA 342601

BRIDGE NO.	JENSEN AVENUE OVERCROSSING
42-268	
POST MILE R21.5	GENERAL PLAN

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 1 OF 3

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RELEASED 11-2-92

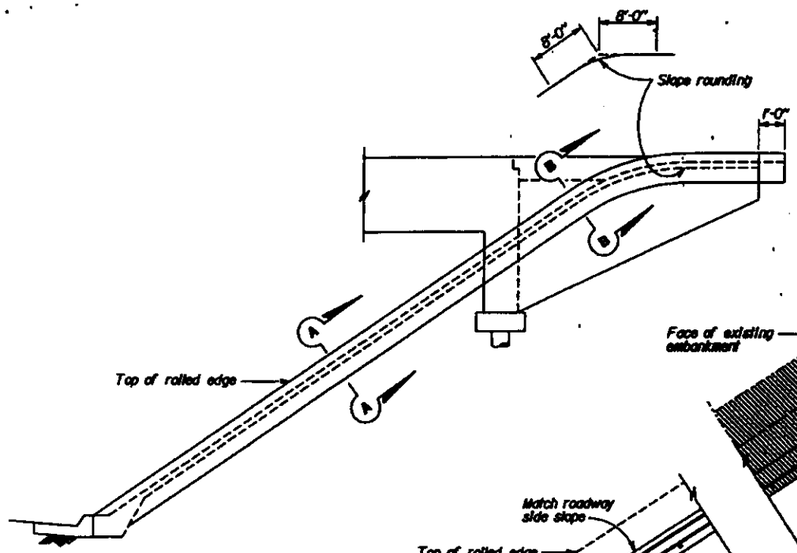
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41,99	R20.7/R22.1, 19.2/19.8	356	368

REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER STANLEY KU No. 42498 Date 12-31-96 CIVIL STATE OF CALIFORNIA

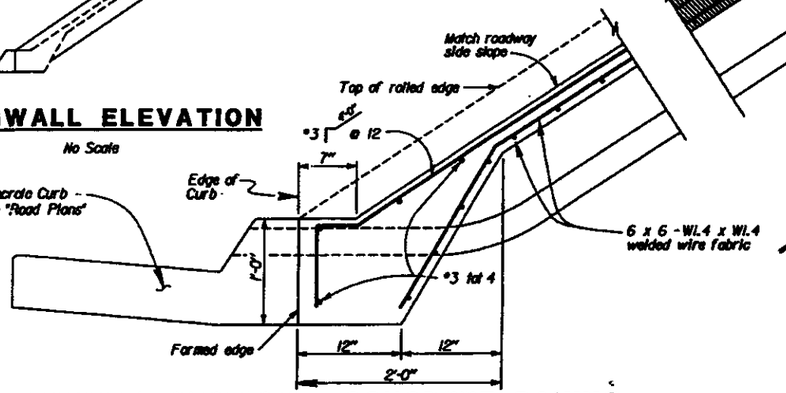
1-22-96
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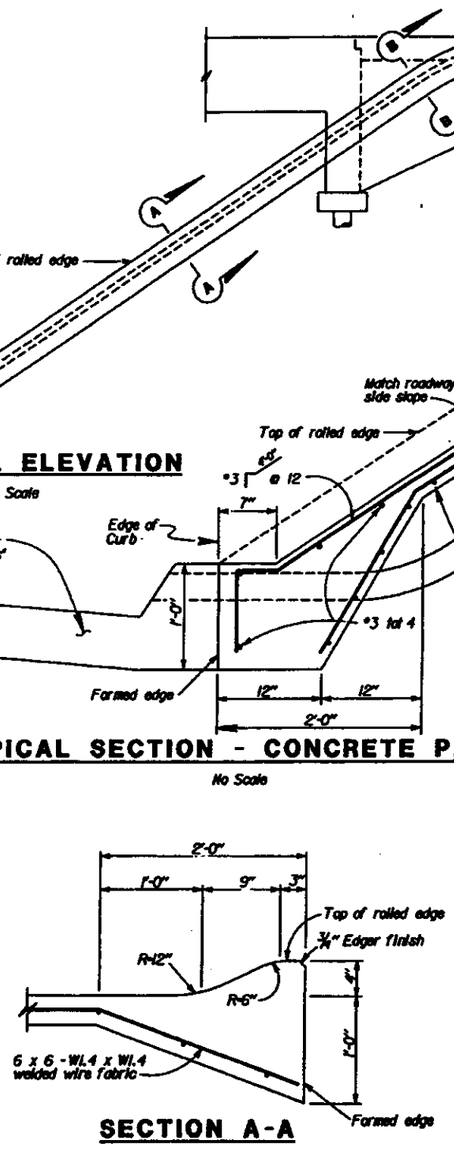
WINGWALL ELEVATION

No Scale



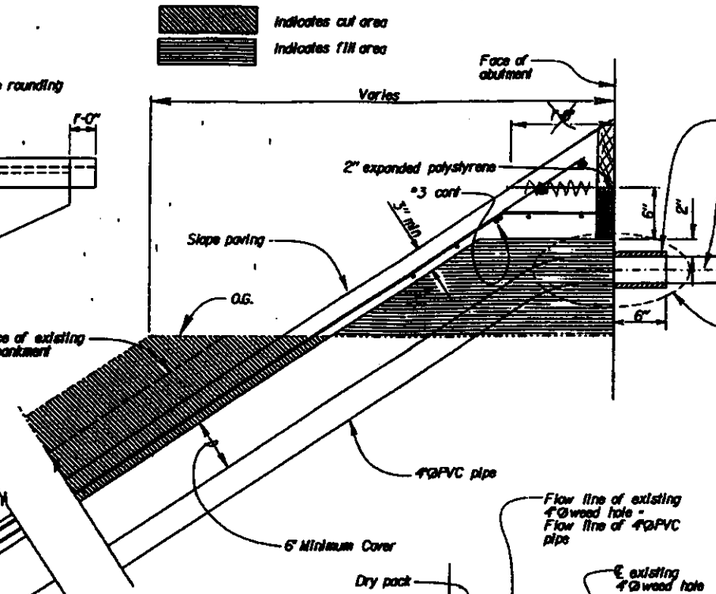
TYPICAL SECTION - CONCRETE PAVING

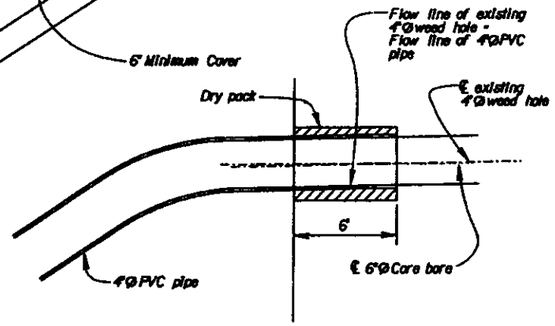
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SECTION A-A

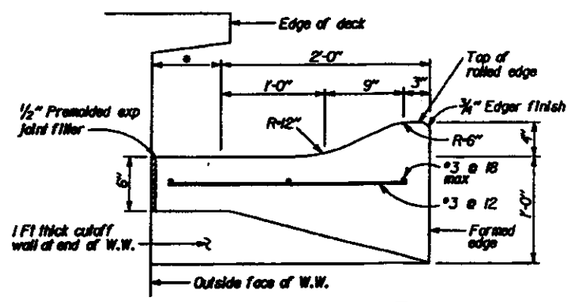
No Scale





DRAINAGE CONNECTION DETAIL

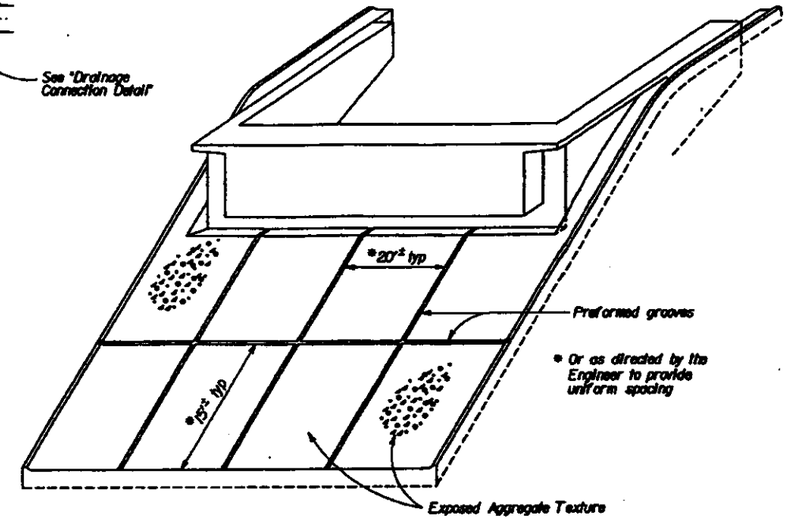
No Scale



SECTION B-B

No Scale

* This dimension becomes zero when edge of deck is at outside face of W.W.

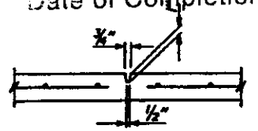


* Or as directed by the Engineer to provide uniform spacing

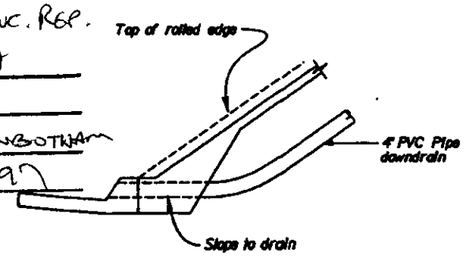
PICTORIAL VIEW OF TYPICAL INSTALLATION

No Scale

AS BUILT PLANS
BY DAVID L. VALLEJOS STRUC. REP.
Contract No. 06-342604
Contractor BERGCO
Resident Engineer LES HICKINBOTHAM
Date of Completion 6/10/97



PREFORMED GROOVE



TYPICAL - WITH CURB

DRAINAGE DETAILS

No Scale

DESIGN	BY Stanley Ku	CHECKED Dan Lee	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 8	BRIDGE NO. 42-258
DETAILS	BY Stanley Ku	CHECKED Stanley Ku			POST MILE R23.3
QUANTITIES	BY Stanley Ku	CHECKED Robert Nguyen		CU 06107 EA 342501	JENSEN AVENUE OVERCROSSING
					SLOPE PAVING - FULL SLOPE

DS 000 209 (REV 3-93) — ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

SHEET 3 OF 3

ClibPDF - www.fastio.com

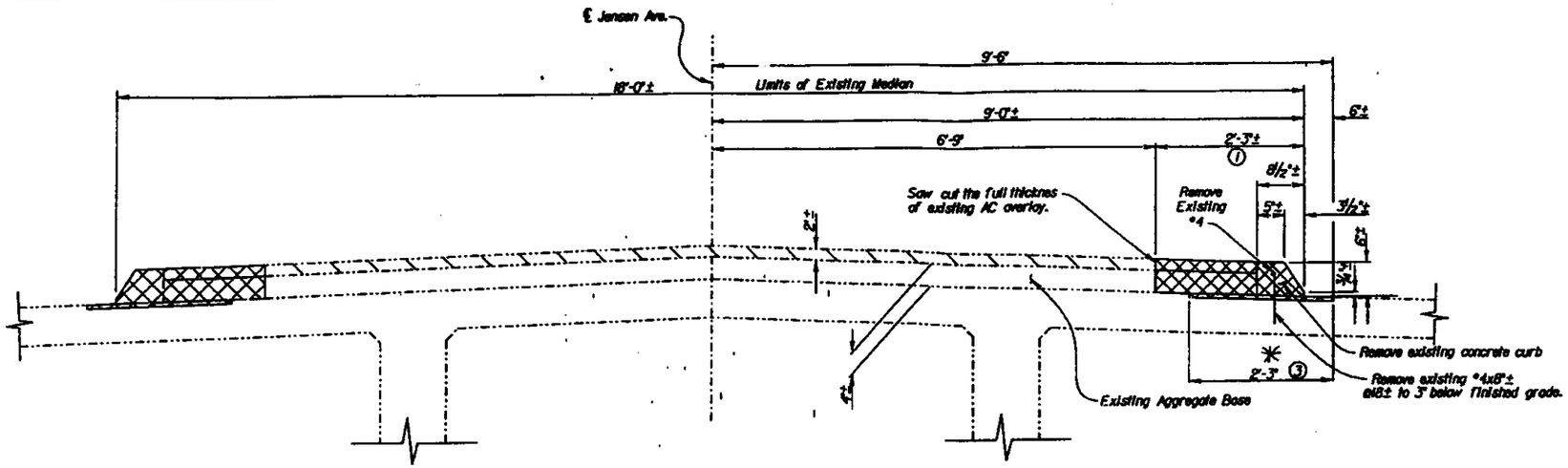
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41,99	R20.7/R22.1, 19.2/19.8	336	368

REGISTERED ENGINEER - CIVIL

STANLEY IN
No. 42488
Exp. 9/2005
CIVIL

1-22-96
PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



EXISTING MEDIAN DETAIL

1" = 1'-0"

* REFINISH BRIDGE DECK NOT REQUIRED.

NOTES:

1. Details are symmetrical about ℄ Jensen Avenue.
2. Existing Superstruture reinforcement not shown.

① Remove existing AC overlay, aggregate base, concrete curb, and reinforcement.

② Place AC and aggregate base to match existing AC and aggregate base thickness.

* ③ Limits of refinished bridge deck

Indicates new AC overlay

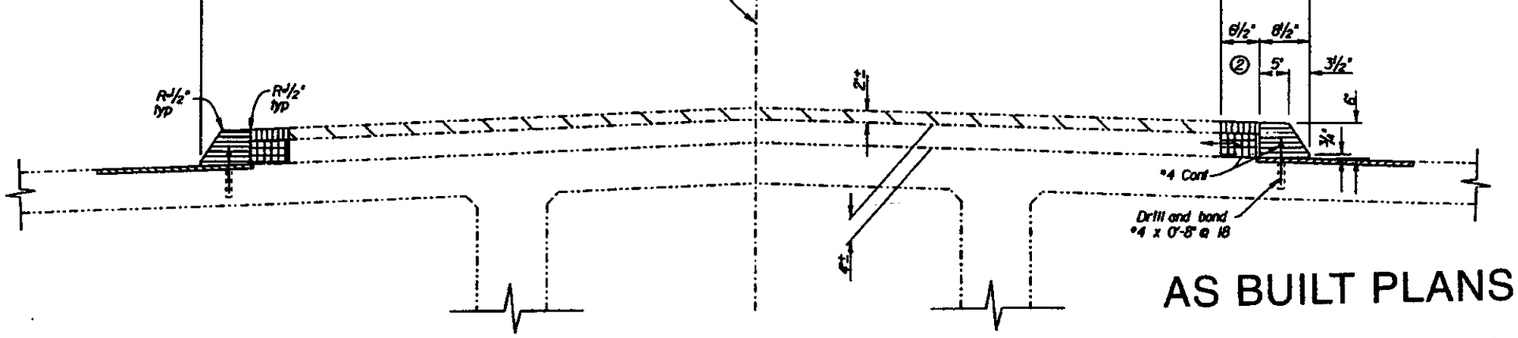
* Indicates refinished bridge deck

Indicates existing AC overlay

Indicates existing AC aggregate base, concrete curb and bridge deck to be removed

Indicates Structural Concrete, Bridge

Indicates new aggregate base



MODIFIED MEDIAN DETAIL

1" = 1'-0"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

AS BUILT PLANS

Contract No. 06-342604
Contractor BENCO
Resident Engineer LES HICKINBOTHAM
Date of Completion 6/10/97
BY DAVID L. VALLEJOS STRUC. REP

DESIGN	BY Stanley Ku	CHECKED Don Lee	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 8	BRIDGE NO. 42-268
DETAILS	BY Norm Kelley	CHECKED Stanley Ku			POST MILE R23
QUANTITIES	BY Stanley Ku	CHECKED Robert Nguyen		CU 0607 EA 342601	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3

JENSEN AVENUE OVERCROSSING
MEDIAN MODIFICATION

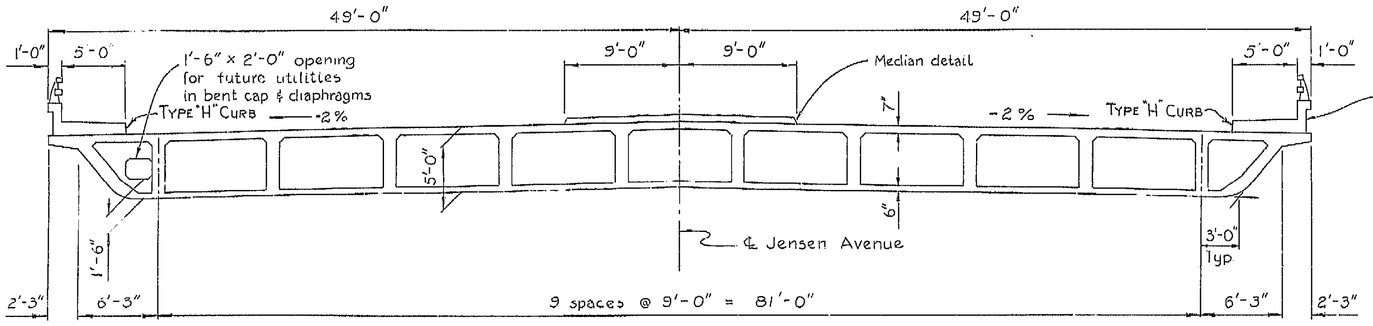
PLAN SHEET NO. 2 OF 3

ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41	R20.8/R21.2	23	

DESIGN SECTION SUPERVISOR — REGISTERED CIVIL ENGINEER NO. 7989

DATE APPROVED



PRESTRESSING NOTES

*Pjack = 21100 kips tot. at jacking ends, $A_s = \frac{P_{jack}}{.75\ f's}$

CONCRETE = f'c = 3500 psi @ 28 days, f'ci = 3500 psi at time of stressing.

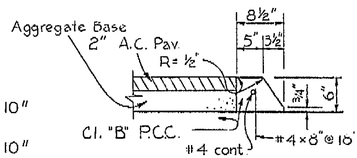
GENERAL: *(1) Design is based on u = 0.25 & k = 0.0002. Pjack specified at the jacking ends includes friction losses & provision for 25,000 psi loss in stress.

(2) Tendons to be jacked to .75 f's & anchored at an equivalent anchor set = 5/8".

(3) Contractor to submit elongation & jacking calculations based on $\mu\theta + kL = 0.081$ & initial stress at ⊠ = 0.92 times jacking stress.

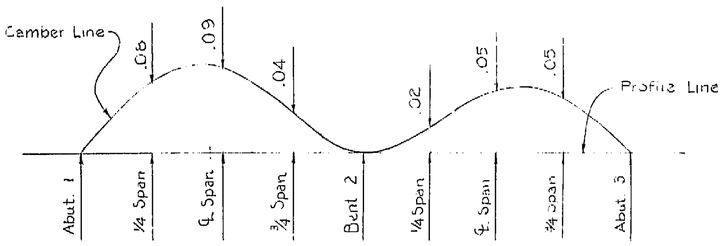
TYPICAL SECTION

Scale: 3/16" = 1'-0"



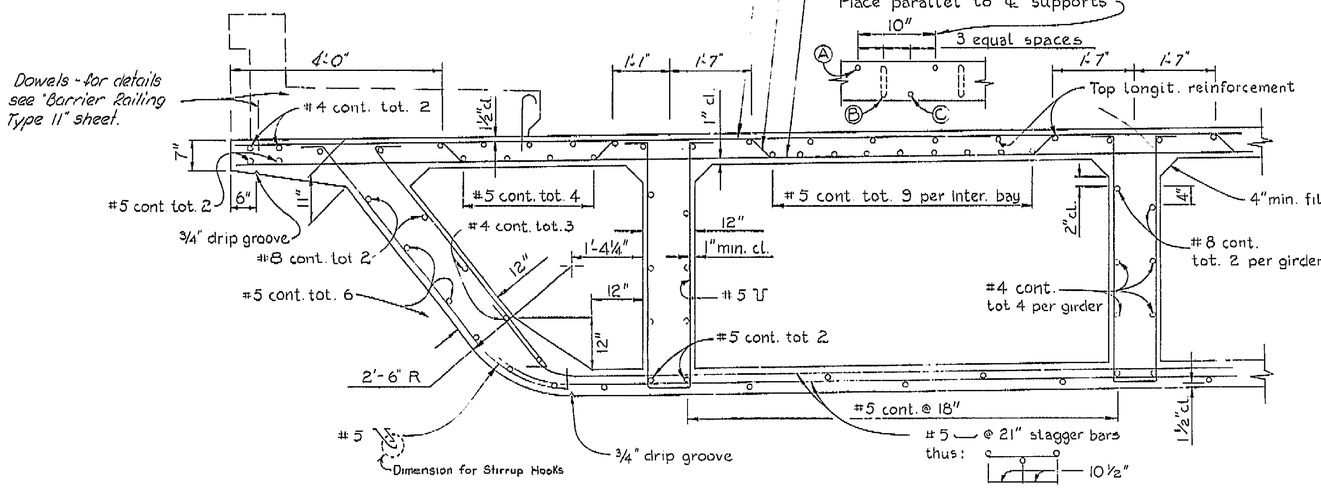
MEDIAN DETAIL

no scale



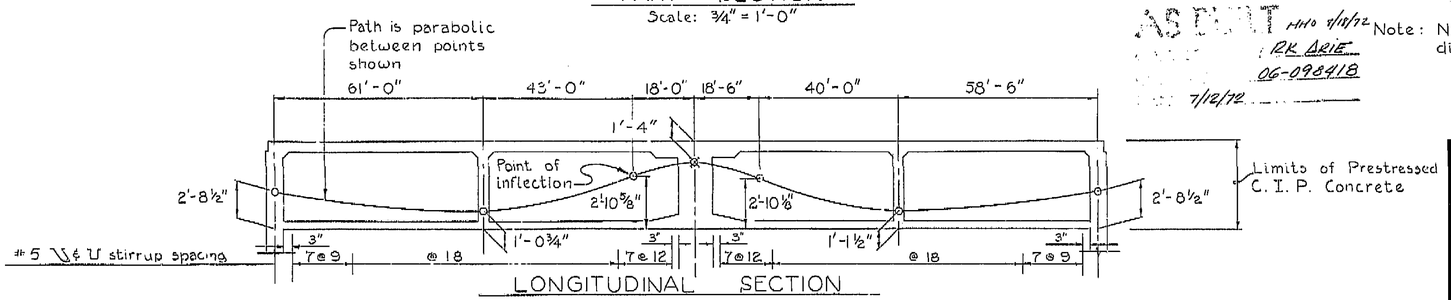
CAMBER DIAGRAM

(Does not include provisions for falsework settlement)



PART SECTION

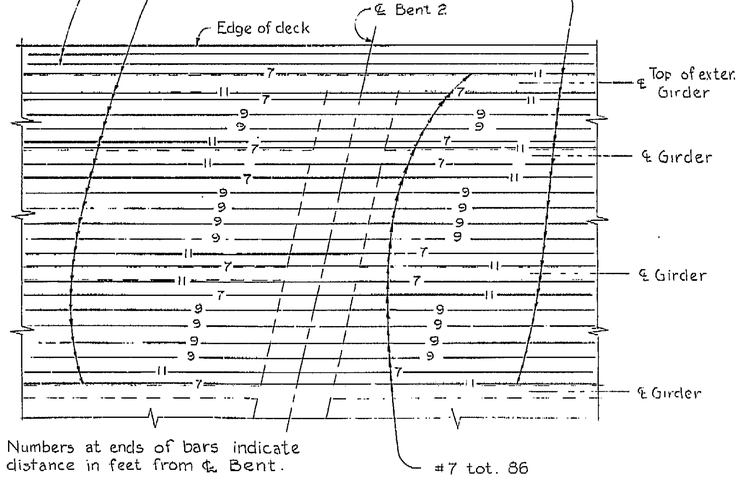
Scale: 3/4" = 1'-0"



LONGITUDINAL SECTION

no scale

AS BUILT mno 4/11/72
RK ARIE
06-098418
7/12/72



Note: Numbers at ends of bars indicate distance in feet from ℄ Bent.

TOP LONGITUDINAL REINFORCEMENT

no scale

BRIDGE DEPARTMENT
DESIGN SECTION 1

Project Engineer: L. Wayne L. Tappendorf

DESIGN	By	J. A. APOSTOLOS
	Checked	Wayne L. Tappendorf
DETAILS	By	J. A. APOSTOLOS
	Checked	Wayne L. Tappendorf
QUANTITIES	By	C. R. Jordan
	Checked	R. C. Lopez

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

JENSEN AVE. O.C.

TYPICAL SECTION & GIRDER REINF.

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-268	21.3	42268-S	5	7

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL RECOMMENDED BY	DATE
	4/70		4/70	C.	4/70

WO 094811
CU 06202

Disregard prints bearing earlier revision dates →

REVISION DATES (PRELIMINARY STAGE ONLY)
7/6/71 8/24/71

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FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	P.M.	SHEET NO.	TOTAL SHEETS
06	FRE	41	R30.8 R31.3	25	

DESIGNED BY ... REGISTERED CIVIL ENGINEER NO 7900

DATE APPROVED

LEGEND OF BORING OPERATIONS

- Penetrometer
- 2½" Cone Penetrometer
- Sampler Boring (Dry)
- Rotary Boring (Wet)
- Auger Boring (Dry)
- Jet Boring
- Core Boring
- Test Pit

Penetration Boring

Rotary Boring

1" Soil Tube

LEGEND OF EARTH MATERIALS

Gravel · Sand · Silt · Clay · Sandy Clay or Clayey Sand · Silty Clay or Clayey Silt · Peat and/or Organic Matter · Fill Material · Igneous Rock · Sedimentary Rock · Metamorphic Rock

CLASSIFICATION OF MATERIAL BASED ON STANDARD GRAIN SIZE LIMITS

Diagram showing the bars for estimates of percentages of constituents in accordance with situation of class names. If gravel is present in appreciable quantities, the terms "gravelly" may be added to the class name, viz. "gravelly sand". The terms "cobbles" and/or "boulders" may be added to the class name, when applicable, such as "cobbles and silt and gravel, refer to standard grain size limits.

Clay Percentages · Silt Percentages · Sand Percentages · Gravel Percentages

NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

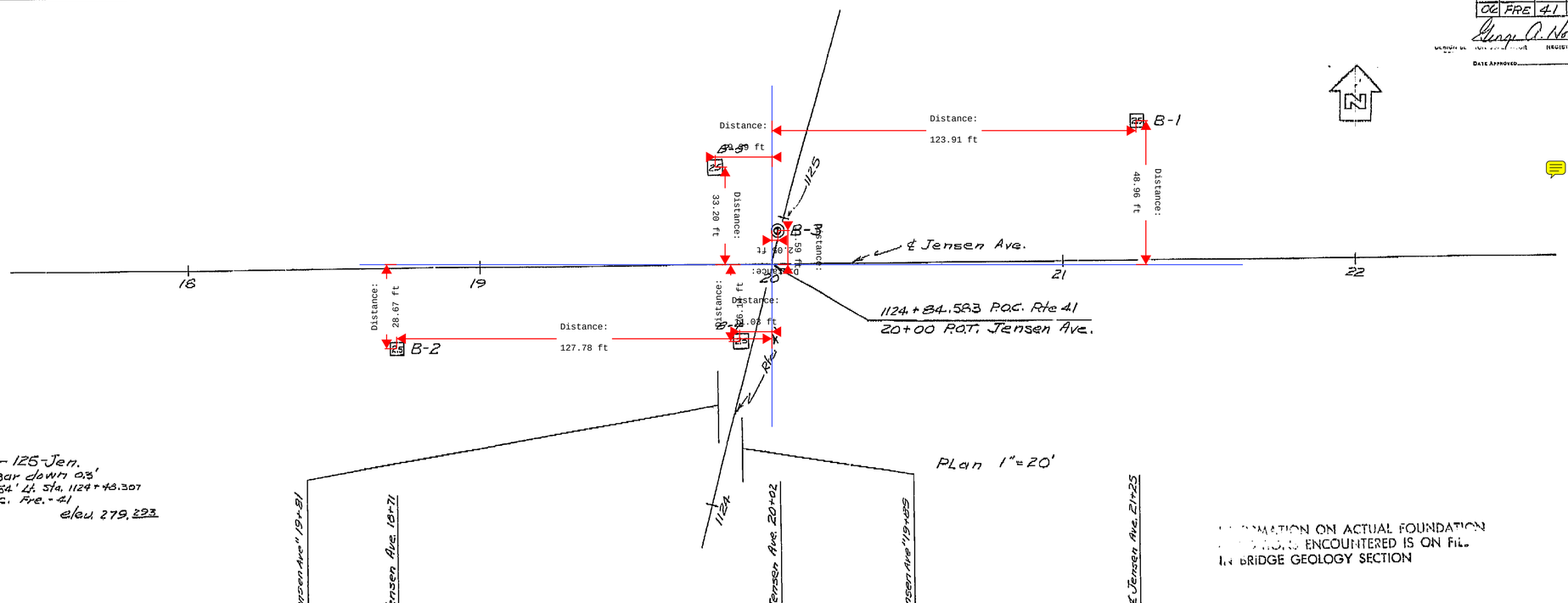
BRIDGE DEPARTMENT
ENGINEERING GEOLOGY SECTION

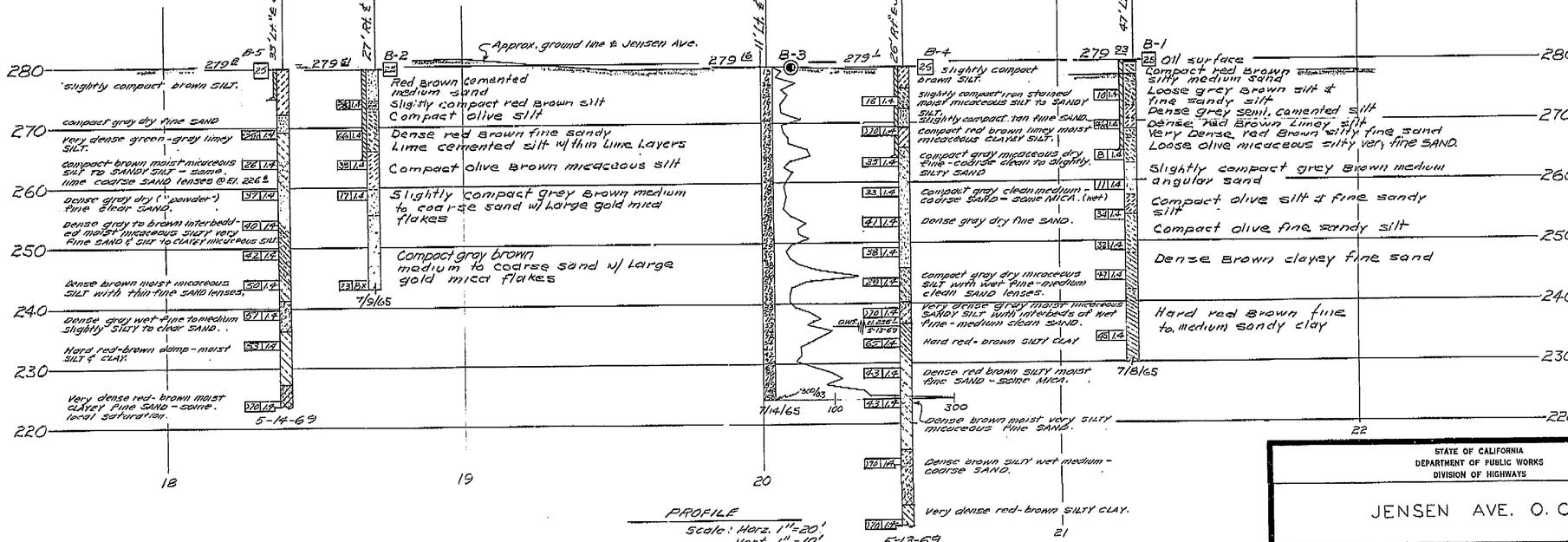
CHECKED by D. Cochran 8-5-65

Approval Recommended by ... Engineering Geologist

S. Kennamer

B.M. – 125-Jen.
T-Bar down 0.3'
53.54' Lt. Sta. 1124+43.307
P.O.C. Rte. - 41
elev. 279.293





INFORMATION ON ACTUAL FOUNDATION CONDITIONS ENCOUNTERED IS ON FILE IN BRIDGE GEOLOGY SECTION

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

JENSEN AVE. O. C.

LOG OF TEST BORINGS

SCALE	BRIDGE	FILE	DRAWING
As shown	42-268		42268-6

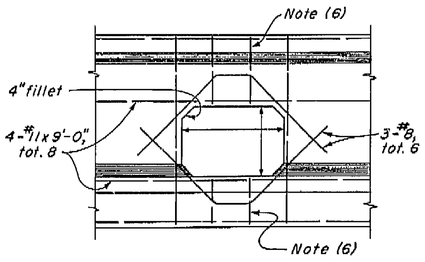
PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL RECOMMENDED BY	DATE
	4/70		4/70		4/70

06202 098411 Disregard prints bearing earlier numbers → PREL. DRAWING No. PK-42268-2 5/1/69

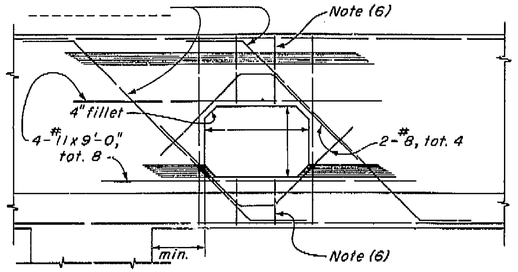
ClibPDF - www.fastio.com

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41	R20.8 / R21.2	24	

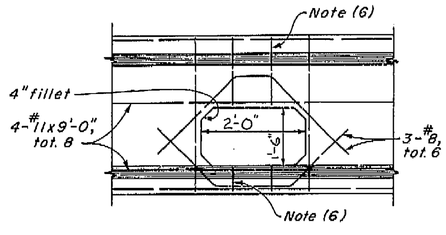
STANDARD DRAWING
Approved for Use
DESIGN — By E.E.Bailey 3-66 Checked R.Reynolds 5/66
DETAILS — By Dwg. Mgr. 3/66 Checked 7/66
Advance Authorized by — Bridge Engineer — Bridge Engineer



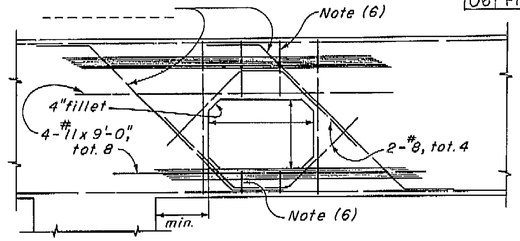
TYPICAL
DETAIL U1



NEAR COLUMN
DETAIL U2

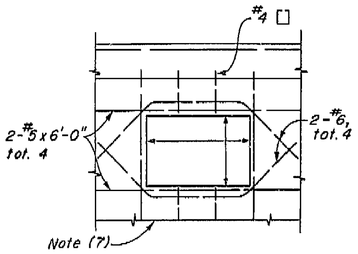


TYPICAL
DETAIL U3

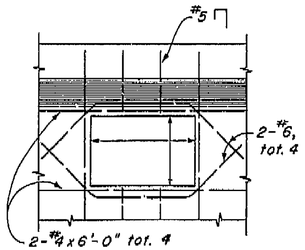


NEAR COLUMN
DETAIL U4

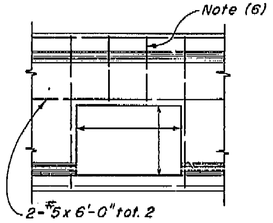
BENT CAP



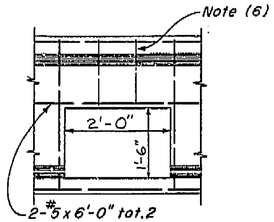
RIGID FRAME
DETAIL U5



CANTILEVER TYPE
DETAIL U6

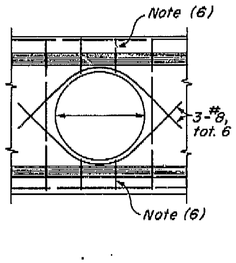


END
DETAIL U7

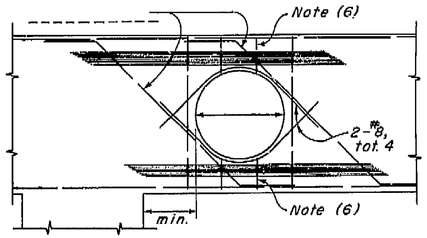


INTERMEDIATE
DETAIL U8

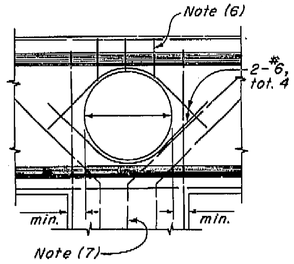
ABUTMENT BACKWALL DIAPHRAGMS



TYPICAL
DETAIL U12

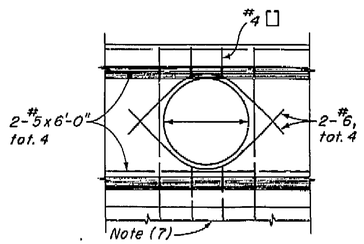


NEAR COLUMN
DETAIL U13

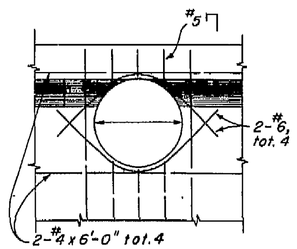


AT COLUMN
DETAIL U14

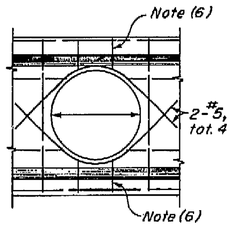
BENT CAP



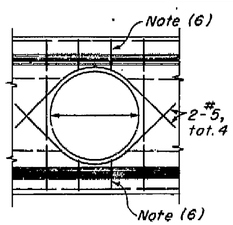
RIGID FRAME
DETAIL U15



CANTILEVER TYPE
DETAIL U16



END
DETAIL U17



INTERMEDIATE
DETAIL U18

ABUTMENT BACKWALL DIAPHRAGMS

NOTES

(1) For exact location and direction of openings see other sheets.
(2) Location and size of utility openings may be modified as directed by the Engineer, provided minimum dimensions are maintained.
(3) Girders not shown, see other sheets.
(4) Seal around utilities at abutments to be of sufficient strength to withstand earth pressure.
(5) All reinforcement detailed to be placed in addition to reinforcement shown on other sheets.
(6) Stirrups are same size as adjacent stirrups shown on other sheets.
(7) Main reinforcement to clear opening as detailed on other sheets.

NO AS BUILT CHANGES
AS BUILT H.H.O. 5/18/72
CORRECTIONS BY R.K. DATE
CONTRACT NO. 06-098418
DATE 7/12/72

12/66 — STATE OF CALIFORNIA HIGHWAY TRANSPORTATION AGENCY DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS — XS 16-49

JENSEN AVE O.C.

UTILITIES DETAIL NO. 1

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-268	21.3	42268-	6	7

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL RECOMMENDED BY	DATE
	4/70		4/70		4/70

W.O.

Disregard prints bearing earlier revision dates

REVISION DATES (PRELIMINARY STAGE ONLY)
2 10/68

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS
BRIDGE DEPARTMENT

Rev.: Bar totals 2/9/01 LJS.
Revised Title Block; Deleted "Details U9, U10 and U11" 11 MAR 65 EJS.
Revised Title 19 MAY 66 - EJS

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DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41	R 20.8 / R 21.2	19	

BRIDGE ENGINEER _____ REGISTERED CIVIL ENGINEER NUMBER 8363

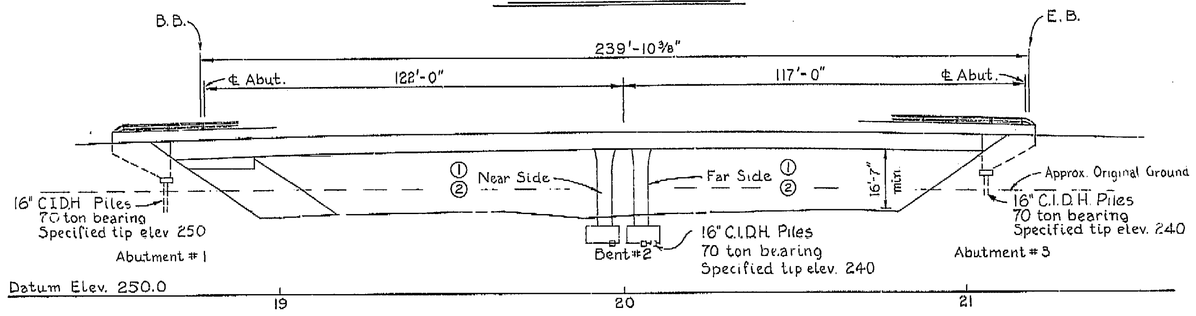
ASSISTANT STATE HIGHWAY ENGINEER _____ REGISTERED CIVIL ENGINEER NUMBER 8363

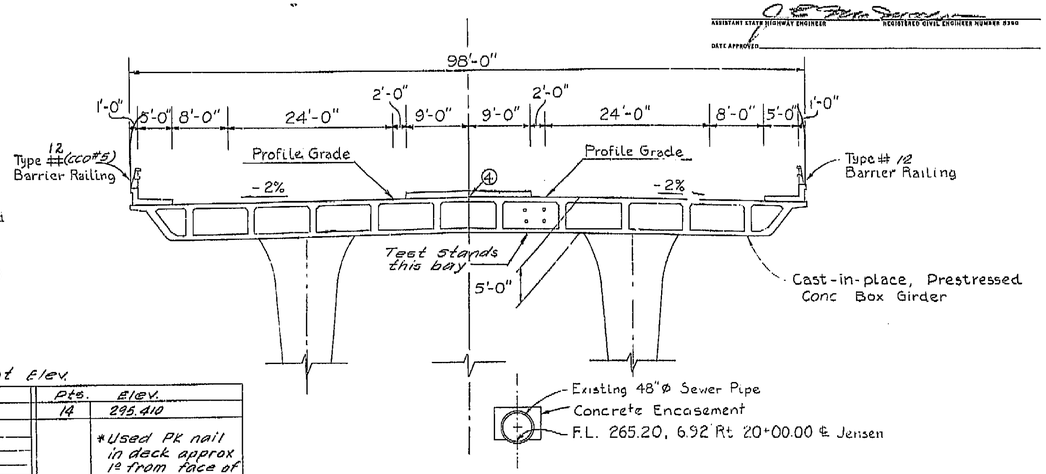
DATE APPROVED _____

+4.05 % | Sta. 16+40.00 B.V.C. Elev. 289.21 | 720' V.C. | Sta. 23+60.00 E.V.C. Elev. 289.21 | -4.05 %

Rate of Change: -1.12500%/Sta.

PROFILE GRADE





TYPICAL SECTION

Scale: 1"=10'-0"

Permanent Elev.

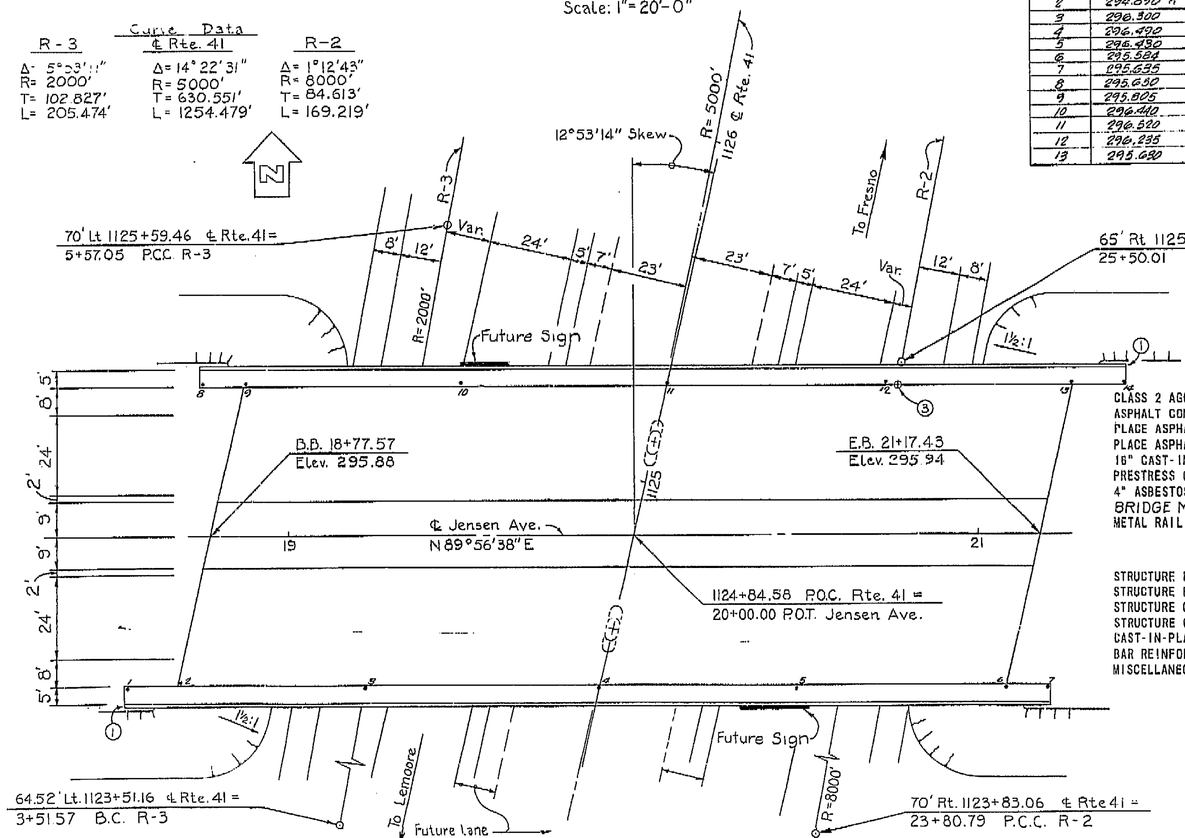
Pts.	Elev.	Pts.	Elev.
1	295.310	14	295.410
2	294.890 *		
3	296.300		
4	296.490		
5	296.480		
6	295.584		
7	295.635		
8	295.650		
9	295.805		
10	296.440		
11	296.520		
12	296.235		
13	295.680		

*Used PK nail in deck approx 1' from face of South sidewalk at Abut. #1 As B.M All other points are PK nails in sidewalk. Elevation taken 7-20-72

ELEVATION

Scale: 1"=20'-0"

R-3	Curve Data ℄ Rte. 41	R-2
Δ= 5°53'11"	Δ= 14°22'31"	Δ= 1°12'43"
R= 2000'	R= 5000'	R= 8000'
T= 102.827'	T= 630.551'	T= 84.613'
L= 205.474'	L= 1254.479'	L= 169.219'



PLAN

Scale: 1"=20'-0"

① Paint "Br. No. 42-268" & year constructed
② Paint "Jensen Ave."
③ Minimum vertical clearance
④ Pt of given elev. at B.B. & E.B.

FOR GENERAL NOTES SEE Foundation Plan

LIVE LOADING HS20-44 AND ALTERNATIVE

APPROXIMATE QUANTITIES

CLASS 2 AGGREGATE BASE	50 CY
ASPHALT CONCRETE	60 TON
PLACE ASPHALT CONCRETE (GUTTER)- MISC. AREA	77 SQ YD
PLACE ASPHALT CONCRETE (MEDIAN AREA)-MISC. AREA	442 SQ YD
16" CAST-IN-DRILLED-HOLE CONCRETE PILING	2,090 LF
PRESTRESS CAST-IN-PLACE CONCRETE	LUMP SUM
4" ASBESTOS-CEMENT DRAIN PIPE	62 LF
BRIDGE MEDIAN CURB	482 LF
METAL RAILING ~~(TYPE 11)~~ CCO #5 (TYPE 12)	538 LF

FINAL QUANTITIES

STRUCTURE EXCAVATION (BRIDGE)	430 CY
STRUCTURE BACKFILL (BRIDGE)	265 CY
STRUCTURE CONCRETE, BRIDGE FOOTING	125 CY
STRUCTURE CONCRETE, BRIDGE	245 CY
CAST-IN-PLACE PRESTRESSED CONCRETE (GRADE 35-50)	1,525 CY
BAR REINFORCING STEEL (BRIDGE)	307,000 LB
MISCELLANEOUS IRON AND STEEL	50 LB

INDEX TO PLANS

SHEET	TITLE
1	General Plan
2	Grid Grades
3	Foundation Plan
4	Abutment & Bent Details
5	Typical Section & Girder Reinforcement
6	Utilities Detail No. 1
7	Log of Test Borings

Standard Plans dated July 1969

B0-1,3	Bridge Details
B2-3	Cast-In-Drilled-Hole Concrete Pile
B7-1	Box Girder Details
B8-5	Cast-In-Place Prestressed Girder Details
B11-41	Barrier Railing Type 11
B11-43	Metal Railing Details - Types 9, 10, & 11

RK. ARIE HHO 6/18/72
06-098418
7/12/72

BRIDGE DEPARTMENT
DESIGN SECTION 1
Section Supervisor: George D. Hood
Project Designer: Wayne L. Hoppenstedt

DESIGN	By J. A. APOSTOLOS	Checked	Wayne L. Hoppenstedt
DETAILS	By J. A. APOSTOLOS 7-69	Checked	Wayne L. Hoppenstedt
LAYOUT	By J. A. APOSTOLOS	Checked	Wayne L. Hoppenstedt
QUANTITIES	By E. R. Jorstad	Checked	R. D. Cooper 11/69
SPECIFICATIONS	By P S D 1-70	Plans and Specs. Compared	P S D 3-70

Approval Recommended by: R. C. Casselli, Bridge Engineer — Registered Civil Engr. License No. 9015

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

JENSEN AVENUE OVERCROSSING

LOCATED ABOUT 500' S. OF THE S. CITY LIMIT OF FRESNO IN FRESNO COUNTY

GENERAL PLAN

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-268	21.3	42268-1	1	7

(PRELIMINARY STAGE ONLY)

REVISION DATES

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL RECOMMENDED BY	DATE
	4/10		4/10		4/10

WO 098411
CU 06202

Disregard prints bearing earlier revision dates →

ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41	R20.8 / R21.2	20	

DESIGN SECTION SUPERVISOR — REGISTERED CIVIL ENGINEER NO. 7569

DATE APPROVED

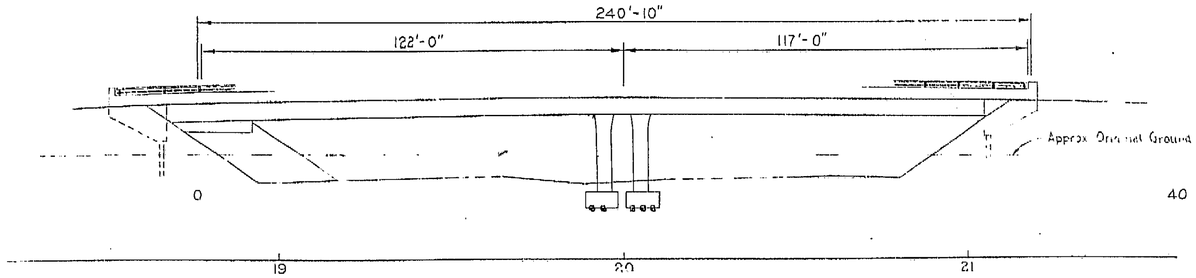
℄ Abutment 1 — N12°49'52"E — ℄ Bent 2 — N12°49'52"E — ℄ Abutment 3 — N12°49'52"E

N

Lt Edge of Deck

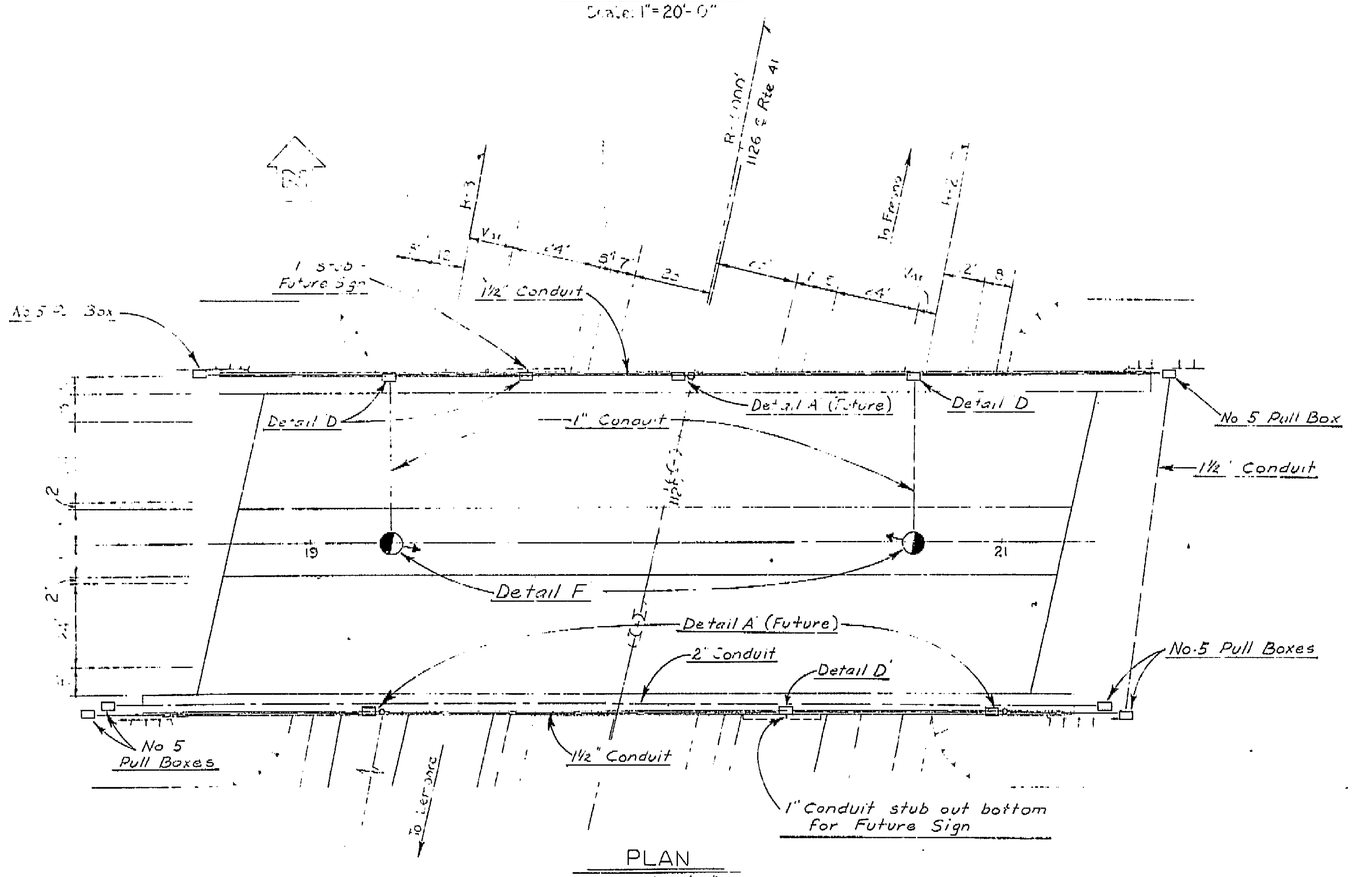
| | | |

PROFILE GRADE



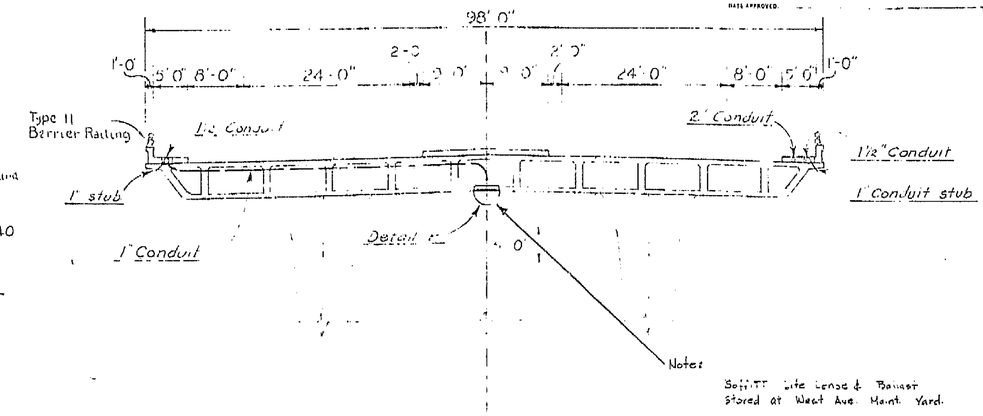
ELEVATION

Scale 1"=20'-0"



PLAN

Scale: 1"=20'-0"



TYPICAL SECTION

Scale 1"=10'-0"

FOR GENERAL NOTES SEE Standard Plans ES-7A, ES-7B

Note: This Plan Accurate For Electrical Details Only

R K Hale 7-12-72

06-098416 Hunsaker Constr Co W. Braun 6-23-72

BRIDGE DEPARTMENT — DESIGN SECTION 1

Section Supervisor

Project Designer

DESIGN	By	Checked	
DETAILS	By	Checked	
LAYOUT	By	Checked	
QUANTITIES	By	Checked	
SPECIFICATIONS	By	Plans and Specs Checked	

Approval Recommended by — Registered Civil Engr. License No. 6418

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

JENSEN AVENUE OVERCROSSING

LOCATED ABOUT 500' S. OF THE S. CITY LIMIT OF FRESNO IN FRESNO COUNTY

LIGHTING PLAN

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-268	21.3	42268-1	8	

REVISION DATES (PRELIMINARY STAGE ONLY)

9/6/73

PROJECT ENG'R | DATE | DESIGN ENGINEER | DATE | APPROVAL RECOMMENDED BY: L.A.E. | DATE
J. Wilson 10-69 | 9/70

WO 01A271
CU 06202

Disregard prints bearing earlier revision dates →

ACCT. NO. 42
FILE NO. 42
REF. & REV.

CITY OF FRESNO — DEPARTMENT OF PUBLIC WORKS

APPROVED
CONST. ENG
CITY ENGR
OFFICE ENG

DR. BY
CH. BY
DATE
SCALE

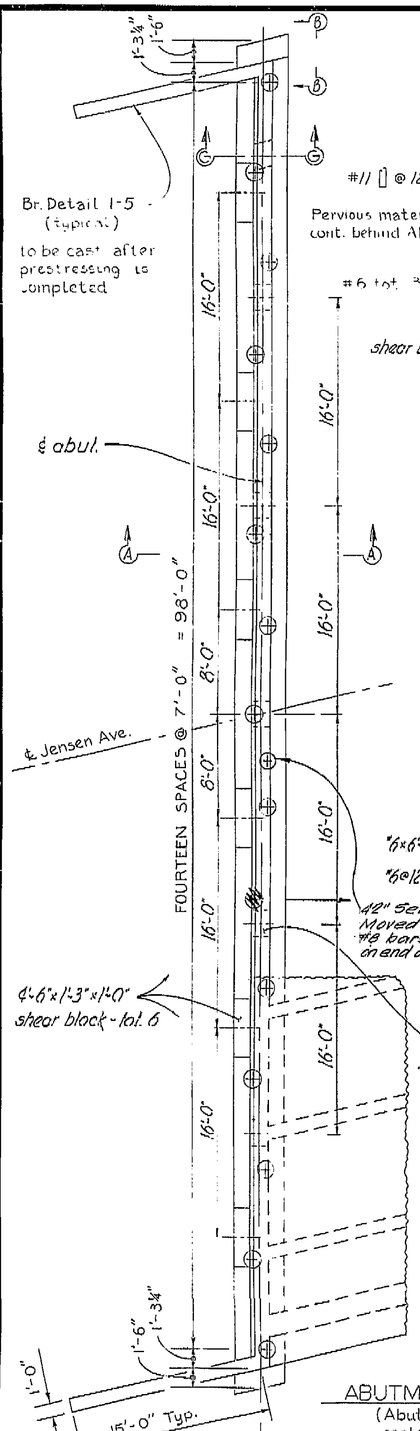
SHEET NO. 28
OF 41 SHEETS

ClibPDF - www.fastio.com

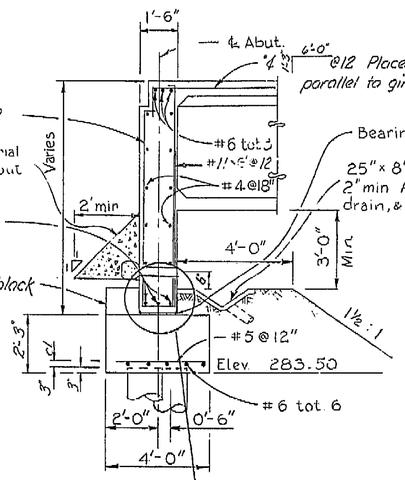
DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre.	41	R20.8/R21.2	22	

Glenn A. Hoard
SECTION SUCTION SUPERVISOR — REGISTERED CIVIL ENGINEER No. 7726

DATE APPROVED: _____

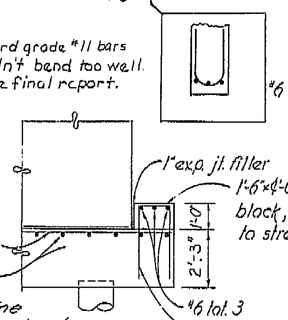


ABUTMENT PLAN
(Abut. 1 shown)
scale: 3/16" = 1'-0"

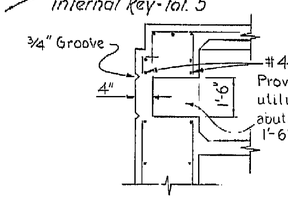


SECTION A-A
scale: 3/8" = 1'-0"

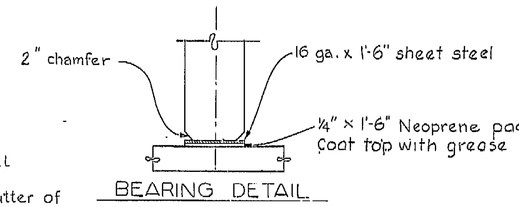
Hard grade #11 bars didn't bend too well. See final report.



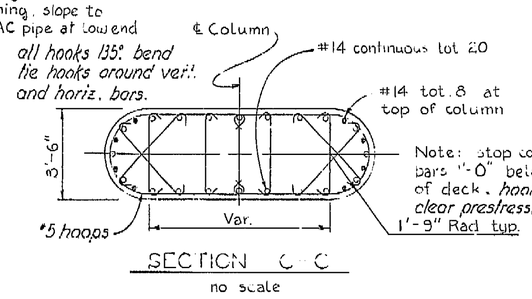
VIEW B-B
scale: 3/8" = 1'-0"



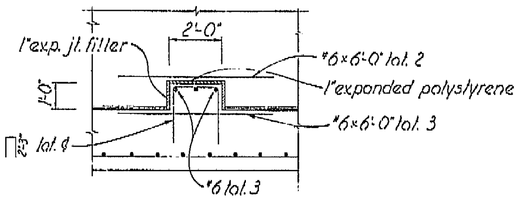
SECTION G-G
no scale



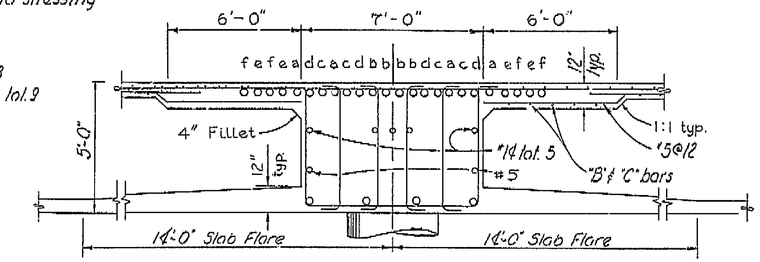
BEARING DETAIL



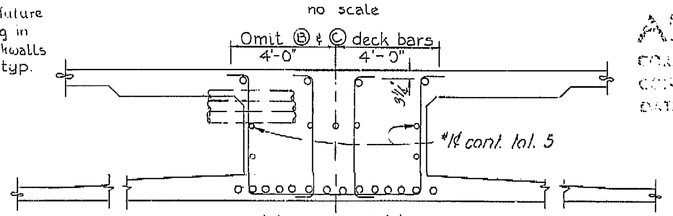
SECTION C-C
no scale



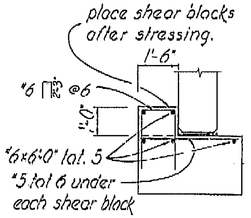
INTERNAL KEY



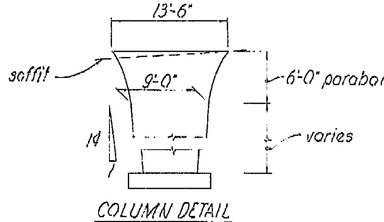
SECTION E-E
no scale



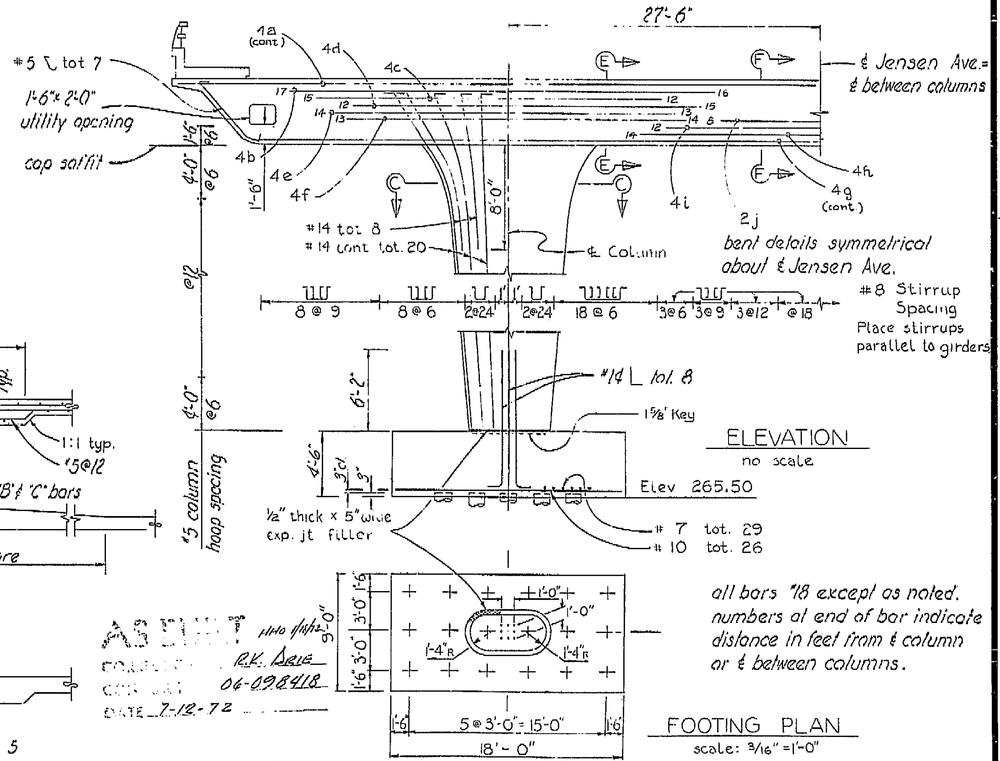
SECTION F-F
no scale



SHEAR BLOCK



COLUMN DETAIL



bent details symmetrical about ℄ Jensen Ave.

all bars #18 except as noted. numbers at end of bar indicate distance in feet from ℄ column or ℄ between columns.

FOOTING PLAN
scale: 3/16" = 1'-0"

BRIDGE DEPARTMENT
DESIGN SECTION 1
Project Engineer Wayne L. Krippendorf

DESIGN	By	J. A. APOSTOLOS
	Checked	Wayne L. Krippendorf
DETAILS	By	J. A. APOSTOLOS 4/10
	Checked	Wayne L. Krippendorf
QUANTITIES	By	C. R. Vaughan
	Checked	

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

JENSEN AVE. O.C.

ABUTMENT & BENT DETAILS

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42 - 268	21.3	42268-4	4	7

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL RECOMMENDED BY	DATE
	4/10		4/10		4/10

WO 098411
CU 06202

Disregard prints bearing earlier revision dates →

REVISION DATES (PRELIMINARY STAGE ONLY)

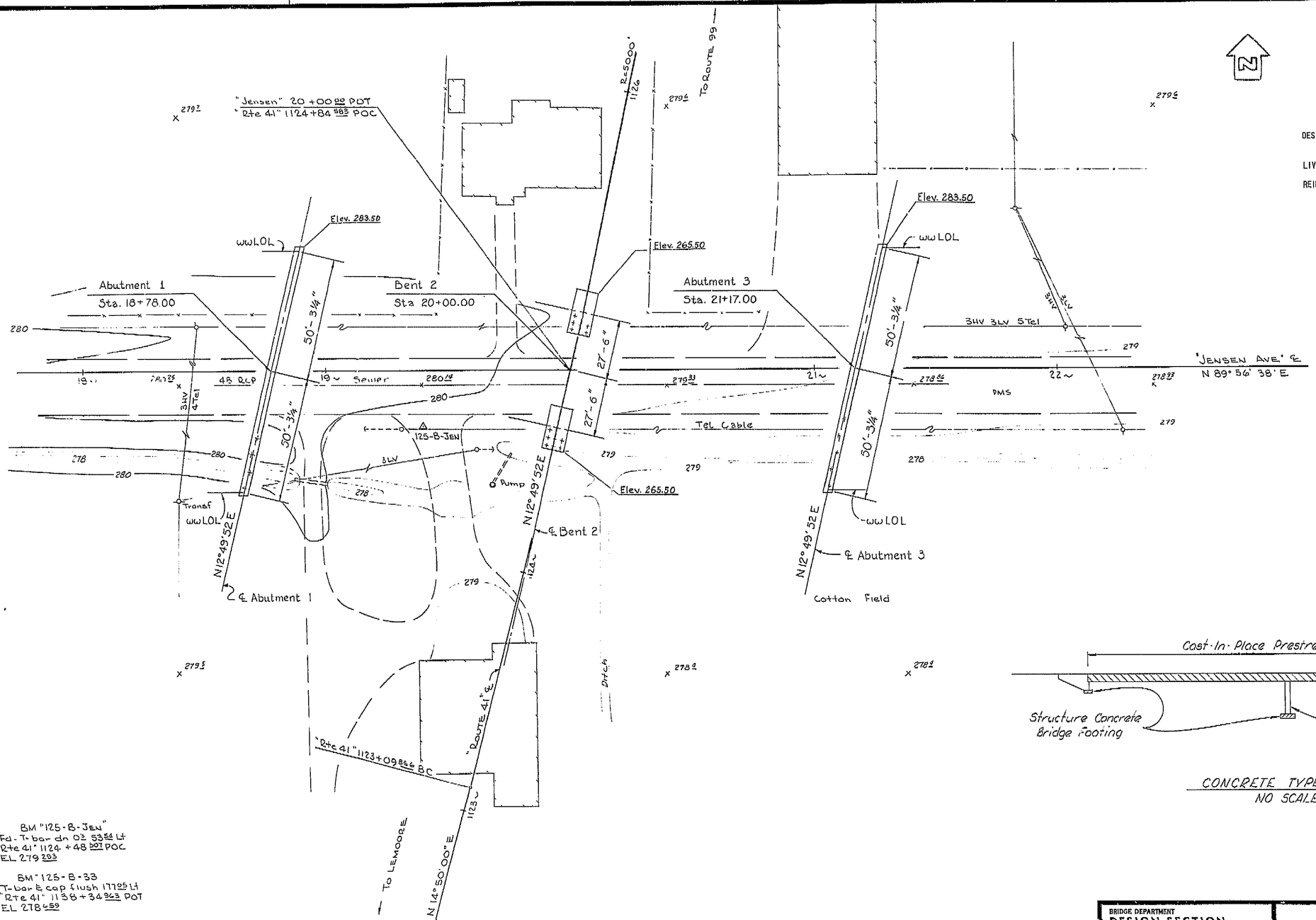
EST. 35% [illegible]

ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
6	Fre.	41	R20.8/R21.2	21	

Chief, Bridge Section Supervisor — Registered Civil Engineer No. 7088

Date Approved



BM "125-B-Jen"
Fd. T-bar dn 0.3 53.54 Lt
"Rte 41" 1124 + 48.207 POC
EL 279.293

BM "125-B-33"
T-bar & cap flush 177.05 Lt
"Rte 41" 1138 + 34.963 POT
EL 278.459

SCALE 1"= 20'
LEVEL DATUM: DISTRICT
FOR ALIGNMENT TIES SEE PR 42268-3
CONTOURS AS OF E-65
SITE PLAN TO SUPPLEMENT DISTRICT DATA.
SURVEY BY L E DATE 8-65
DRAWN BY D W P DATE 9-65
TRACED BY J S DATE 9-21-65

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL RECOMMENDED BY	DATE
	4/70		4/70		4/70

GENERAL NOTES

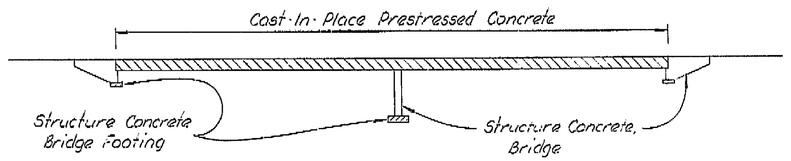
DESIGN: A.A.S.H.O. DATED 1965 WITH REVISIONS AND AS SUPPLEMENTED BY BRIDGE PLANNING AND DESIGN MANUAL.

LIVE LOADING: HS20-44 AND ALTERNATIVE

REINFORCED CONCRETE: F_S = 24,000 PSI, EXCEPT
= 20,000 PSI IN TRANSVERSE DECK SLABS AND STIRRUPS

F_C = 1,300 PSI, EXCEPT
= 1,200 PSI IN TRANSVERSE DECK SLAB

N = 10



CONCRETE TYPE LIMITS
NO SCALE

NO AS BUILT CHANGES
DRAWN R K ARLE H.H.G 8/18/72
CHECKED 06-098418
DATE 7/12/72

PR-42268-1

BRIDGE DEPARTMENT
DESIGN SECTION
Project Engineer Wayne L. Hammerlee

DESIGN	By	J.A. APOSTOLOS
	Checked	Wayne L. Hammerlee
DETAILS	By	J.A. APOSTOLOS
	Checked	Wayne L. Hammerlee
QUANTITIES	By	C.R. Jordan
	Checked	

STATE OF CALIFORNIA
HIGHWAY TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

JENSEN AVENUE OVERCROSSING

FOUNDATION PLAN

BRIDGE NO.	DRAWING NO.	SHEET	OF
42-268	42268-3	3	7

WO 06202
098411

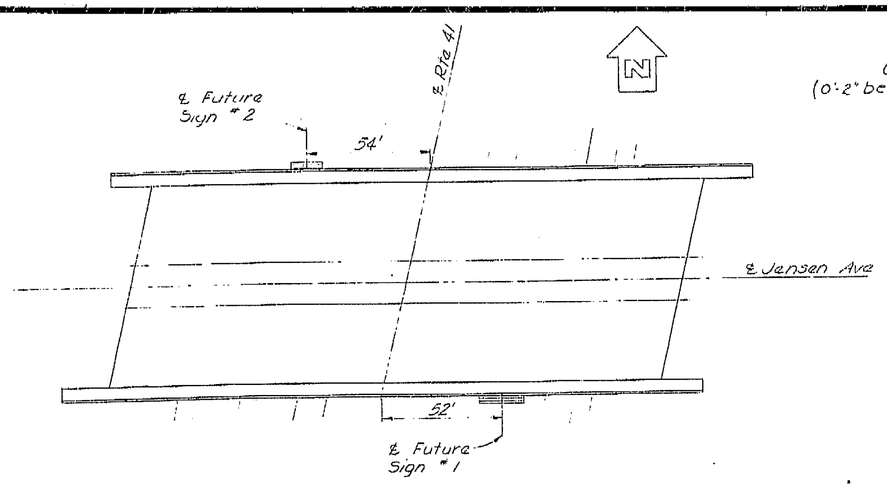
Disregard prints bearing earlier revision dates

E-42

REVISION DATES (PRELIMINARY STAGE ONLY)									
7/3/69									

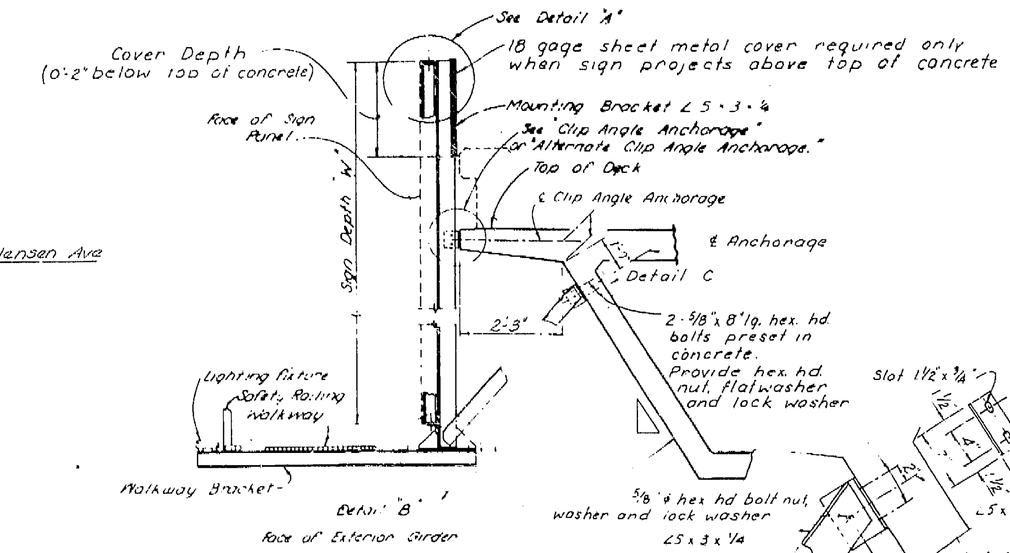
ClibPDF - www.fastio.com

DIST	COUNTY	RTE	POST MILES	TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41	R20.8/R21.2		18	



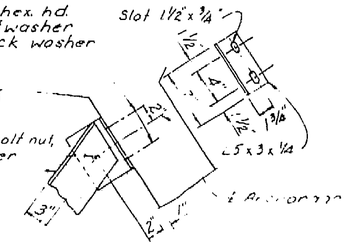
LOCATION PLAN

Scale 1"=30'
Bridge ℄



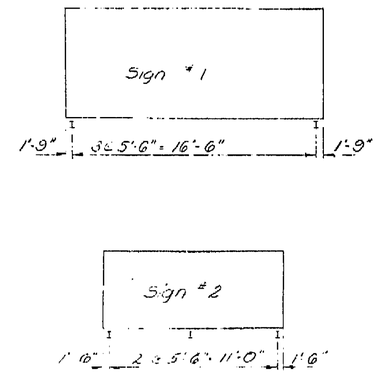
TYPICAL MOUNTING BRACKET ASSEMBLY

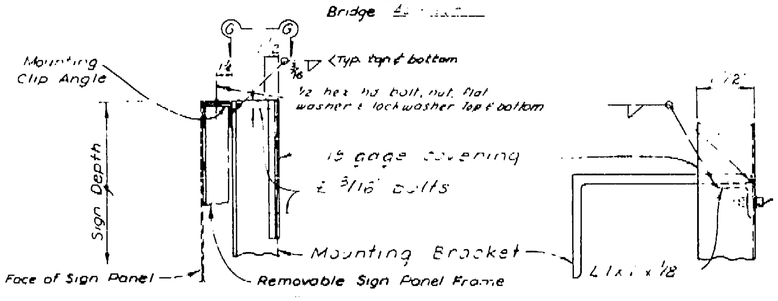
No Scale



DETAIL C

Scale 1½" = 1'-0"



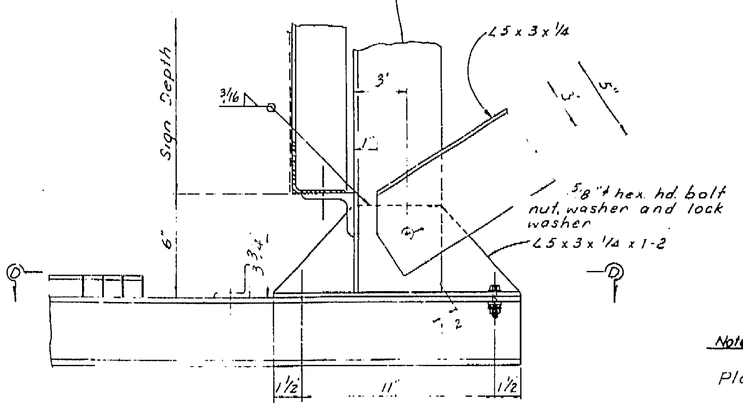


DETAIL A

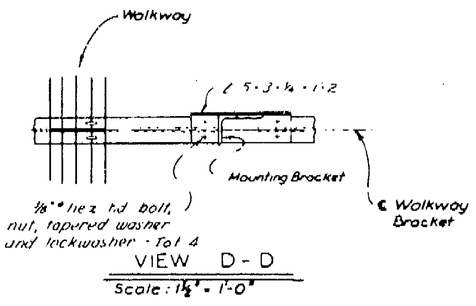
Scale: 1½" = 1'-0"

VIEW G-G

Scale 6" = 1'-0



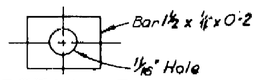
DETAIL B



VIEW D-D

Scale: 1½" = 1'-0"

Note :
For details not shown see Standard Plans"



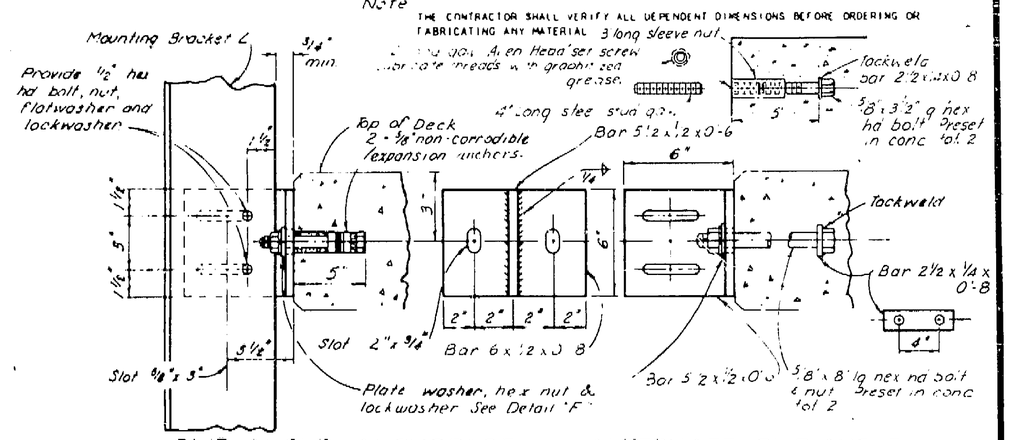
DETAIL F

Scale: Half Size

MOUNTING BRACKET ASSEMBLY SPACING

Scale None

Note
THE CONTRACTOR SHALL VERIFY ALL DEPENDENT DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL



CLIP ANGLE ANCHORAGE

Scale 3" = 1'-0"

ALTERNATE CLIP ANGLE ANCHORAGE

Scale 3" = 1'-0"

AS BUILT PLANS
Noted by R Arie
7-12-72

Note
Bolts only are to be installed on this contract.

06-098618
Hunsaker Constr Co.
W. Brown
6-28-72

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

JENSEN AVENUE OVERCROSSING

BRIDGE MOUNTED SIGN

BRIDGE No.	42-68	DRAWING No.	2/3	SHEET No.	9	OF

PREL. DRAWING NO P-

DESIGN ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL RECOMMENDED	DATE
	4/70		4/70		4/70

BATTERED EXTERIOR GIRDER

CITY OF FRESNO | DEPARTMENT OF PUBLIC WORKS

APPROVED
CONST. ENG. _____ OFFICE ENG.
CITY ENGR. _____

DR. BY
CH. BY
DATE
SCALE

SHEET NO. 9 OF 11 SHEETS

ABST. NO. 17
FILE NO. 582
REF. & REV.

JENSEN AVE. F-41 Fr 20.8/21.2
AT Route 41
Structures

ClibPDF - www.fastio.com

California Department of Transportation
Division of Maintenance

Structure Maintenance and Investigations

BRIDGE

INSPECTION

RECORDS

INFORMATION

SYSTEM

The requested documents have been generated by BIRIS.

These documents are the property of the California Department of Transportation and should be handled in accordance with Deputy Directive 55 and the State Administrative Manual.

Records for “Confidential” bridges may only be released outside the Department of Transportation upon execution of a confidentiality agreement.

06	Fre	41,99	R20.7/R22.1, 19.2/19.8	307	368

REGISTERED ENGINEER - CIVIL

STANLEY DU
No. 41498
Exp. 12-31-95
CIVIL
STATE OF CALIFORNIA

1-22-96
PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

INDEX TO PLANS

SHEET NO.	TITLE
1.	GENERAL PLAN
2.	INDEX TO PLANS
3.	DECK CONTOURS
4.	FOUNDATION PLAN
5.	ABUTMENT LAYOUT NO.1
6.	ABUTMENT LAYOUT NO.2
7.	ABUTMENT LAYOUT NO.3
8.	ABUTMENT LAYOUT NO.4
9.	ABUTMENT DETAILS NO.1
10.	ABUTMENT DETAILS NO.2
11.	ABUTMENT DETAILS NO.3
12.	ABUTMENT DETAILS NO.4
13.	TYPICAL SECTION NO.1
14.	TYPICAL SECTION NO.2
15.	GIRDER LAYOUT NO.1
16.	GIRDER LAYOUT NO.2
17.	GIRDER REINFORCEMENT NO.1
18.	GIRDER REINFORCEMENT NO.2
19.	4"Ø COMMUNICATION CONDUIT
20.	SLOPE PAVING - FULL SLOPE
21.	CONCRETE BARRIER TYPE 27 (MOD)
22.	STRUCTURE APPROACH TYPE N (305)
23.	STRUCTURE APPROACH DRAINEGE DETAILS
24.	PC P/S CONCRETE DECK PANEL FOR P/S GIRDER
25.	SOUND WALL LAYOUT
26.	SOUND WALL ON RETAINING WALL
27.	SOUND WALL ON BRIDGE
28.	LOG OF TEST BORINGS

STANDARD PLANS DATED JULY 1992

A62C	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL BRIDGE
B0-5	BRIDGE DETAILS
B0-13	BRIDGE DETAILS
B2-3	16" CAST-IN-DRILLED-HOLE CONCRETE PILE
B3-1	RETAINING WALL TYPE 1
B3-8	RETAINING WALL DETAILS NO.1
B6-21	JOINT SEAL (MAXIMUM MOVEMENT RATING = 2")
B7-1	BOX GIRDER DETAILS
B8-5	CAST-IN-PLACE PRESTRESS GIRDER DETAILS
B11-53	CONCRETE BARRIER TYPE 25

* COPPER NAILS FINAL ELEVATIONS

1	305.40	8	305.45	15	304.88
2	305.56	9	305.74	16	305.16
3	305.57	10	305.74	17	305.15
4	306.11	11	306.46	18	306.02
5	306.63	12	307.13	19	307.07
6	306.65	13	307.16	20	307.09
7	306.72	14	307.30	21	307.35

PILE DATA - CIDH CONCRETE PILES

LOCATION			DIAMETER	DESIGN LOADING (SERVICE LOAD)	NOMINAL RESISTANCE COMPRESSION	SPECIFIED TIP ELEVATION
Left Bridge	Abut 1	Abutment	16"	70 Tons	280 Kips	244
		Ret.Wall	16"	70 Tons	280 Kips	248
	Abut 2	Abutment	16"	70 Tons	280 Kips	244
		Ret.Wall	16"	70 Tons	280 Kips	248
Right Bridge	Abutment 1		16"	70 Tons	280 Kips	244
	Abutment 2		16"	70 Tons	280 Kips	244

GENERAL NOTES
LOAD FACTOR DESIGN

DESIGN: BRIDGE DESIGN SPECIFICATIONS (1983 AASHTO with Interims and Revisions by CALTRANS)

DEAD LOAD: Includes 35 psf for future wearing surface.

LIVE LOADING: HS20-44 and alternative and permit design load.

SEISMIC LOADING: Peak Rock Acceleration = 0.1g
Depth of Alluvium > 150 ft

REINFORCED CONCRETE: f_y = 60,000 psi
f'_c = 3,250 psi
n = 9
Transverse Deck Slabs (Working Stress Design)
f_s = 20,000 psi
f_c = 1,200 psi
n = 10

PRESTRESSED CONCRETE: See "Prestressing Notes"

AS BUILT PLANS

Contract No. 06-342604
Contractor BENCO
Resident Engineer L. HICKINBOTHAM
Date of Completion 4/97
BY DAVID L. VALLEJOS

DESIGN	BY Tracy Phan	CHECKED Stanley Ku	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 8	BRIDGE NO. 42-265R/L	CHURCH AVENUE UNDERCROSSING		
DETAILS	BY Norm Kelley	CHECKED Stanley Ku			POST MILE R21.61	INDEX TO PLANS		
QUANTITIES	BY Tony Huang	CHECKED Steve Hoo		CU 06107 EA 342601	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PROGRAMMER: STAGE ONLY)	PLAN SHEET ID: SHEET 2	OF 28

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

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RELEASED FOR BID

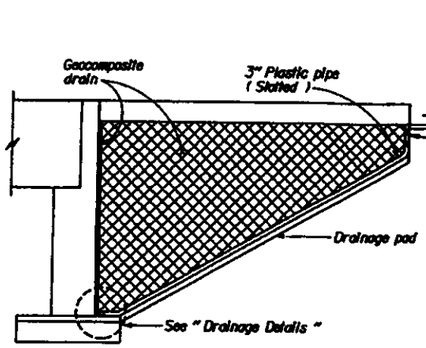
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41,99	R20.7/R22.1, 19.2/19.8	328	368

REGISTERED ENGINEER / CIVIL

STANLEY KU
No. 47498
Exp. 12-31-95
CIVIL
STATE OF CALIFORNIA

1-22-96
PLANS APPROVAL DATE

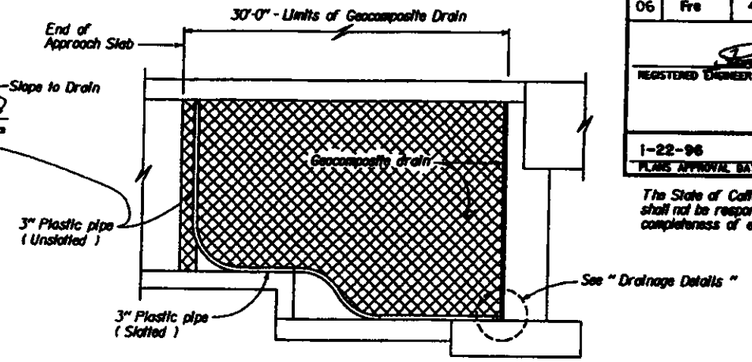
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CANTILEVER WINGWALL

◈ SECTION F-F

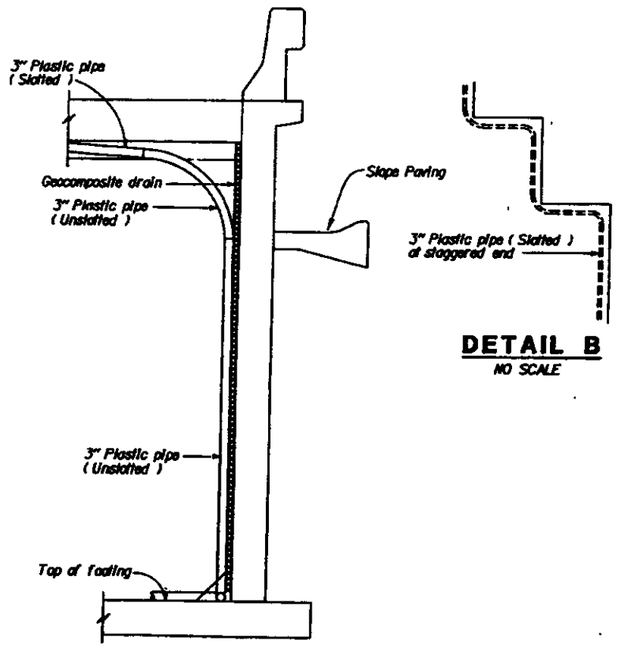
NO SCALE



RETAINING WALL WINGWALL

◈ SECTION G-G

NO SCALE



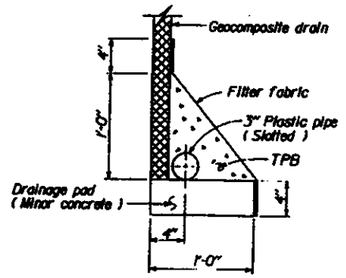
◈ SECTION E-E

1/2" = 1'-0"

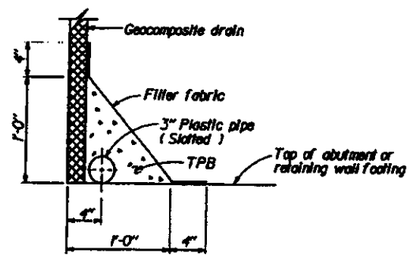
NOTE: Bends and junctions in 3" plastic pipe are 30" radius min.

DETAIL B

NO SCALE



WITHOUT FOOTING



WITH FOOTING

DRAINAGE DETAILS

1½" = 1'-0"

AS BUILT PLANS

Contract No. 06-342604
Contractor BENCO
Resident Engineer L. HICKINBOTHAM
Date of Completion 4/97
BY DAVID L. VALLEJOS
NO CHANGES ON THIS SHEET.

SPECIAL DETAILS

STANDARD DRAWING

FILE NO. XS 22-17 | DESIGN BY M. Traffalis | CHECKED E. Thorildsen | APPROVING RECOMMENDED BY
DESIGN DATE REVISED | DETAILS BY R. Yee | CHECKED E. Thorildsen
SUBMITTED BY M. Ho | DESIGN SUPERVISOR

OS OSD 284TA (CADD 4/89)

◈ MODIFIED DETAILS
◈ DELETED DETAILS

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 8

CU 06107
EA 342601

BRIDGE NO.	CHURCH AVENUE UNDERCROSSING
POST MILE R21.61	STRUCTURE APPROACH DRAINAGE DETAILS

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 23 OF 28

XSBDT.DGN

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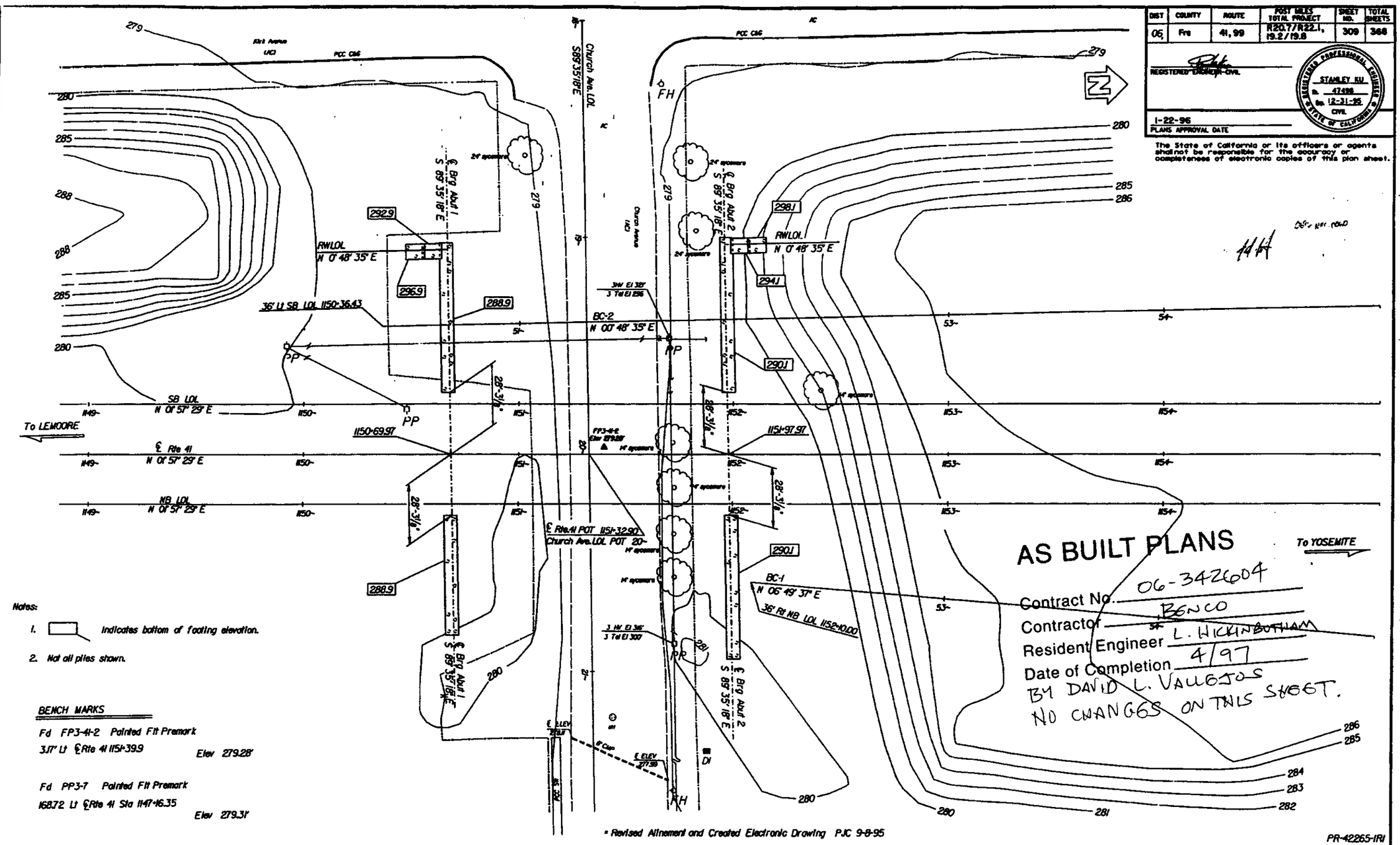
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41, 99	R20.7/R22.1, 19.2/19.8	309	368

REGISTERED ENGINEER - CIVIL

STANLEY KU
No. 47498
Exp. 12-31-95
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

1-22-96
PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



Notes:

1. ▭ Indicates bottom of footing elevation.
2. Not all piles shown.

BENCH MARKS

Fd FP3-41-2 Painted Flt Premark
3.17' Lt ℄ Rte 41 1151+39.9 Elev 279.28'

Fd PP3-7 Painted Flt Premark
168.72 Lt ℄ Rte 41 Sta 1147+16.35 Elev 279.31'

AS BUILT PLANS

Contract No. 06-342604
Contractor BENCO
Resident Engineer L. HICKINBOTHAM
Date of Completion 4/97
BY DAVID L. VALLEJOS
NO CHANGES ON THIS SHEET.

* Revised Alinement and Created Electronic Drawing PJC 9-8-95

PR-42265-IRI

PRELIMINARY INVESTIGATION SECTION											
SCALE 1" = 20'	DATUM NGVD, 1929	PHOTOGRAMMETRY AS OF:		DRAWN	BY DEF 3/93	DESIGN	BY Tracy Phan	Stanley Ku	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURES DESIGN 8	BRIDGE NO. 12-265 R/L
		SURVEYED	BY SRS 3/93	TRACED	BY DEF 3/93	DETAILS	BY David Forbes	Stanley Ku			POST MILE R21.61
ALIGNMENT TIES DIST TRAV SHEETS		FIELD CHECKED	BY	CHECKED	BY SRS 3/93	QUANTITIES	BY Tony Huang	Steve Hop		CU 06107 EA 342601	DISREGARD PRINTS BEARING EARLIER REVISION DATES →

CHURCH AVENUE UNDERCROSSING
FOUNDATION PLAN

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 4 OF 28

DS OSD 2145 (4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

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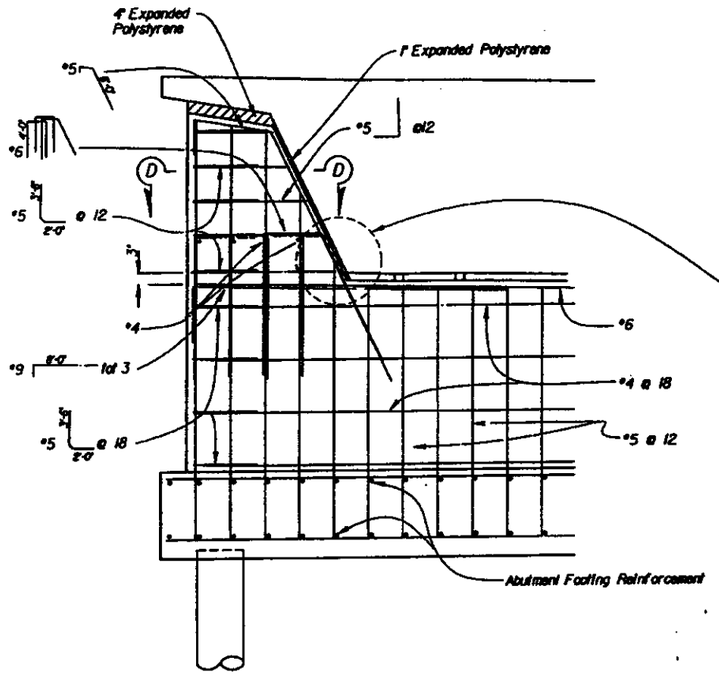
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41,99	R20.7/R22.1, 19.2/19.8	317	368

REGISTERED ENGINEER - CIVIL

STANLEY KU
No. 41588
Exp. 12-31-96
CIVIL

1-22-96
PLANS APPROVAL DATE

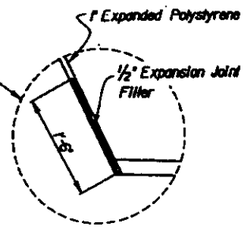
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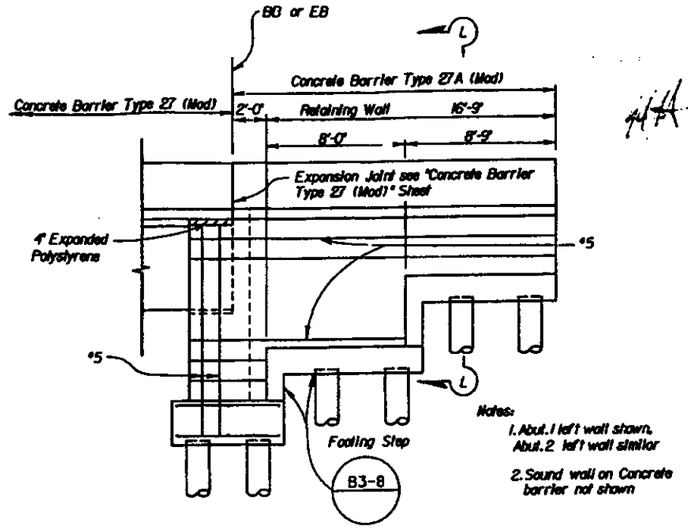


EXTERNAL KEY DETAIL

½" = 1'-0"

Note:
Architectural treatment not shown

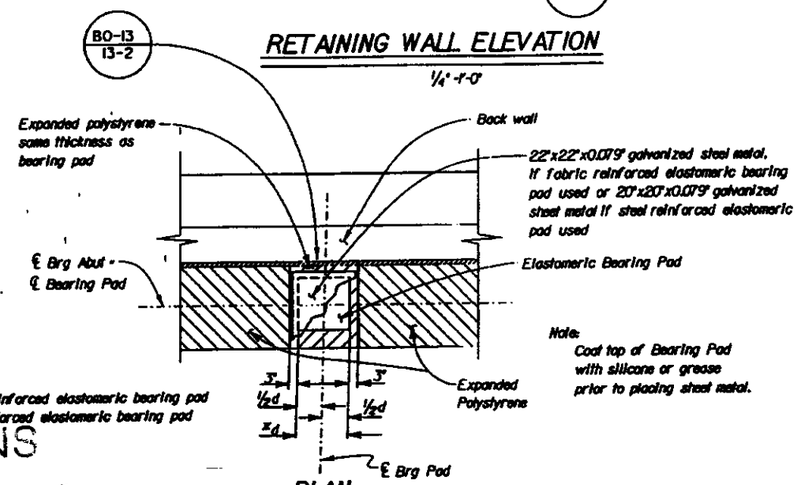




Notes:
1. Abut. 1 left wall shown, Abut. 2 left wall similar
2. Sound wall on Concrete barrier not shown

RETAINING WALL ELEVATION

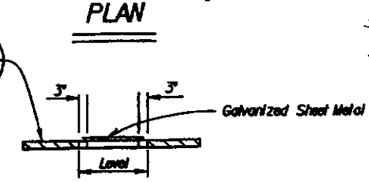
¼" = 1'-0"



x d= 18" for fabric reinforced elastomeric bearing pad
d= 16" for steel reinforced elastomeric bearing pad

PLAN

Note:
Coat top of Bearing Pad with silicone or grease prior to placing sheet metal.



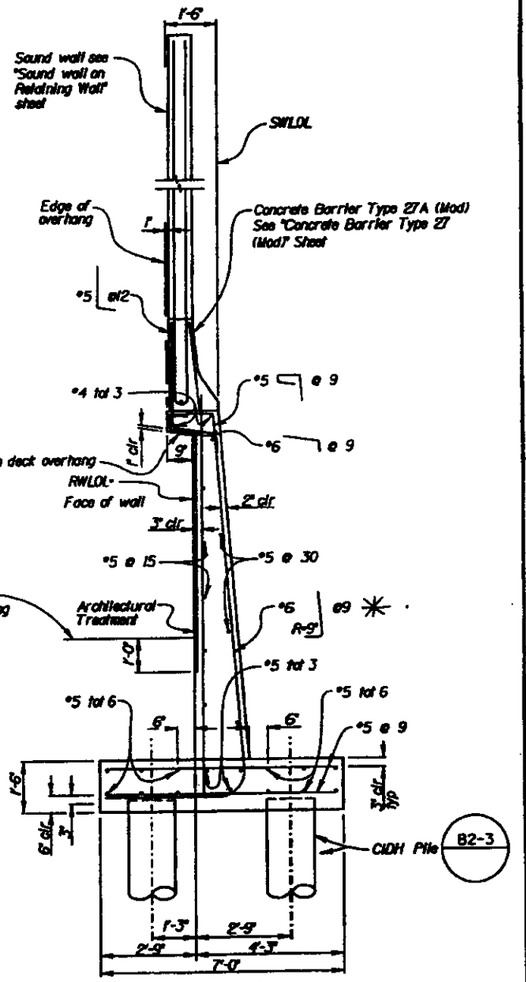
ELEVATION

BEARING PAD DETAILS

½" = 1'-0"

SECTION D-D

½" = 1'-0"



SECTION L-L

½" = 1'-0"

* CLO 31 REINFORCEMENT CHANGE TO UPPER FOOTINGS OF THE LEFT BRIDGE.

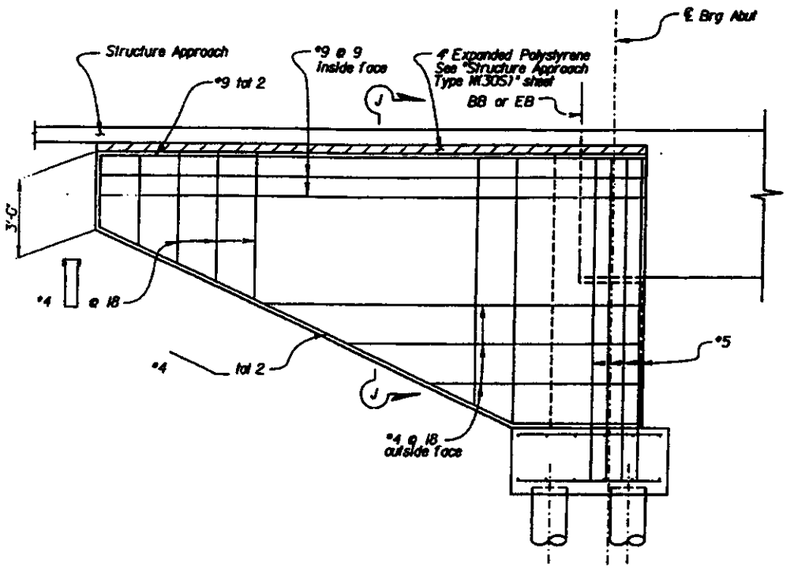
AS BUILT PLANS

Contract No. 06.342604
Contractor BENCO
Resident Engineer L. HICKINBOTHAM
Date of Completion 4/97
BY DAVID L. VALLEJOS

DESIGN	BY Bill Brook	CHECKED Stanley Ku	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 8	BRIDGE NO. 42-0251R/L	CHURCH AVENUE UNDERCROSSING	
DETAILS	BY Norm Kelley	CHECKED Stanley Ku			POST MILE R21.61	ABUTMENT DETAILS NO. 4	
QUANTITIES	BY Tony Huang	CHECKED Steve Hao		CU 0607 EA 34260	DENOTES REVISIONS BASED ON 1990 STANDARDS	REVISION DATES (PRELIMINARY STAGE ONLY)	PLAN SHEET NO. 12 / 28

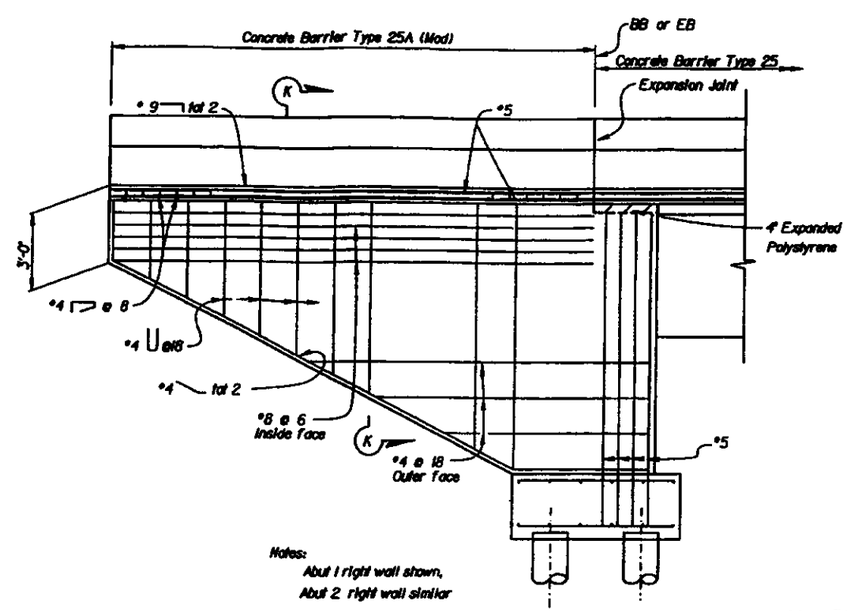
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

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RIGHT BRIDGE

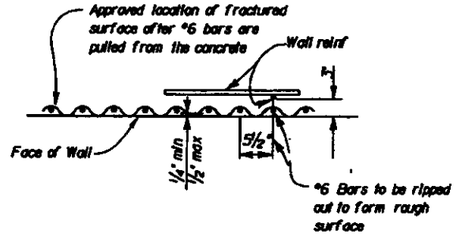
3/8"=1'-0"



Notes:
Abut 1 right wall shown,
Abut 2 right wall similar

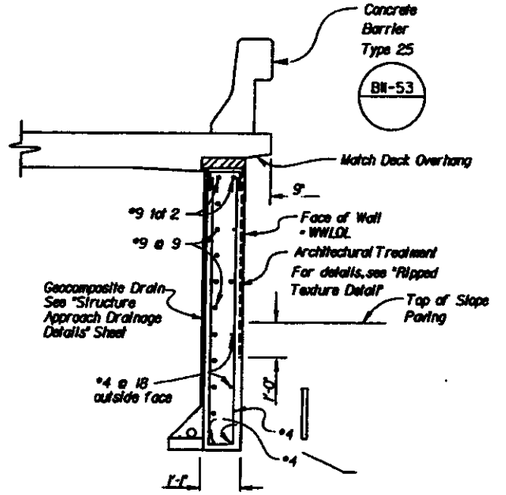
LEFT BRIDGE

3/8"=1'-0"



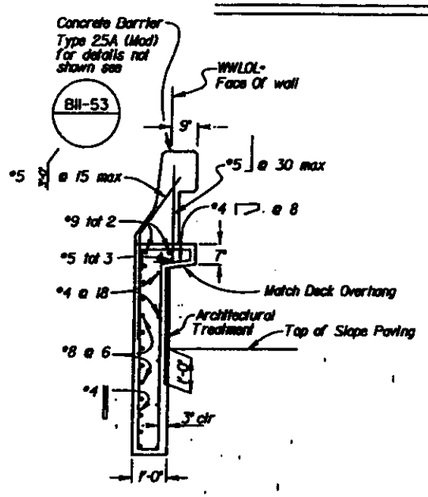
RIPPED TEXTURE DETAIL

WING WALL ELEVATION



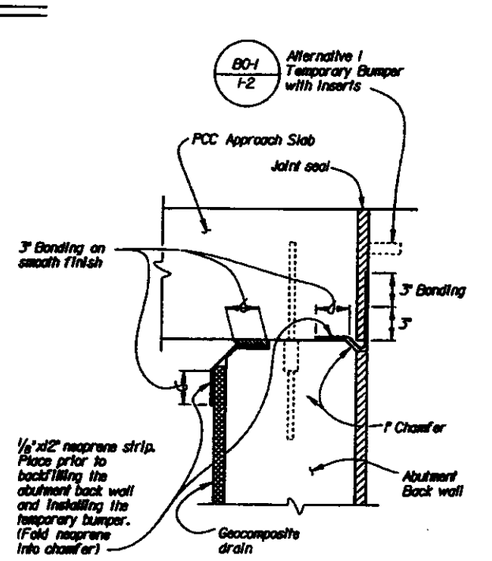
SECTION J-J

1/2"=1'-0"



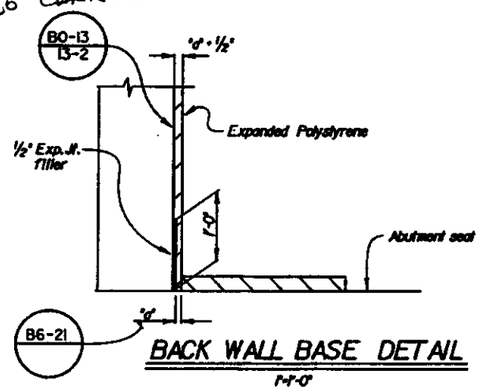
SECTION K-K

1/2"=1'-0"



JOINT PROTECTION DETAIL

No Scale



BACK WALL BASE DETAIL

1"=1'-0"

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41,99	R20.7/R22.1, 19.2/19.8	346	368

REGISTERED ENGINEER - CIVIL

STANLEY KU, No. 42458, Exp. 12-31-96, CIVIL, STATE OF CALIFORNIA

1-22-96
PLANS APPROVAL DATE

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AS BUILT PLANS 1"=1'-0"

Contract No. 06-342604

Contractor BENCO

Resident Engineer L. HICKINBOTHAM

Date of Completion 4/97

BY DAVID L. VALLEJOS
NO CHANGES ON THIS SHEET.

DESIGN	BY Tracy Phan	CHECKED Stanley Ku	
DETAILS	BY Norm Kelley	CHECKED Stanley Ku	
QUANTITIES	BY Tony Huang	CHECKED Steve Hao	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 8

CU 06107
EA 342601

BRIDGE NO. 42-255R/L
POST MILE R21.61

CHURCH AVENUE UNDERCROSSING
ABUTMENT DETAILS NO.3

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DRAWING POINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 8 OF 28

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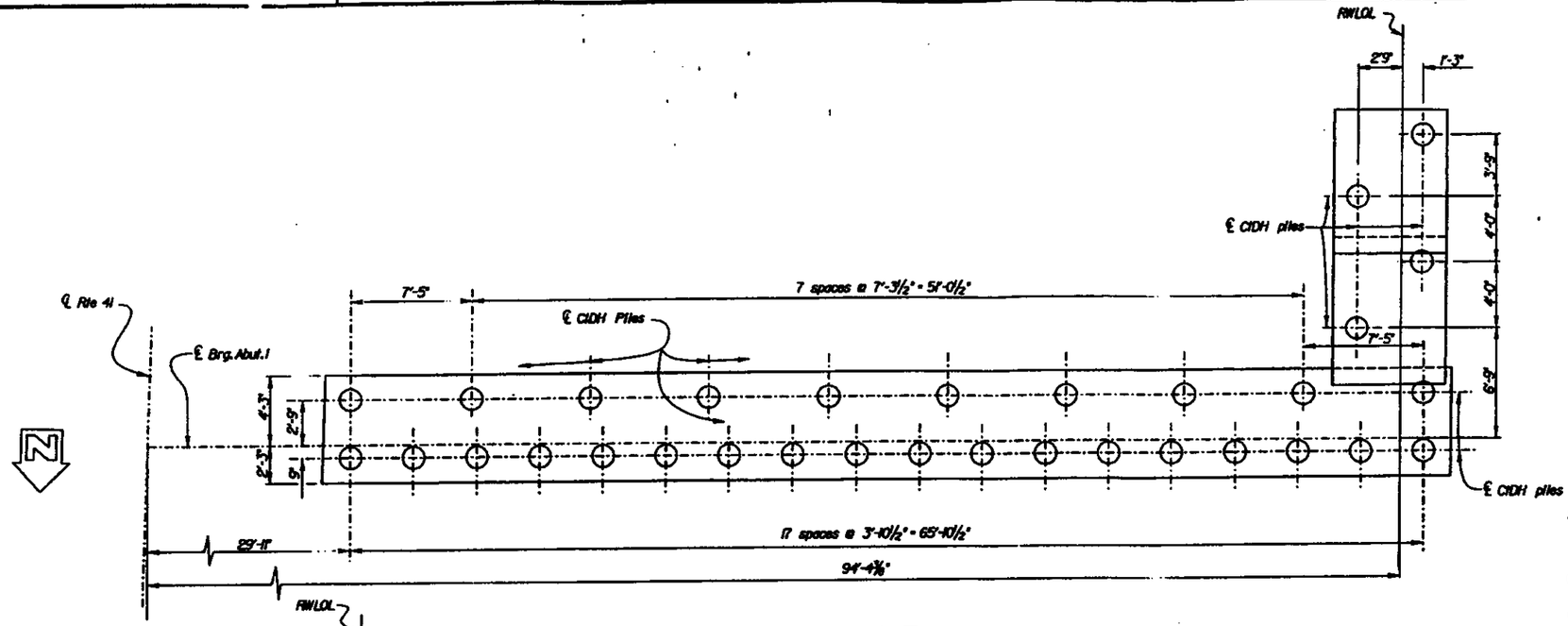
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41,99	R20.7/R22.1, 19.2/19.8	315	388

REGISTERED ENGINEER - CIVIL

STANLEY KU, No. 41981, Exp. 12-31-96, CIVIL, STATE OF CALIFORNIA

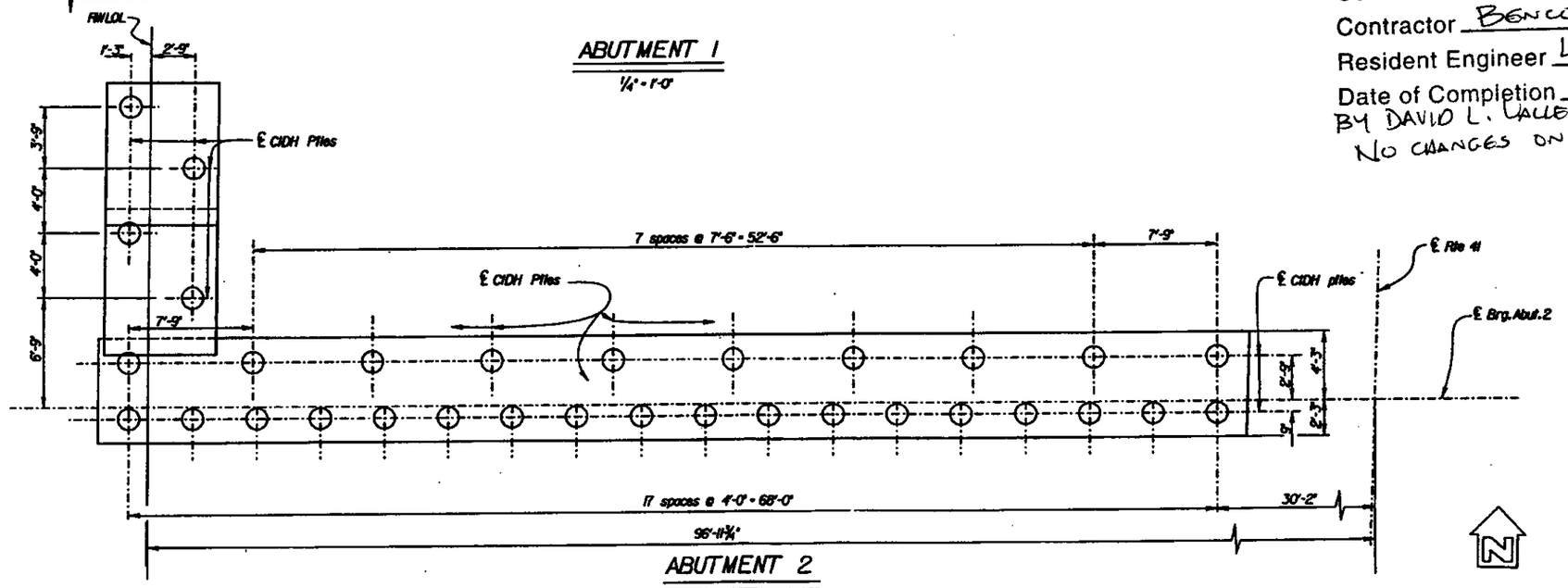
1-22-96
PLANS APPROVAL DATE

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ABUTMENT 1

¼" = 1'-0"



ABUTMENT 2

¼" = 1'-0"

PILE LAYOUT - LEFT BRIDGE

AS BUILT PLANS

Contract No. 06-342604
Contractor BENCO
Resident Engineer L. HICKINBOTHAM
Date of Completion 4/97
BY DAVID L. VALLEJOS
NO CHANGES ON THIS SHEET.

DESIGN	BY BBBrook	CHECKED Stanley Ku	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY Norm Kelley	CHECKED Stanley Ku	DIVISION OF STRUCTURES STRUCTURE DESIGN 8
QUANTITIES	BY Tony Huang	CHECKED Steve Hao	CU 0607 EA 342601

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

BRIDGE NO.	CHURCH AVENUE UNDERCROSSING
42-265R/L	ABUTMENT DETAILS NO. 2
POST MILE R21.61	

DRAWINGS PRINTS BEARING EARLIER REVISION DATES ——— REVISION DATES (PROJECT ENGINEER) STAGE (M, V)

PLAN SHEET NO. 10 OF 28

ClibPDF - www.fastio.com

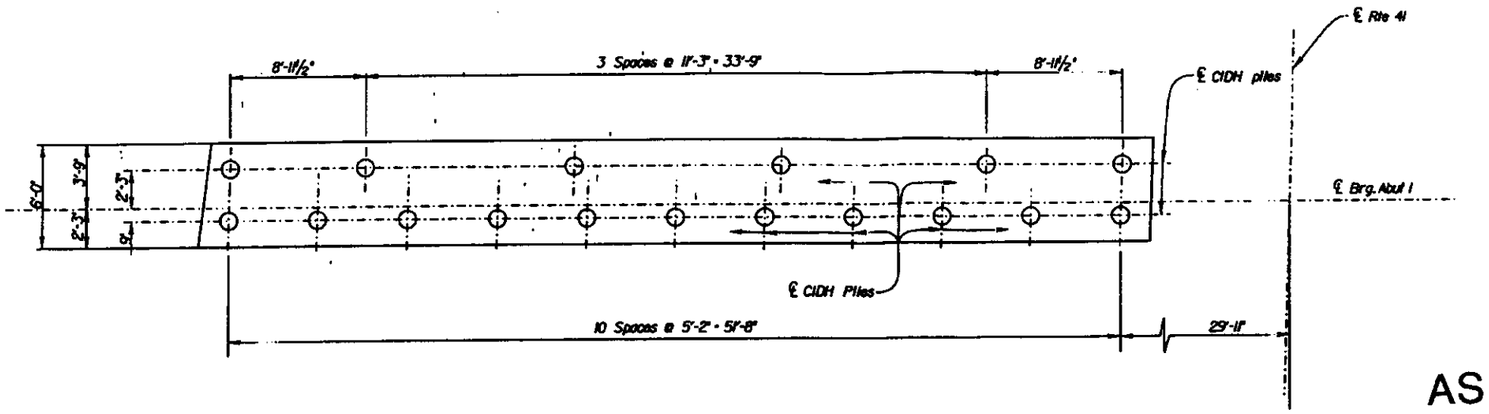
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41,99	R20.7/R22.1, 19.2/19.8	314	368

REGISTERED ENGINEER - CIVIL

STANLEY SU
No. 47498
Exp. 12-31-95
CIVIL
STATE OF CALIFORNIA

1-22-96
PLANS APPROVAL DATE

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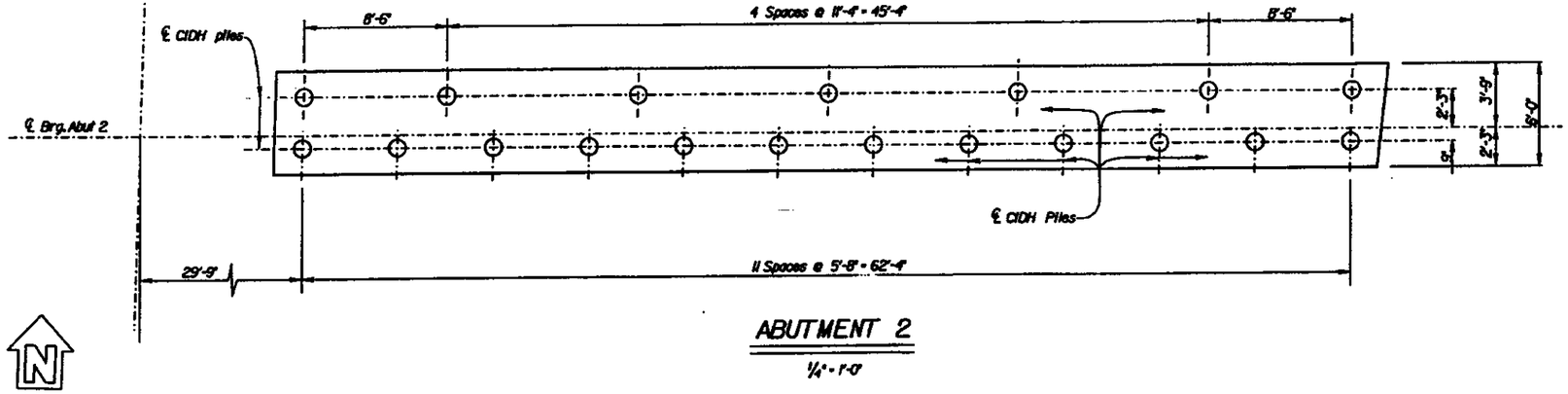


ABUTMENT 1

1/4" = 1'-0"

AS BUILT PLANS

Contract No. 06-342604
Contractor BENCO
Resident Engineer L. HICKINBOTHAM
Date of Completion 4/97
BY DAVID L. VALLEJOS
NO CHANGES ON THIS SHEET.



ABUTMENT 2

1/4" = 1'-0"

PILE LAYOUT - RIGHT BRIDGE

DESIGN	BY Tracy Phan	CHECKED Stanley Su	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 8
DETAILS	BY Norm Kelley	CHECKED Stanley Su		
QUANTITIES	BY Tony Huang	CHECKED Steve Hao		

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3

CU 0801
EA 342601

BRIDGE NO. 42-265R/L
POST MILE R21.61

CHURCH AVENUE UNDERCROSSING
ABUTMENT DETAILS NO. 1

REVISED PRINTS BEARING EARLIER REVISION DATES

PLAN SHEET NO. 9 | SHEET 9 | OF 28

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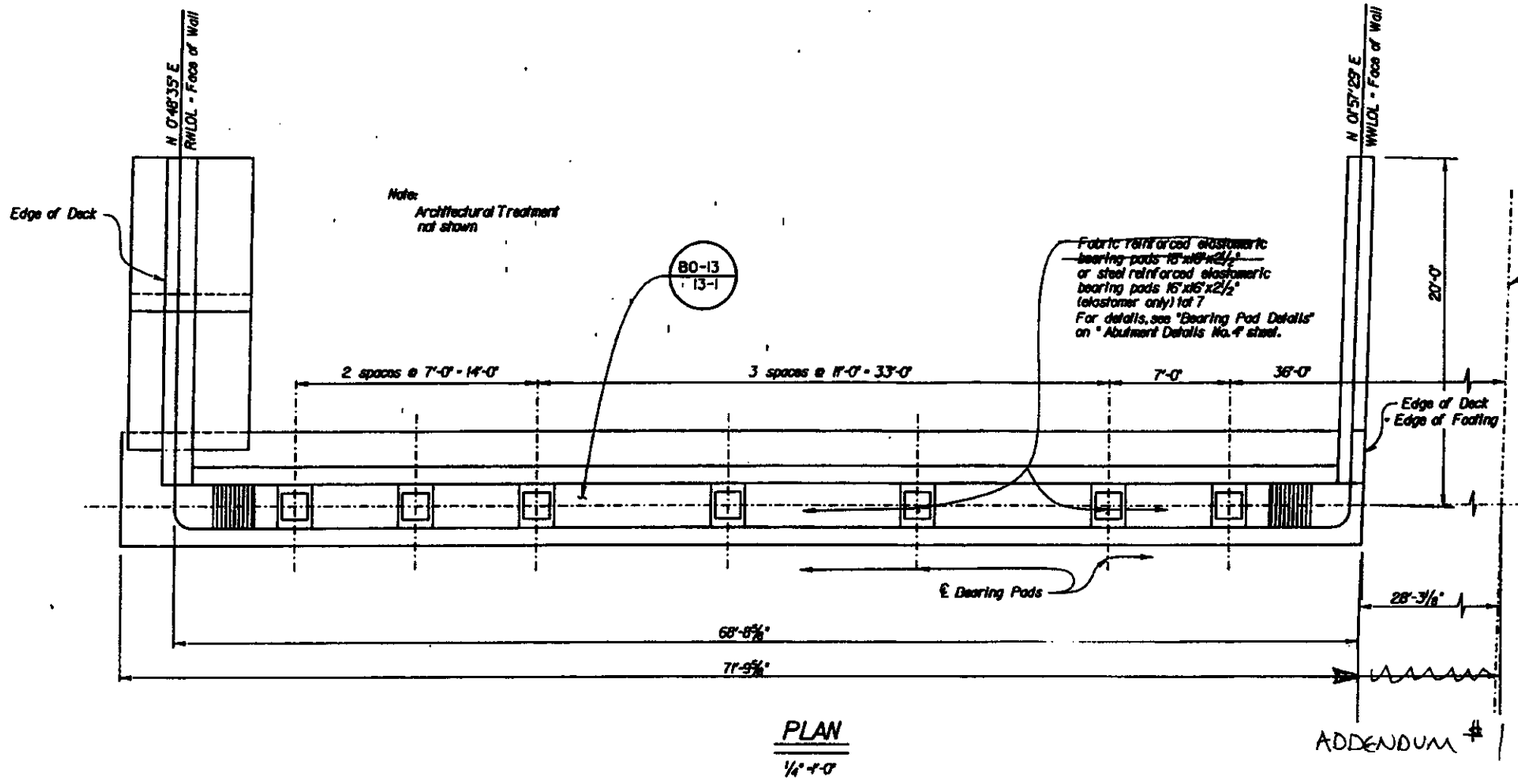
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41,99	R20.7/R22.1, 19.2/19.8	313	368

REGISTERED ENGINEER - CIVIL

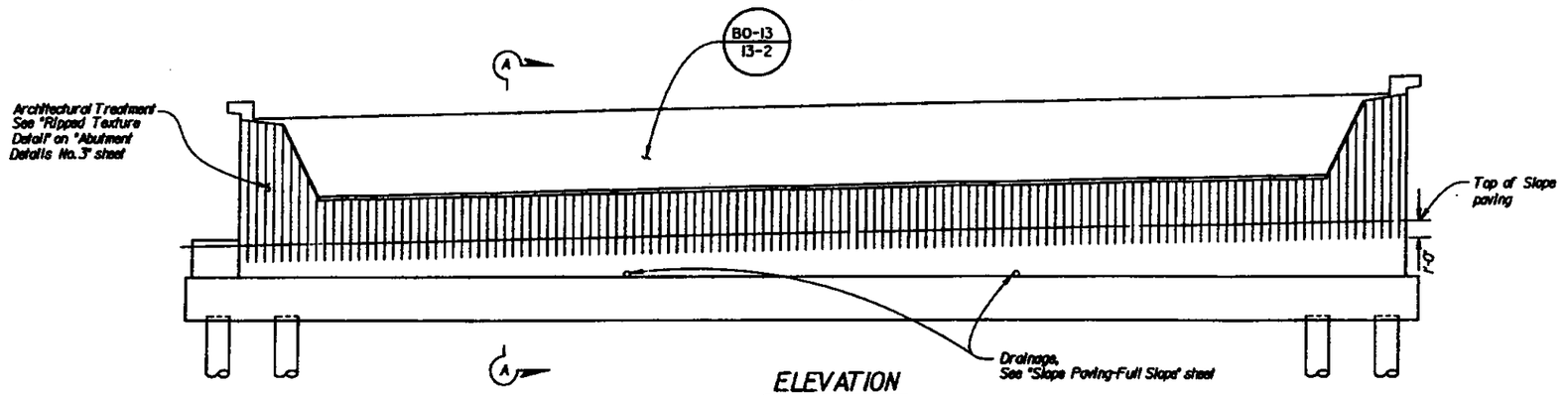
REGISTERED PROFESSIONAL ENGINEER STANLEY KU No. 47598 Exp. 12-31-95 CIVIL STATE OF CALIFORNIA

1-22-96
PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



PLAN
¼"=1'-0"



ELEVATION
¼"=1'-0"

ABUTMENT 2 - LEFT BRIDGE

Notes:
1. All piles not shown
2. For Section A-A see "Abutment Layout No.1" sheet

AS BUILT PLANS

Contract No. 06-342604
Contractor BENCO
Resident Engineer L. HICKINBOTHAM
Date of Completion 4/97
BY DAVID L. VALLEJOS

DESIGN	BY BBBrook	CHECKED Stanley Ku	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 8	BRIDGE NO. 42-269R/L	CHURCH AVENUE UNDERCROSSING
DETAILS	BY Nora Kelley	CHECKED Stanley Ku			POST MILE R21.8	ABUTMENT LAYOUT NO. 4
QUANTITIES	BY Tony Nuang	CHECKED Steve Hao		CU 0807 EA 342601		

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES

PLAN SHEET NO. 8 OF 28

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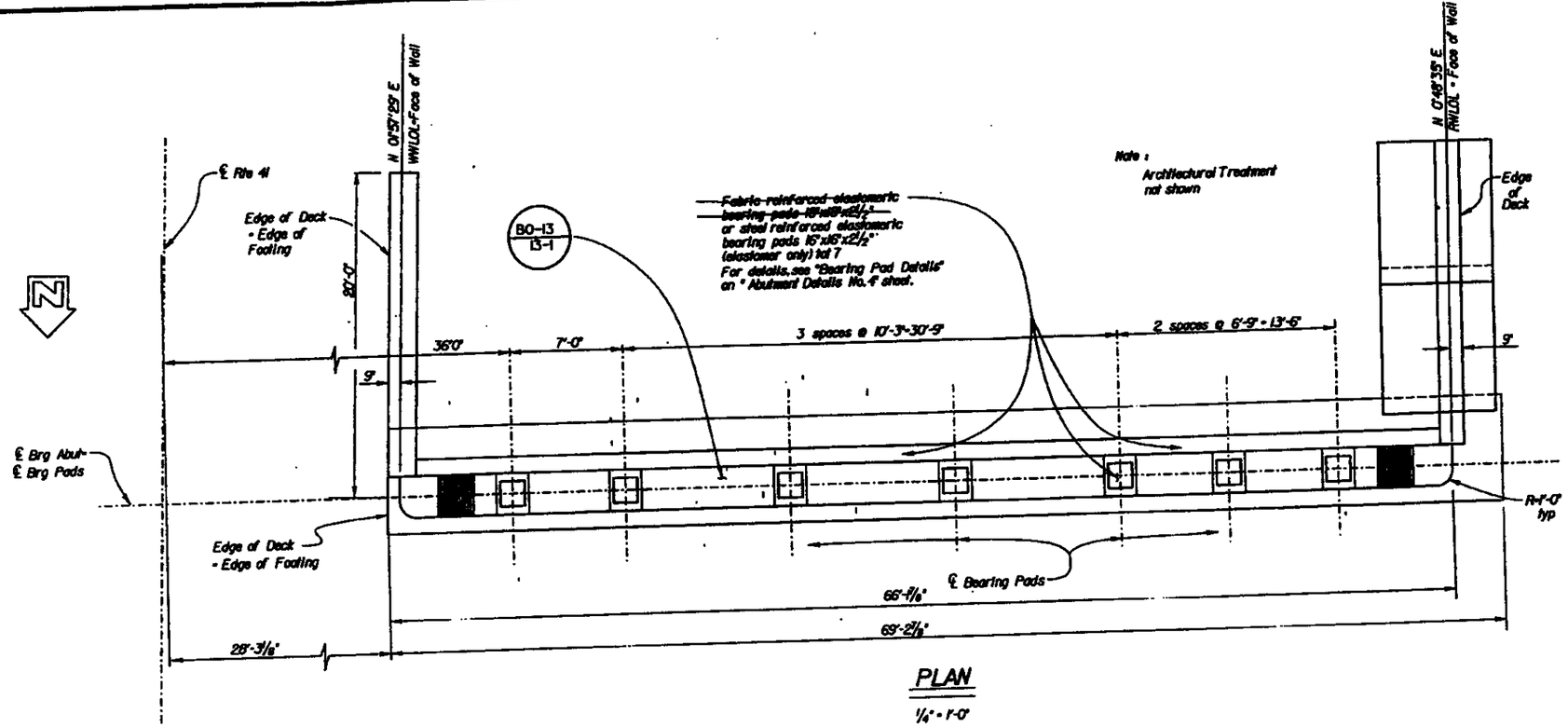
06	Fre	41,99	R20.7/R22.4 19.2/19.8	342	368

REGISTERED ENGINEER - CIVIL

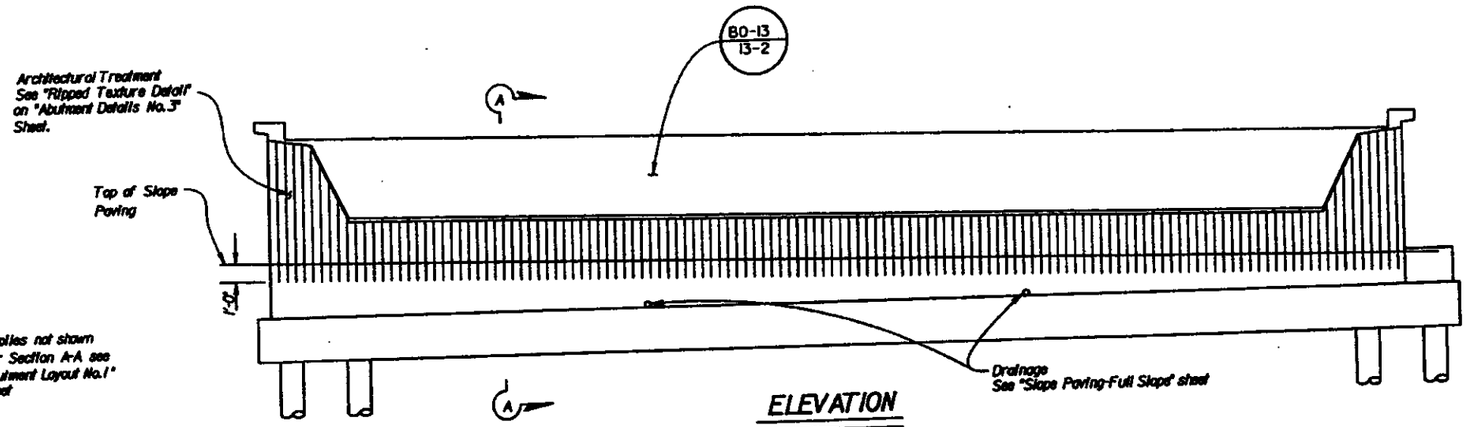
STANLEY KU
No. 47498
Exp. 12-31-96
CIVIL
STATE OF CALIFORNIA

1-22-96
PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



PLAN
1/4" = 1'-0"



Notes:
1. All piles not shown
2. For Section A-A see "Abutment Layout No.1" sheet

ELEVATION
1/4" = 1'-0"

ABUTMENT 1 - LEFT BRIDGE

AS BUILT PLANS

Contract No. 06.342604
Contractor BENCO
Resident Engineer L. HICKINBOTHAM
Date of Completion 4/97
BY DAVID L. VALLEJOS

DESIGN	BBBrook	Stanley Ku	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 8	BRIDGE NO. 42-265R/L	CHURCH AVENUE UNDERCROSSING
DETAILS	Norm Kelley	Stanley Ku			POST MILE R2.61	ABUTMENT LAYOUT NO. 3
QUANTITIES	Tony Huang	Steve Hoo		CU 0807 EA 34260	REVISION DATES (PRELIMINARY STAGE ONLY)	PLAN SHEET NO. 7 OF 28

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3

DISREGARD PRINTS DATED EARLIER THAN REVISION DATES

05 050 2000 (CADD 3/95)

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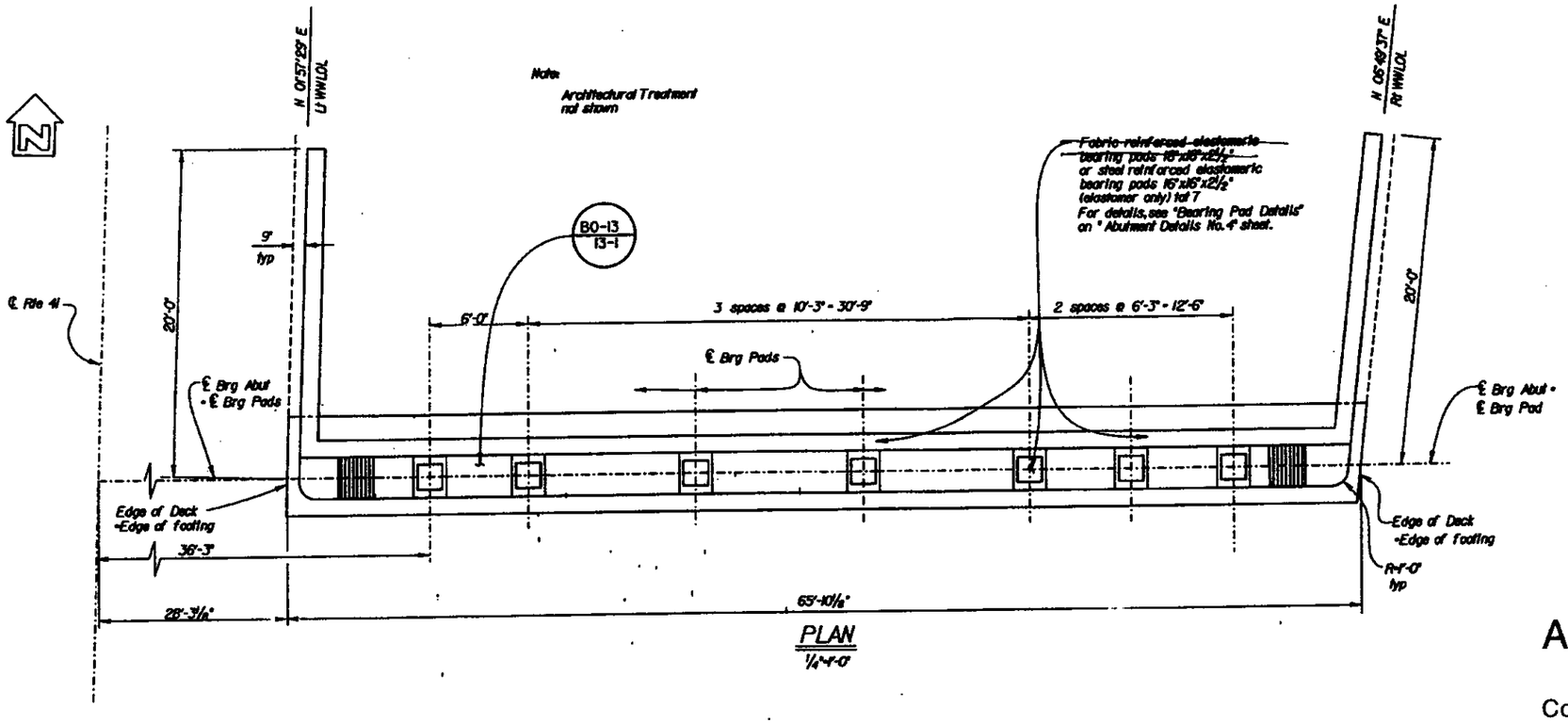
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41,99	R20.7/R22.1, 19.2/19.8	34	368

REGISTERED ENGINEER - CIVIL

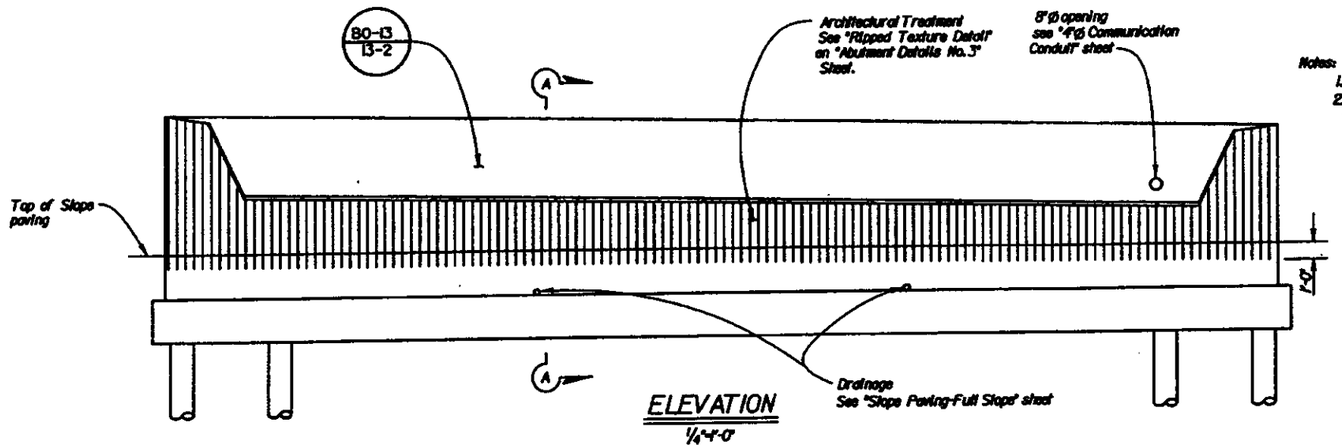
STANLEY KU No. 47488 Date 8-31-95 CIVIL

1-22-96
PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



PLAN
¼"=1'-0"



ELEVATION
¼"=1'-0"

ABUTMENT 2 - RIGHT BRIDGE

AS BUILT PLANS

Contract No. 06-342604
Contractor BENCO
Resident Engineer L. HICKINBOTHAM
Date of Completion 4/97
BY DAVID L. VALLEJOS

DESIGN	BY Tracy Phan	CHECKED Stanley Ku	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 8	BRIDGE NO. 42-253R/L; POST MILE R21.61
DETAILS	BY Nora Kelley	CHECKED Stanley Ku			
QUANTITIES	BY Tony Huang	CHECKED Steve Hao		CU 0807 EA 342601	

CHURCH AVENUE UNDERCROSSING
ABUTMENT LAYOUT NO. 2

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES

PLAN SHEET NO. 6 OF 28

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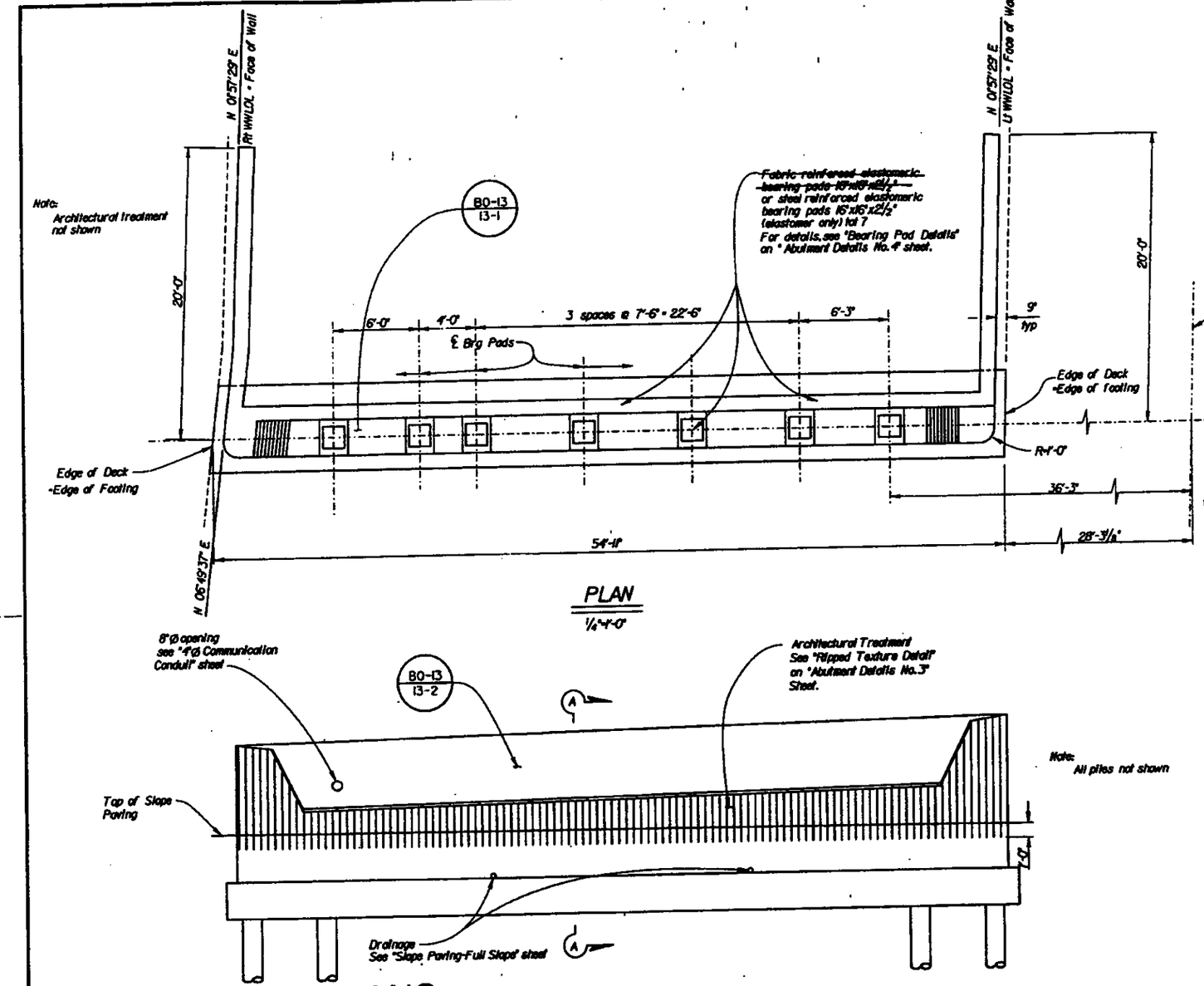
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41,99	R20.7/R22.1, 19.2/19.8	310	368

REGISTERED ENGINEER - CIVIL

STANLEY KU No. 47488 Exp. 12-31-96 CIVIL STATE OF CALIFORNIA

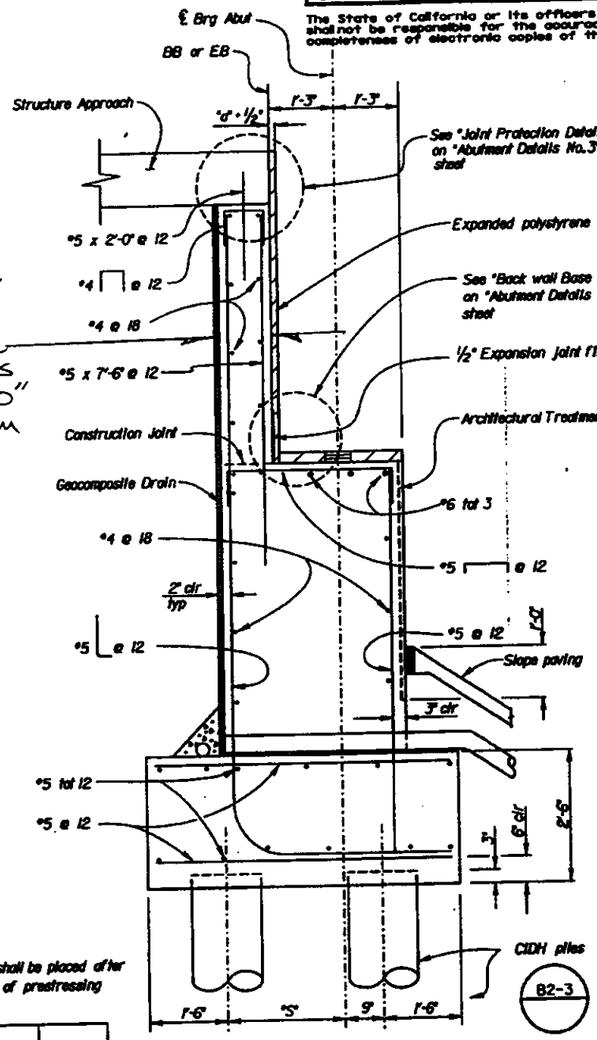
1-22-96
PLANS APPROVAL DATE

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PLAN
¼"-1'-0"

ELEVATION
¼"-1'-0"



Note:
Back wall shall be placed after completion of prestressing

	"S"
Left Bridge	2'-9"
Right Bridge	2'-3"

SECTION A-A
¾"-1'-0"

AS BUILT PLANS

Contract No. 06-342604
Contractor BENCO
Resident Engineer L. HICKINBOTHAM
Date of Completion 4/97
BY DAVID L. VALLEJOS

ABUTMENT 1 - RIGHT BRIDGE

DESIGN	BY Tracy Phan	CHECKED Stanley Ku	
DETAILS	BY Norm Kelley	CHECKED Stanley Ku	
QUANTITIES	BY Tony Huang	CHECKED Steve Hao	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 8

CU 0807
EA 342601

BRIDGE NO. 42-265R/L
POST MILE R21.61

CHURCH AVENUE UNDERCROSSING
ABUTMENT LAYOUT NO. 1

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY) | PLAN SHEET NO. 5 | OF 28

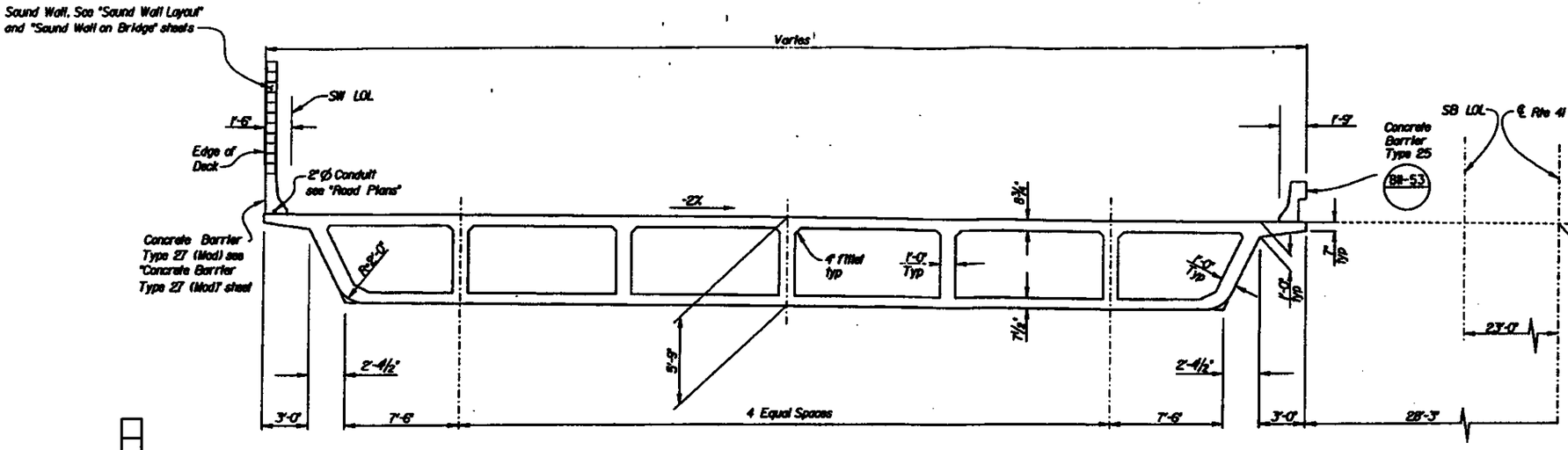
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41,99	R20.7/R22.4 19.2/19.8	349	368

REGISTERED ENGINEER - CIVIL

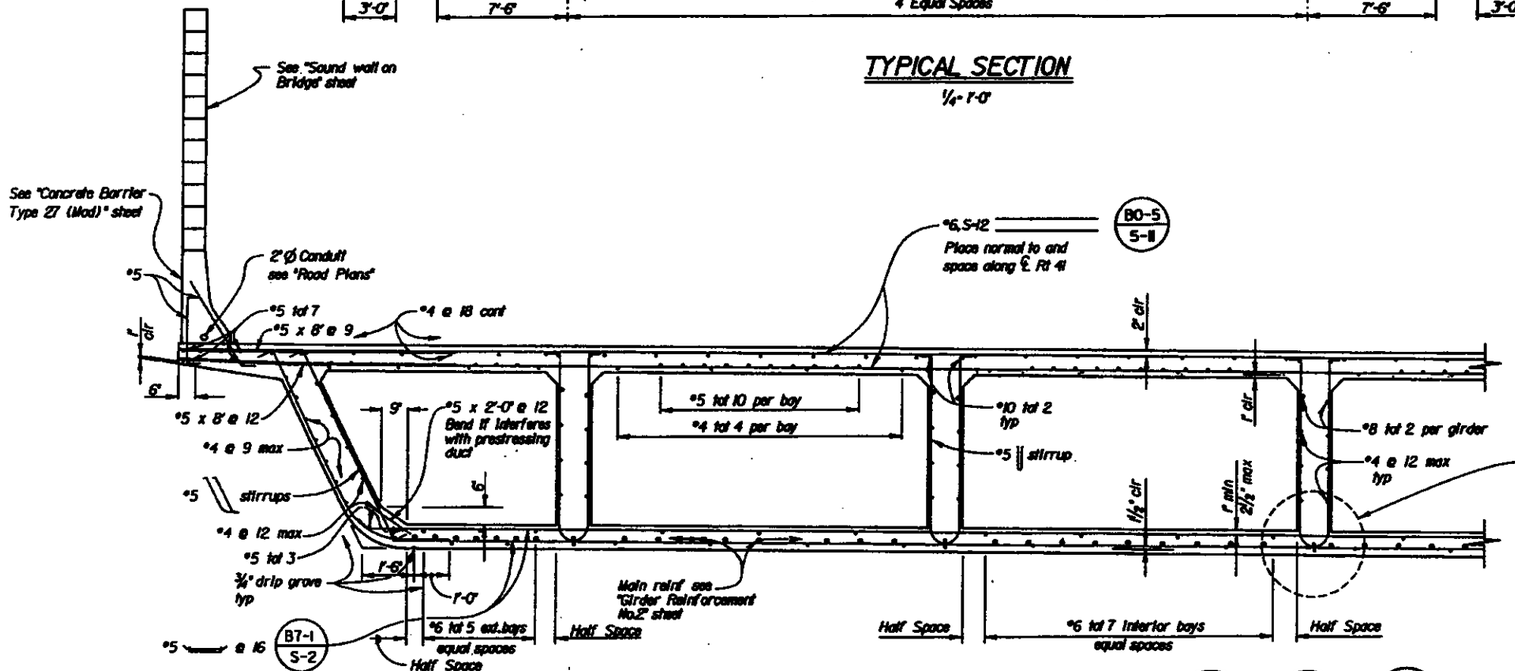
1-22-96
PLANS APPROVAL DATE

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TYPICAL SECTION

¼" = 1'-0"



PART TYPICAL SECTION

½" = 1'-0"

B0-5 B7-1 B8-5

LEFT BRIDGE

AS BUILT PLANS

Contract No. 06.342604
Contractor BENCO
Resident Engineer L. HICKINBOTHAM
Date of Completion 4/97
BY DAVID L. VALLEJOS
NO CHANGES ON THIS SHEET.

DESIGN	BM Brook	Stanley Ku	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 8	BRIDGE NO. 42-265R/L
DETAILS	Norm Kelley	Stanley Ku			POST MILE R21.8
QUANTITIES	Tony Huang	Steve Mao		CU 05107 EA 342601	CHURCH AVENUE UNDERCROSSING
					TYPICAL SECTION NO. 2

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

REVISED DATES (PRELIMINARY STAGE ONLY) | PLAN SHEET NO. | SHEET | OF
14 | 28

ClibPDF - www.fastio.com

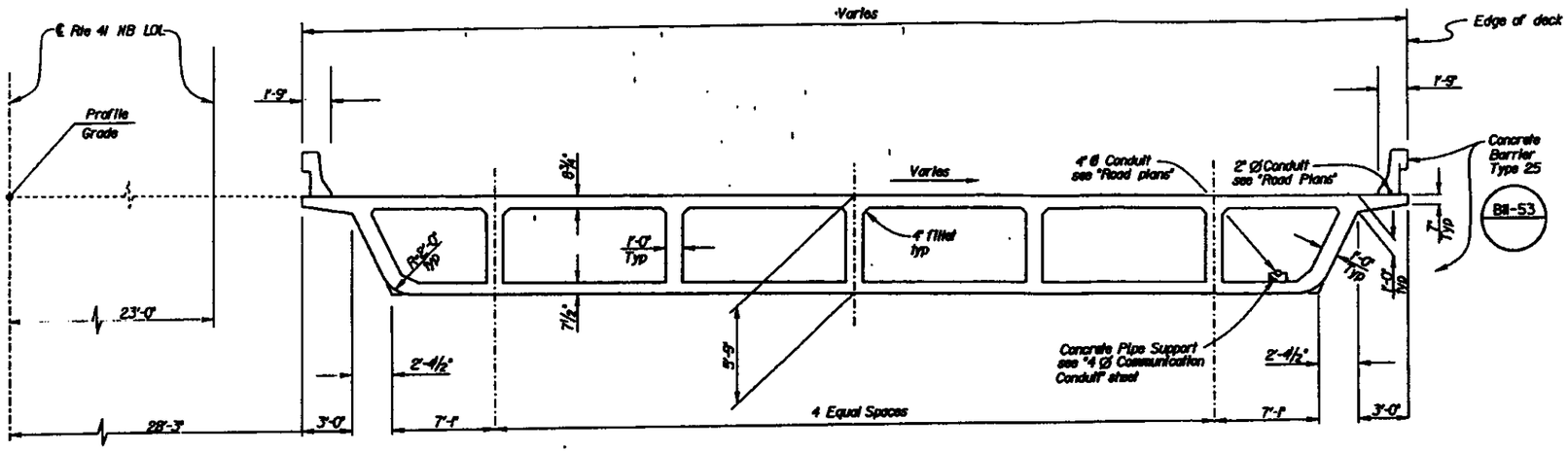
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41,99	R20.7/R22.4, 19.2/19.8	318	368

REGISTERED ENGINEER - CIVIL

STANLEY SU No. 41498 Date 12-31-95 CIVIL STATE OF CALIFORNIA

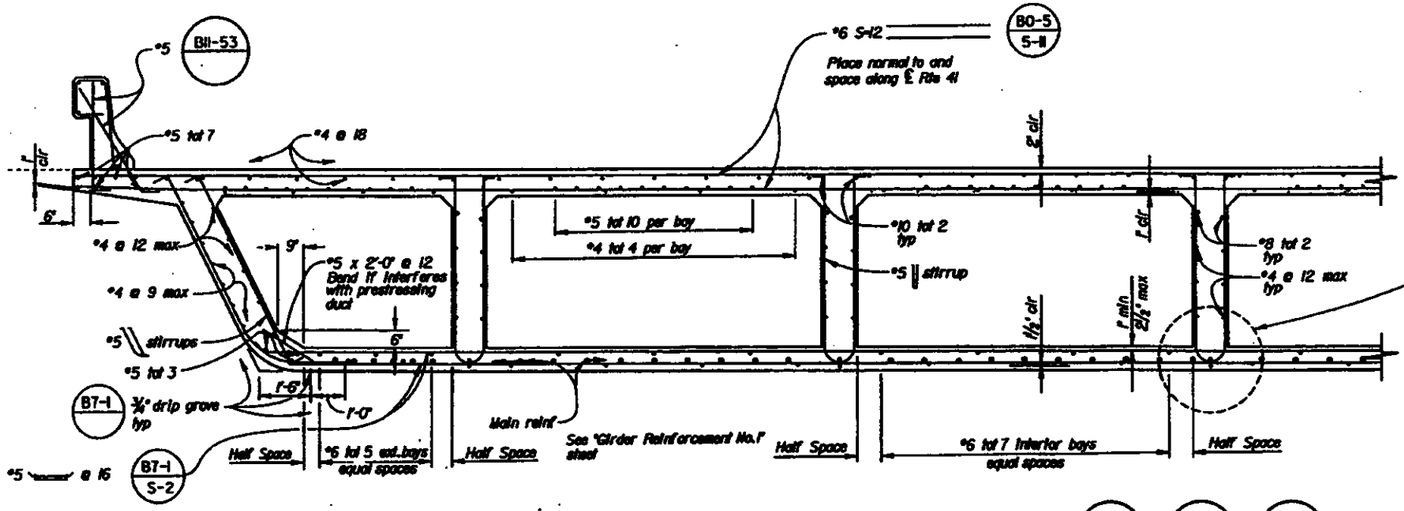
1-22-96
PLANS APPROVAL DATE

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TYPICAL SECTION

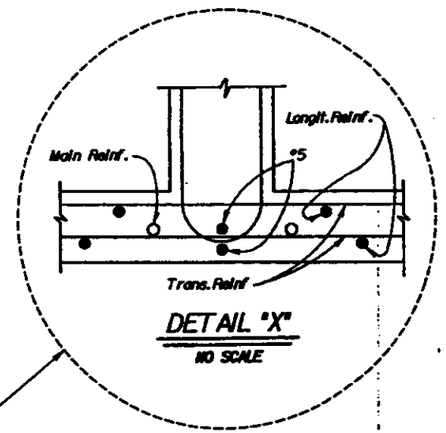
¼"-1'-0"



PART TYPICAL SECTION

½"-1'-0"

B0-5 B7-1 B8-5



DETAIL "X"

NO SCALE

RIGHT BRIDGE

AS BUILT PLANS

Contract No. 06-342604
Contractor BENCO
Resident Engineer L. HICKINBOTHAM
Date of Completion 4/97
BY DAVID L. VALLEJOS
NO CHANGES ON THIS SHEET.

DESIGN	BY Tracy Phan	CHECKED Stanley Su	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 8	BRIDGE NO. 42-253R/L
DETAILS	BY Norm Kelley	CHECKED Stanley Su			POST MILE R21.61
QUANTITIES	BY Terry Nuang	CHECKED Steve Rae		CU 05107 EA 342501	CHURCH AVENUE UNDERCROSSING
					TYPICAL SECTION NO. 1

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DESIGNED POSTS DRAWING EARLIER REVISION DATES

REVISION DATES SUBSEQUENT STATE APPROVAL

PLAN SHEET NO. 13 SHEET OF 28

ClibPDF - www.fastio.com

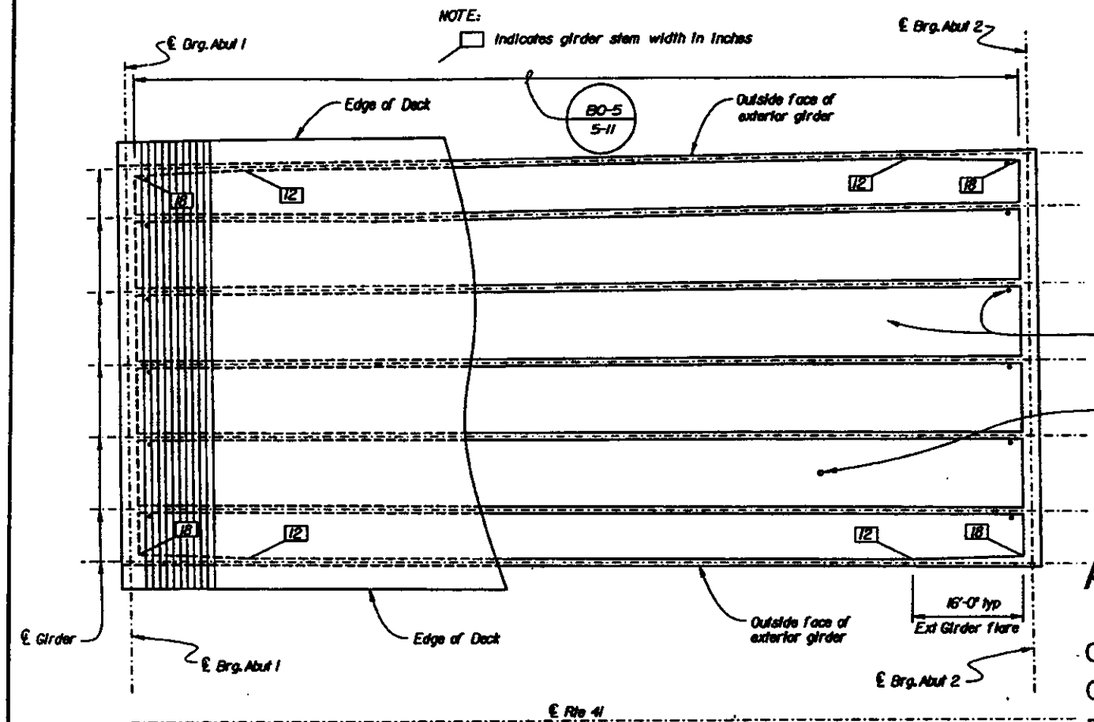
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41,99	R20.7/R22.4 19.2/19.8	321	368

REGISTERED ENGINEER - CIVIL

1-22-96
PLANS APPROVAL DATE

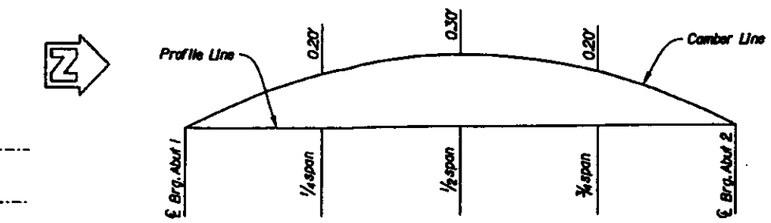
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

NOTE: ☐ Indicates girder stem width in inches



GIRDER LAYOUT

1"-10'-0"



CAMBER DIAGRAM

No Scale

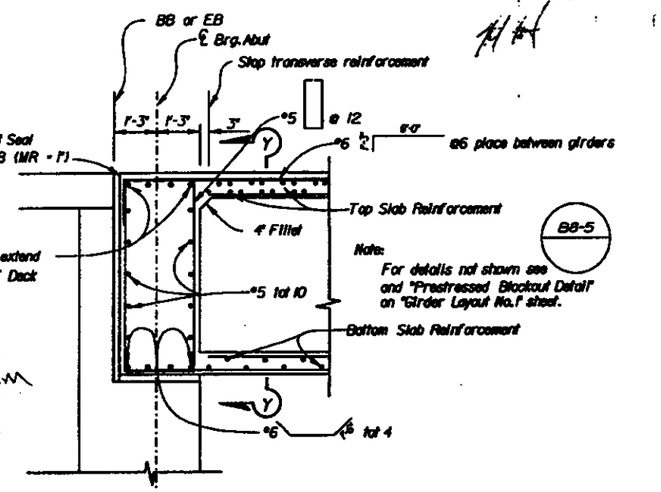
Does not include allowance for falsework settlement

ADDENDUM #1

AND NUMBER

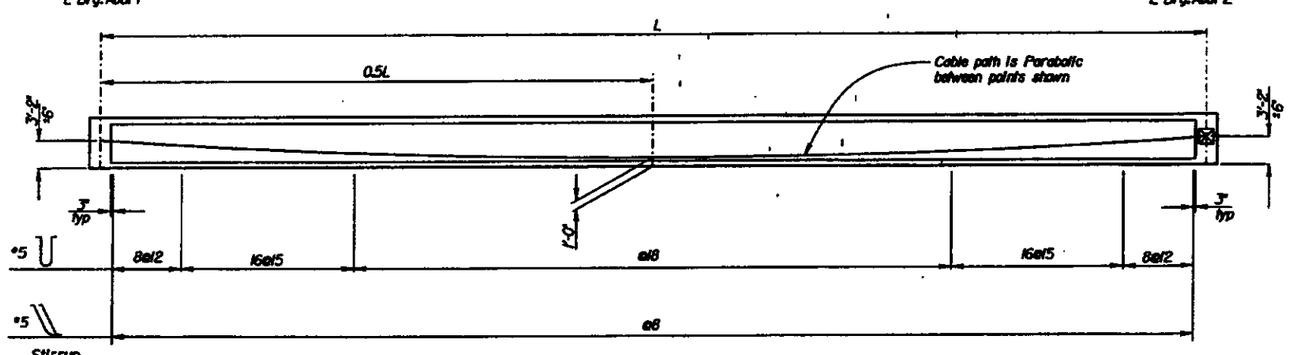
AS BUILT PLANS

Contract No. 06-342604
Contractor BENCO
Resident Engineer L. HICKINBOTTHAM
Date of Completion 4/97
BY DAVID L. VALLEJOS



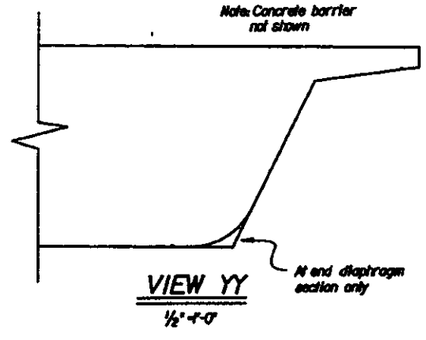
END DIAPHRAGM

½"-1'-0"



LONGITUDINAL SECTION

⅛"-1'-0"



VIEW YY

½"-1'-0"

PRESTRESSING NOTES

270 KSI Low Relaxation Strands

P_{jack} = 1470O kips
Anchor Set = 3/8 in
Total Number of Girders = 7

Distribution of prestress force (Pjack) between girders shall not exceed the ratio of 3:2. Maximum final force variation between girders shall not exceed 725 kips.
Concrete: f'_c = 4000 psi @ 28 days
f'_{ci} = 3500 psi @ time of stressing
Contractor shall submit elongation calculations based on initial stress at
β = 0.975 times jacking stress.
Jacking stress = 0.74 f's max
One-end stressing shall be performed from either end.

LEFT BRIDGE

DESIGN	BY Bill Brock	CHECKED Stanley Ku	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 8	BRIDGE NO. 42-265R/L
DETAILS	BY Norm Kelley	CHECKED Stanley Ku			POST MILE R21.61
QUANTITIES	BY Tony Ruang	CHECKED Steve Hao		CU 06253 EA 342604	CHURCH AVENUE UNDERCROSSING
					GIRDER LAYOUT NO. 2

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DESIGNATED PRINTS BEARING EARLIER REVISION DATES —

REVISION DATES (PRELIMINARY STAGE ONLY)

PLAN SHEET NO. 16 SHEET OF 28

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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41,99	R20.7/R22.4, 19.2/19.8	380	368

REGISTERED ENGINEER - CIVIL

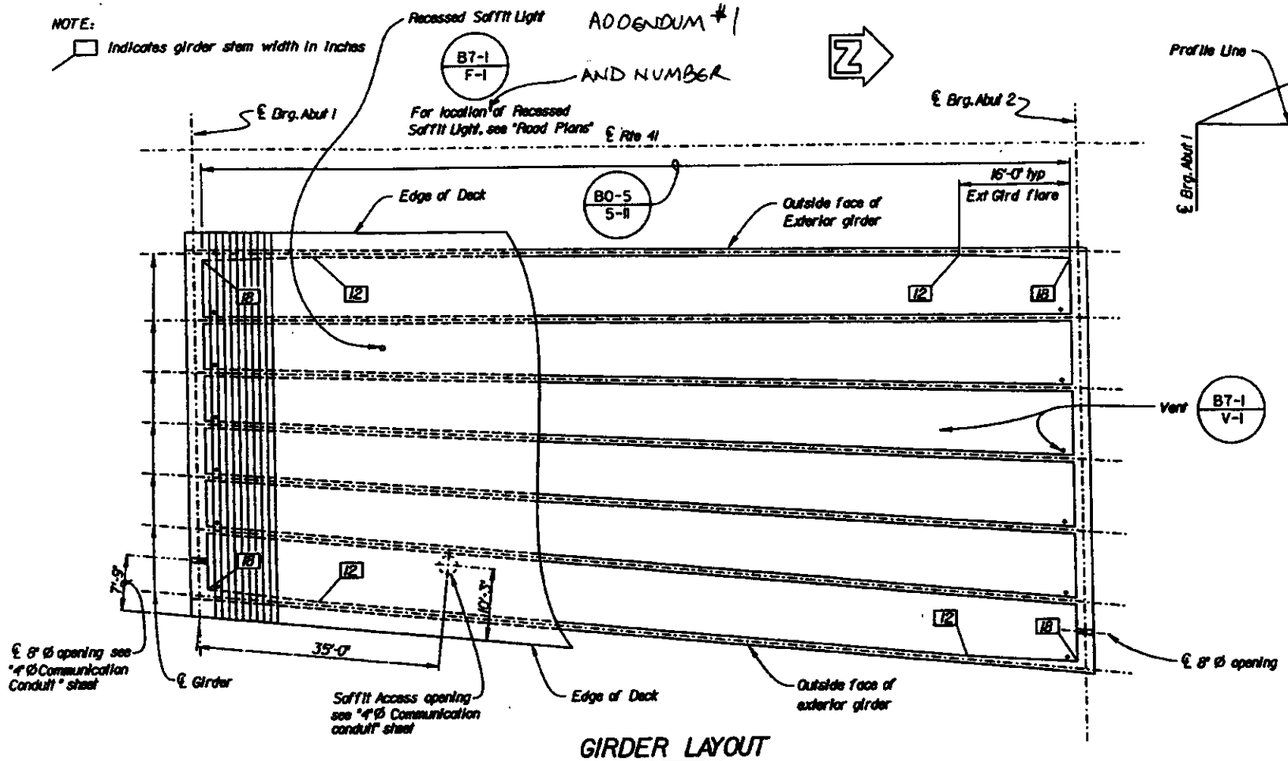
STANLEY KU, No. 47498, Date 12-3-95, CIVIL, STATE OF CALIFORNIA

1-22-96
PLANS APPROVAL DATE

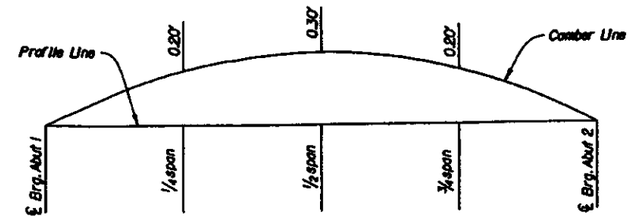
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

NOTE:
□ Indicates girder stem width in inches

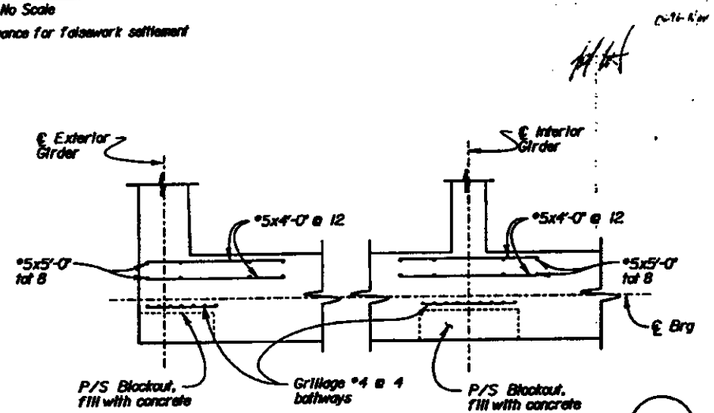
ADDENDUM #1



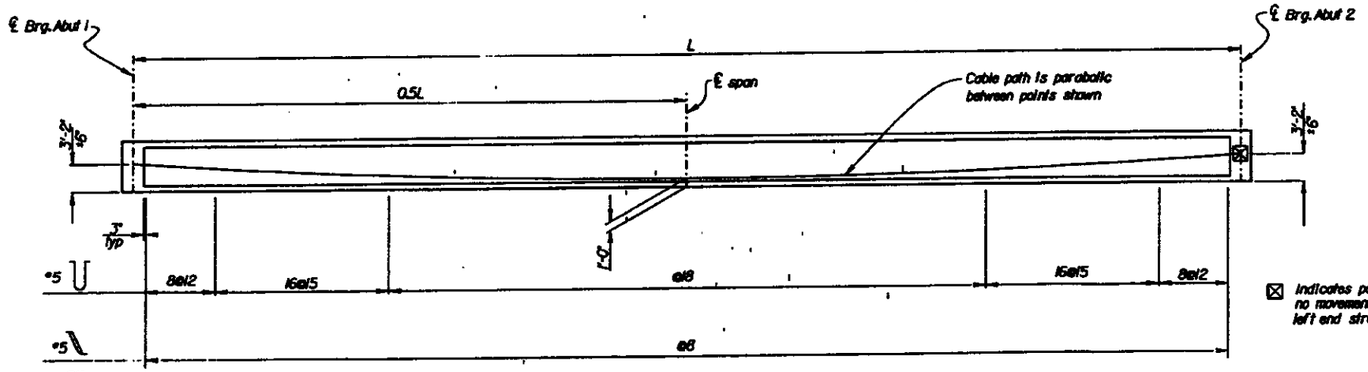
GIRDER LAYOUT
1"=10'-0"



CAMBER DIAGRAM
No Scale
Does not include allowance for falsework settlement



PLAN-PRESTRESS BLOCKOUT
½" = 1'-0"



LONGITUDINAL SECTION
1/8"-1'-0"

PRESTRESSING NOTES

270 KSI Low Relaxation Strand:

P_{jack} = 13300 kips

Anchor Set = 3/8 in

Total Number of Girders = 7

Distribution of prestress force (Pjack) between girders shall not exceed the ratio of 3:2.
Maximum final force variation between girders shall not exceed 725 kips.
Concrete: f'_c = 4000 psi @ 28 days
f'_{ci} = 3500 psi @ time of stressing
Contractor shall submit elongation calculations based on initial stress at
@ = 0.973 times jacking stress.
Jacking stress = 0.74 f's max
One-end stressing shall be performed from either end

AS BUILT PLANS

RIGHT BRIDGE

Contract No. 06-342604
Contractor BENCO
Resident Engineer L. HICKINBOTHAM
Date of Completion 4/97
BY DAVID L. VALLEJOS

DESIGN	BY Tracy Phan	CHECKED Stanley Ku	
DETAILS	BY Nora Kelley	CHECKED Stanley Ku	
QUANTITIES	BY Tony Huang	CHECKED Steve Hao	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
DIVISION OF STRUCTURES
STRUCTURE DESIGN 8

CU 0607
EA 34260

BRIDGE NO. 42-265R/L
POST MILE R21.61

CHURCH AVENUE UNDERCROSSING
GIRDER LAYOUT NO. 1

SHEET 15 OF 28

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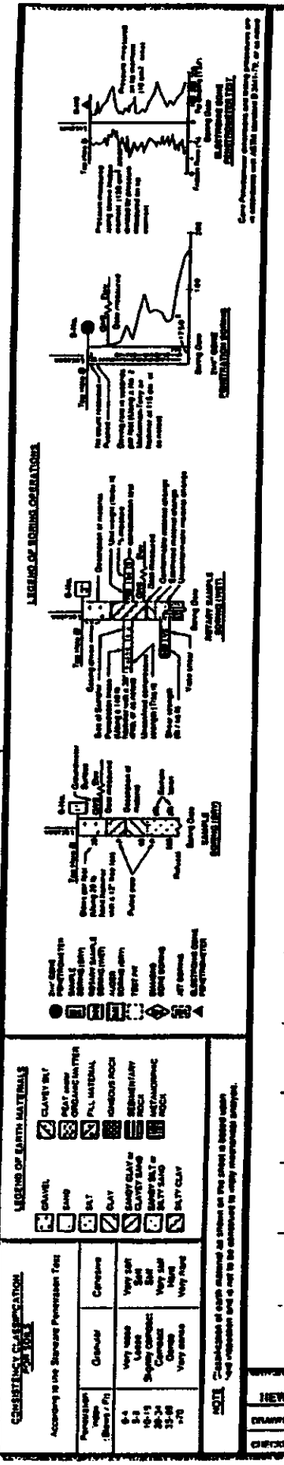
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41,99	R20.7/R22.1, R9.2/R9.8	333	368

CERTIFIED ENGINEERING GEOLOGIST

R.M. FOX No. 79 Reg. 1-31-98 CERTIFIED ENGINEERING GEOLOGIST STATE OF CALIFORNIA

1-22-96
PLANS APPROVAL DATE

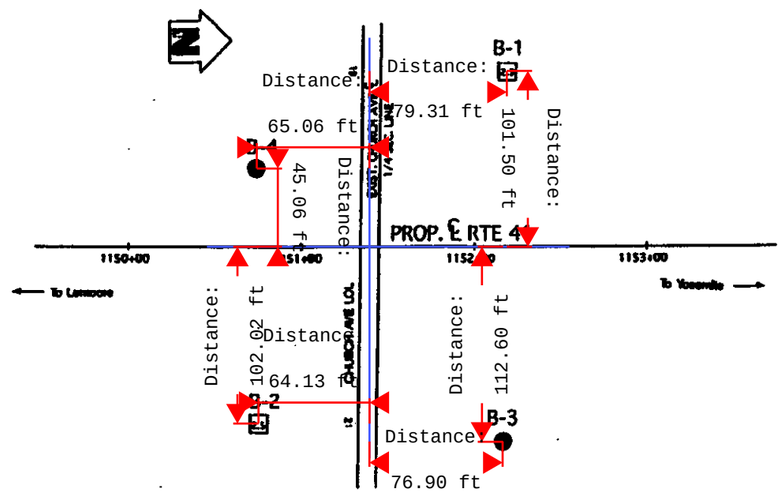
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



BENCH MARK

BM 125-B-34 Elev. 278.591
N 503,616.760
E 1,770,158.220
T-BAR/CAP FLUSH ON S GUTTER LINE
CHURCH AVE IN ℄ KINK ST.

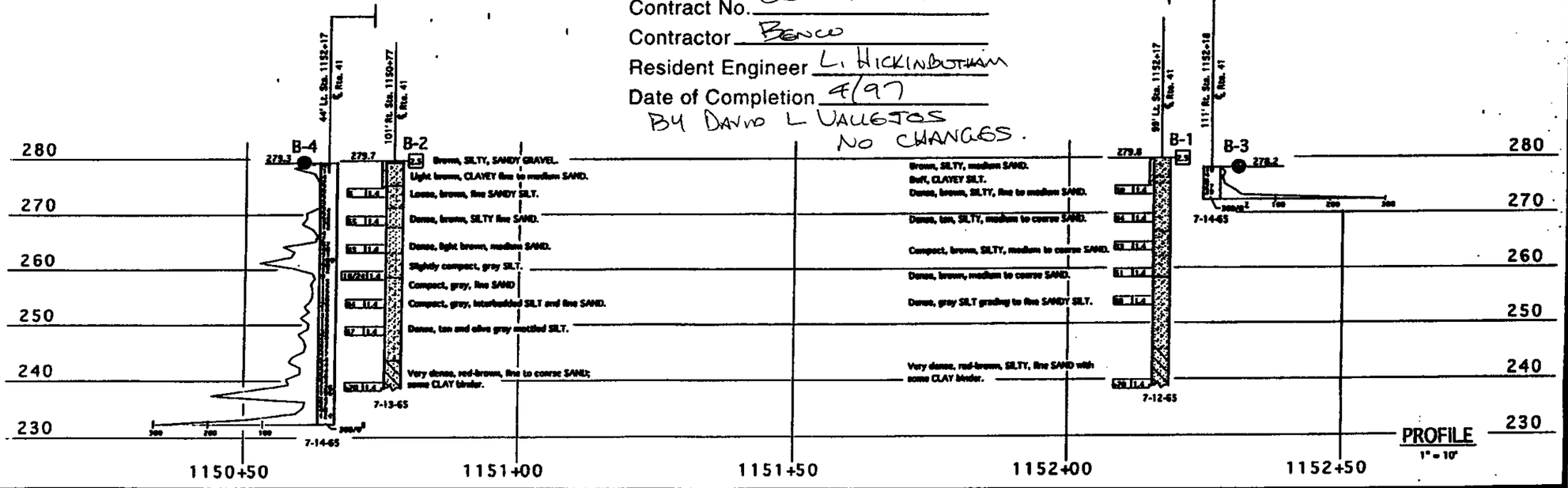
NOTES:
1. PROPOSED C/L RTE. 41 AS DEPICTED ON GENERAL PLAN DATED OCTOBER 5, 1993 USED FOR BOREHOLE STATIONING.
2. NO GROUND WATER ENCOUNTERED DURING FIELD INVESTIGATION.



PLAN
1" = 40'

AS BUILT PLANS

Contract No. 06-342604
Contractor Benco
Resident Engineer L. Hickinbotham
Date of Completion 4/97
BY David L Vallejos
NO CHANGES.



PROFILE
1" = 10'

DIVISION OF NEW TECHNOLOGY, MATERIALS AND RESEARCH	OFFICE OF ENGINEERING GEOLOGY	FIELD INVESTIGATION BY: D. COGLIAN	State of CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN	BRIDGE NO. 42-265R/L; POST MILE R21.61
DRAWN BY Fred Gamerra 2/95					CHURCH AVENUE UNDERCROSSING
CHECKED BY				CU 05107 EA 342601	LOG OF TEST BORINGS

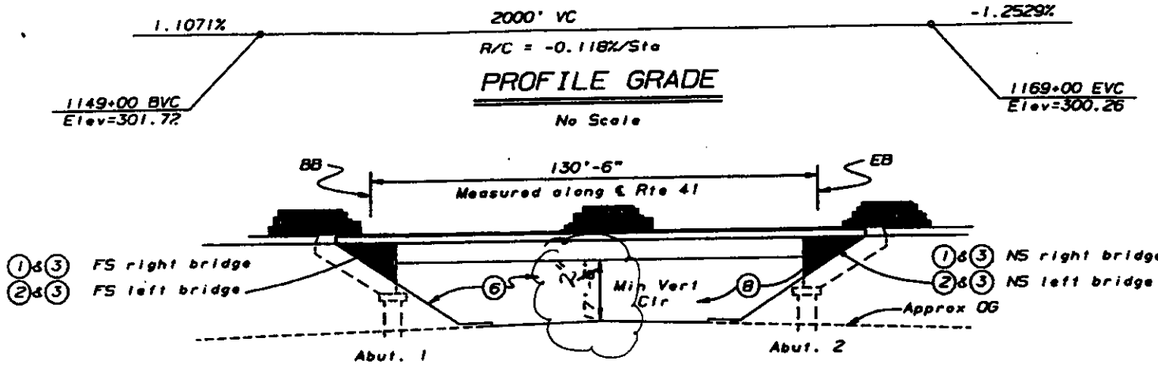
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

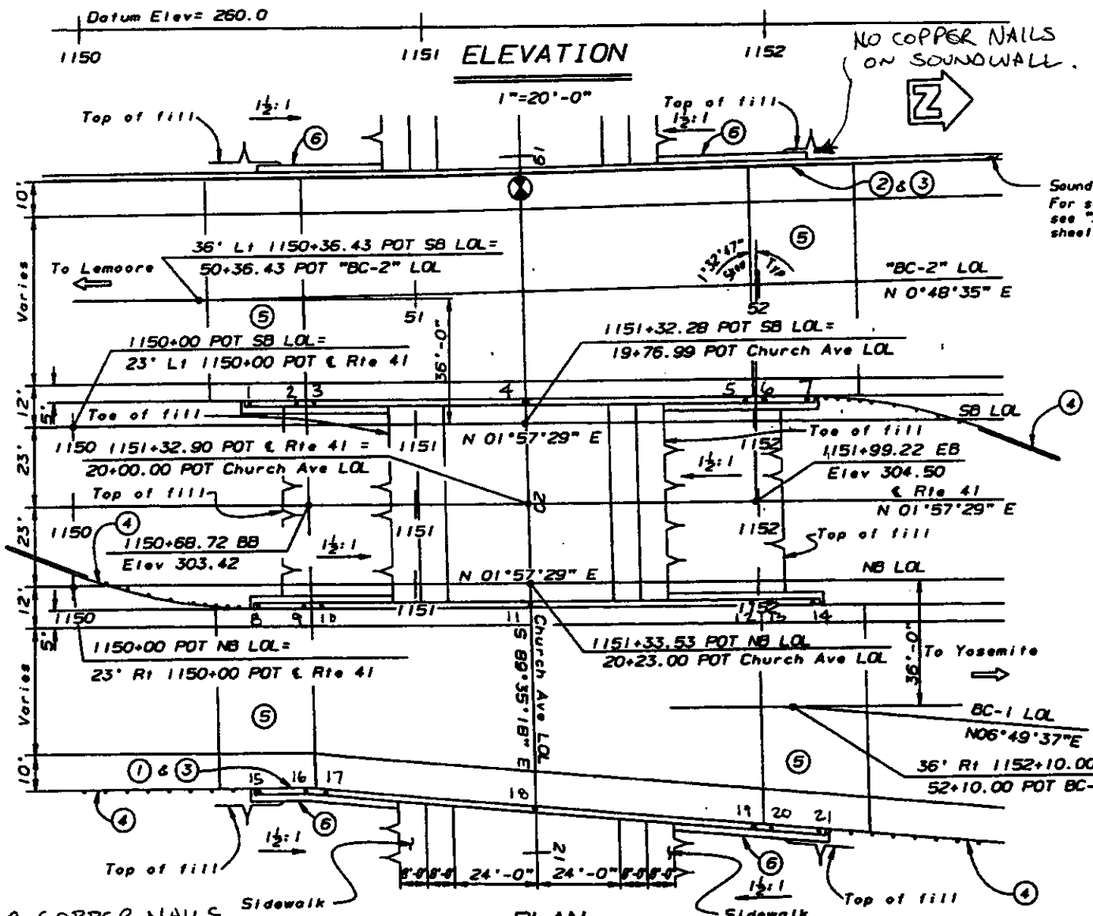
DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 28 OF 28

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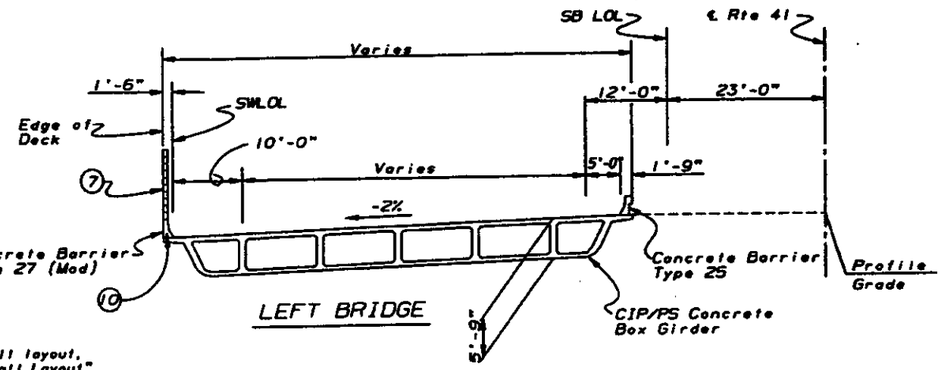


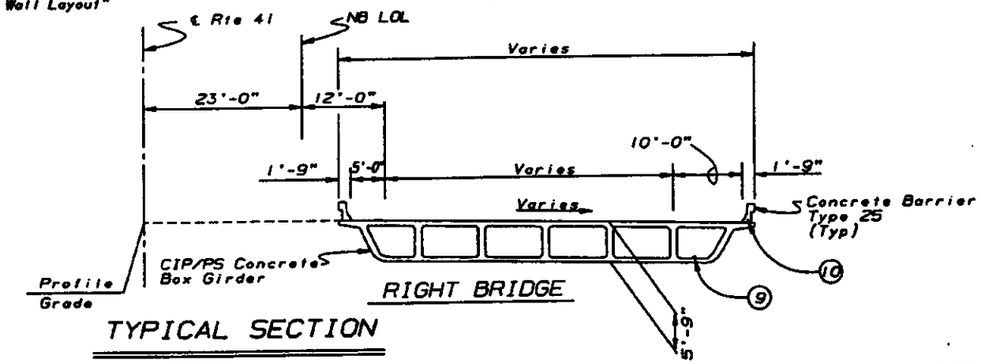
* FOR COPPER NAILS FINAL ELEVATION, SEE SHEET No. 307.

Standard Plan Sheet No.

Detail No.

Note: For General Notes, Index to Plans, Standard Plans List and Pile Data, see "Index to Plans" sheet.





TYPICAL SECTION

1"=10'0"

NOTES:

1. Paint Br. No. 42-265R
2. Paint Br. No. 42-265L
3. Paint "Church Ave. U.C."
4. MBGR, see "Road Plans"
5. Structure Approach Type N(30S)
6. Slope Paving
7. Sound Wall
8. Architectural Treatment
9. 4"Ø Conduit, see "Road Plans"
10. 2"Ø Conduit, see "Road Plans"

QUANTITIES

STRUCTURE EXCAVATION (BRIDGE)	635	CY
STRUCTURE BACKFILL (BRIDGE)	436	CY
16" CAST-IN-DRILLED-HOLE CONCRETE PILING	4,593	LF
PRESTRESSING CAST-IN-PLACE CONCRETE	LUMP SUM	
STRUCTURAL CONCRETE, BRIDGE FOOTING	180	CY
STRUCTURAL CONCRETE, BRIDGE	2,446	CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N)	280	CY
RIPPED TEXTURE (REINFORCING BAR)	1,310	SQFT
SOUND WALL (BARRIER) (MASONRY BLOCK)	1,240	SQFT
JOINT SEAL (TYPE B-MR 1")	260	LF
BAR REINFORCING STEEL (BRIDGE)	312,500	LB
SLOPE PAVING (CONCRETE)	173	CY
CONCRETE BARRIER (TYPE 25)	504	LF
CONCRETE BARRIER (TYPE 27 MODIFIED)	168	LF

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41,99	R20.7/R22.1, 19.2/19.8	306	368

REGISTERED ENGINEER - CIVIL

STANLEY KU No. 47488 Exp. 12-31-98 CIVIL

1-22-96
PLANS APPROVAL DATE

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AS BUILT PLANS
06-342604
Contractor BENCO
Resident Engineer L. HICKINBOTHAM 4/97
Date of Completion
BY DAVID L. VALLEJOS

RECEIVED
FEB 09 1998
BY:

DESIGN	BY Tracy Phan / W. Brook	CHECKED Stanley Ku	LOAD FACTOR DESIGN	LIVE LOADING HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
DETAILS	BY Nora Kelley	CHECKED Stanley Ku	LAYOUT	BY Stanley Ku	CHECKED W. Brook
QUANTITIES	BY Tony Huang	CHECKED Steve Hao	SPECIFICATIONS	BY	SIGNED AND SEALED

DESIGN ENGINEER

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 8

CU 06107
EA 34260!

BRIDGE NO. 42-265R/L
POST MILE R21.61

CHURCH AVENUE UNDERCROSSING
GENERAL PLAN

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 1 OF 28

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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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REGISTERED ENGINEER - CIVIL

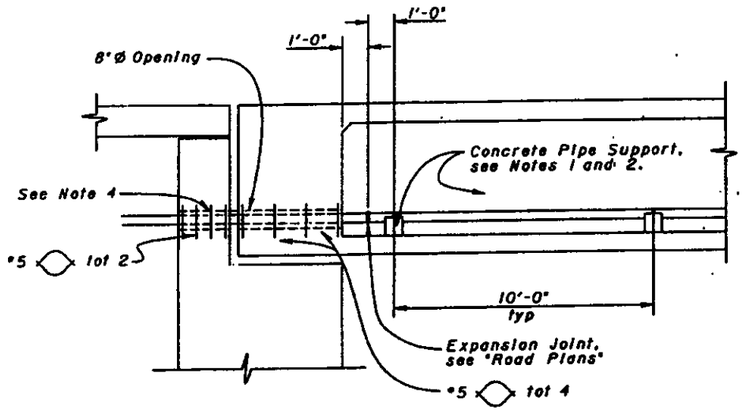
STANLEY KU No. 47488 Exp. 12-31-95 CIVIL

1-22-96
PLANS APPROVAL DATE

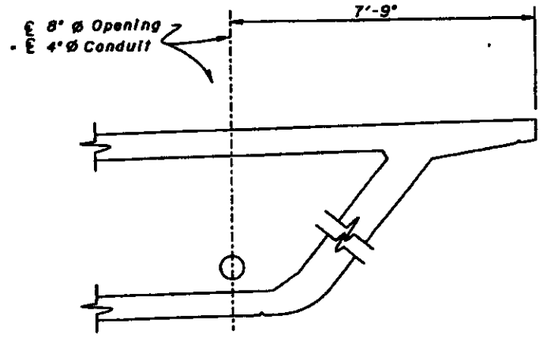
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AS BUILT PLANS

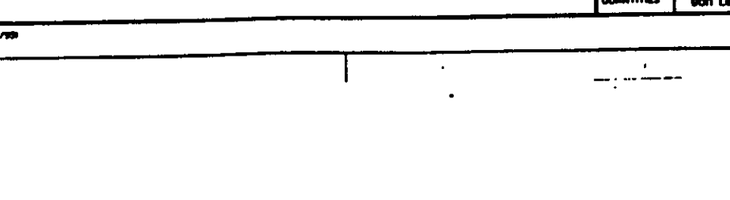
Contract No. 06-342604
Contractor BENCO
Resident Engineer L. HUCKABOTHAM
Date of Completion 4/97
BY DAVID L. VALLEJOS
NO CHANGES ON THIS SHEET.



BOX GIRDER INSTALLATION
3/8" = 1'-0"



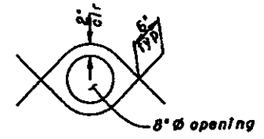
OPENING LOCATION
1/2" = 1'-0"



Note:
For location see "Girder Layout No.1" sheet. Adjust reinforcement to clear opening. Plate must be installed before top deck is placed.

SOFFIT ACCESS OPENING
3/4" = 1'-0"

CONCRETE PIPE SUPPORT
3" = 1'-0"



8" Ø OPENING
1" = 1'-0"

Notes:
1. Pipe clamp shall be shimmed with steel washer plate to provide 1/4" clearance between pipe and clamp.
2. Maximum spacing between pipe supports shall be 10' unless otherwise detailed on the plans.
3. For details not shown, see "Road Plans".
4. Seal conduit at abutments with concrete or mortar, after tightly wrapping conduit with 2 layers of 15# building paper. Seal to be placed after prestressing is completed.

DESIGN	BY Don Lee	CHECKED Stanley Ku	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 8	BRIDGE NO. 42-265R/L
DETAILS	BY David Forbes	CHECKED Stanley Ku			POST MILE R25.51
QUANTITIES	BY Don Lee	CHECKED Robert Nguyen		CU 0807 EA 342601	CHURCH AVENUE UNDERCROSSING
					4" Ø COMMUNICATION CONDUIT

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3

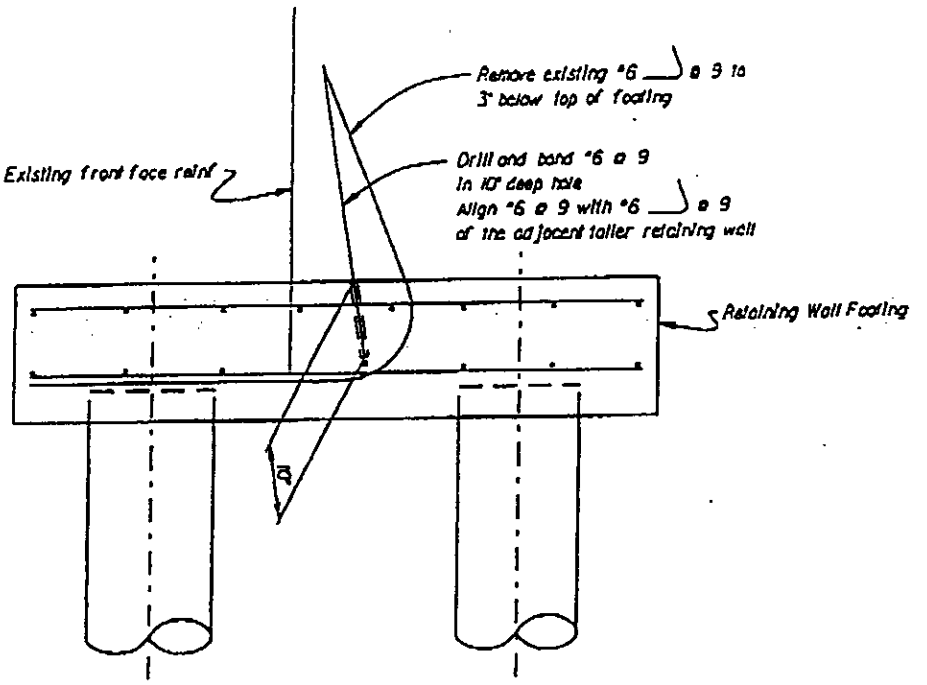
DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY PLANS ONLY)

PLANS SHEET NO. 19 SHEET OF 28

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REGISTERED PROFESSIONAL ENGINEER
STANLEY KU
No. 47498
Exp. 12-31-99
CIVIL
STATE OF CALIFORNIA



SECTION OF SHORTER RETAINING WALL

½" = 1'-0"

CONTRACT 1007-6
CHANG ORDER NO. 31
SHEET 2 OF 2

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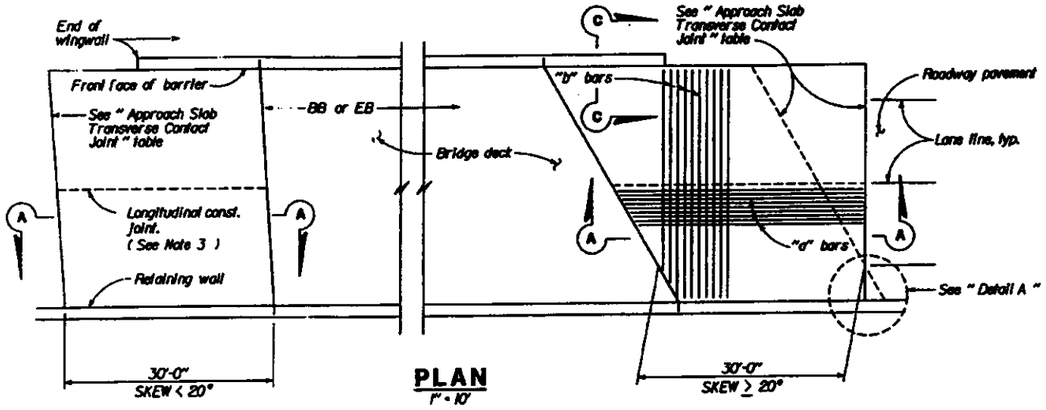
RELEASED 11-2-92

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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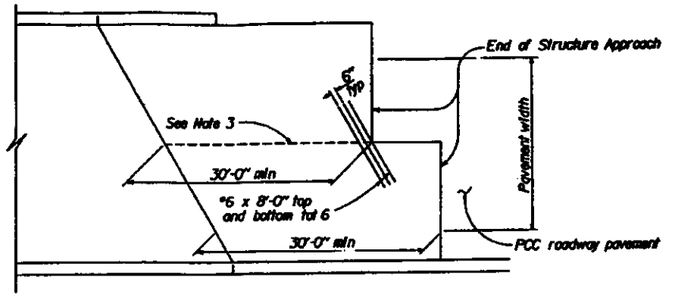
REGISTERED ENGINEER - CIVIL — STANLEY SU — No. 47488 — Exp. 12-31-96 — CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

1-22-96
PLANS APPROVAL DATE

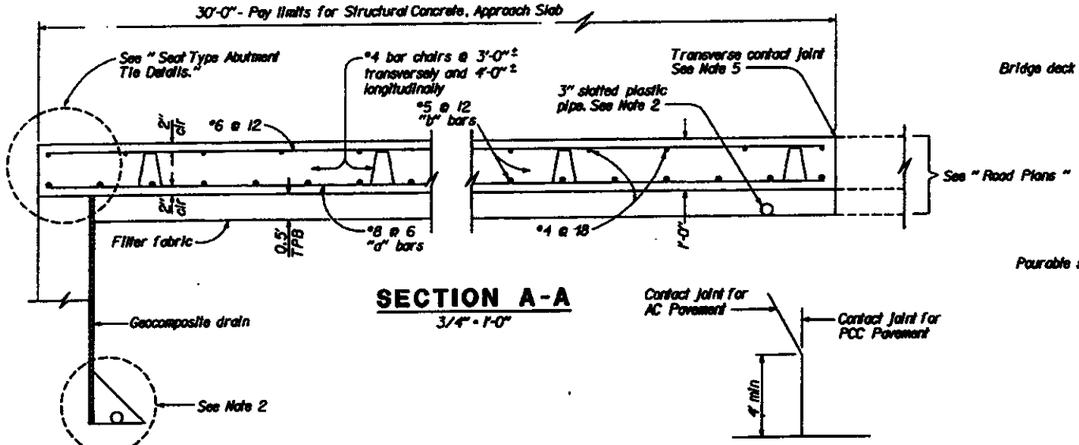
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PLAN
1" = 10'

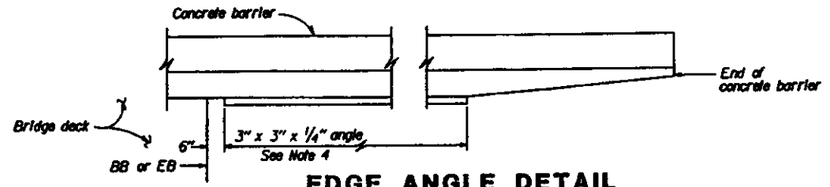


STRUCTURE APPROACH - END STAGGER DETAIL
NO SCALE

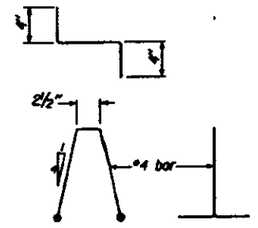


SECTION A-A
3/4" = 1'-0"

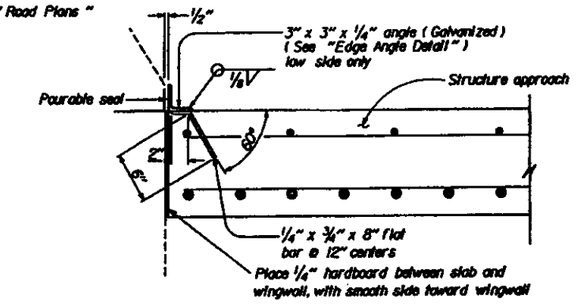
DETAIL A
NO SCALE



EDGE ANGLE DETAIL
1/2" = 1'-0"

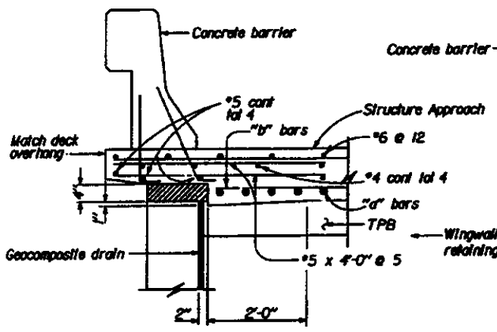


BAR CHAIR DETAIL
1½" = 1'-0"

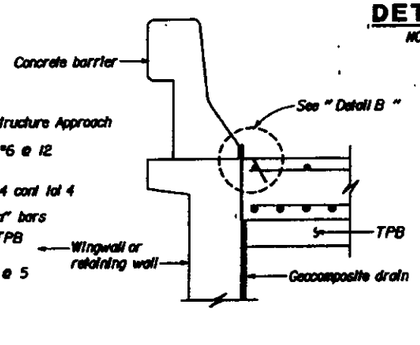


DETAIL B
1½" = 1'-0"

APPROACH SLAB TRANSVERSE CONTACT JOINT		
APPROACH SKEW	WITH AC ROADWAY PAVEMENT	WITH PCC ROADWAY PAVEMENT
< 20°	Parallel to face of paving notch	Parallel to face of paving notch
20° - 45°	Parallel to face of P H use (Detail A)	Stagger lines 24' to 36' apart.
> 45°	Parallel to face of P H use (Detail A)	Stagger at each lane line.

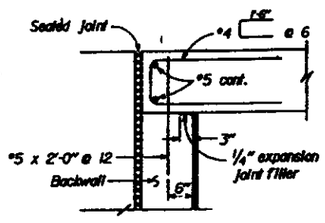


TYPE E-1

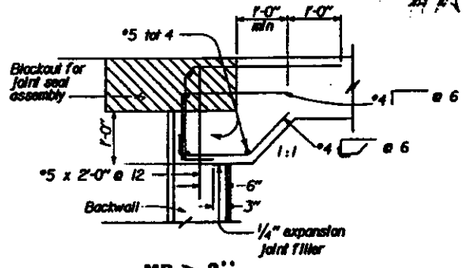


TYPE E-2

SECTION C-C
3/4" = 1'-0"
(Type E-1 to be used, unless otherwise shown on plans.)



MR ≤ 2"



MR > 2"

SEAT TYPE ABUTMENT TIE DETAILS (SEE NOTE 1)
3/4" = 1'-0"

NOTES:

1. For details not shown, see Structure Plans. For MR ≤ 2", adjust bar reinforcement to clear a sawcut for sealed joint, when required.
2. For drainage details, see " Structure Approach Drainage Details " sheet.
3. Longitudinal construction joints, when permitted by the Engineer, shall be located on lane lines.
4. End angle at beginning of barrier transition, end of wingwall or end of structure approach, as applicable.
5. For transverse contact joint with new PCC paving, refer to Standard Plan A35-A.
6. At the contractor's option, approach slab transverse reinforcement may be placed parallel to paving notch. Spacing of transverse reinforcement is measured along ℄ roadway.

▨ Remove all polystyrene.

STANDARD DRAWING				
FILE NO. XS 22-16	DESIGN	BY M. Traffalis	CHECKED E. Thorkildsen	APPROVED / RECOMMENDED BY
DESIGN DATE 8/92	DETAILS	BY R. Yee	CHECKED E. Thorkildsen	DESIGN SUPERVISOR
	SUBMITTED BY	M. Ho		

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN

CU 06107
EA 342601

BRIDGE NO.	42-265R/L
POST MILE	R2L61

CHURCH AVENUE UNDERCROSSING
STRUCTURE APPROACH TYPE N(30S)

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 22 OF 28

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

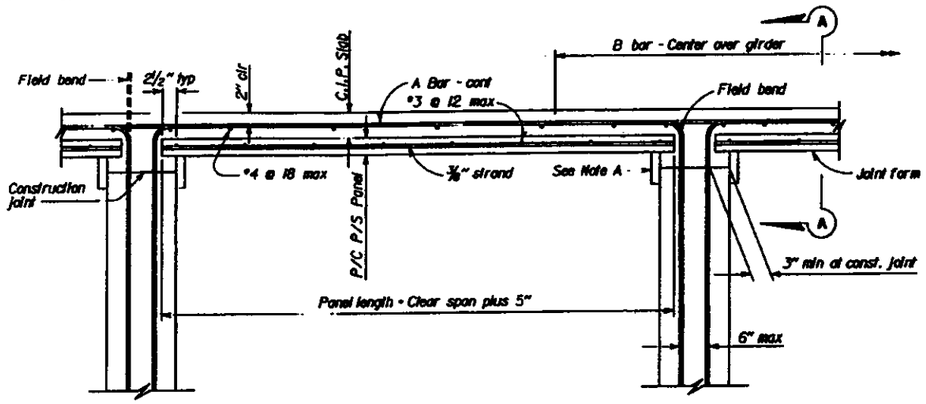
DS OSD 2417A (CADD 4/95)

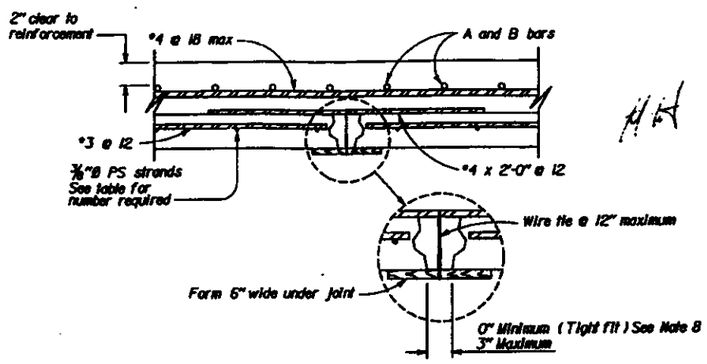
XS22S6.DGN

AS BUILT PLANS
NO CHANGES.
BY DAVID L. VALLEJO
Date of Completion 4/97
Resident Engineer L. HICKENBOTTOM
Contractor Benco
Contract No. 06-342604

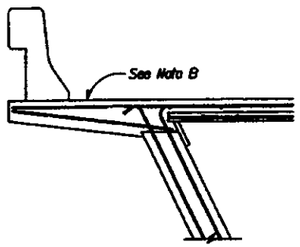
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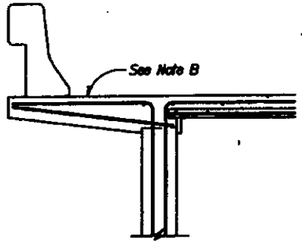
RELEASED 5-6-93





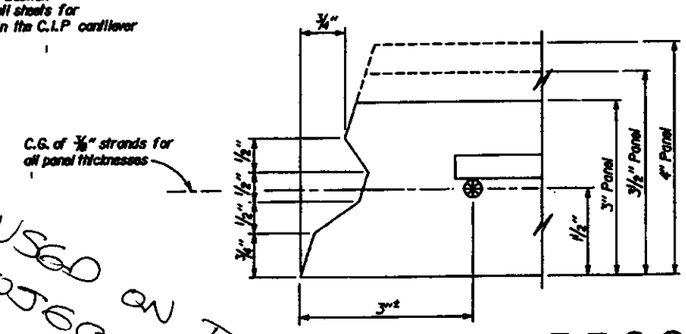
SECTION A-A





NOTE A - Support details for panels to be submitted to the engineer for review

NOTE B - See "Typical Section" on other detail sheets for reinforcing in the C.I.P cantilever



EDGE DETAIL

NOT USED ON PROJECT.

ALL PANELS				3" PANEL THICKNESS PANEL WT = 39#/SF				
SPAN ℄ GIRDER TO ℄ GIRDER	TOTAL SLAB THICKNESS (IN)	"A" BARS IN TOP OF C.I.P. SLAB CONT.	"B" BARS IN TOP OF C.I.P. SLAB SHORT BARS	C.I.P. SLAB THICKNESS (IN)		MIN. NO. OF ⅜" STRAND IN PANEL WIDTH		
				●		4'	6'	8'
6'-0"	7½"	#5 @ 12	3'-10"	11	4½"	6	9	12
6'-6"	7½"	#5 @ 12	4'-0"	11	4½"	6	9	12
7'-0"	7½"	#5 @ 12	4'-1"	11	4½"	6	9	12
7'-6"	7½"	#5 @ 12	4'-3"	11	4½"	6	9	12
8'-0"	7⅝"	#5 @ 12	4'-5"	14	4⅝"	6	9	12
8'-6"	7¾"	#5 @ 10	4'-7"	14	4¾"	7	10	14
9'-0"	8"	#5 @ 10	4'-9"	14	5"	8	12	16
9'-6"	8⅛"	#5 @ 10	4'-10"	14	5⅛"	9	13	17
10'-0"	8⅜"	#5 @ 10	5'-0"	14	5⅜"	10	15	20
10'-6"	8½"	#5 @ 10	5'-2"	14	5½"	11	16	22
11'-0"	8⅝"	#6 @ 12	5'-4"					
11'-6"	8⅞"	#6 @ 12	5'-5"					
12'-0"	9"	#6 @ 12	5'-7"					
12'-6"	9⅛"	#6 @ 12	5'-9"					
13'-0"	9⅜"	#6 @ 12	5'-11"					
13'-6"	9½"	#6 @ 12	6'-1"					
14'-0"	9¾"	#6 @ 12	6'-3"					
14'-6"	9⅞"	#6 @ 12	6'-4"					
15'-0"	10⅛"	#6 @ 12	6'-6"					

3½" PANEL THICKNESS PANEL WT = 45#/SF					
C.I.P. SLAB THICKNESS (IN)		MIN. NO. OF ⅜" STRAND IN PANEL WIDTH			
●		4'	6'	8'	
10	4⅛"	6	9	12	
10	4¼"	6	9	12	
11	4½"	6	9	12	
14	4⅝"	6	9	12	
14	4⅞"	7	10	13	
14	5"	7	11	14	
14	5⅛"	8	12	15	
14	5¼"	9	13	17	
14	5⅜"	10	14	18	
14	5½"	10	15	20	
14	5⅝"	11	17	22	

4" PANEL THICKNESS PANEL WT = 52#/SF				
C.I.P. SLAB THICKNESS (IN)		MIN. NO. OF ⅜" STRAND IN PANEL WIDTH		
●		4'	6'	8'
14	4⅛"	6	9	12
14	4⅜"	7	10	13
14	4⅝"	8	11	15
14	5"	9	12	16
14	5⅛"	9	13	18
14	5¼"	10	15	19
14	5⅜"	11	16	21
14	6⅛"	12	17	22

"B" bars to be centered over girders. Spacing and size to be same as for "A" bars. At exterior girder cantilevers use reinforcing shown on detail sheets.

● The maximum size longitudinal bar between top of panel and "A" bars to provide 2" clearance at top of C.I.P slab. If larger clearance is required for environmental reasons, thicken slab.

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41,99	R20.7/R22.1, 19.2/19.8	329	368

REGISTERED ENGINEER - CIVIL — STANLEY KU, No. 47498, Exp. 12-31-95, CIVIL, STATE OF CALIFORNIA

1-22-96
PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

NOTES:

1. The contractor shall submit for the Engineer's approval, layout and detail shop plans showing all dimensions, steel reinforcement, lifting loops, bar chairs, joint forms, ⅜" diameter prestressing strands and clearances. Details not shown on shop plans shall conform to the contract plans.
2. All pretensioned panels shall be placed perpendicular or radial to the longitudinal post - tensioned cast-in-place girders.
3. Ends of the panel shall be neatly sawed to provide 2½" wide concrete bearing surface on the cast-in-place girders and caps. When panels are placed in variable width bays or trapizodial and triangular corners, they shall be sawed to fit. Adjust reinforcing steel at caps to provide for the 2½" bearing surface.
4. Cast-in-place bearing concrete thickness under the pretensioned panel ends shall be not less than 2" deep or more than 3" deep.
5. For use with cast-in-place post tensioned girders with 12" min. girder stems.
6. Finish on top of panels to be rated parallel to strands, ¼" amplitude.
7. These details are alternative to those shown on the superstructure plans. Details not shown shall conform to those details.
8. If panels are tight fit, wire and tie forms are not required.

AS BUILT PLANS

Contract No. 06-342604
Contractor Bents
Resident Engineer L. Hickman Bottaro
Date of Completion 4/97
By DAVID L. VALLEJOS

DESIGN NOTES:

LIVE LOADING:

HS20-44 and alternative and permit design load in accordance with 1983 AASHTO and all current interim specifications and revisions by Caltrans.

Design includes 35 lbs. per square foot for future wearing surface.

CONCRETE STRENGTH:

Precast pretensioned panels: f'_c = 5000 psi at 28 days

f'_{ci} = 4000 psi at release

Cast-in-place deck slab: f'_c = 4000 psi at 28 days, or as required on "prestressing notes" for superstructure concrete.

PRESTRESSING STEEL:

All strands shall be ⅜" diameter low relaxation steel strands with minimum ultimate strength f'_s = 270,000 psi.

Initial jacking force per ⅜" strand = 16,800 pounds.

STANDARD DRAWING

FILE NO.	XS 12-73	DESIGN BY	W.J. Jurkovich	CHECKED	E.G. Posseny
DESIGN DATE	5/93	DETAILS BY	R. Yee	CHECKED	W.J. Jurkovich
		SUBMITTED BY	W.J. Jurkovich	APPROVAL RECOMMENDED BY	Design Supervisor

DS 05D 241A (CADD 4/89)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 8

CU 06107
EA 342601

BRIDGE NO.	42-265R/L
POST MILE	R21.61

CHURCH AVENUE UNDERCROSSING

PC P/S CONCRETE DECK PANELS FOR P/S BOX GIRDERS

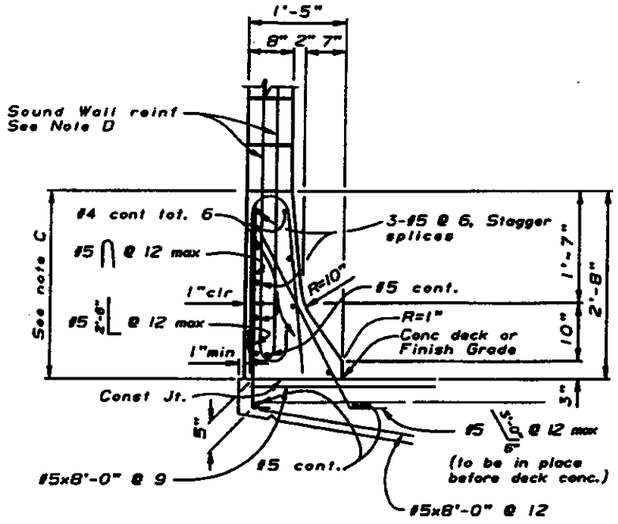
DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)

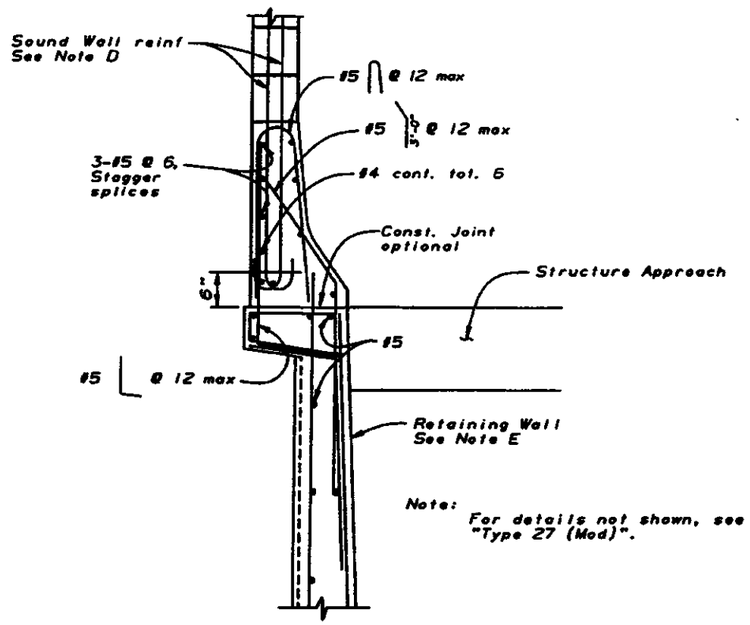
SHEET 24 OF 28

X-SHEET.DGN

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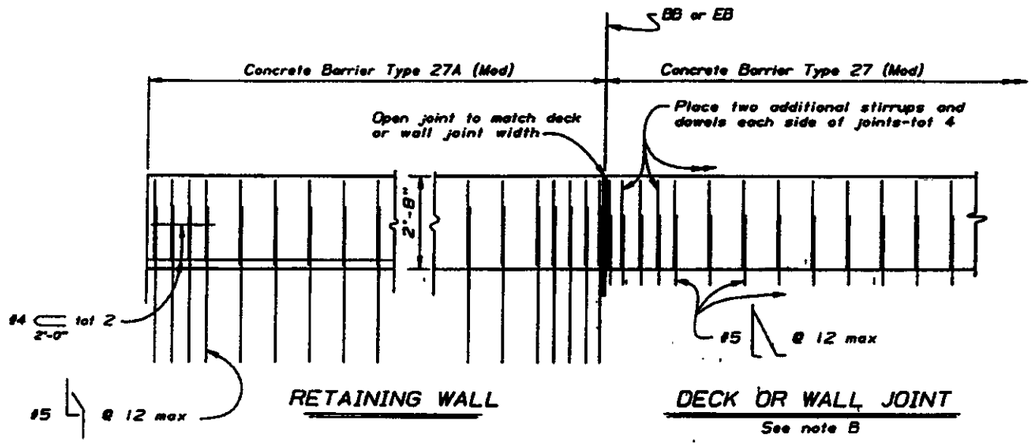


TYPE 27 (MOD)



Note: For details not shown, see "Type 27 (Mod)".

TYPE 27A (MOD)



ELEVATION

Scale: ½"=1'-0"

Notes:

A. Clearance to reinforcing steel in railing to be 1". Longitudinal reinforcement to stop at expansion joints, and be continuous at construction joints. Hairpin stirrups to be rotated to meet clearance.

B. Rail joints shall be located at deck and principal wall joints.

C. Dimension may vary with cross-slope and with certain thicknesses of surfacing.

D. For Sound Wall reinforcement, see "Sound Wall on Retaining Wall" and "Sound Wall on Bridge" sheets.

E. For Retaining Wall reinforcement, see "Abutment Details No.4" sheet.

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41,99	R20.7/R22.1, 19.2/19.8	326	368

REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — STANLEY KU — No. 47488 — Exp. 12-31-97 — CIVIL — STATE OF CALIFORNIA

1-22-96
PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

AS BUILT PLANS

Contract No. 06-342604
Contractor BENCO
Resident Engineer L. HICKINBOTHAM
Date of Completion 4/97
BY DAVID L. VALLEJOS
NO CHANGES ON THIS SHEET.

DESIGN	Stanley Ku	Don Lee
DETAILS	David Forbes	Stanley Ku
QUANTITIES	Tony Huang	Steve Hao

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 8

CU 06107
EA 342601

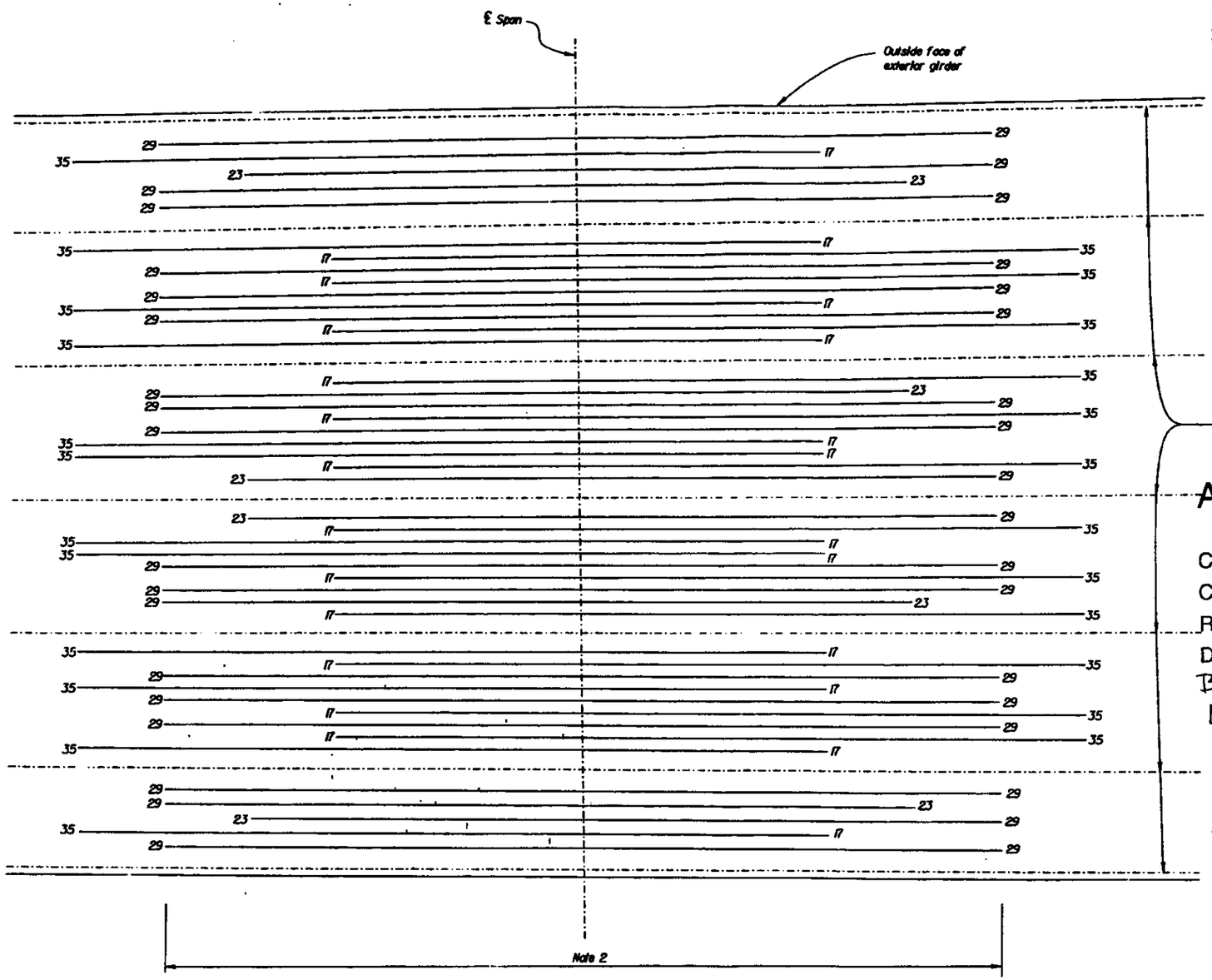
BRIDGE NO. 42-205R/L
POST MILE R21.61

CHURCH AVENUE UNDERCROSSING
CONCRETE BARRIER TYPE 27 (MOD)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3

SHEET 21 OF 28

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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41,99	R20.7/R22.1, 19.2/19.8	323	368

REGISTERED ENGINEER - CIVIL

STANLEY KU No. 47498 Exp. 6-30-98 CIVIL STATE OF CALIFORNIA

1-22-96
PLANS APPROVAL DATE

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0.24 unit cost

AS BUILT PLANS

Contract No. 06-342604
Contractor BENCO
Resident Engineer L. HICKINBOTHAM
Date of Completion 4/97
BY DAVID L. VALLEJOS
NO CHANGES ON THIS SHEET.

MAIN REINFORCEMENT

No Scale

LEFT BRIDGE

NOTES:

1. All reinforcement #10 except otherwise noted.
2. No splices allowed in the region shown.
3. Number at the end indicates length of reinforcement measured from ℄ Span.
4. No lap splice allowed

DESIGN	BY Bill Brook	CHECKED Stanley Ku	
DETAILS	BY Norm Kelley	CHECKED Stanley Ku	
QUANTITIES	BY Tony Nuang	CHECKED Steve Hao	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 8

CU 0607
EA 342601

BRIDGE NO.	CHURCH AVENUE UNDERCROSSING
42-265R/L	GIRDER REINFORCEMENT NO. 2
POST MILE	
R20.61	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)						PLANS APPROVED	SHEET	OF
3-7-96	3-27-96	4-15-96	10-23-96				18	28

ClibPDF - www.fastio.com

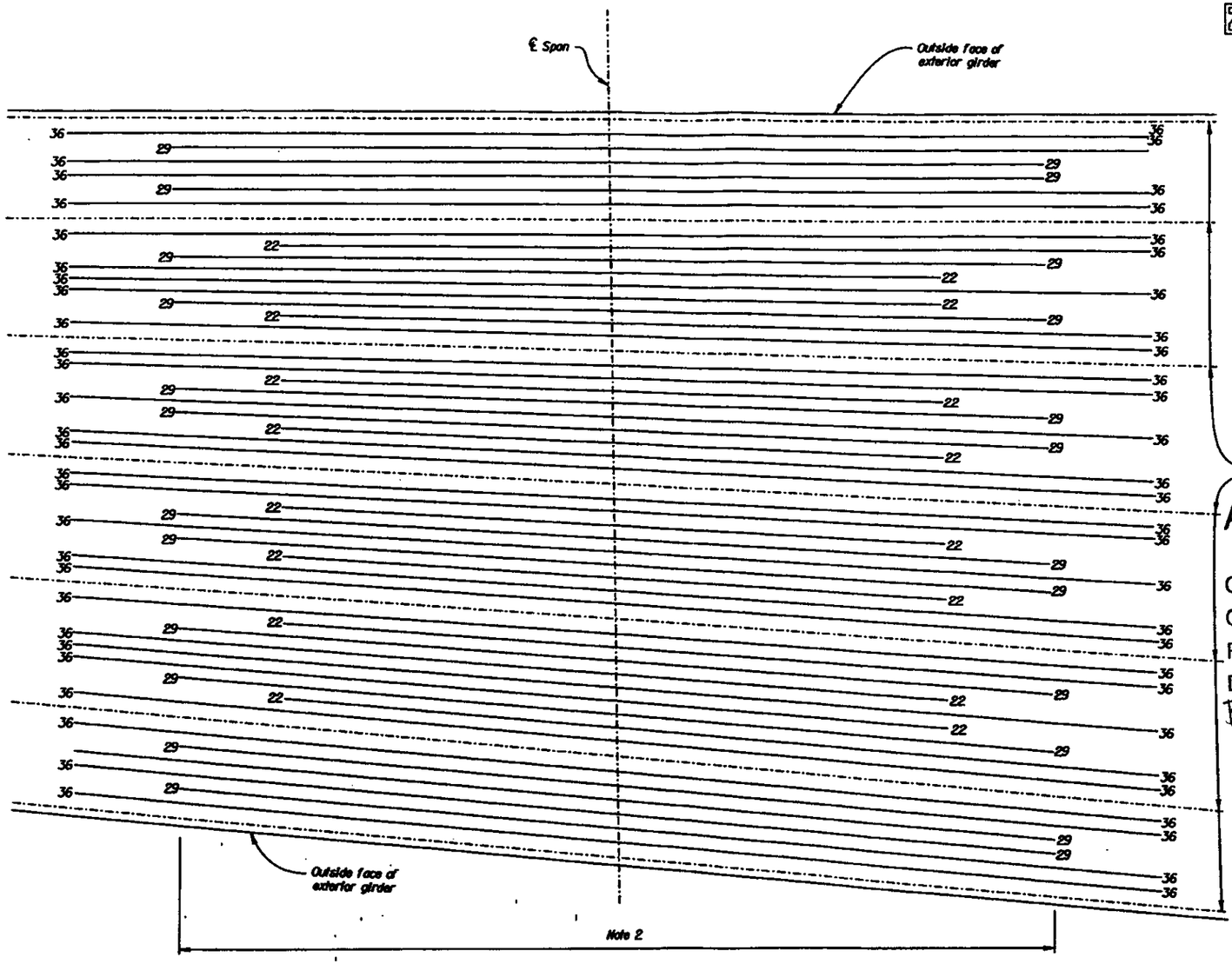
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41,99	R20.7/R22.1, 19.2/19.8	322	368

REGISTERED ENGINEER - CIVIL

STANLEY KU No. 42488 Exp. 6-30-98 CIVIL STATE OF CALIFORNIA

1-22-96
PLANS APPROVAL DATE

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MAIN REINFORCEMENT

No Scale

RIGHT BRIDGE

AS BUILT PLANS

Contract No. 06-342604
Contractor BENCO
Resident Engineer L. HICKENBOTHAM
Date of Completion 4/97
BY DAVID L. VALLEJOS
NO CHANGES ON THIS SHEET.

NOTES:

1. All reinforcement #10 except otherwise noted.
2. No splices allowed in the region shown.
3. Number at its end indicates length of reinforcement measured from ℄ Span.
4. No lap splices allowed.

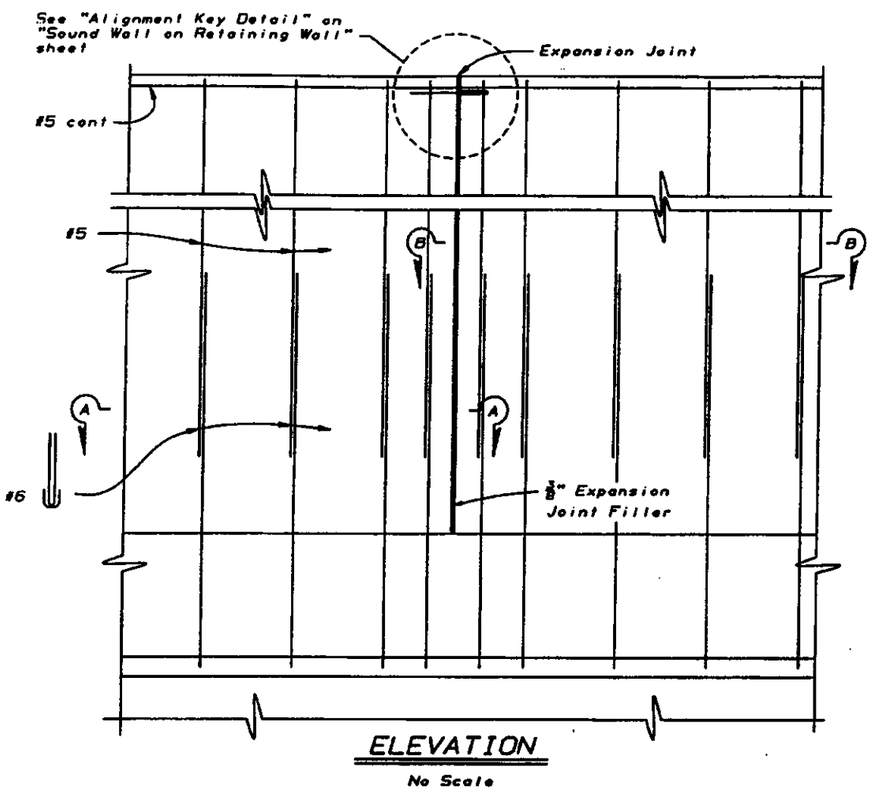
DESIGN	BY Tracy Phan	CHECKED Stanley Ku	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 8	BRIDGE NO. 42-265R/L
DETAILS	BY Hans Kelley	CHECKED Stanley Ku			POST MILE R21.61
QUANTITIES	BY Tony Nuang	CHECKED Steve Hoa			CHURCH AVENUE UNDERCROSSING
				CU 0607 EA 342601	GIRDER REINFORCEMENT NO. 1

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES

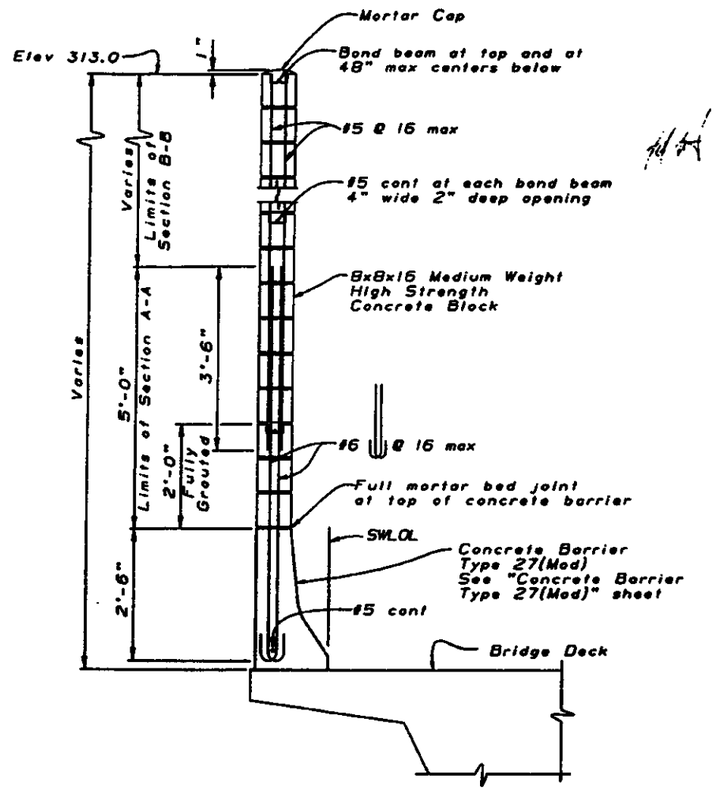
PLAN SHEET 17 OF 28

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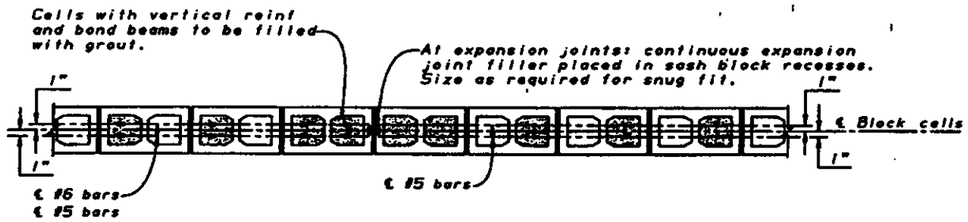
ELEVATION

No Scale



TYPICAL SECTION

No Scale



SECTION A-A

No Scale

SECTION B-B

No Scale

AS BUILT PLANS

Contract No. 06.342604

Contractor BENCO

Resident Engineer L. HICKINBOTHAM

Date of Completion 4/97

BY DAVID L. VALLEJOS

NO CHANGES ON THIS SHEET.

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
05	Fre	41,99	R20.7/R22.1, 19.2/19.8	332	368

REGISTERED ENGINEER - CIVIL

STANLEY KU No. 47488 Exp. 12-31-95 CIVIL STATE OF CALIFORNIA

1-22-96

PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

DESIGN NOTES

DESIGN

UNIFORM BUILDING CODE, 1979 EDITION AND THE BRIDGE DESIGN SPECIFICATIONS.

DESIGN WIND LOAD

30 PSF

DESIGN SEISMIC LOAD

1.0 DEAD LOAD

REINFORCEMENT CONCRETE

f'c = 3,250 PSI
fy = 60,000 PSI

CONCRETE MASONRY

f'm = 2,500 PSI
fm = 830 PSI
fs = 24,000 PSI
n = 15

WORKING STRESS DESIGN (WSD) — PERCENTAGE OF UNIT STRESS

GROUP 1: D+E+SC	100%
GROUP 2: D+W+SC+E	133⅓%
GROUP 3: D+EQD+E	133⅓%

LOAD FACTORS AND LOAD COMBINATIONS

GROUP A: βD + 1.7 E + 1.7 SC
GROUP B: βD + 1.7 E + 1.3 W
GROUP C: βD + 1.3 E + 1.3 EQE
GROUP D: βD + 1.3 E + 1.3 EQD
GROUP E: βD + 1.1 E + 1.1 (EQE + EQD)

WHERE:

β = 1.0 OR 1.3, WHICHEVER CONTROLS IN DESIGN
D = DEAD LOAD
E = LATERAL EARTH PRESSURE
SC = LIVE LOAD SURCHARGE
W = WIND LOAD
EQE = SEISMIC EARTH LOAD
EQD = SEISMIC DEAD LOAD (0.3D)

STRENGTH REDUCTION FACTORS, ø

REINFORCED CONCRETE:

FOR FLEXURE ..... ø = 0.90
FOR SHEAR ..... ø = 0.85
FOR AXIAL COMPRESSION ..... ø = 0.70

FOUNDATIONS:

FOR SOIL PASSIVE RESISTANCE ..... ø = 0.90
FOR SOIL ACTIVE PRESSURE ..... ø = 1.00
FOR PILE BEARING LOAD, EXCEPT UNDER EQ ..... ø = 0.75
FOR PILE BEARING LOAD, UNDER EQ ..... ø = 1.00

GENERAL NOTES

NOTE A: FOR TYPE OF BLOCK, TYPE OF BLOCK BOND AND JOINT FINISH, SEE OTHER SHEETS.

NOTE B: WHEN BLOCKS ARE LAID IN STACKED BOND, LADDER TYPE, GALVANIZED JOINT REINFORCEMENT SHALL BE PROVIDED. A MINIMUM OF 2 - 9 GAGE WIRES CONTINUOUS AT 48" MAXIMUM TO BE USED. LOCATE REINFORCEMENT IN JOINTS THAT ARE AT THE APPROXIMATE MIDPOINT BETWEEN BOND BEAMS.

NOTE C: HORIZONTAL JOINTS SHALL BE TOOLED CONCAVE OR MAY BE WEATHERED.

VERTICAL JOINTS SHALL BE TOOLED CONCAVE OR MAY BE RAKED.

NOTE 1: BARRIER IS DESIGNED BY THE ULTIMATE STRENGTH METHOD. CONCRETE MASONRY IS DESIGNED BY THE WORKING STRESS METHOD.

DESIGN	Stanley Ku	Dan Lee
DETAILS	Roberto Lim	Stanley Ku
QUANTITIES	Tony Huang	Steve Hao

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 6

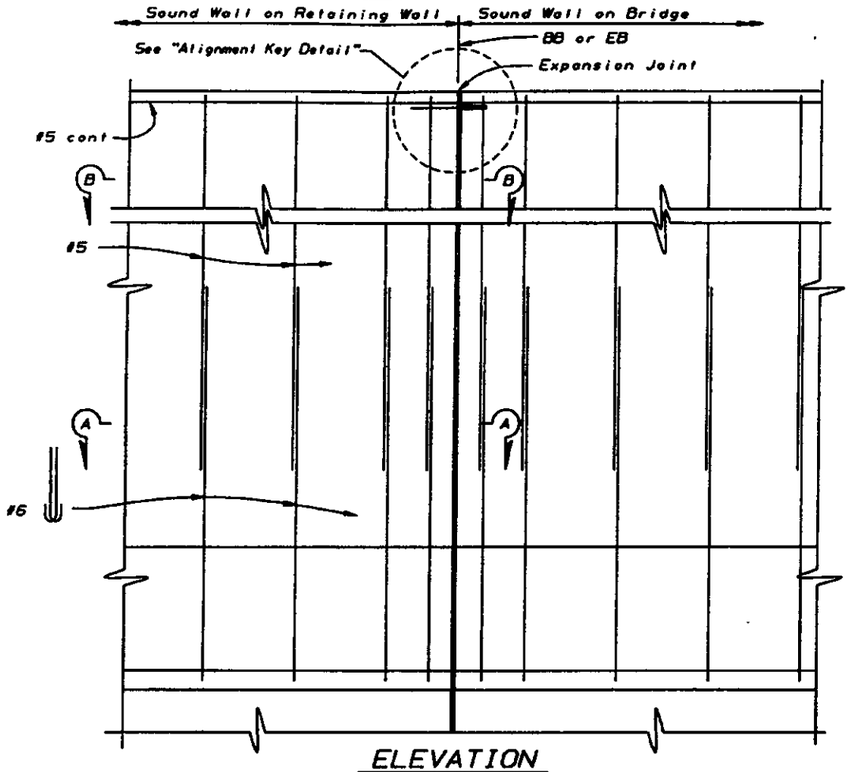
CU 06107
EA 342601

BRIDGE NO. 42-265R/L
POST MILE R21.61

CHURCH AVENUE UNDERCROSSING
SOUND WALL ON BRIDGE

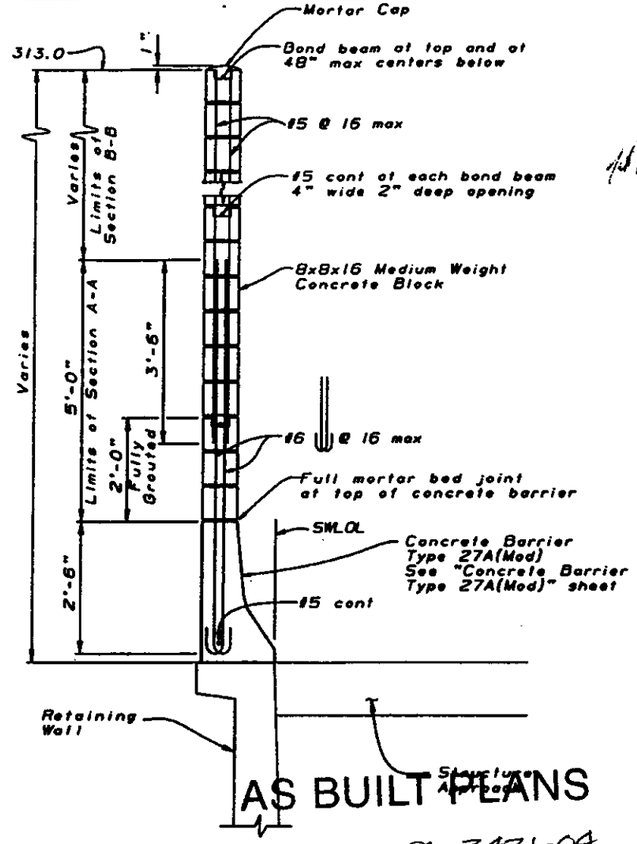
SHEET 27 OF 28

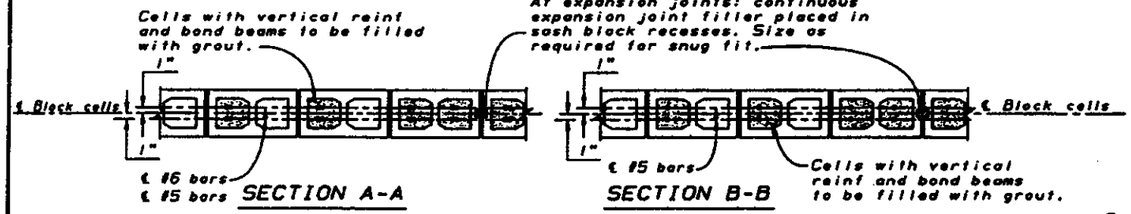
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ELEVATION

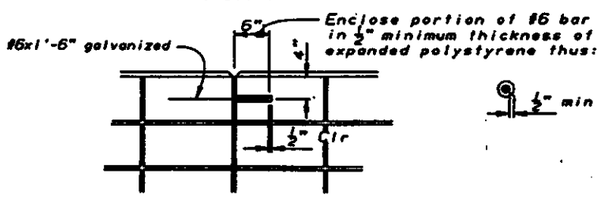
No Scale





PLAN

No Scale



ALIGNMENT KEY DETAIL

No Scale

AS BUILT PLANS

Contract No. 06-342604

Contractor BENCO

Resident Engineer L. HICKINBOTHAM

Date of Completion 4/97

BY DAVID L. VALLEJOS.

NO CHANGES ON THIS SHEET.

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41, 99	R20.7/R22.1, 19.2/19.8	331	368

REGISTERED ENGINEER - CIVIL

STANLEY KU No. 47498 Exp. 12-31-96 CIVIL STATE OF CALIFORNIA REGISTERED PROFESSIONAL ENGINEER

1-22-96

PLANS APPROVAL DATE

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DESIGN NOTES

DESIGN

UNIFORM BUILDING CODE, 1979 EDITION AND THE BRIDGE DESIGN SPECIFICATIONS.

DESIGN WIND LOAD

30 PSF

DESIGN SEISMIC LOAD

0.3 DEAD LOAD

REINFORCEMENT CONCRETE

f'c = 3,250 PSI
fy = 60,000 PSI

CONCRETE MASONRY

f'm = 1,350 PSI
fm = 450 PSI
fs = 24,000 PSI
n = 28

WORKING STRESS DESIGN (WSD)

	PERCENTAGE OF UNIT STRESS
GROUP 1: D+E+SC	100%
GROUP 2: D+W+SC+E	133⅓%
GROUP 3: D+EQD+E	133⅓%

LOAD FACTORS AND LOAD COMBINATIONS

GROUP A: βD + 1.7 E + 1.7 SC
GROUP B: βD + 1.7 E + 1.3 W
GROUP C: βD + 1.3 E + 1.3 EQE
GROUP D: βD + 1.3 E + 1.3 EQD
GROUP E: βD + 1.1 E + 1.1 (EQE + EQD)

WHERE:

β = 1.0 OR 1.3, WHICHEVER CONTROLS IN DESIGN
D = DEAD LOAD
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SC = LIVE LOAD SURCHARGE
W = WIND LOAD
EQE = SEISMIC EARTH LOAD
EQD = SEISMIC DEAD LOAD (0.3D)

STRENGTH REDUCTION FACTORS, ø

REINFORCED CONCRETE:

FOR FLEXURE	ø = 0.90
FOR SHEAR	ø = 0.85
FOR AXIAL COMPRESSION	ø = 0.70

FOUNDATIONS:

FOR SOIL PASSIVE RESISTANCE	ø = 0.90
FOR SOIL ACTIVE PRESSURE	ø = 1.00
FOR PILE BEARING LOAD, EXCEPT UNDER EQ	ø = 0.75
FOR PILE BEARING LOAD, UNDER EQ	ø = 1.00

NOTE 1: BARRIER IS DESIGNED BY THE ULTIMATE STRENGTH METHOD. CONCRETE MASONRY IS DESIGNED BY THE WORKING STRESS METHOD.

GENERAL NOTES

NOTE A: FOR TYPE OF BLOCK, TYPE OF BLOCK BOND AND JOINT FINISH, SEE ROAD PLANS.

NOTE B: WHEN BLOCKS ARE LAID IN STACKED BOND, LADDER TYPE, GALVANIZED JOINT REINFORCEMENT SHALL BE PROVIDED. A MINIMUM OF 2 - 9 GAGE WIRES CONTINUOUS AT 48" MAXIMUM TO BE USED. LOCATE REINFORCEMENT IN JOINTS THAT ARE AT THE APPROXIMATE MIDPOINT BETWEEN BOND BEAMS.

NOTE C: HORIZONTAL JOINTS SHALL BE TOOLED CONCAVE OR MAY BE WEATHERED.

VERTICAL JOINTS SHALL BE TOOLED CONCAVE OR MAY BE RAKED.

DESIGN	Stanley Ku	CHECKED	Dan Lee
DETAILS	Roberto Lim	CHECKED	Stanley Ku
QUANTITIES	Tony Huang	CHECKED	Steve Hao

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 8

CU 06107
EA 342601

BRIDGE NO. 42-265R/L
POST MILE R21.61

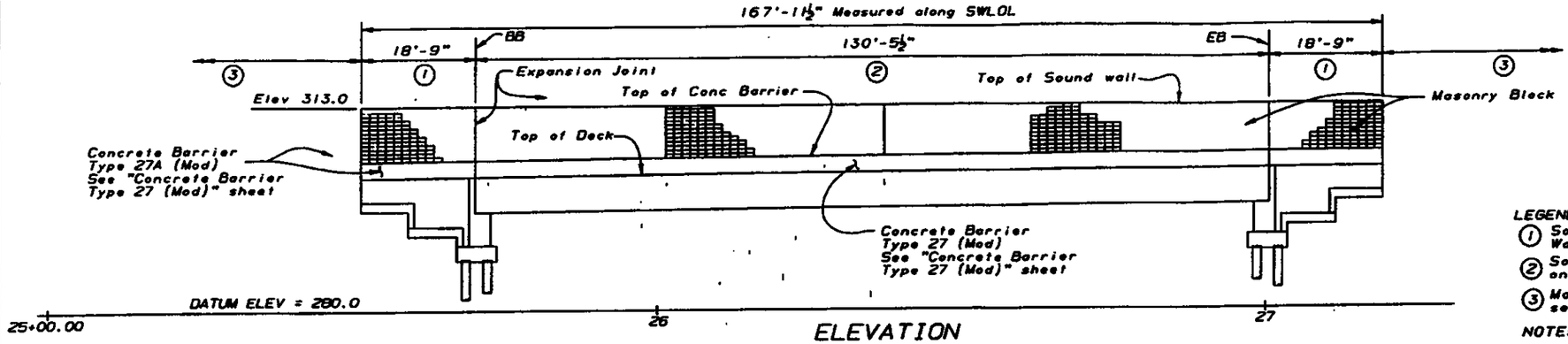
CHURCH AVENUE UNDERCROSSING
SOUND WALL ON RETAINING WALL

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3

REVISED DATES (PRELIMINARY STAGE ONLY)

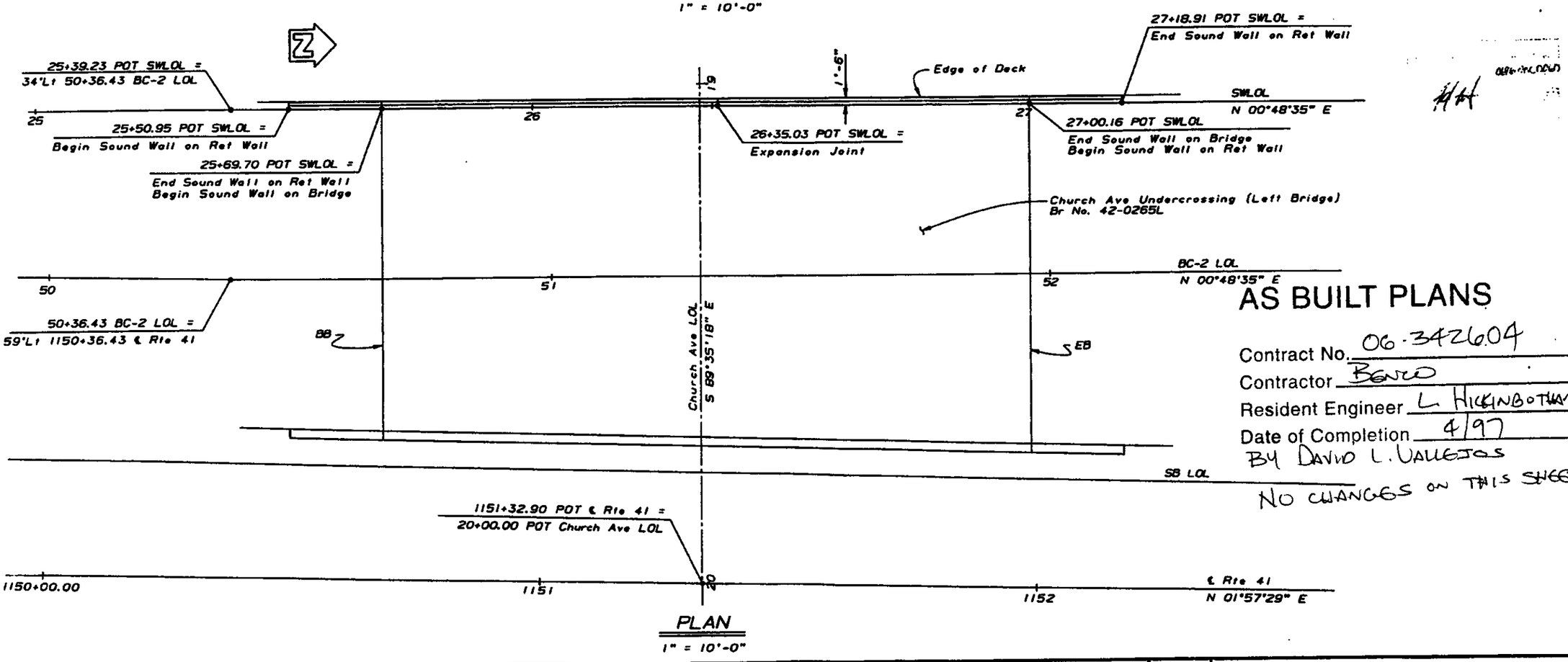
SHEET 26 OF 28

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ELEVATION

1" = 10'-0"



PLAN

1" = 10'-0"

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41,99	R20.7/R22.1, 19.2/19.8	330	368

REGISTERED ENGINEER - CIVIL

STANLEY NU No. 42480 Exp. 12-31-95 CIVIL STATE OF CALIFORNIA

1-22-96
PLANS APPROVAL DATE

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LEGEND:

(1) Sound Wall on Retaining Wall, see "Sound Wall on Retaining Wall" sheet.

(2) Sound Wall on Bridge, see "Sound Wall on Bridge" sheet.

(3) Masonry Blocks on Concrete Barrier, see "Road Plans".

NOTE: For Pattern of Masonry Blocks, see "Road Plans"

AS BUILT PLANS

Contract No. 06-342604
Contractor BENCO
Resident Engineer L. HICKINBOTHAM
Date of Completion 4/97
BY DAVID L. VALLEJOS

NO CHANGES ON THIS SHEET.

DESIGN	Stanley Ku	Don Lee
DETAILS	Roberto Lim	Stanley Ku
QUANTITIES	Tony Huang	Steve Hee

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 8

CU 06107
EA 342601

BRIDGE NO. 42-265R/L
POST MILE R21.61

CHURCH AVENUE UNDERCROSSING
SOUND WALL LAYOUT

SHEET 25 OF 28

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DS 0SD 2139 (CADD 4/95)

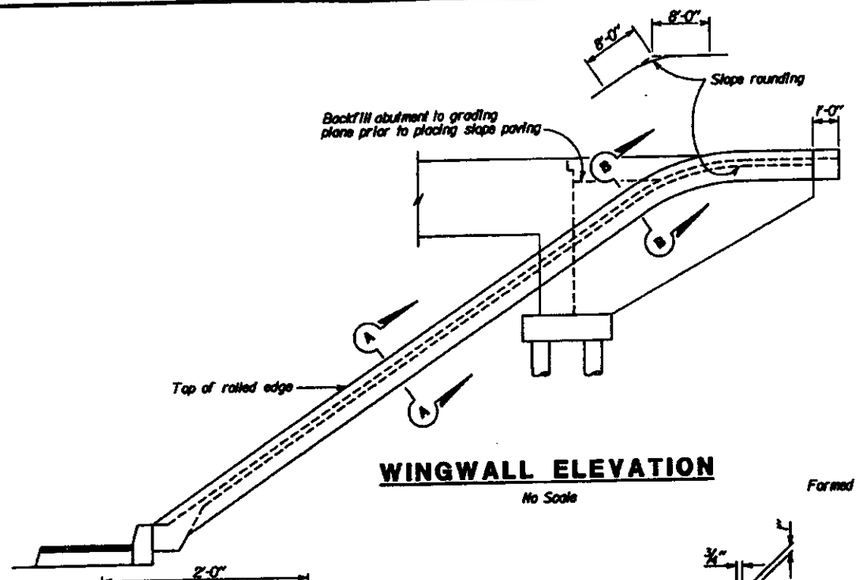
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DIST.	COUNTY	ROUTE	TOTAL PROJECT	NO.	SHEETS
06	Fre	41,99	R20.7/R22.4 I9.2/I9.8	325	368

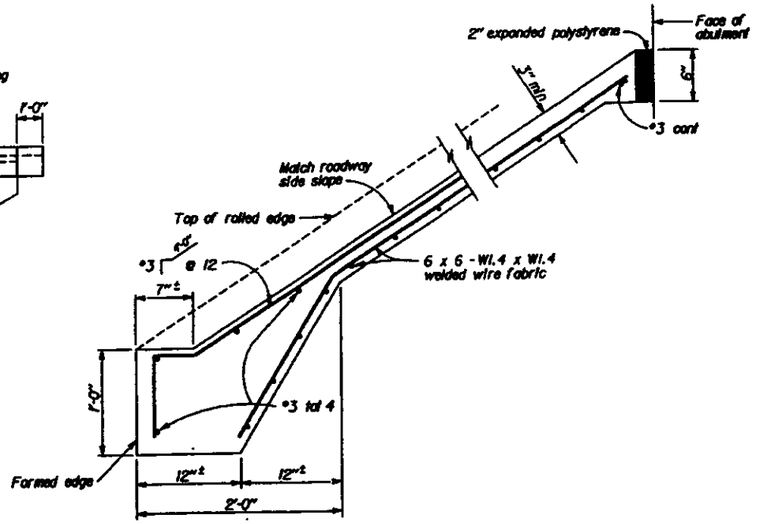
REGISTERED ENGINEER - CIVIL

1-22-96
PLANS APPROVAL DATE

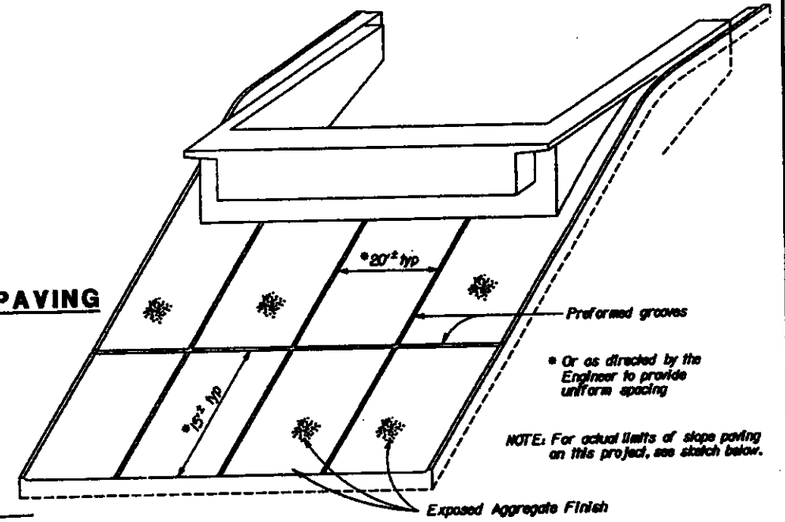
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



WINGWALL ELEVATION
No Scale

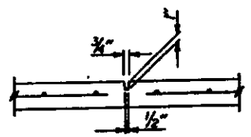


TYPICAL SECTION - CONCRETE PAVING
1½"=1'-0"

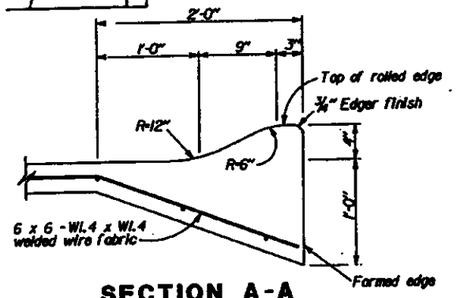


* Or as directed by the Engineer to provide uniform spacing

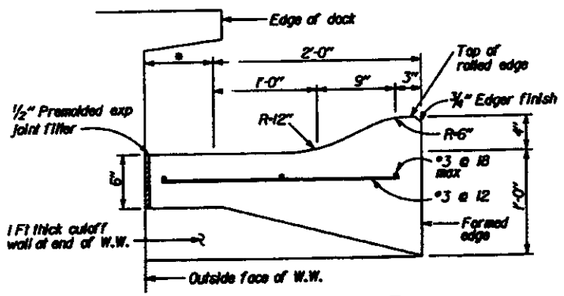
NOTE: For actual limits of slope paving on this project, see sketch below.



PREFORMED GROOVE
No Scale

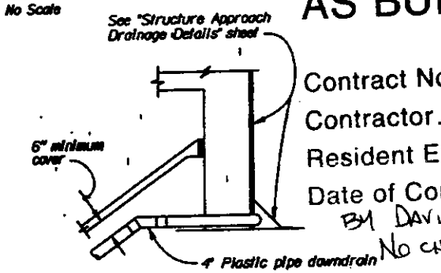


SECTION A-A
1½"=1'-0"

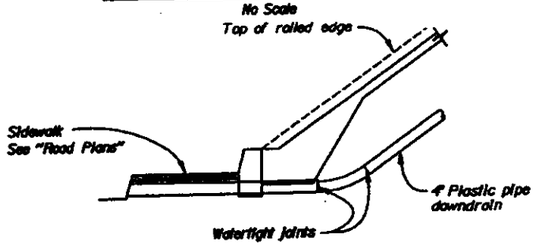


SECTION B-B
1½"=1'-0"

* This dimension becomes zero when edge of deck is at outside face of W.W.



TYPICAL - DRAIN CONNECTION
No Scale



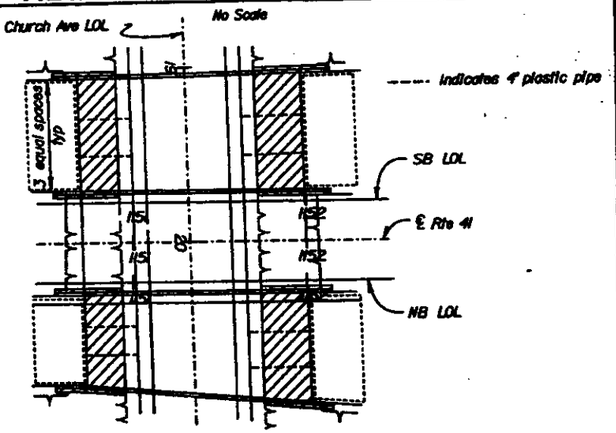
TYPICAL - WITH SIDEWALK
No Scale

DRAINAGE DETAILS

AS BUILT PLANS

Contract No. 06-342604
Contractor BENCO
Resident Engineer L. HICKINBOTHAM
Date of Completion 4/97
BY DAVID L. VALLEJOS
NO CHANGES ON THIS SHEET.

PICTORIAL VIEW OF TYPICAL INSTALLATION
No Scale



LIMITS OF SLOPE PAVING & DRAINAGE LAYOUT
No Scale

DESIGN	Stanley Liu	Don Lee	
DETAILS	David Forbes	Stanley Liu	
QUANTITIES	Tony Huang	Steve Hao	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
DIVISION OF STRUCTURES
STRUCTURE DESIGN 8
CU 0607
EA 342601

BRIDGE NO. 42-265R/L
POST MILE R2.6/I

CHURCH AVENUE UNDERCROSSING
SLOPE PAVING-FULL SLOPE

SHEET 20 OF 28

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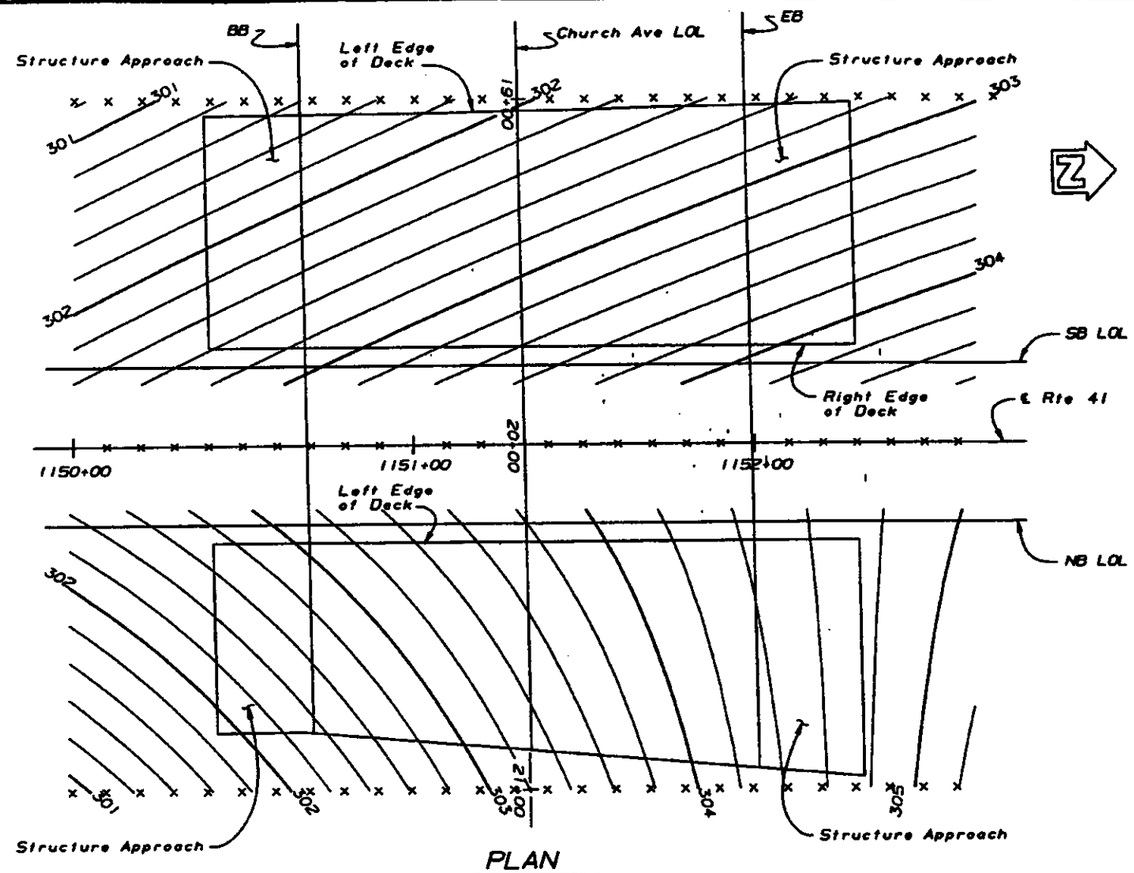
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41,99	R20.7/R22.1, 19.2/19.8	308	368

REGISTERED ENGINEER - CIVIL

STANLEY HU
No. 47488
Exp. 12-31-95
CIVIL

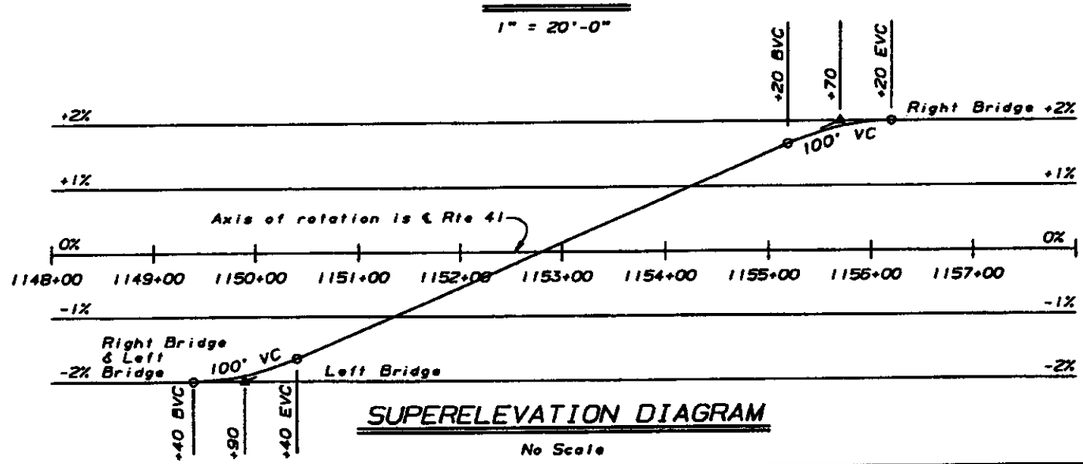
1-22-96
PLANS APPROVAL DATE

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PLAN

1" = 20'-0"

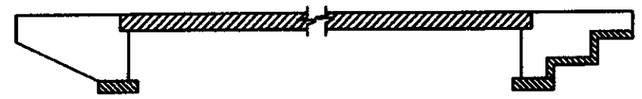


SUPERELEVATION DIAGRAM

No Scale

NOTES:

1. Contour interval = 0.2 ft.
2. X 10 ft intervals along station lines.
3. Contours do not include camber.
4. Contours shown are top of PCC deck elevations.



Structural Concrete, Bridge

Structural Concrete, Bridge Footing

Structural Concrete, Bridge (4,000 psi at 28 days)

CONCRETE STRENGTH AND TYPE LIMITS

No Scale

AS BUILT PLANS

Contract No. 06-342604

Contractor BONCO

Resident Engineer L. HICKINBOTHAM

Date of Completion 4/97

BY DAVID L. VALLEJOS

NO CHANGES ON THIS SHEET.

OFFICIAL RECORD

DESIGN	Tracy Phan	Stanley Ku	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 8	42-265R/L
DETAILS	David Forbes	Stanley Ku			POST MILE R21.61
QUANTITIES	Tony Huang	Steve Hee		CU 06107 EA 342601	CHURCH AVENUE UNDERCROSSING DECK CONTOURS

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DESIGNATED POINTS BEARING EARLIER REVISION DATES ——

SHEET 3 OF 28

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California Department of Transportation
Division of Maintenance

Structure Maintenance and Investigations

BRIDGE

INSPECTION

RECORDS

INFORMATION

SYSTEM

The requested documents have been generated by BIRIS.

These documents are the property of the California Department of Transportation and should be handled in accordance with Deputy Directive 55 and the State Administrative Manual.

Records for “Confidential” bridges may only be released outside the Department of Transportation upon execution of a confidentiality agreement.

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41	R12.1/R20.7	466	489

Patricia D. Preston
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER
PATRICIA S. PRESTON
No. 49591
Exp. 9-30-96
CIVIL
STATE OF CALIFORNIA

1-27-97
PLANS APPROVAL DATE

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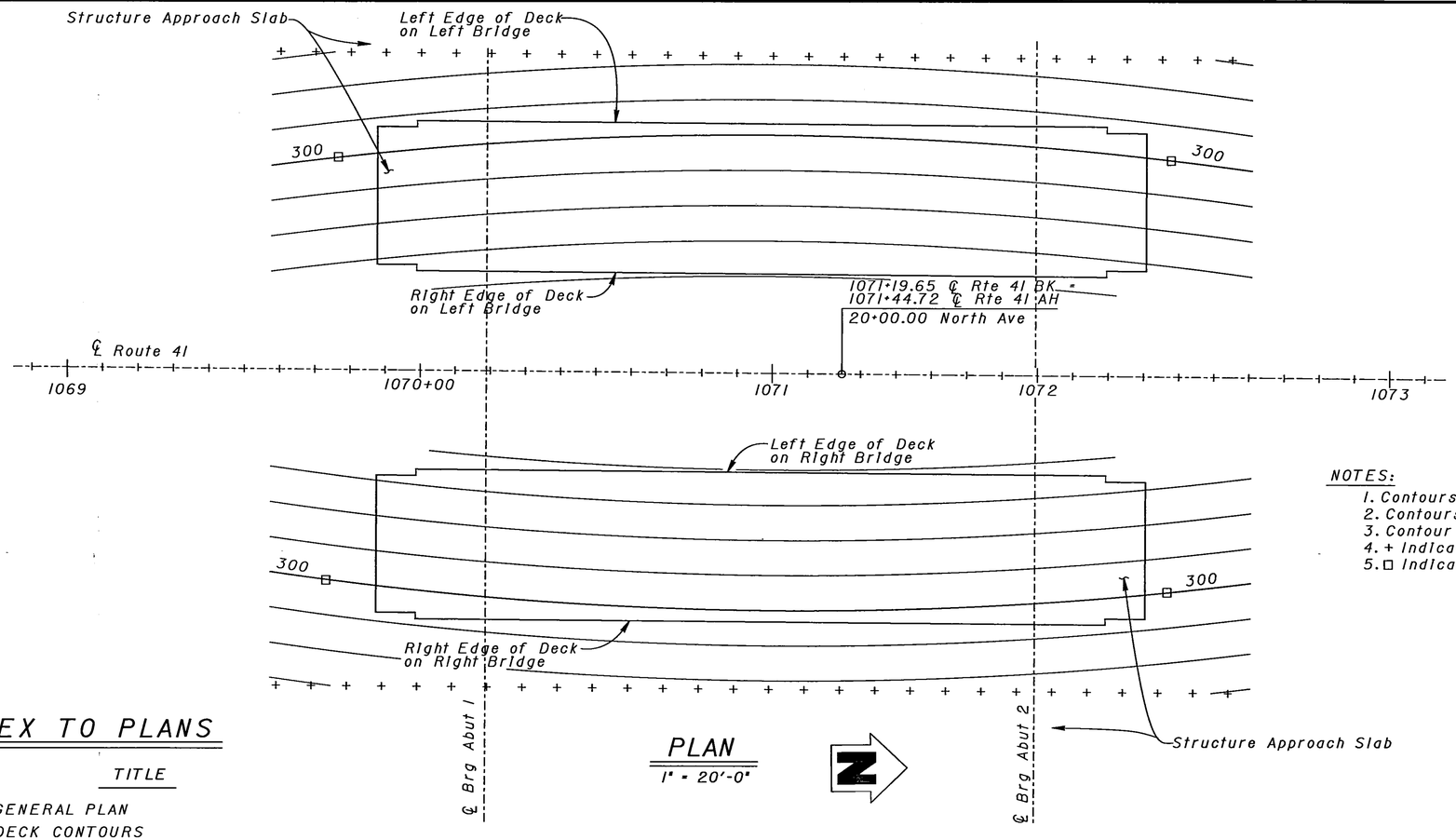
NO AS BUILT CORRECTIONS

AS BUILT N.K. 6-22-99

CORRECTIONS BY DAVID VALLEJOS

CONTRACT NO. 06-342124

DATE 3-9-99



PLAN
1" = 20'-0"

NOTES:
1. Contours do not include camber.
2. Contours shown are top of PCC deck elevation.
3. Contour Interval = 0.2 ft.
4. + Indicates 10 ft intervals along station lines.
5. □ Indicates even foot contour.

INDEX TO PLANS

SHEET NO.	TITLE
1.	GENERAL PLAN
2.	DECK CONTOURS
3.	FOUNDATION PLAN
4.	ABUTMENT LAYOUT
5.	ABUTMENT DETAILS NO. 1
6.	ABUTMENT DETAILS NO. 2
7.	TYPICAL SECTION
8.	GIRDER LAYOUT
9.	STRUCTURE APPROACH TYPE N(30S)
10.	STRUCTURE APPROACH DRAINAGE DETAIL
11.	SLOPE PAVING-FULL SLOPE
12.	LOG OF TEST BORINGS

STANDARD PLANS DATED JULY 1992

A62-C	EXCAVATION AND BACKFILL - BRIDGE
B0-1	BRIDGE DETAILS
B0-3	BRIDGE DETAILS
B0-5	BRIDGE DETAILS
B0-13	BRIDGE DETAILS
B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")
B7-1	BOX GIRDER DETAILS
B8-5	CAST-IN-PLACE PRESTRESSED GIRDER DETAILS
B11-53	CONCRETE BARRIER TYPE 25

STANDARD PLAN SHEET NO.
DETAIL NO.



Structural Concrete, Bridge
Structural Concrete, Bridge Footing
Structural Concrete, Bridge (4,500 psi at 28 days)

CONCRETE STRENGTH AND TYPE LIMITS
No Scale

GENERAL NOTES
LOAD FACTOR DESIGN

DESIGN: BRIDGE DESIGN SPECIFICATIONS (1983 AASHTO with Interims and Revisions by CALTRANS)

DEAD LOAD: Includes 35 psf for future wearing surface.

LIVE LOADING: HS20-44 and alternative and permit design load.

SEISMIC LOADING: Peak Rock Acceleration = 0.10 g
Depth of Alluvium > 150 ft

REINFORCED CONCRETE: f_y = 60,000 psi
f'_c = 3,250 psi
n = 9
Transverse Deck Slabs (Working Stress Design)
f_s = 20,000 psi
f_c = 1,200 psi
n = 10

PRESTRESSED CONCRETE: See "Prestressing Notes" on "GIRDER LAYOUT" sheet.

FOOTING PRESSURE:

	ALLOWABLE (Tons Per Square Foot)	DESIGN
Abut 1 & 2	2.5	2.5

DESIGN	BY Overcomer Hor	CHECKED Pat Preston	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
DETAILS	BY Roberta Lim	CHECKED Pat Preston	DIVISION OF STRUCTURES STRUCTURE DESIGN 8
QUANTITIES	BY John Satter	CHECKED David Romero	CU 06227 EA 342121

BRIDGE NO. 42-264R/L
POST MILE R20.1

NORTH AVENUE UNDERCROSSING
DECK CONTOURS

DS OSD 2139 (CADD 9/95)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 6-28-93, 8-30-94, 3-1-96, 3-28-96, 4-18-96, 5-7-96

SHEET 2 OF 12

USERNAME => $USER
$REQUEST

DATE PLOTTED => $DATE

CLIPPER SOFTWARE

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41	R12.1/R20.7	467	489

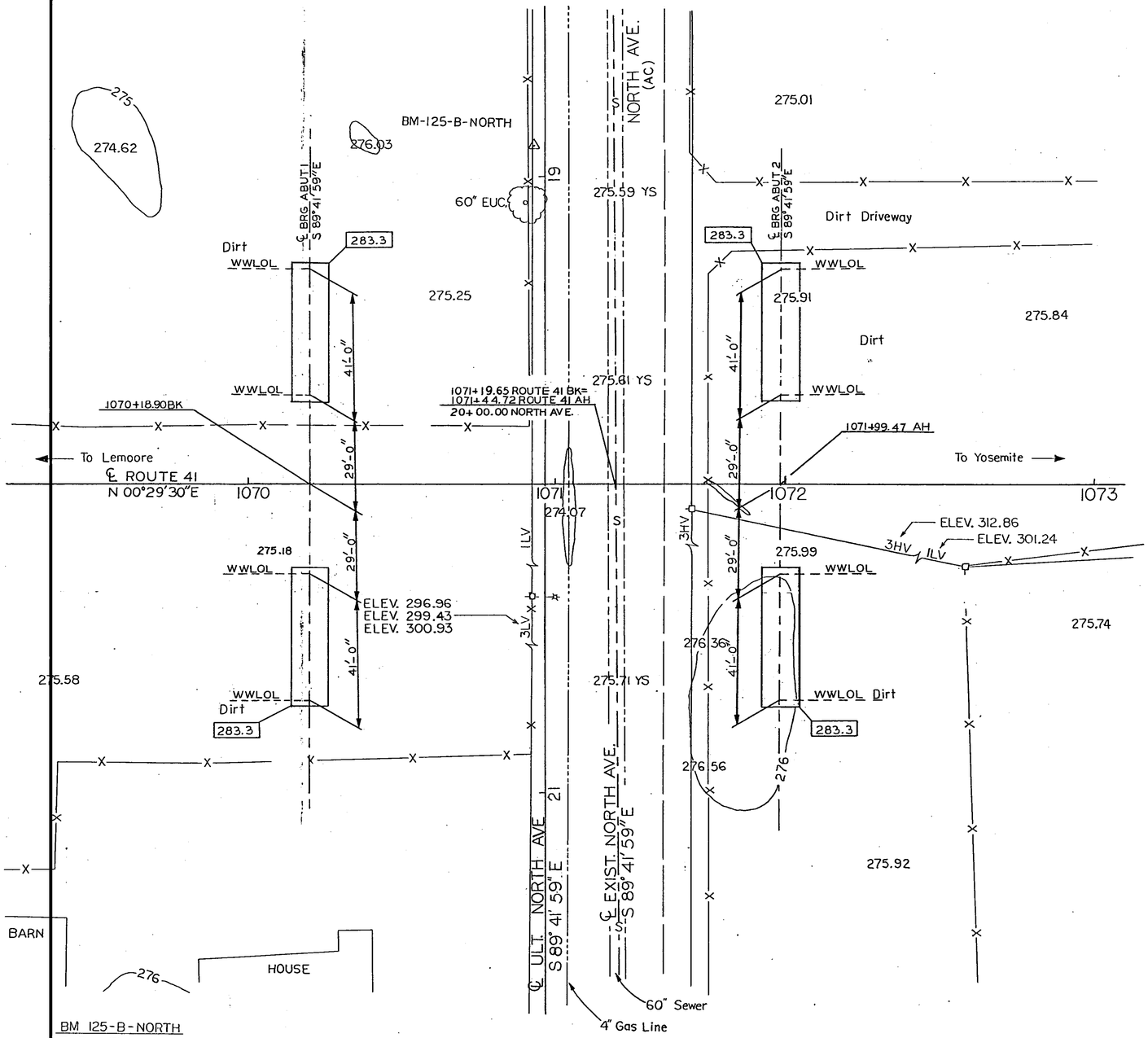
Patricia D. Preston
REGISTERED ENGINEER-CIVIL

REGISTERED PROFESSIONAL ENGINEER — PATRICIA S. PRESTON — No. 49591 — Exp. 9-30-96 — CIVIL — STATE OF CALIFORNIA

1-27-97
PLANS APPROVAL DATE

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AS BUILT NK 6-22-99
CORRECTIONS BY DAVID VALLEJOS
CONTRACT NO. 06-342124
DATE 3-9-99



Nail #	Elevation	Nail #	Elevation
1	302.576	15	303.361
2	302.601	16	303.405
3	302.675	17	303.412
4	302.814	18	303.535
5	302.727	19	303.473
6	302.718	20	303.477
7	302.641	21	302.692
8	303.359	22	302.702
9	303.448	23	302.703
10	303.445	24	302.791
11	303.553	25	302.728
12	303.430	26	302.727
13	303.442	27	302.629
14	303.377		

BM 125-B-NORTH
T-Bar Flush
110.3' Lt. of ℄ Route 41 at Sta. 1071+17.86
ELEV. 275.861

BM 125-B-30
T-Bar 0.4' dn.-On S. bank of small ditch
120.0' Lt. of ℄ Route 41 at Sta. 1064+58.36
ELEV. 276.026

LEGEND:
Indicates Bottom of Footing Elevation

PR-42 264-1

PRELIMINARY INVESTIGATION SECTION

SCALE	DATUM	PHOTOGRAMMETRY AS OF:		DRAWN	BY PJC 3/93
1"=20'	NGVD (1929)	SURVEYED	BY SRS 3/93	TRACED	BY EAB 3/93
ALIGNMENT TIES:	DIST. TRAV. SHTS.	FIELD CHECKED	BY	CHECKED	BY SRS 3/93

DS OSD 2145 (4/89)

	BY	CHECKED
DESIGN	OVERCOMER HOR	PAT PRESTON
DETAILS	NORM KELLEY	PAT PRESTON
QUANTITIES	JOHN SATTER	DAVID ROMERO

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN

CU 06227
EA 342121

BRIDGE NO. 42-264 R/L
POST MILE R20.1

NORTH AVENUE UNDERCROSSING
FOUNDATION PLAN

DISREGARD PRINTS BEARING EARLIER REVISION DATES →
REVISION DATES (PRELIMINARY STAGE ONLY): ~~3-19-96~~ ~~3-22-96~~ ~~3-29-96~~ ~~4-24-96~~ 5-6-96

SHEET 3 OF 12

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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41	R12.1/R20.7	470	489

Patricia D Preston
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER
PATRICIA S. PRESTON
No. 49591
Exp. 9-30-96
CIVIL
STATE OF CALIFORNIA

1-27-97
PLANS APPROVAL DATE

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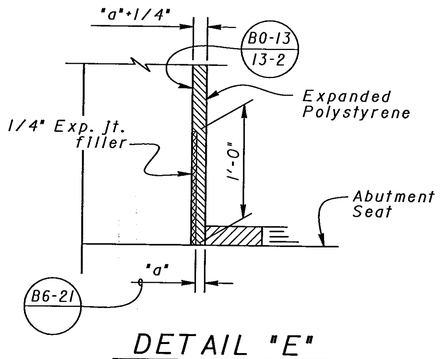
NO AS BUILT CORRECTIONS

AS BUILT NK.

CORRECTIONS BY DAVID VALLEJOS

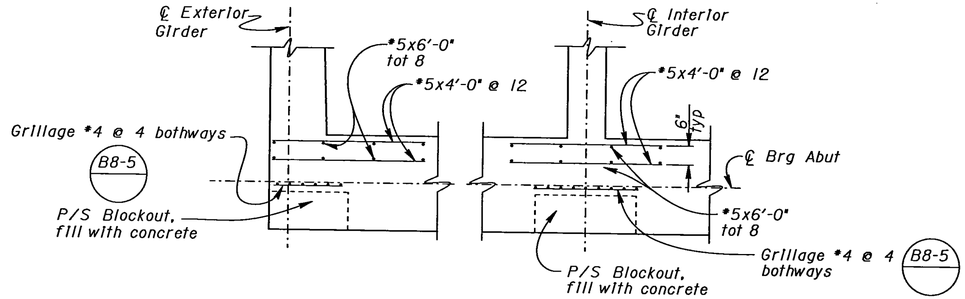
CONTRACT NO. 06-342124

DATE 3-9-99



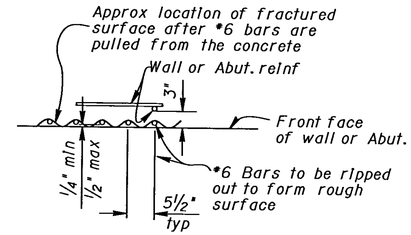
DETAIL "E"

No Scale



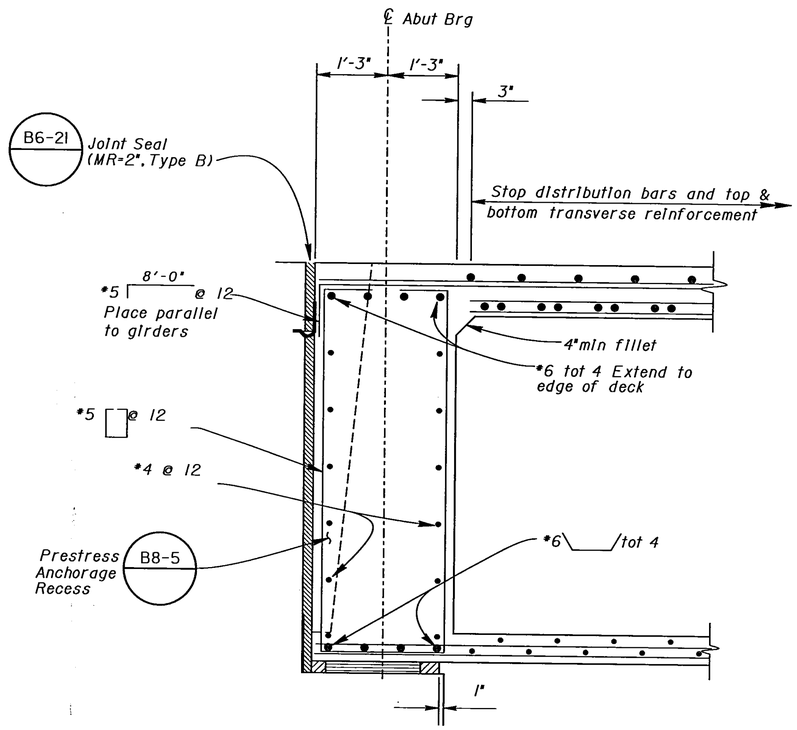
PLAN-PRESTRESS BLOCKOUT

1/2"=1'-0"



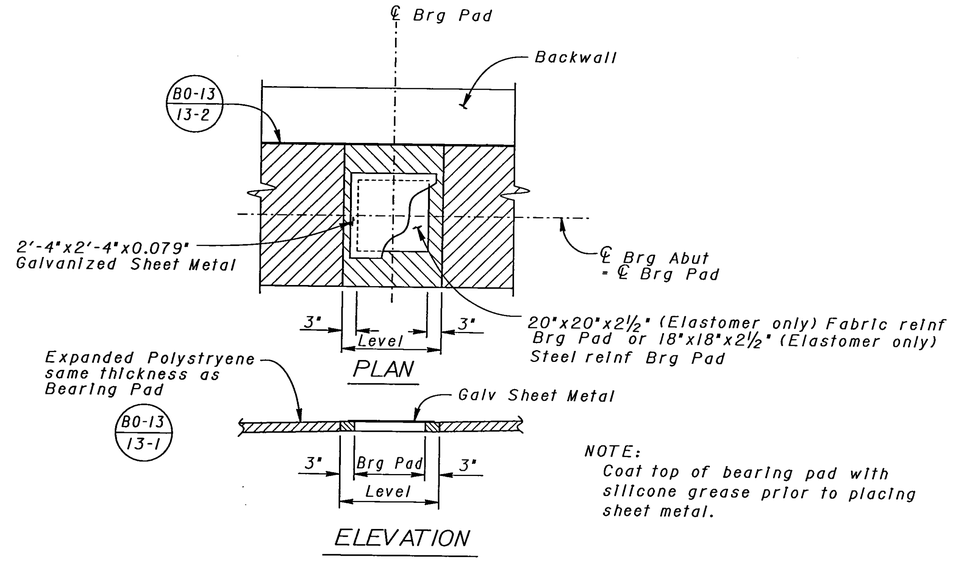
RIPPED TEXTURE DETAIL

3/4" = 1'-0"



END DIAPHRAGM

3/4" = 1'-0"



NOTE:
Coat top of bearing pad with silicone grease prior to placing sheet metal.

BEARING PAD DETAIL

No Scale

DESIGN	BY Overcomer Hor	CHECKED Pat Preston	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 8	BRIDGE NO. 42-264R/L
DETAILS	BY Roberta Lim	CHECKED Pat Preston			POST MILE R20.1
QUANTITIES	BY John Satter	CHECKED David Romero			

NORTH AVENUE UNDERCROSSING
ABUTMENT DETAILS NO. 2

DS OSD 2139 (CADD 9/95)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06227
EA 342121

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 3-5-96, 3-29-96, 4-8-96, 4-18-96

SHEET 6 OF 12

USERNAME => $USER
$REQUEST

DATE PLOTTED => $DATE
TIME PLOTTED => $TIME

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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41	R12.1/R20.7	469	489

Patricia S. Preston
REGISTERED ENGINEER - CIVIL

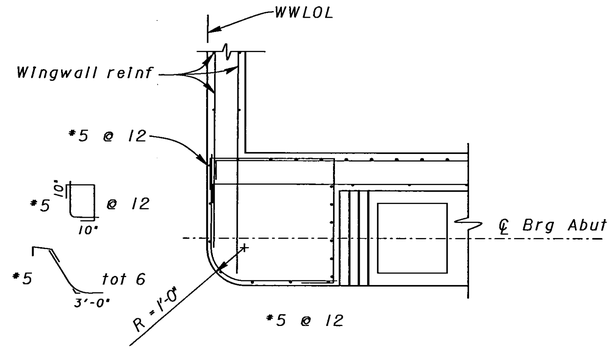
REGISTERED PROFESSIONAL ENGINEER — PATRICIA S. PRESTON — No. 49591 — Exp. 9-30-96 — CIVIL — STATE OF CALIFORNIA

1-27-97
PLANS APPROVAL DATE

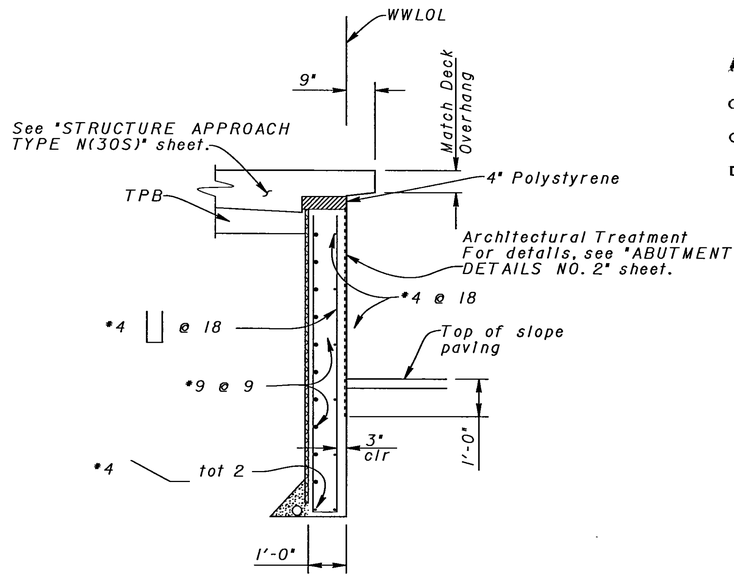
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AS BUILT NK 6-22-99
CORRECTIONS BY DAVID VALLEJOS
CONTRACT NO. 06-342124
DATE 3-9-99

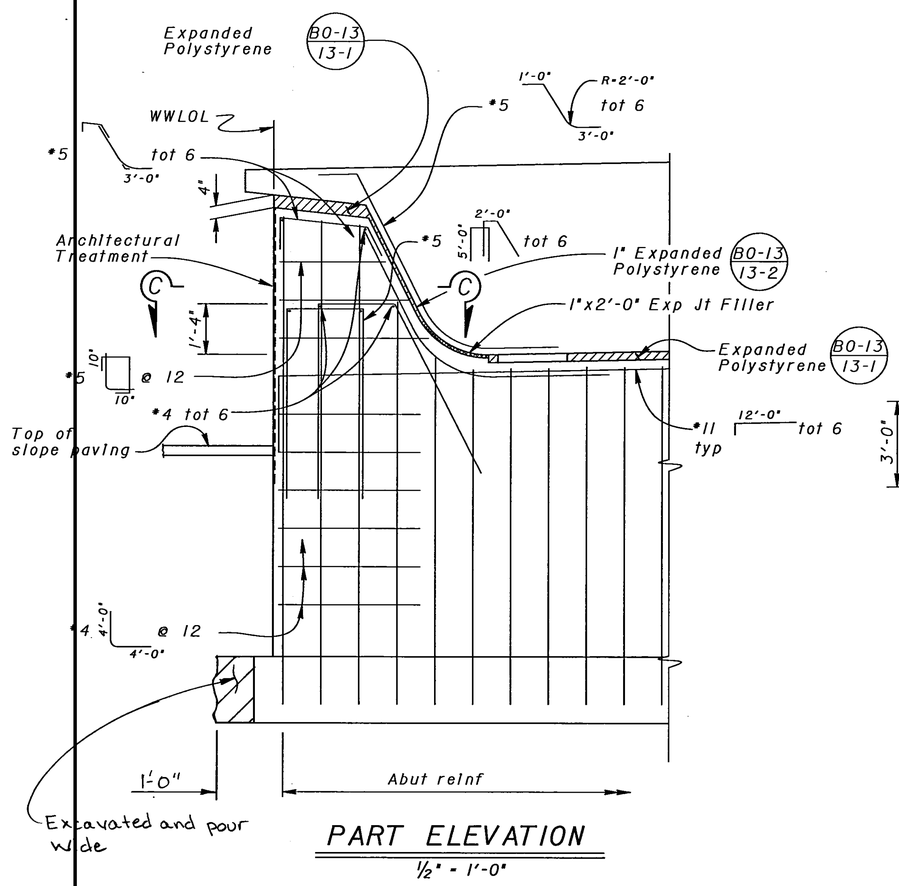
NOTE: Concrete Barrier Type 25 not shown.



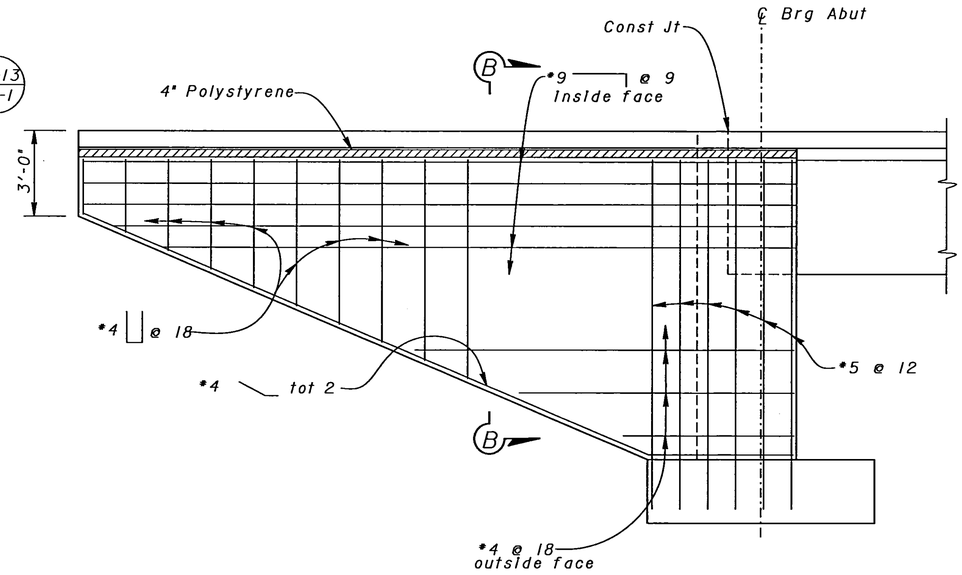
SECTION C-C
½" = 1'-0"



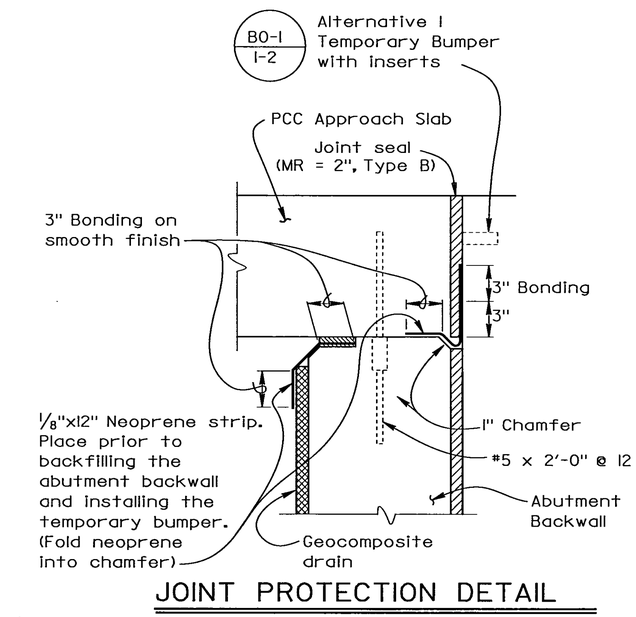
SECTION B-B
½" = 1'-0"



PART ELEVATION
½" = 1'-0"



WINGWALL ELEVATION
⅜" = 1'-0"



JOINT PROTECTION DETAIL
No Scale

DESIGN	BY Overcomer Hor	CHECKED Pat Preston	
DETAILS	BY Roberta Lim	CHECKED Pat Preston	
QUANTITIES	BY John Satter	CHECKED David Romero	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 8

CU 06227
EA 342121

BRIDGE NO.	NORTH AVENUE UNDERCROSSING
42-264R/L	
POST MILE	ABUTMENT DETAILS NO. 1
R20.1	

DS OSD 2139 (CADD 9/95)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 3-6-96, 3-25-96, 4-3-96, 4-17-96

SHEET 5 OF 12

USERNAME => $USER
$REQUEST

DATE PLOTTED => $DATE

CivilPDF.cmmdtools.com

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41	R12.1/R20.7	468	489

Patricia S. Preston
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER
PATRICIA S. PRESTON
No. 49591
Exp. 9-30-96
CIVIL
STATE OF CALIFORNIA

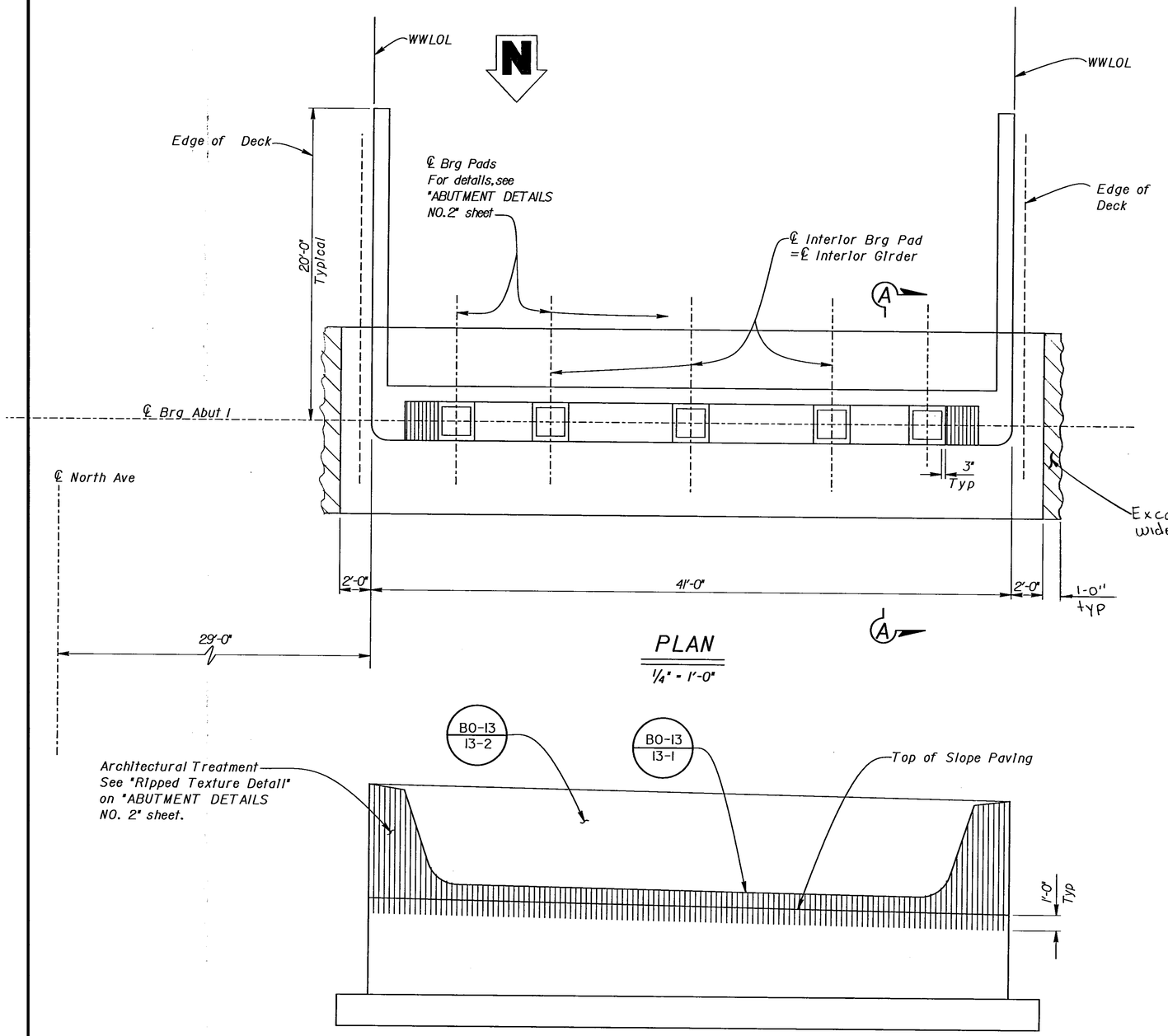
1-27-97
PLANS APPROVAL DATE

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NOTES:

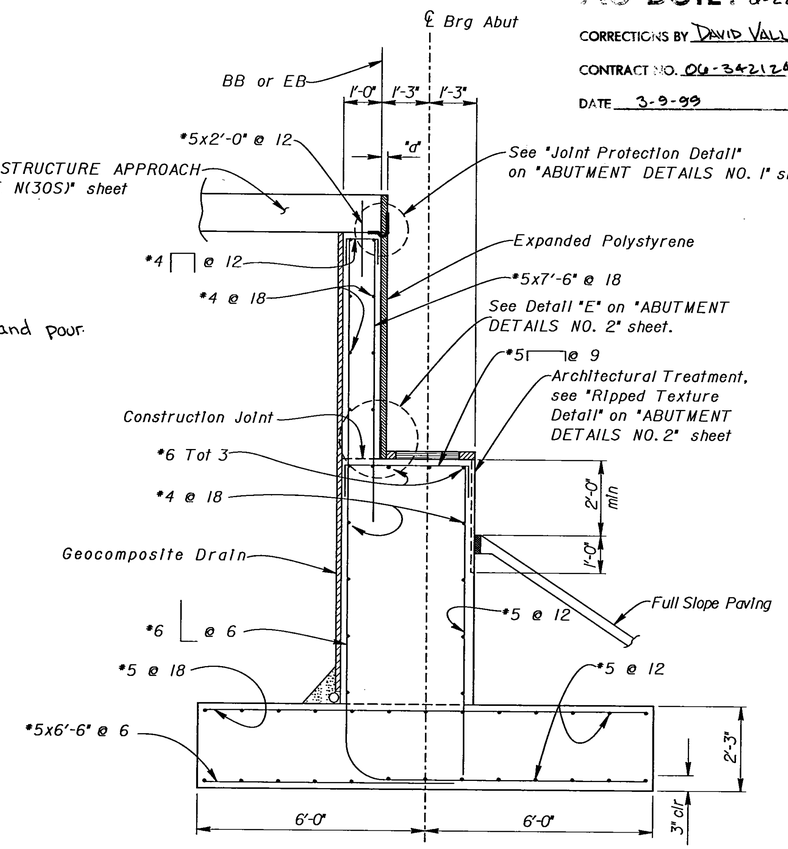
1. Abutment 1 Right shown, Abutment 1 Left and Abutment 2 Right & Left similar.
2. Concrete Barrier and Structure Approach not shown.
3. Ripped Texture Is not shown.

AS BUILT NK 6-22-99
CORRECTIONS BY DAVID VALLEJOS
CONTRACT NO. 06-342124
DATE 3-9-99



PLAN
1/4" = 1'-0"

ELEVATION
1/4" = 1'-0"



SECTION A-A
1/2" = 1'-0"

	BY	CHECKED
DESIGN	Overcomer Hor	Pat Preston
DETAILS	Roberta Lim	Pat Preston
QUANTITIES	John Satter	David Romero

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 8

CU 06227
EA 342121

BRIDGE NO. 42-264R/L
POST MILE R20.1

NORTH AVENUE UNDERCROSSING
ABUTMENT LAYOUT

DS OSD 2139 (CADD 9/95)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 3-5-96, 3-22-96, 4-10-96

SHEET 4 OF 12

USERNAME => $USER
$REQUEST

DATE PLOTTED => $DATE
TIME PLOTTED => $TIME

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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41	R12.1/R20.7	474	489

Patricia S. Preston
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER
PATRICIA S. PRESTON
No. 49591
Exp. 9-30-96
CIVIL
STATE OF CALIFORNIA

1-27-97
PLANS APPROVAL DATE

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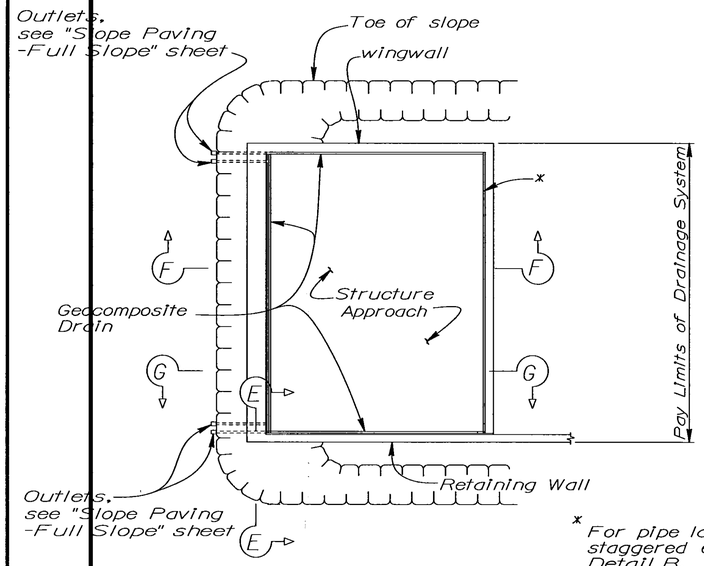
NO AS BUILT CORRECTIONS

AS BUILT N.K. 6-22-99

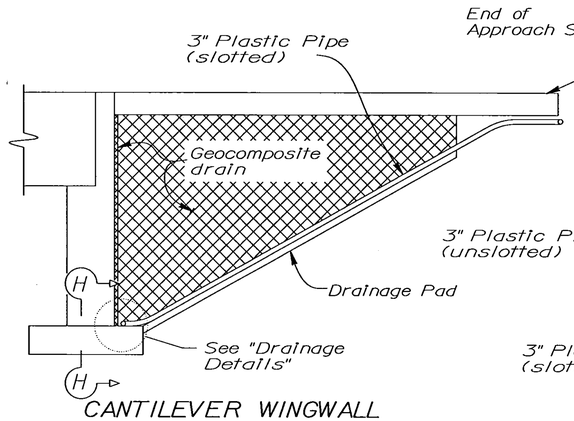
CORRECTIONS BY DAVID VALLEJOS

CONTRACT NO. 06-342124

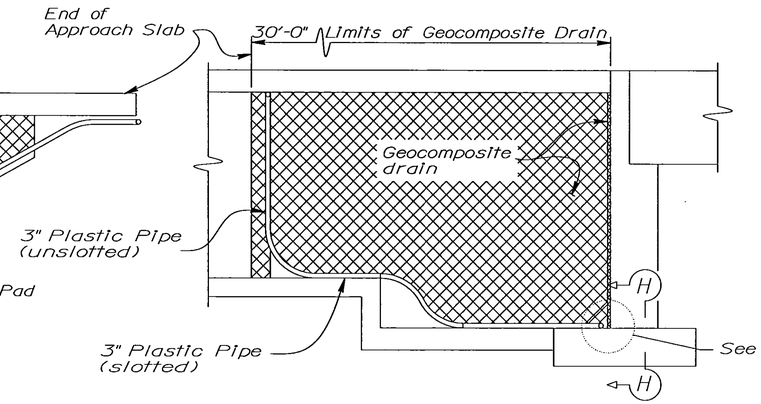
DATE 3-8-99



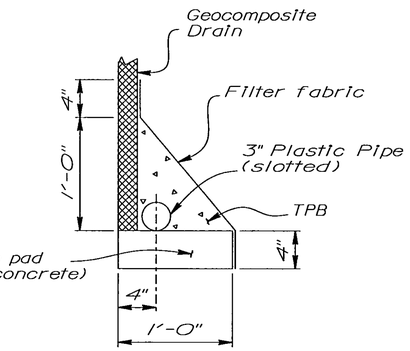
TYPICAL PLAN ◇1
1" = 10'-0"



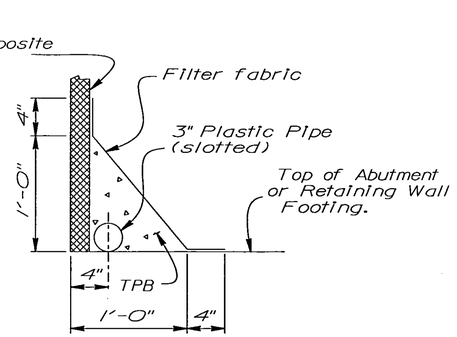
CANTILEVER WINGWALL
SECTION F-F ◇1
1/4" = 1'-0"



RETAINING WALL WINGWALL
SECTION G-G ◇1
1/4" = 1'-0"

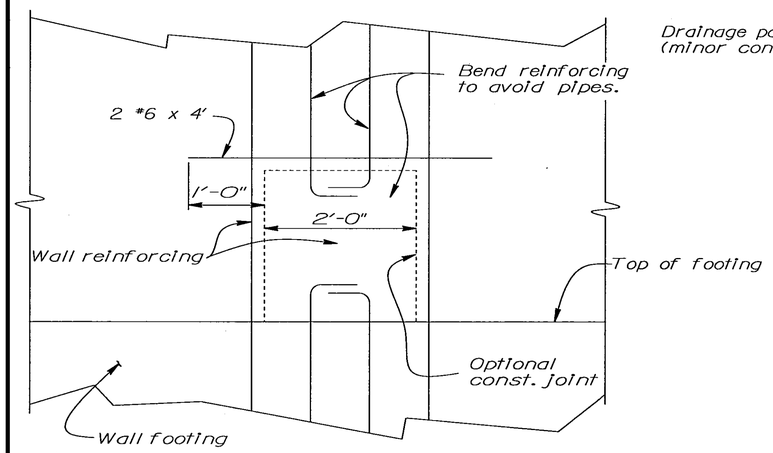


WITHOUT FOOTING

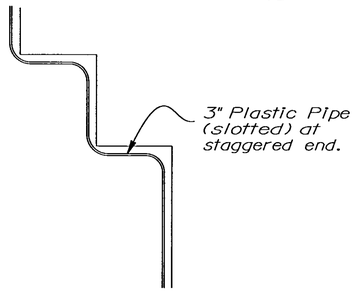


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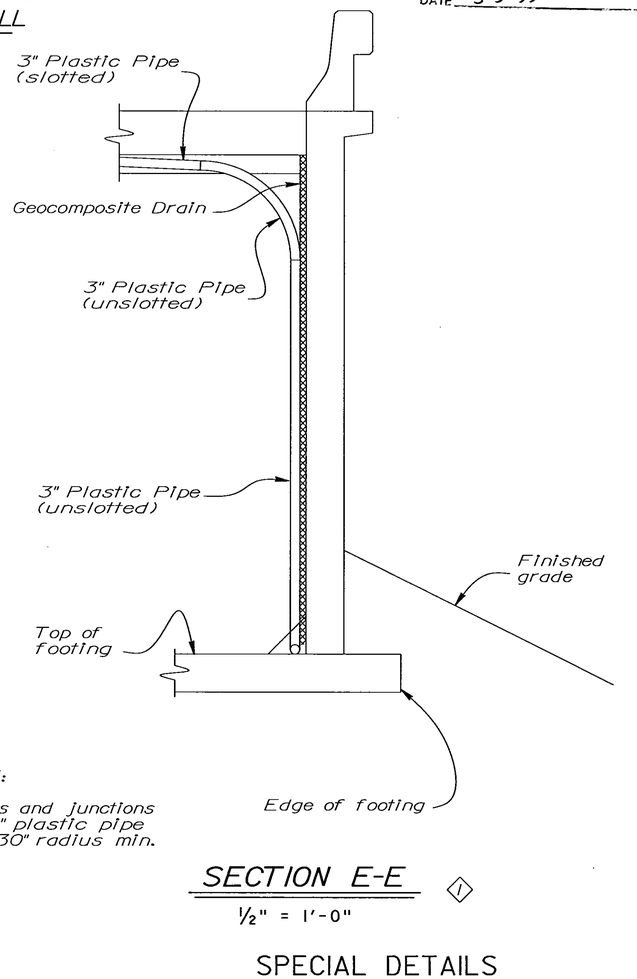
DRAINAGE DETAILS
1½" = 1'-0"



SECTION H-H
1" = 1'-0"



DETAIL B
No Scale



NOTE:
Bends and junctions in 3" plastic pipe are 30" radius min.

SECTION E-E ◇1
1/2" = 1'-0"

SPECIAL DETAILS

STANDARD DRAWING					
FILE NO. XS 22-17	DESIGN	BY M.Traffalis	CHECKED E.Thorkildsen	APPROVAL RECOMMENDED BY	
DRAWING DATE REVISED	DETAILS	BY J.F.Casarino	CHECKED E.Thorkildsen	DESIGN SUPERVISOR	
	SUBMITTED BY M.Ha				

◇1 Modified Detail

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 8

BRIDGE NO.	NORTH AVENUE UNDERCROSSING
42-264R/L	
POST MILE R20.1	STRUCTURE APPROACH DRAINAGE DETAIL

DS OSD 2147A (CADD 10/95)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06227
EA 342121

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 3-8-96, 4-18-96, 7-8-96

SHEET 10 OF 12

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DATE PLOTTED => $DATE

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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41	R12.1/R20.7	472	489

Patricia D. Preston
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — PATRICIA S. PRESTON — No. 49591 — Exp. 9-30-96 — CIVIL — STATE OF CALIFORNIA

1-27-97
PLANS APPROVAL DATE

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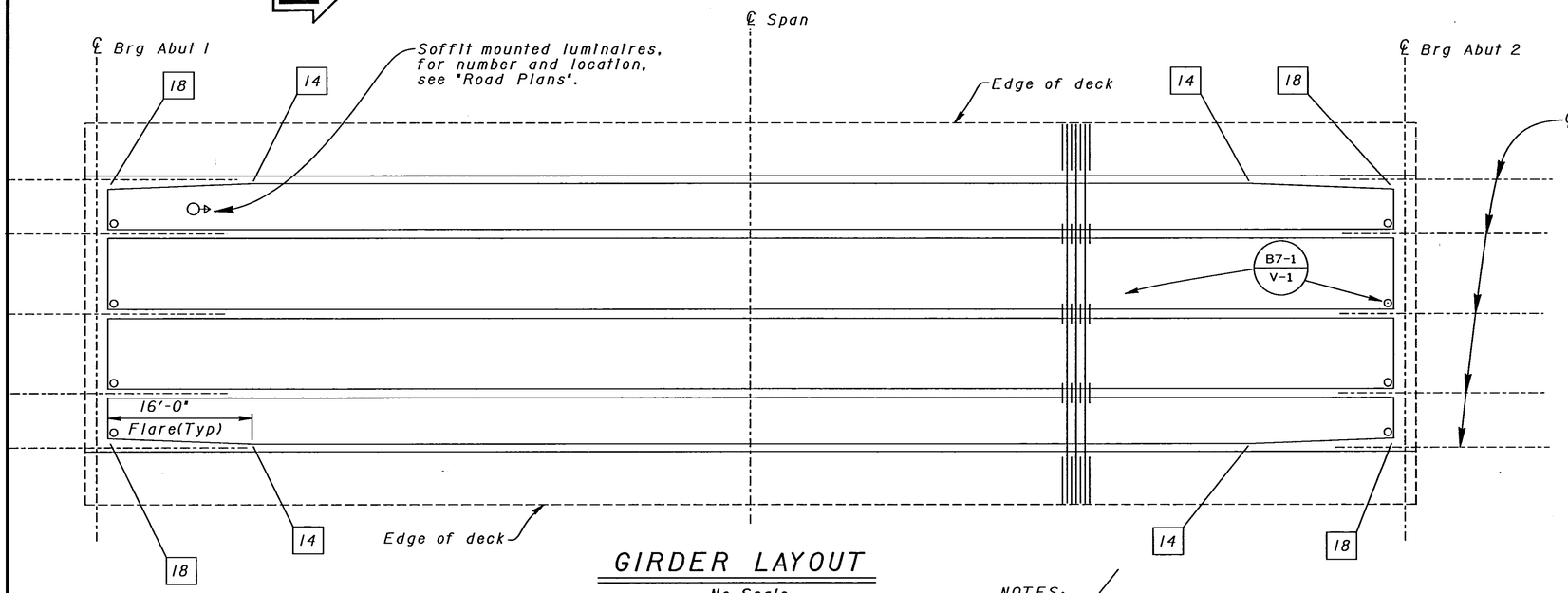
NO AS BUILT CORRECTIONS

AS BUILT MK. 6-22-99

CORRECTIONS BY DAVID VALLEJOS

CONTRACT NO. 06-342124

DATE 3-9-99

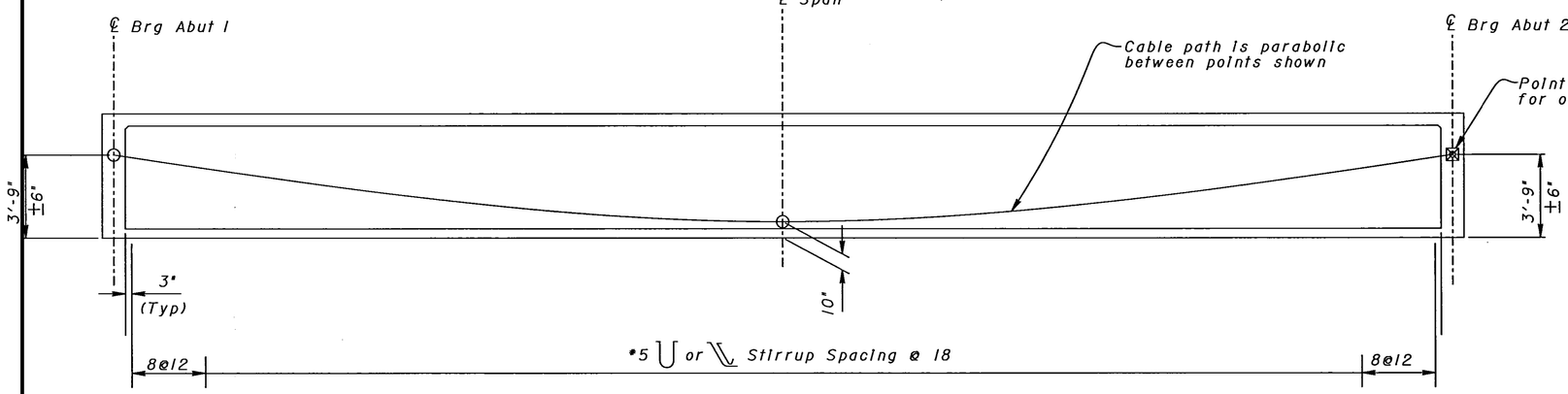


GIRDER LAYOUT

No Scale

NOTES:

1. □ Indicates girder width in inches.
2. Left Bridge shown, Right Bridge similar.



LONGITUDINAL SECTION

NO SCALE

PRESTRESSING NOTES FOR EACH STRUCTURE

270 KSI Low Relaxation Strand:

P_{jack} = 10520 kips

Maximum Jacking Stress = 0.72 f's

Anchor Set = 3/8 in

Total Number of Girders = 5

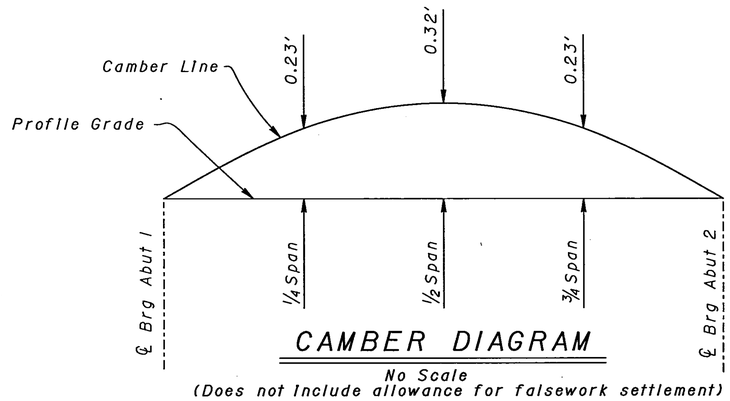
Distribution of prestress force (Pjack) between girders shall not exceed the ratio of 3:2. Maximum final force variation between girders shall not exceed 725 kips.

Concrete: f'_c = 4500 psi @ 28 days

f'_{ci} = 3500 psi @ time of stressing

Contractor shall submit elongation calculations based on initial stress at
☒ = 0.868 times jacking stress.

One end stressing shall be performed from either end.



CAMBER DIAGRAM

No Scale
(Does not include allowance for falsework settlement)

DESIGN	BY Overcomer Hor	CHECKED Pat Preston	
DETAILS	BY Roberta Lim	CHECKED Pat Preston	
QUANTITIES	BY John Satter	CHECKED David Romero	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 8

BRIDGE NO. 42-264R/L
POST MILE R20.1

NORTH AVENUE UNDERCROSSING
GIRDER LAYOUT

DS OSD 2139 (CADD 9/95)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06227
EA 342121

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 3-9-96, 3-29-96, 4-8-96, 4-15-96

SHEET 8 OF 12

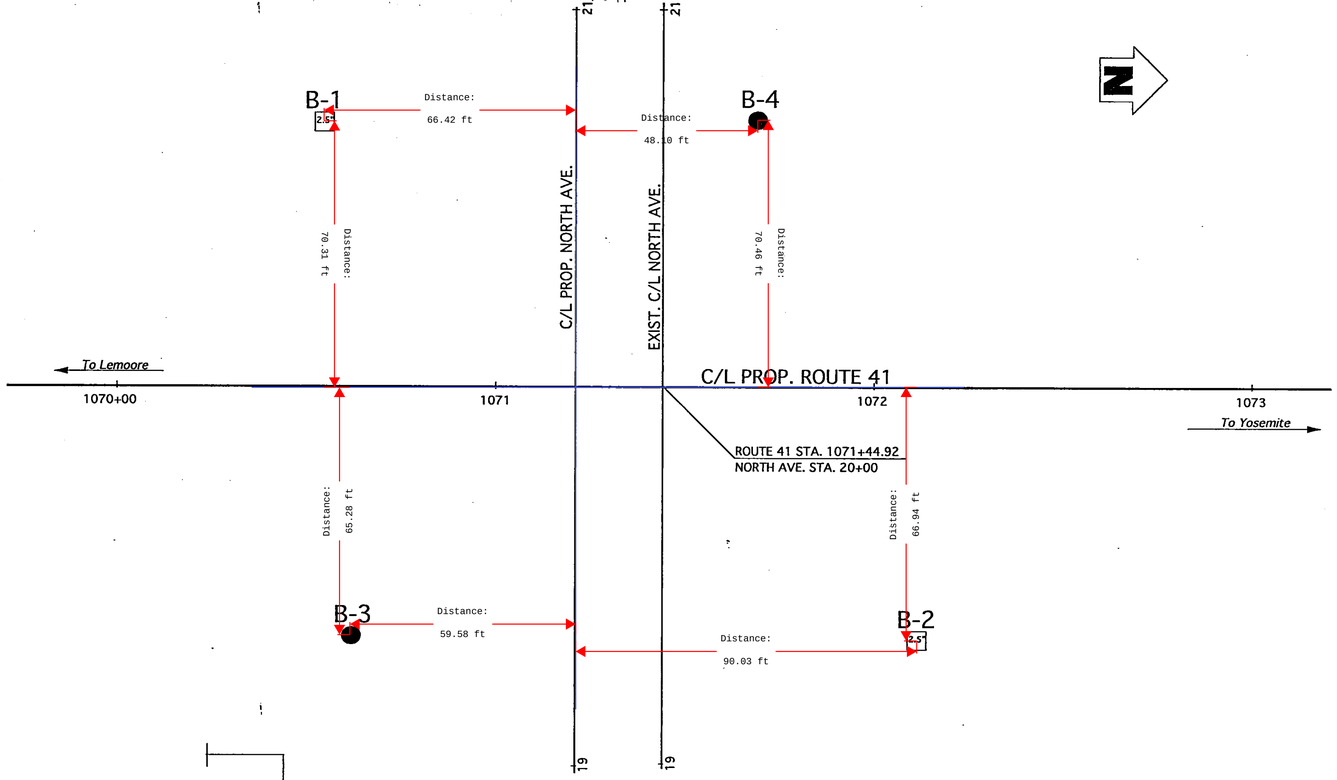
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DATE PLOTTED => $DATE

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BENCH MARK

BM 125-B NORTH ELEV. 275.861
N 495,650.670 E 1,769,746.155
T-BAR FLUSH-24' S OF C/L NORTH AVE.
7.14 N TO H & T 0.4' DN IN GUTTER
17.21 E TO N & S IN 60" EUC.



DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41	R12.1/R20.7	476	489

CERTIFIED ENGINEERING GEOLOGIST

REGISTERED GEOLOGIST — R.W. FOX — No. 78 — Exp. 8-31-95 — CERTIFIED ENGINEERING GEOLOGIST — STATE OF CALIFORNIA

1-27-97
PLANS APPROVAL DATE

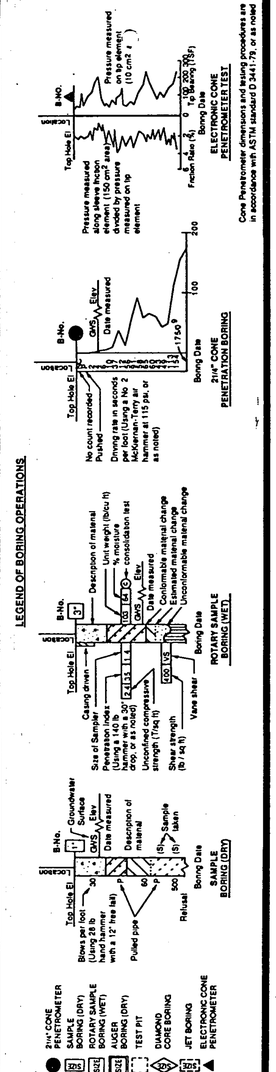
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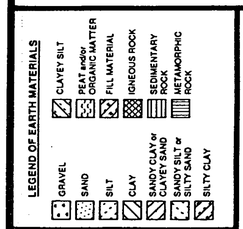
NO AS BUILT CORRECTIONS
AS BUILT NK 6-22-99
CORRECTIONS BY DAVID VALLEJOS
CONTRACT NO. 06342124
DATE 3-9-99

PLAN

1" = 20

NOTE:
PROPOSED C/L RTE 41 AS DEPICTED ON THE SITE PLAN DATED OCTOBER 5, 1993 WAS USED TO DETERMINE BOREHOLE STATIONING

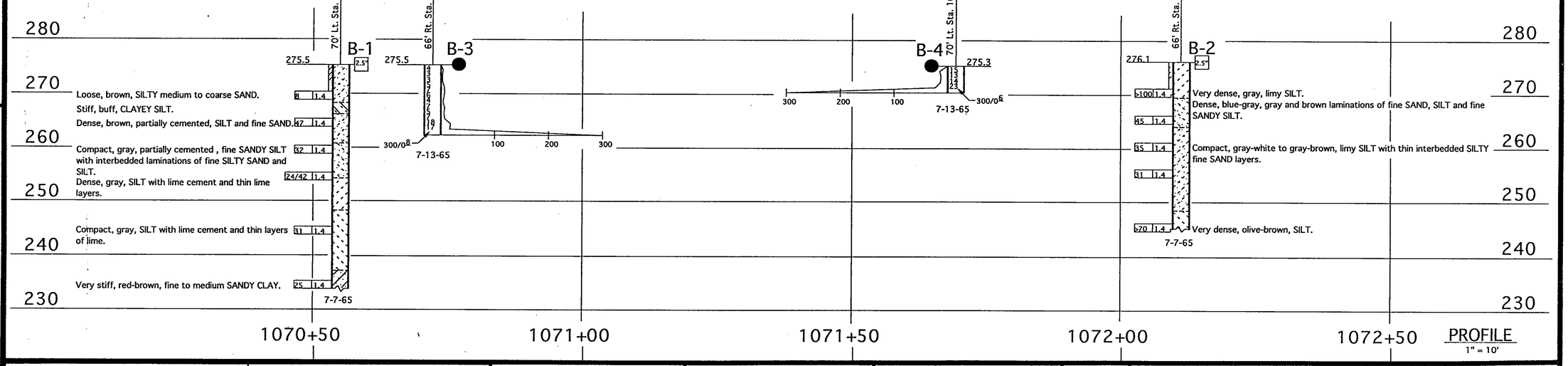




CONSISTENCY CLASSIFICATION FOR SOILS
According to the Standard Penetration Test

Penetration Index (Blows / Ft)	Granular	Cohesive
0-4	Very loose	Very soft
5-9	Loose	Soft
10-19	Slightly compact	Stiff
20-34	Compact	Very stiff
35-69	Dense	Hard
>70	Very dense	Very hard

NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.



PROFILE
1" = 10'

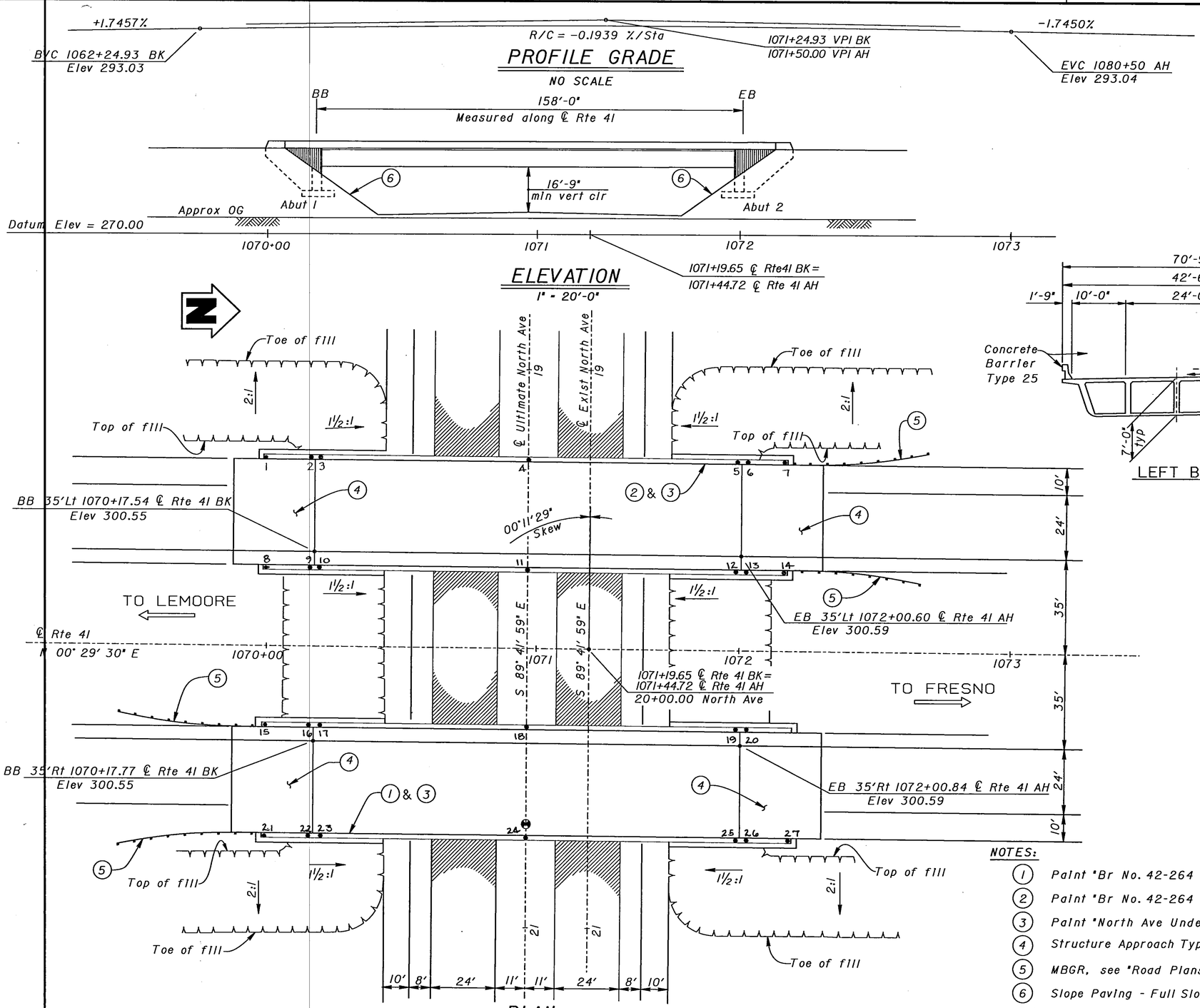
NOTES:
NO GROUND WATER WAS ENCOUNTERED DURING FIELD INVESTIGATION.

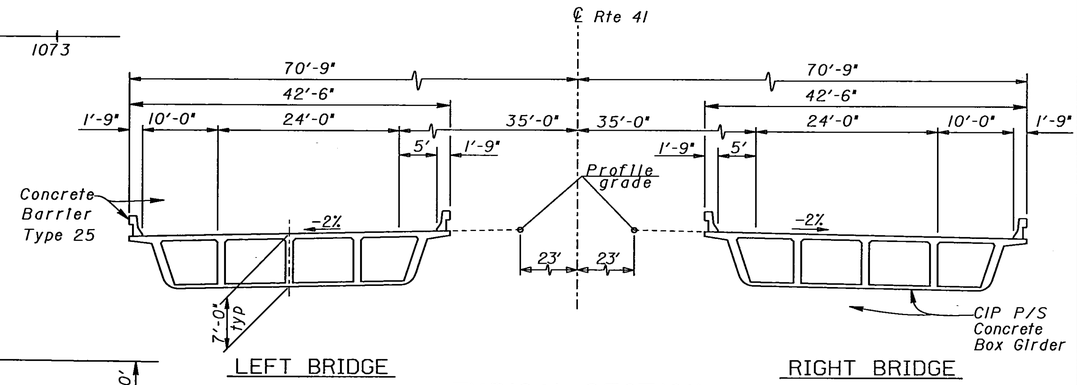
DIVISION OF NEW TECHNOLOGY, MATERIALS AND RESEARCH	OFFICE OF ENGINEERING GEOLOGY	FIELD INVESTIGATION BY: D. COCHRAN	State of CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN	BRIDGE NO. 42-264R/L
DRAWN BY Ken Wahl 2/95					POST MILE R20.1
CHECKED BY					NORTH AVENUE UNDERCROSSING
					LOG OF TEST BORINGS

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3
CU 06 EA 342601
DISREGARD PRINTS BEARING EARLIER REVISION DATES
REVISION DATES (PRELIMINARY STAGE ONLY)
SHEET 12 OF 12

TL 6051 REV. 2/92 83 22505

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TYPICAL SECTION

1" = 10'-0"

AS BUILT N.K. 6-22-99

CORRECTIONS BY DAVID VALLEJOS

CONTRACT NO. 06-342124

DATE 3-9-99

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41	R12.1/R20.7	465	489

Patricia D. Preston
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER — PATRICIA S. PRESTON — No. 49591 — Exp. 9-30-96 — CIVIL — STATE OF CALIFORNIA

1-27-97
PLANS APPROVAL DATE

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NOTE: For Brass Nail Elevations, see sheet 3.

NOTES:

1. Paint "Br No. 42-264 Right"
2. Paint "Br No. 42-264 Left"
3. Paint "North Ave Undercrossing"
4. Structure Approach Type N(30S)
5. MBGR, see "Road Plans"
6. Slope Paving - Full Slope

Point of Minimum Vertical Clearance

QUANTITIES

STRUCTURE EXCAVATION (BRIDGE)	1,145 CY
STRUCTURE BACKFILL (BRIDGE)	822 CY
PRESTRESSING CAST-IN-PLACE CONCRETE	LUMP SUM
STRUCTURAL CONCRETE, BRIDGE FOOTING	180 CY
STRUCTURAL CONCRETE, BRIDGE	1,205 CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N)	173 CY
RIPPED TEXTURE (REINFORCING BAR)	1,010 SQFT
JOINT SEAL (TYPE B-MR 2")	170 LF
BAR REINFORCING STEEL (BRIDGE)	249,700 LB
SLOPE PAVING (CONCRETE)	69 CY
CONCRETE BARRIER (TYPE 25)	814 LF

For General Notes, Index to Plans, & Standard Plans List, see "DECK CONTOURS" sheet.

Brian Mori
DESIGN ENGINEER

DESIGN	BY Pat Preston	CHECKED Overcomer Hor	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD			
DETAILS	BY Roberta Lim	CHECKED Overcomer Hor	LAYOUT	BY Pat Preston	CHECKED Overcomer Hor		
QUANTITIES	BY John Satter	CHECKED David Romero	SPECIFICATIONS	BY KB Iwasaki/BJN	PLANS AND SPECS COMPARED KB Iwasaki		

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 8

BRIDGE NO. 42-264R/L
POST MILE R20.1

NORTH AVENUE UNDERCROSSING
GENERAL PLAN

DS OSD 2138 (CADD 10/95)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06227
EA 342121

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY): 3-22-96 | 4-17-96 | 5-7-96

SHEET 1 OF 12

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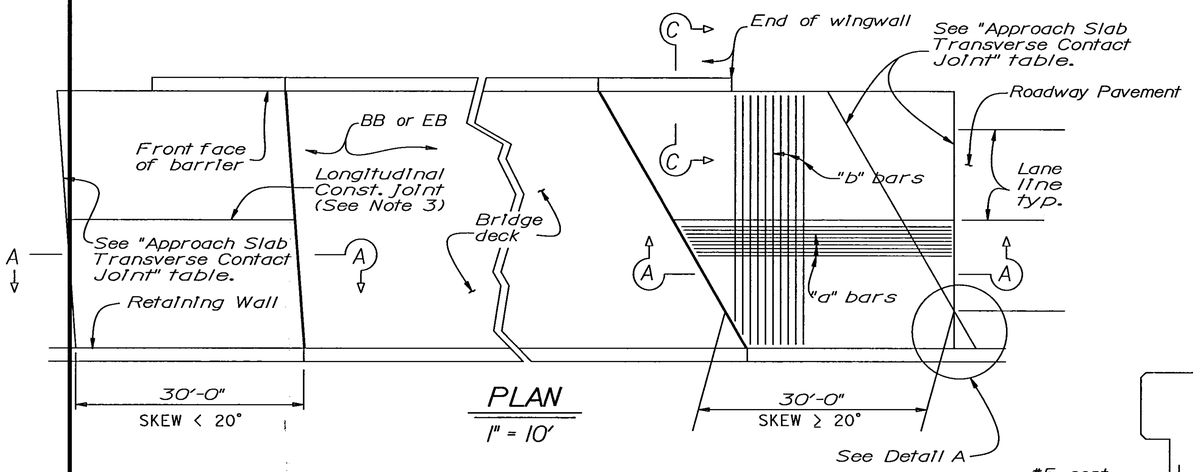
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41	R12.1/R20.7	473	489

Patricia S. Preston
REGISTERED ENGINEER - CIVIL

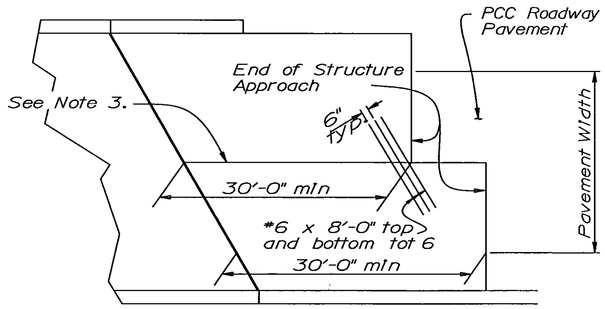
REGISTERED PROFESSIONAL ENGINEER
PATRICIA S. PRESTON
No. 49591
Exp. 9-30-96
CIVIL
STATE OF CALIFORNIA

1-27-97
PLANS APPROVAL DATE

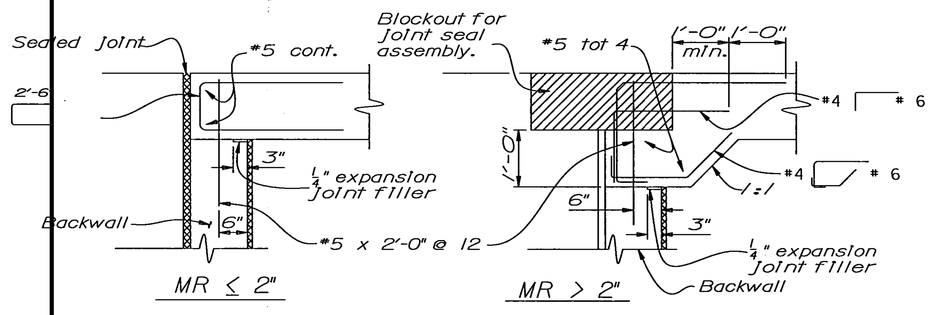
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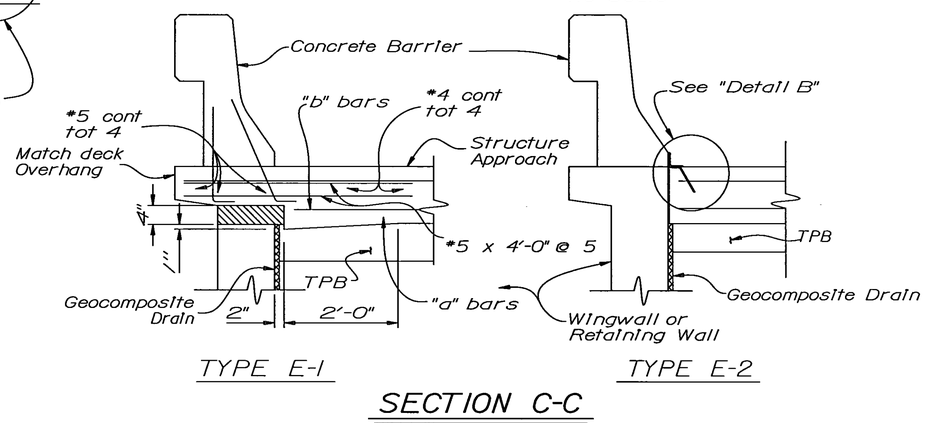
PLAN
1" = 10'



STRUCTURE APPROACH - END STAGGER DETAIL
No Scale

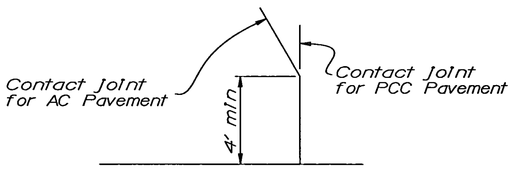


SEAT TYPE ABUTMENT TIE DETAILS (SEE NOTE 1)
3/4" = 1'-0"

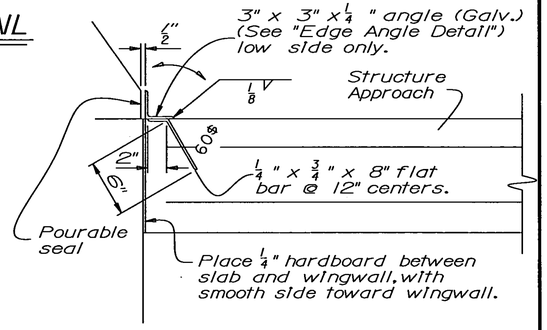


TYPE E-1 TYPE E-2

SECTION C-C
3/4" = 1'-0"
(TYPE E-1 TO BE USED, UNLESS OTHERWISE SHOWN ON PLANS)



DETAIL A
No Scale



DETAIL B
1 1/2" = 1'-0"

NO AS BUILT CORRECTIONS

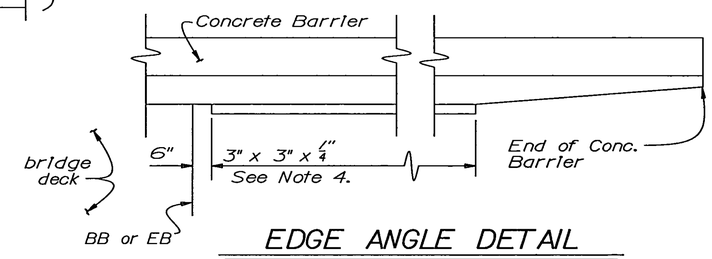
AS BUILT NK 6-22-95

CORRECTIONS BY DAVID VALLEJOS

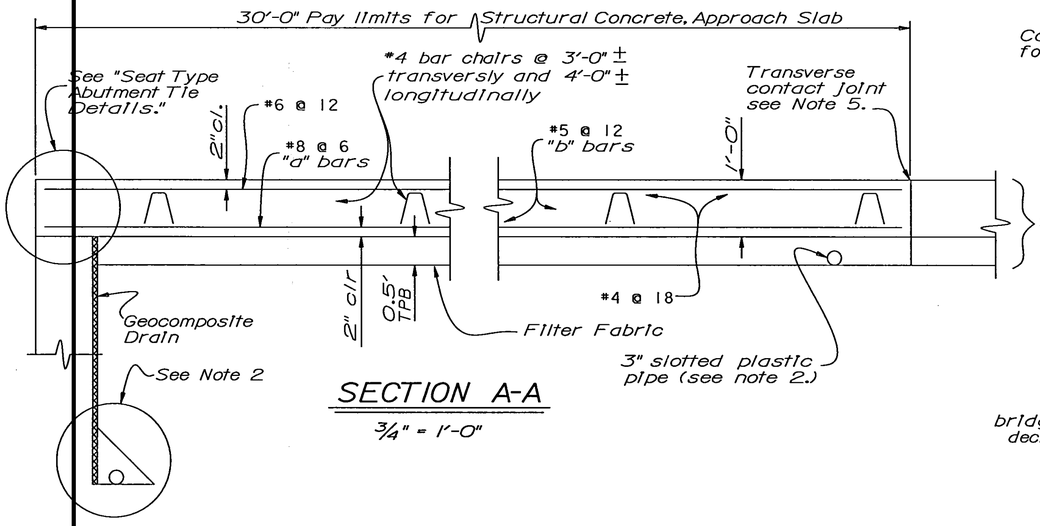
CONTRACT NO. 06-342124

DATE 3-9-95

APPROACH SLAB TRANSVERSE CONTACT JOINT		
APPROACH SKEW	W/ AC ROADWAY PAVEMENT	W/ PCC ROADWAY PAVEMENT
< 20°	Parallel to face of paving notch	Parallel to face of paving notch
20° - 45°	Parallel to face of P C C use (Detail A)	Stagger lines 24' to 36' apart.
> 45°	Parallel to face of P C C use (Detail A)	Stagger at each lane line.



EDGE ANGLE DETAIL
1/2" = 1'-0"



SECTION A-A
3/4" = 1'-0"

NOTES

1. For details not shown, see Structure Plans. For MR ≤ 2", adjust bar reinforcement to clear a sawcut for sealed joint, when required.
2. For drainage details, see "Structure Approach Drainage Details" sheet.
3. Longitudinal Construction Joints, when permitted by the Engineer, shall be located on lane lines.
4. End angle at beginning of barrier transition, end of wingwall or end of structure approach, as applicable.
5. For transverse contact joint with new PCC paving, refer to Standard Plan A35-A.
6. At the Contractor's option, approach slab transverse reinforcement may be placed parallel to paving notch. Spacing of transverse reinforcement is measured along ℄ roadway.

▨ Remove all polystyrene.

STANDARD DRAWING				
FILE NO. XS 22-18	DESIGN	BY M.Traffalis	CHECKED E.Thorkildsen	APPROVAL RECOMMENDED BY
DRAWING DATE 8/92	DETAILS	BY J.F.Casarino	CHECKED E.Thorkildsen	DESIGN SUPERVISOR
	SUBMITTED BY M.Ha			

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 8

BRIDGE NO.	NORTH AVENUE UNDERCROSSING
42-264R/L	
POST MILE R20.1	STRUCTURE APPROACH TYPE N(30S)

CU 06227
EA 342121

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 3-9-95 4-19-95

SHEET 9 OF 12

DS OSD 2147A (ADD 10/95)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

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DATE PLOTTED => $DATE

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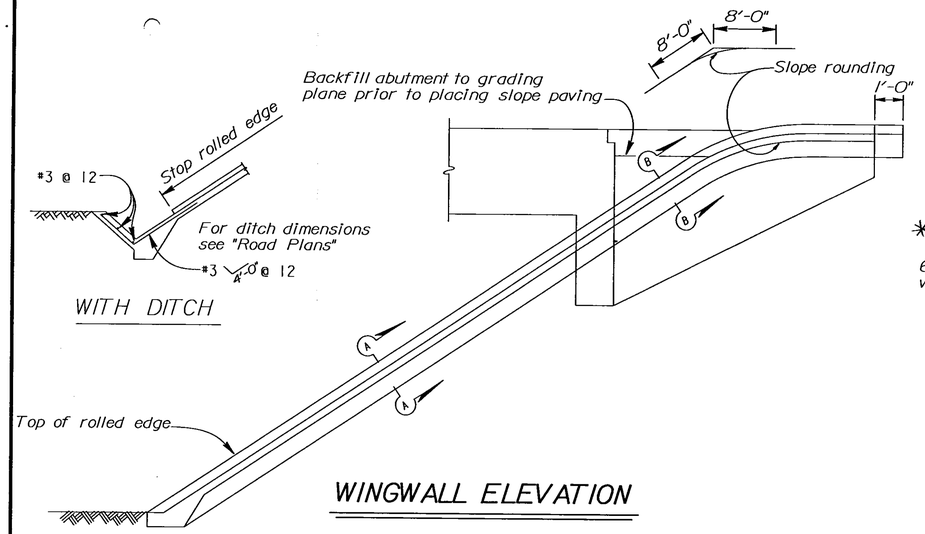
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41	R12.1/R20.7	475	489

Patricia D. Preston
REGISTERED ENGINEER - CIVIL

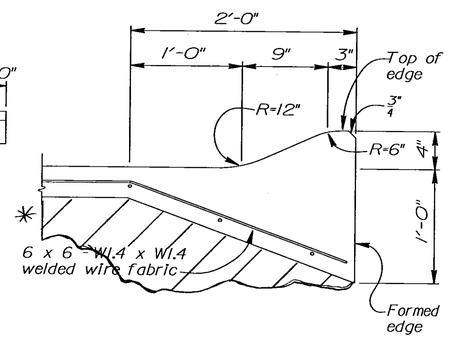
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1-27-97
PLANS APPROVAL DATE

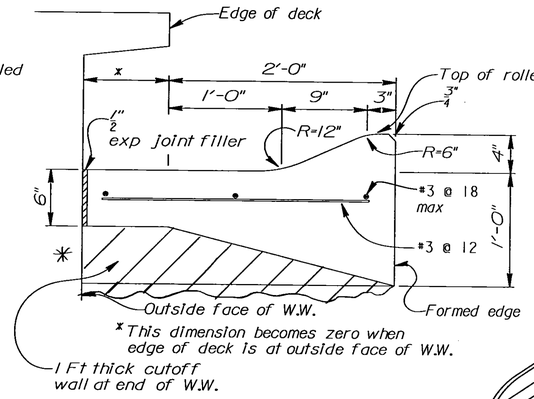
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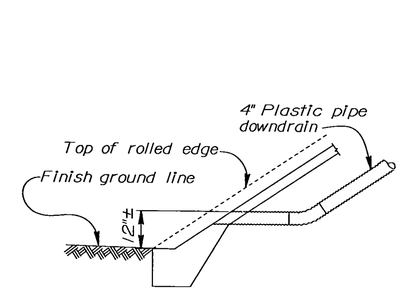
WINGWALL ELEVATION



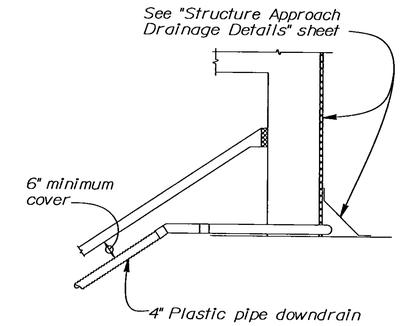
SECTION A - A



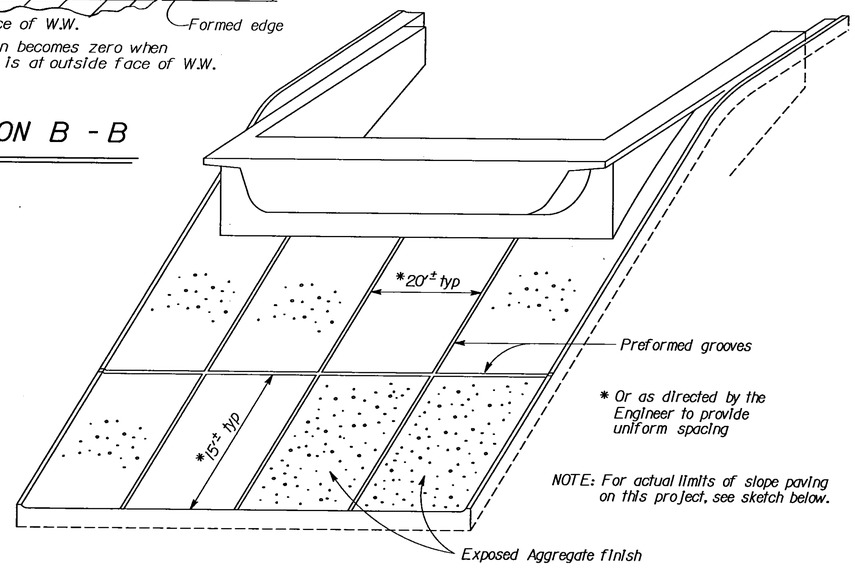
SECTION B - B



TYPICAL - NO CURB



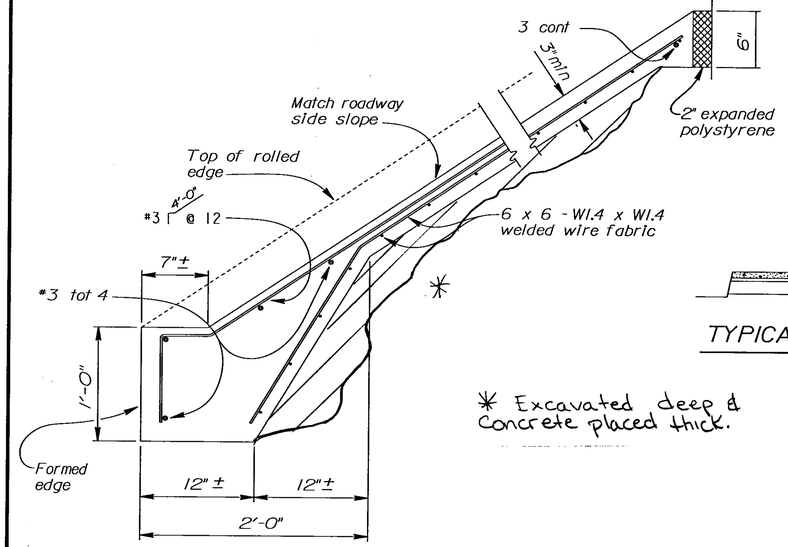
TYPICAL - DRAIN CONNECTION



* Or as directed by the Engineer to provide uniform spacing

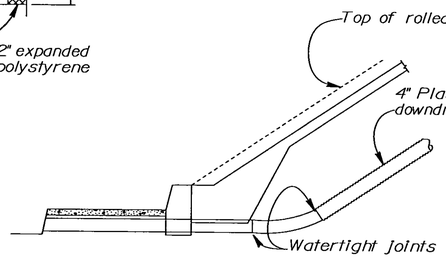
NOTE: For actual limits of slope paving on this project, see sketch below.

PICTORIAL VIEW OF TYPICAL INSTALLATION

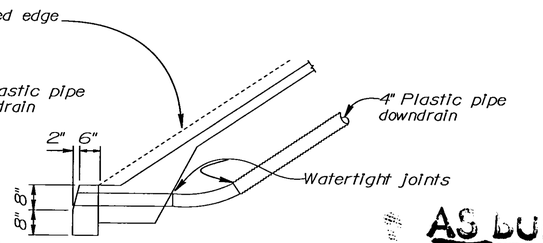


TYPICAL SECTION - CONCRETE PAVING

* Excavated deep & Concrete placed thick.



TYPICAL - WITH SIDEWALK



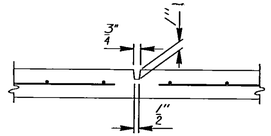
TYPICAL - WITH CURB

Note: See "Road Plans" for curb details

DRAINAGE DETAILS

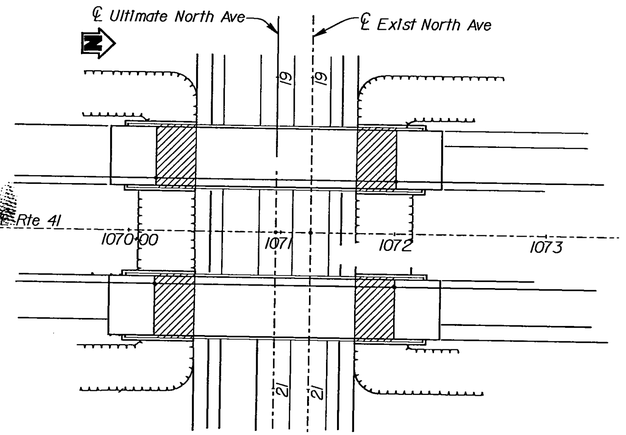
Note: Minimum radius curve for 4" plastic pipe is 30".

Note: Details are not to scale



PREFORMED GROOVE

AS BUILT 6-22-99
CORRECTIONS BY DAVID VALLEJOS FOR Rte 41
06-342124
DATE 3-9-99



LIMITS OF SLOPE PAVING

No Scale

	BY	CHECKED
DESIGN	Overcomer Hor	Pat Preston
DETAILS	Roberta Lim	Pat Preston
QUANTITIES	John Satter	David Romero

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 8

BRIDGE NO. 42-264R/L
POST MILE R20.1

NORTH AVENUE UNDERCROSSING
SLOPE PAVING-FULL SLOPE

DS OSD 2139 (CADD 9/95)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06227
EA 342121

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)										SHEET	OF
3-8-96	4-8-96	5-8-96	7-10-96							11	12

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$REQUEST

DATE PLOTTED => $DATE
TIME PLOTTED => $TIME

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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41	R12.1/R20.7	471	489

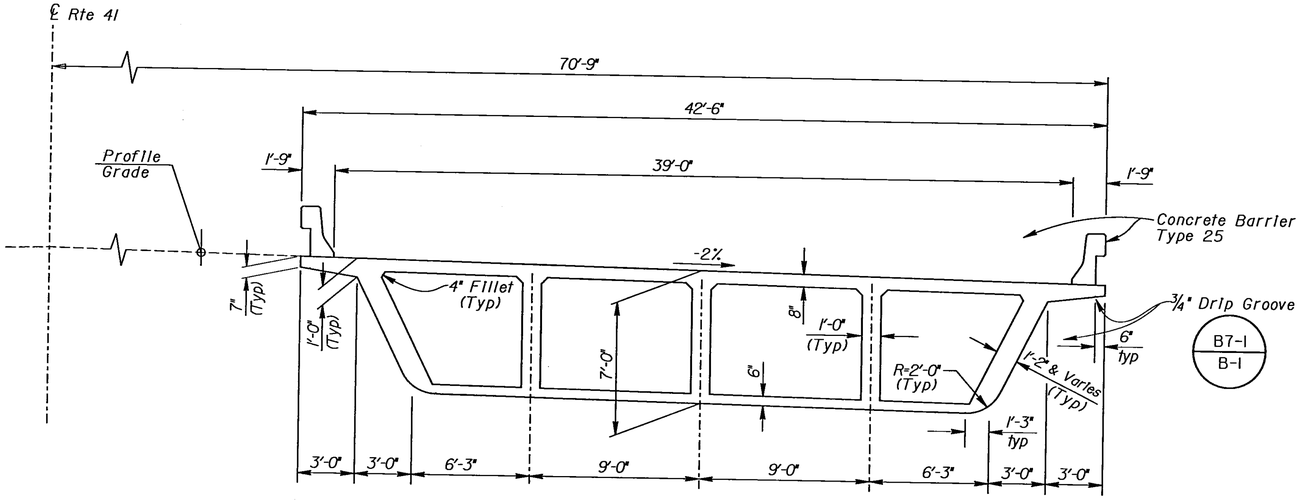
Patricia S. Preston
REGISTERED ENGINEER - CIVIL

REGISTERED PROFESSIONAL ENGINEER
PATRICIA S. PRESTON
No. 49591
Exp. 9-30-96
CIVIL
STATE OF CALIFORNIA

1-27-97
PLANS APPROVAL DATE

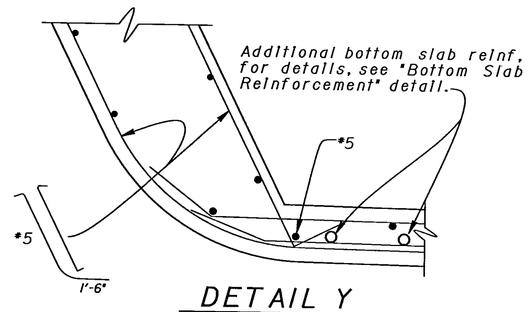
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NO AS BUILT CORRECTIONS
AS BUILT NK. 6-22-99
CORRECTIONS BY David Vallejos
CONTRACT NO. 06-382124
DATE 3-9-99



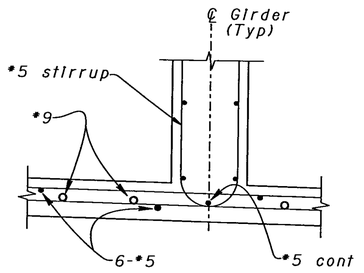
TYPICAL SECTION

1/4" = 1'-0"



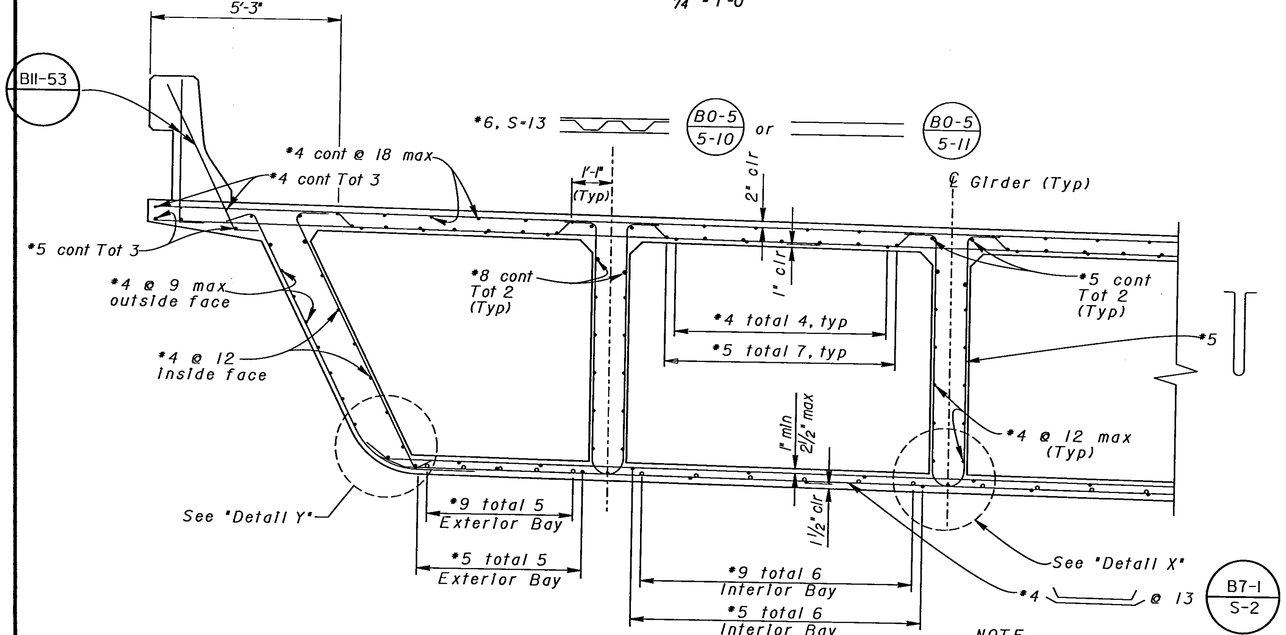
DETAIL Y

No Scale



DETAIL X

No Scale

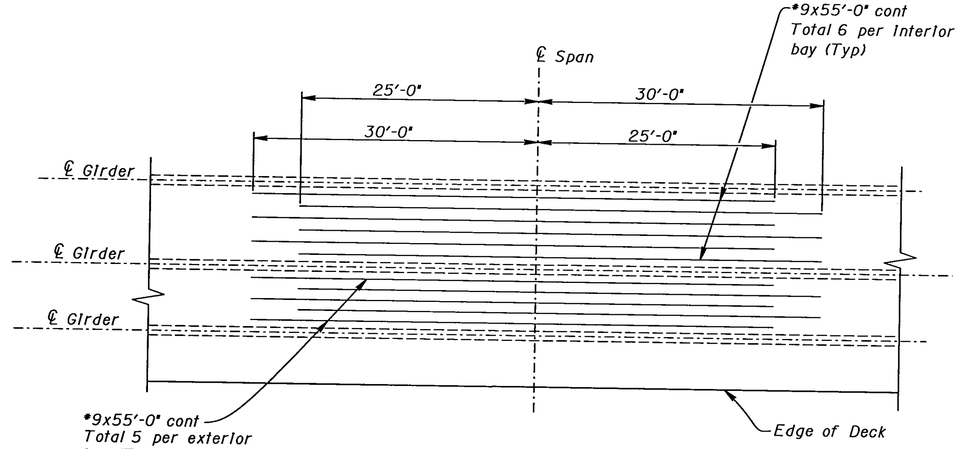


NOTE:
Right Bridge shown,
Left Bridge similar.

PART TYPICAL SECTION

1/2" = 1'-0"

B0-5 B7-1 B8-5



BOTTOM SLAB REINFORCEMENT

No Scale

DESIGN	BY Overcomer Hor	CHECKED Pat Preston	
DETAILS	BY Roberta Lim	CHECKED Pat Preston	
QUANTITIES	BY John Satter	CHECKED David Romero	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 8

BRIDGE NO. 42-264R/L
POST MILE R20.1

NORTH AVENUE UNDERCROSSING
TYPICAL SECTION

DS OSD 2139 (CADD 9/95)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 06227
EA 342121

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): 1-8-96, 3-29-96, 4-8-96, 7-8-96

SHEET 7 OF 12

USERNAME => $USER
$REQUEST

DATE PLOTTED => $DATE
TIME PLOTTED => $TIME

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California Department of Transportation
Division of Maintenance

Structure Maintenance and Investigations

BRIDGE

INSPECTION

RECORDS

INFORMATION

SYSTEM

The requested documents have been generated by BIRIS.

These documents are the property of the California Department of Transportation and should be handled in accordance with Deputy Directive 55 and the State Administrative Manual.

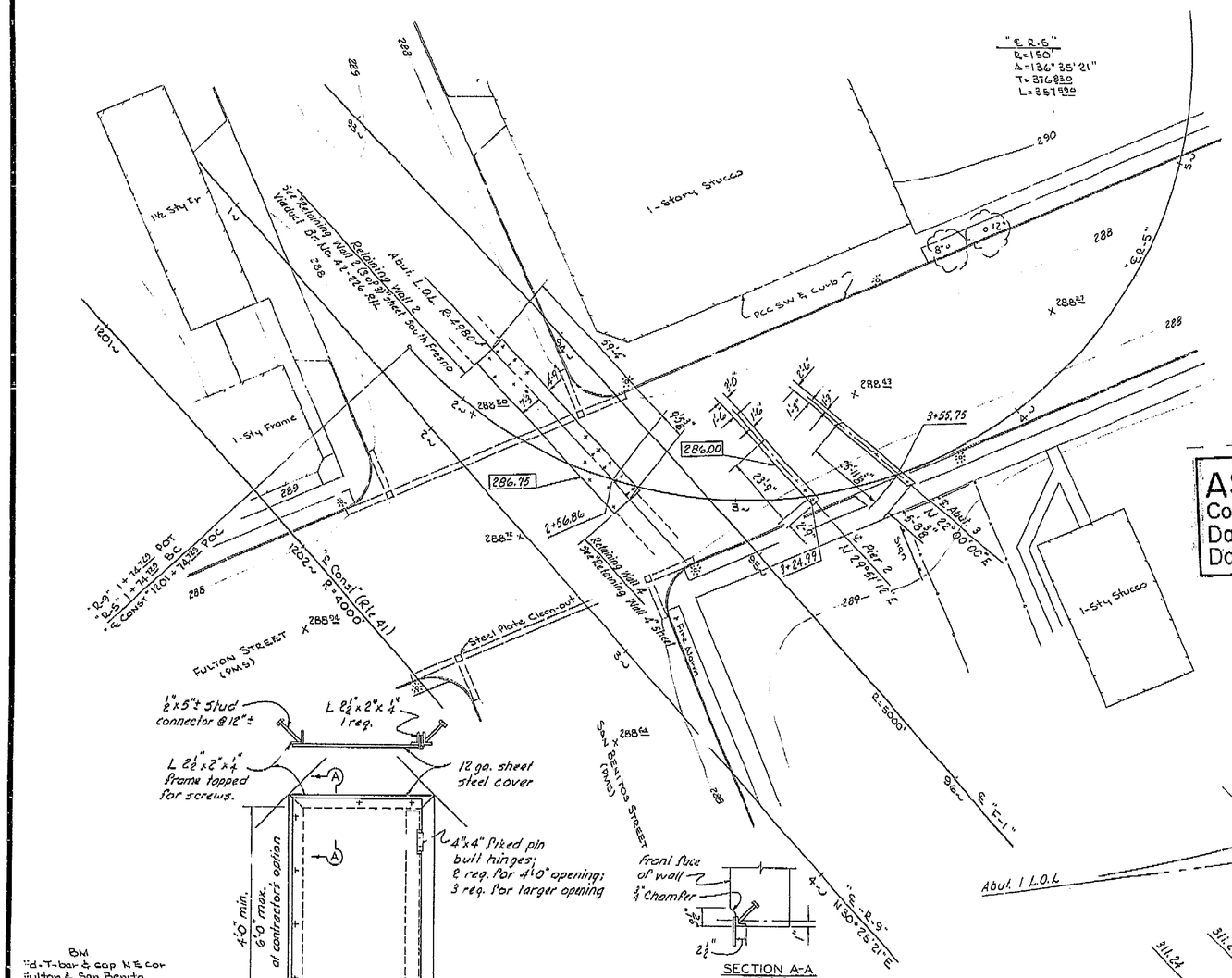
Records for “Confidential” bridges may only be released outside the Department of Transportation upon execution of a confidentiality agreement.

FED. ROADS DIV. (10)	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre.	~~41~~ 99	22.1	155	161

ACTING DISTRICT ENGINEER — CIVIL ENGINEER—LICENSE 3286

DATE APPROVED October 5, 1964



LEVEL DATUM: Disc 12.16.T
FOR ALINEMENT THIS SEE BR. 42229-3 & 6 (T.S.)
CONTOURS AS OF: 11-63
SITE PLAN TO SUPPLEMENT DISTRICT DATA.
SURVEY BY: R.D.R. DATE 11-63
DRAWN BY: R.D.R. DATE 11-63
TRACED BY: J.S. DATE 11-12-63

Notes: Assemblies to be welded. Galvanize after fabrication.

GENERAL NOTES

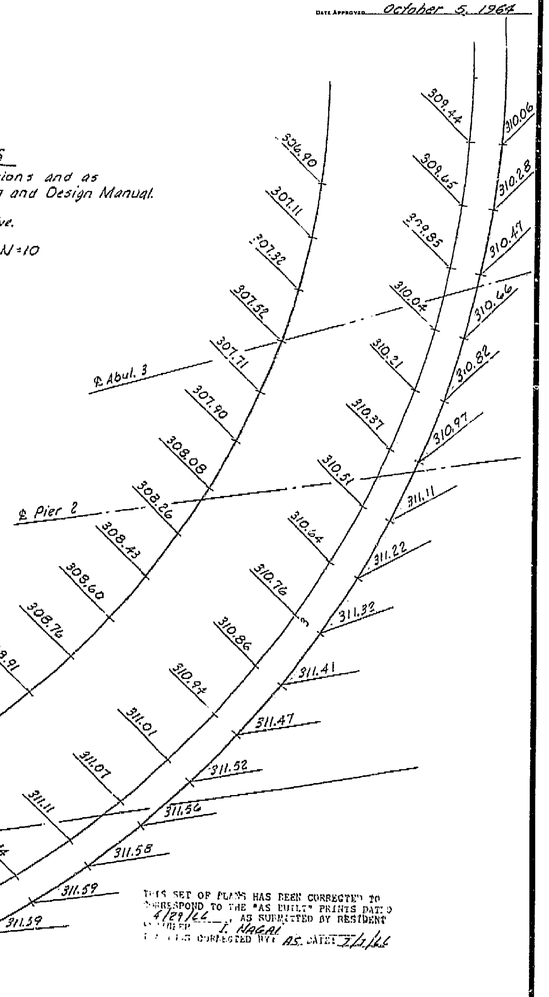
Design: A.A.S.H.O Dated 1961 with revisions and as supplemented by Bridge Planning and Design Manual.

Live Loading: H20-S16-44 and Alternative.

Reinforced Concrete: F_s = 20,000 P.S.I., N=10
F_c = 1,200 P.S.I.

AS BUILT PLANS
Contract No. 14-014234
Date Completed 5-16-66
Document No. 60000018

Notes: For complete pile layout see "Abutment 1 Details" & "Pier 2 & Abutment 3 Details" sheet.
000.0 Indicates bottom of footing elevations.



10' GRID OF DECK ELEVATIONS
1"=10'

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/29/66 AS SUBMITTED BY RESIDENT ENGINEER J. NAGAI
THESE CORRECTIONS WERE AS DATED 7/1/66

SHEET	OF
2	8

BRIDGE DEPARTMENT
DESIGN SECTION
Section Supervisor R.E. Blake

DESIGN	By	B.L. Fraser	2&4
	Checked	C. Stas-Cast	1-64
DETAILS	By	Y. Nakayama	4-64
	Checked	G. Stanchfield	4-64
QUANTITIES	By	L.M. Nystrom	5-64
	Checked	C.O. Myers	5-64

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY ON-RAMP OVERCROSSING

FOUNDATION PLAN

Except as Noted SCALE 1"=20' | BRIDGE 42-229 | FILE F-42 | DRAWING 42229-3

PRELL. DRAWING NO. P- 64 4 5 15

PR. 42229-1

62-06TI0H0142.4

155

138

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FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	41	21.9/22.1	156	161

R. L. Blakely
BRIDGE ENGINEER — CIVIL ENGINEER — LICENSED 8689

DATE APPROVED: October 5, 1964

Retaining Wall 4
See "Retaining Wall 4" sheet.

R-5' Line R=150'

Detail W-1

Retaining Wall 2
See "Retaining Wall 2 (3 of 3)" sheet, South Fresno Viaduct Bridge No. 42-226 R/L

℄ Brg. R=497875

R=4980

10"x22" Exp. Brg. Assembly

Face of Abut. = Abut. L.O.L.

2'-6"

9" 13'-0" 3 Spaces @ 13'-0" = 39'-0"

9'-5 3/8" 59'-4"

PLAN
1/2" = 1'-0"

Elev. 310.38

E A 3/4" Exp. Jt. Filler

B B C C D D E E

Detail W-1

Detail J-6 @ 15'± ctrs.

4"ϕ Drains @ 15'± ctrs. 1'-0" above finish grou..

Top of sidewalk

Piles not shown

A A

ELEVATION
1/2" = 1'-0"

Notes: + Indicates 16" C.I.O.H. vertical piles
‡ Indicates 16" C.I.O.H. battered piles 1:3
For details see "Abutment 1" sheet South Fresno Viaduct Br. No. 42-226 R/L

R-5' Line R=150'

℄ Abut. L.O.L

4th Row	7'-11 7/8"	1@8	4'-2 3/8"	4 Spaces @ 11'-10" = 47'-4"
3rd Row		1@8	10'-1 7/8"	4 Spaces @ 11'-10" = 47'-4"
1st & 2nd Row	5'-11"	1@8	4'-2 3/8"	9 Spaces @ 5'-11" = 53'-3"

Measured along Abut. L.O.L

PILE LAYOUT PLAN
1/8" = 1'-0"

Detail L-1

Detail W-1

This section to be placed after deck has been finished.

Const. jt.

℄ Brg.

Abut. L.O.L.

#3 □ @12

#7 Tot. 4

#4 @12

#4 @18

#5 @12

#4 @12

6'-0"

3'-0"

1:1

2'-0"

1'-6"

Pervious backfill material continuous behind v all.

#11 @14

#4 @18

#4 @36

Varies

2"Cl.

2"Cl.

#11 @14

Baller 1/2:12

#4 @18

3'-0"

4'-6"

1 Cubic ft. of pervious backfill material in a burlap sack tied securly.

4"ϕ Drains @ 15'± ctrs. 1'-0" above finish ground Slope to drain 1/2" per ft.

#10 Tot. 6

8" 8" 8"

#11 @14

#8 Tot. 4

3'-0"

2'-0"

1'-6" 3'-0" 2'-9" 3'-0" 1'-6"

4'-9" 3" 7'-9"

#4 x 7'-0" @18

SECTION A-A
3/8" = 1'-0"

#4 Tot. 2

#4 Tot. 4

3/4" Exp. Jt. Filler

SECTION B-B
3/8" = 1'-0"

#4 @18

#4 Tot. 13

#4 @18

#4 Tot. (typ.) @18

3/4" Exp. Jt. Filler

SECTION C-C
3/8" = 1'-0"

1'-0"

ELEVATION E-E
3/8" = 1'-0"

3/4" Exp. Jt. Filler

#4 Tot. 5

#4 @

#4 @18

1'-0"±

SECTION D-D
3/8" = 1'-0"

AS BUILT PLANS
Contract No. 12-214234
Date Completed 5-16-66
Document No. 6000208018

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS AS SUBMITTED BY RESIDENT ENGINEER F. Nagai
TRACINGS CORRECTED BY: BS DATE 7/12/66

SHEET	OF
9	18

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor R.L. Blakely

DESIGN	By	BL. Frasse 2-64
	Checked	C. Shi...Chief 4-64
DETAILS	By	Y. Nakayama 4/64
	Checked	E. Flynn Chief 4-64
QUANTITIES	By	EM Hoppe 5-64
	Checked	DR Mason 5-64

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY ON-RAMP OVERCROSSING

ABUTMENT 1 DETAILS

SCALE As Noted | BRIDGE 42-229 | FILE | DRAWING 42229-4

Disregard prints bearing earlier revision dates →

PRELIMINARY DRAWING No. P-54 4-9-64 5-64

REVISION DATES

156

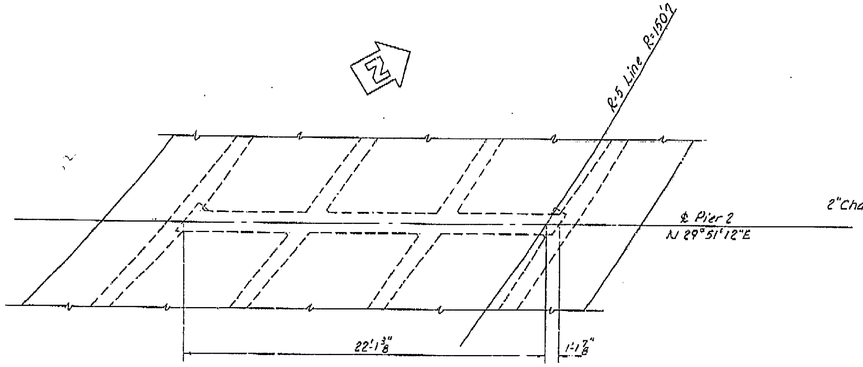
159

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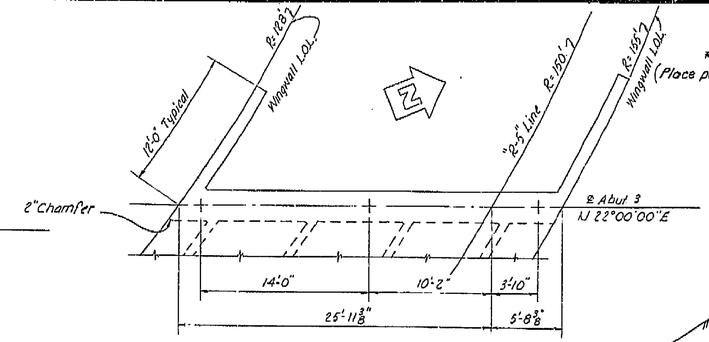
DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	Fre	41	23/227	157	161

Date Approved: October 5, 1966

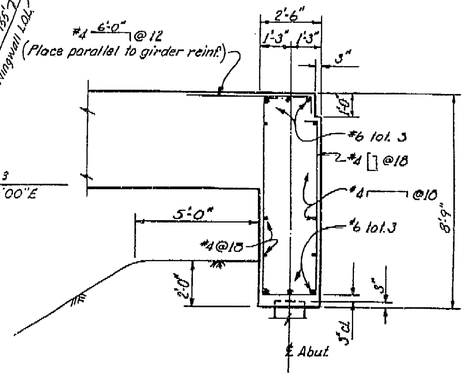
BRIDGE NO. (WHEN ASSIGNED)	STATE	F. A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.			



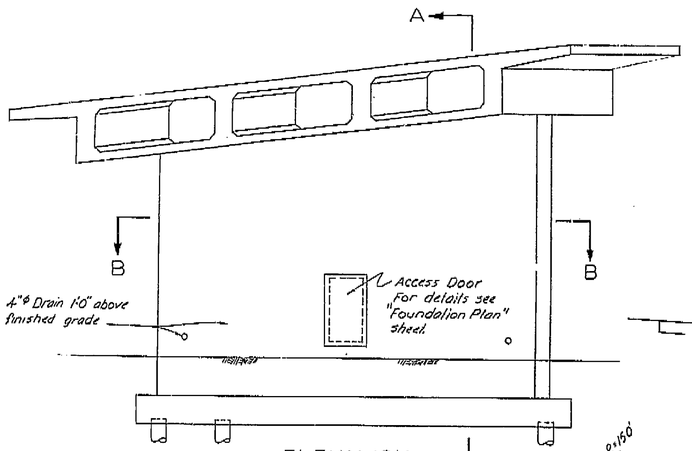
PLAN
1/4"=1'-0"



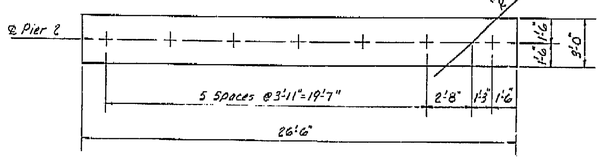
PLAN
1/8"=1'-0"



ABUTMENT SECTION

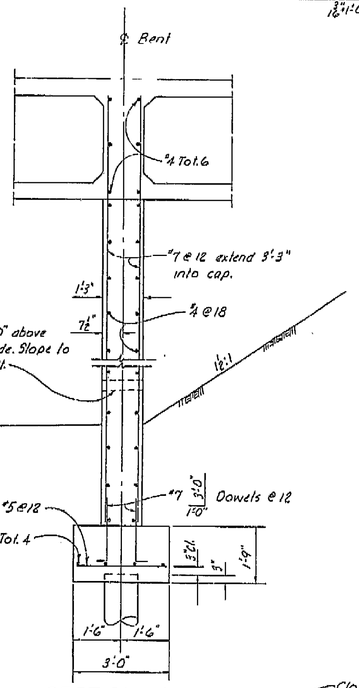


ELEVATION
1/4"=1'-0"

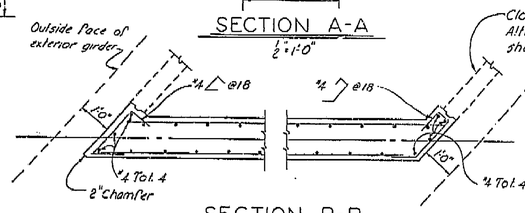


FOOTING PLAN
1/4"=1'-0"

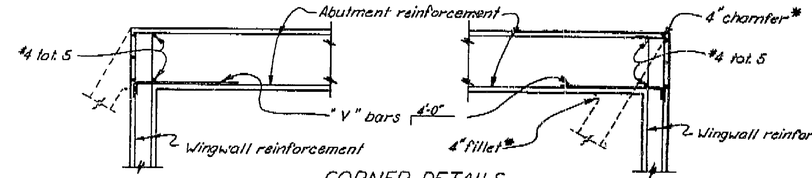
Notes: + Indicates 16" C.I.O.H vertical piles. For details see "Abutment 1" sheet South Fresno Viaduct Br. No. 42-226 R/L.
For details of Closure Walls see "Closure Wall Details" sheet South Fresno Viaduct Br. No. 42-226 R/L.



SECTION A-A
1/2"=1'-0"



SECTION B-B
1/2"=1'-0"



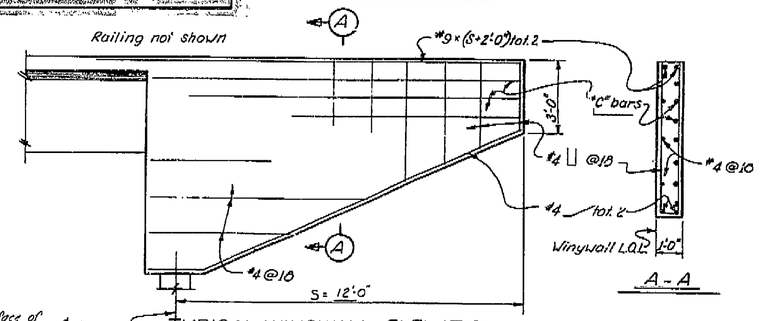
CORNER DETAILS

*on abutments skewed 20° or more.

"S"	"C" BARS	"V" BARS
12'	#5@9	#4@18
14'	#6@9	#4@18
16'	#7@9	#4@18
18'	#8@9	#5@18
20'	#9@9	#6@18

AS BUILT PLANS
Contract No. 11-01-6234
Date Completed 5-16-66
Document No. 4000001112

THIS SET OF PLANS WAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 7/29/66, AS SUBMITTED BY RESIDENT ENGINEER T. NAGAI
TRACINGS CORRECTED BY: RS DATE: 7/2/66



TYPICAL WINGWALL ELEVATION

A - A

SHEET	OF
4	8

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor R.C. Blake

DESIGN	by	B.L. Fenner 2-66
	Checked	C. Hinchliff 1-67
DETAILS	by	Y. Nakamura 4-67
	Checked	C. Hinchliff 7-67
QUANTITIES	by	J.M. Hughes 5-66
	Checked	D.R. Miller 5-66

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY ON RAMP OVERCROSSING

PIER 2 & ABUTMENT 3 DETAILS

SCALE	BRIDGE	FILE	DRAWING
no scale unless shown	42-229		42229-5

Disregard prints bearing earlier revision dates

PRELIMINARY DRAWING No. P.D. 41 7-61 5-66

REVISION DATES

157

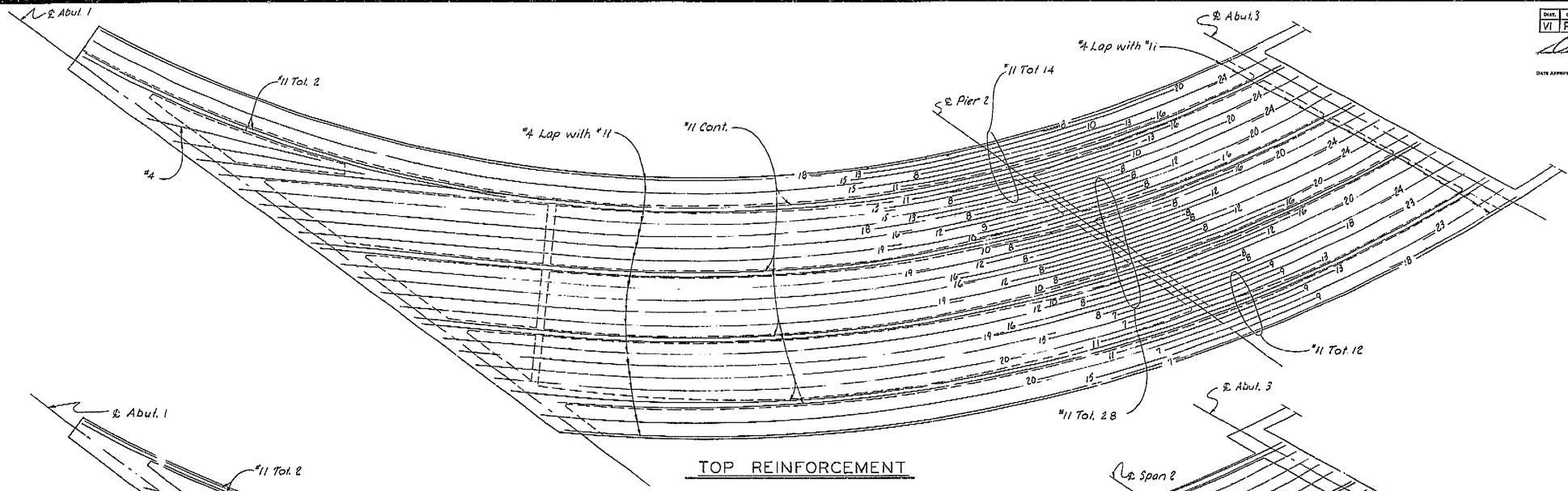
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FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.			

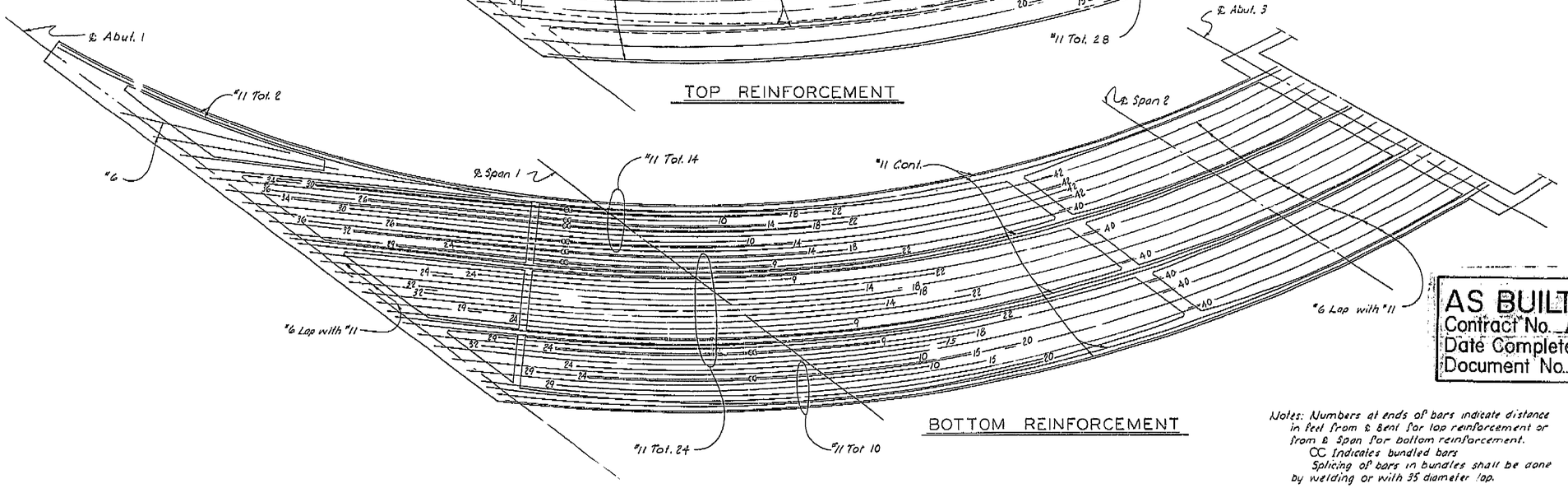
DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	Fre	~~41~~	31.9/22.1	160	161

ROBERT BRADDOCK CIVIL ENGINEER—LICENSE 8926

DATE APPROVED: October 5, 1964



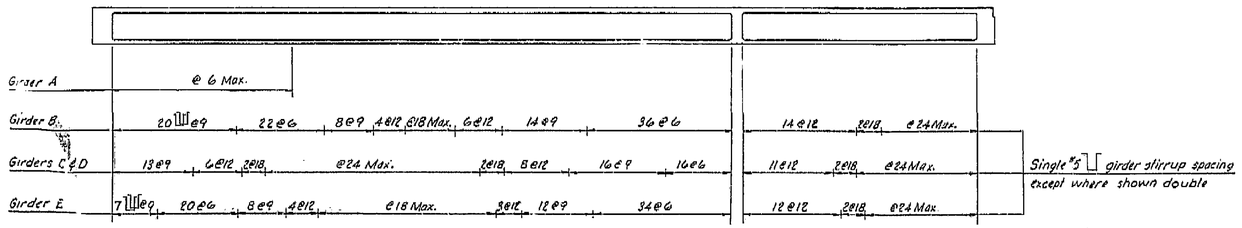
TOP REINFORCEMENT



BOTTOM REINFORCEMENT

Notes: Numbers at ends of bars indicate distance in feet from ℄ Bent for top reinforcement or from ℄ Span for bottom reinforcement.
CC Indicates bundled bars
Splicing of bars in bundles shall be done by welding or with 35 diameter lap.

THIS SET OF PLANS WAS PREPARED TO CONFORM AS CLOSELY AS POSSIBLE TO THE AS BUILT CONDITIONS AS SHOWN ON THE PLANS DATED 4/29/64 AS SUBMITTED BY THE CONTRACTOR. ANY DEVIATIONS FROM THE PLANS WERE CORRECTED BY AS BUILT NOTES DATED 7/2/66



LONGITUDINAL SECTION

AS BUILT PLANS
Contract No. 14-012231
Date Completed 5-16-66
Document No. 60000018

SHEET	OF
7	8

BRIDGE DEPARTMENT		
DESIGN SECTION 15		
Section Supervisor	R.C. Blake	
DESIGN	By	Bl. Fraser 2-65
	Checked	R. Yamabe 4-64
DETAILS	By	Y. Nakayama 7-64
	Checked	C. Hinkamp 4-64
QUANTITIES	By	E.A. Whipple 5-64
	Checked	D.F. Mann 5-64

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY ON-RAMP OVERCROSSING

GIRDER REINFORCEMENT

SCALE	BRIDGE	FILE	DRAWING
None	42-229		42229-7

Disregard prints bearing earlier revision dates →

PRELIMINARY DRAWING No.	REVISION DATES
P-7/64 4/9	

160

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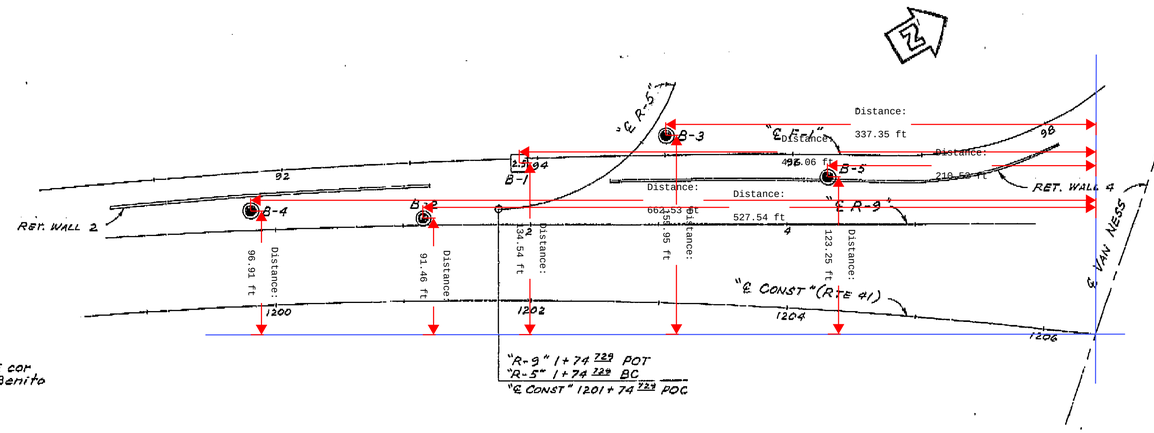
FED. ROAD DIST. NO.	STATE	F. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	41	21.9/22.1	161	161

DISTRICT ENGINEER — CIVIL ENGINEER—LICENSE 9885

DATE APPROVED October 5, 1964

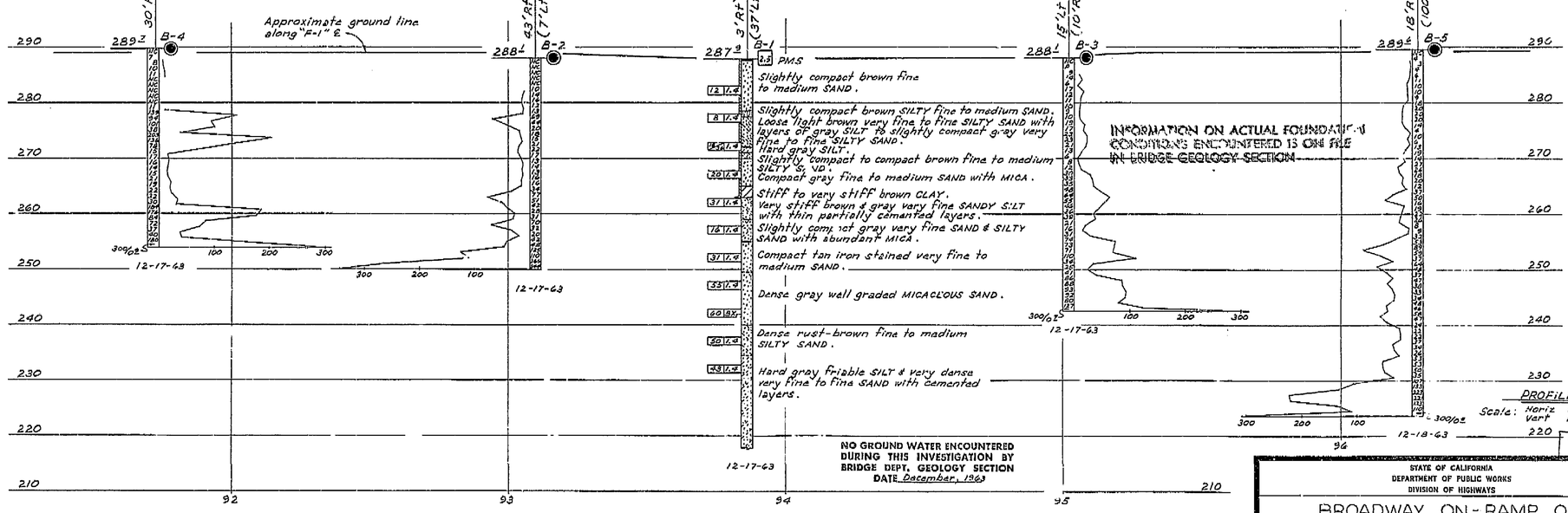
AS BUILT PLANS
Contract No 12-011234
Date Completed 5-16-66
Document No 200200-2



BM
T-bar & cap NE cor
Fulton & San Benito
Elev. 288.26

"R-9" 1+74.729 POT
"R-5" 1+74.729 BC
"℄ CONST" 1201+74.729 POC

PLAN
Scale: 1"=50'



NO GROUND WATER ENCOUNTERED DURING THIS INVESTIGATION BY BRIDGE DEPT. GEOLOGY SECTION
DATE December, 1963

PROFILE
Scale: Horiz 1"=20'
Vert 1"=10'

LEGEND OF BORING OPERATIONS

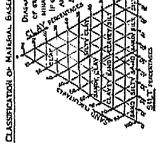
Penetrometer
2½" Cone Penetrometer
Sampler boring (SPT)
Rotary boring (RTY)
Auger boring (ARB)
Jet boring
Cone boring
Test pit

LEGEND OF EARTH MATERIALS

Gravel
Sand
Silt
Clay
Silty Clay or Clayey Silt
Peat, Humus, Organic Matter
Fill Material
Igneous Rock
Sandy Clay or Silty Clay
Sandy Silt or Silty Sand
Sedimentary Rock
Metamorphic Rock

CLASSIFICATION OF MATERIAL BASED ON STANDARD GRAIN SIZE LIMITS

Diagram shows the basis for estimates of grain size distribution used in determining classifications. If gravel is present in appreciable amounts add the term "gravelly" to the classification, e.g. "gravelly sand". The terms "trace" and "with" are used to indicate minor amounts of other materials. Refer to standard grain size limits.

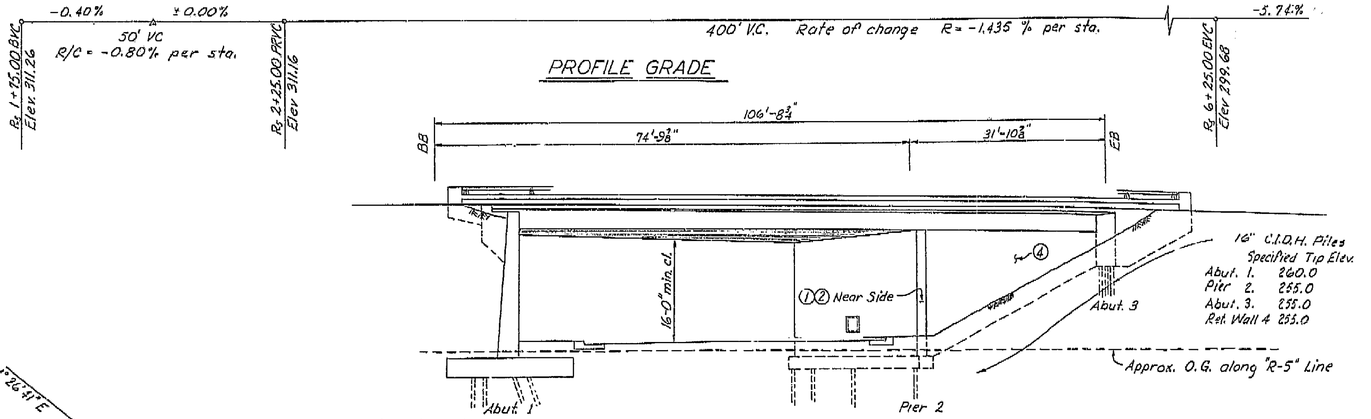

Gravel
Sand
Silt
Clay
Fine
Medium
Coarse
Fine
Medium
Coarse
Silt and Clay
Boulders
Cobbles
Gravel
Sand
Silt or

U-034-2(2)

FED. ROAD DIV. / NO.	STATE	F. A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.			

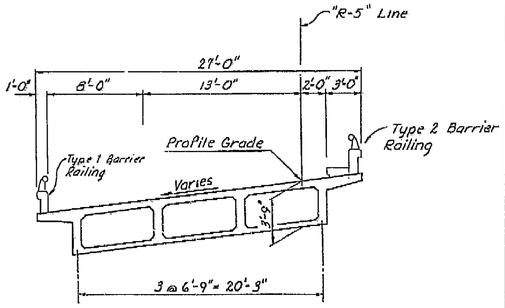
DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	Fre	180	31R/12R	154	161

DATE APPROVED October 5, 1964



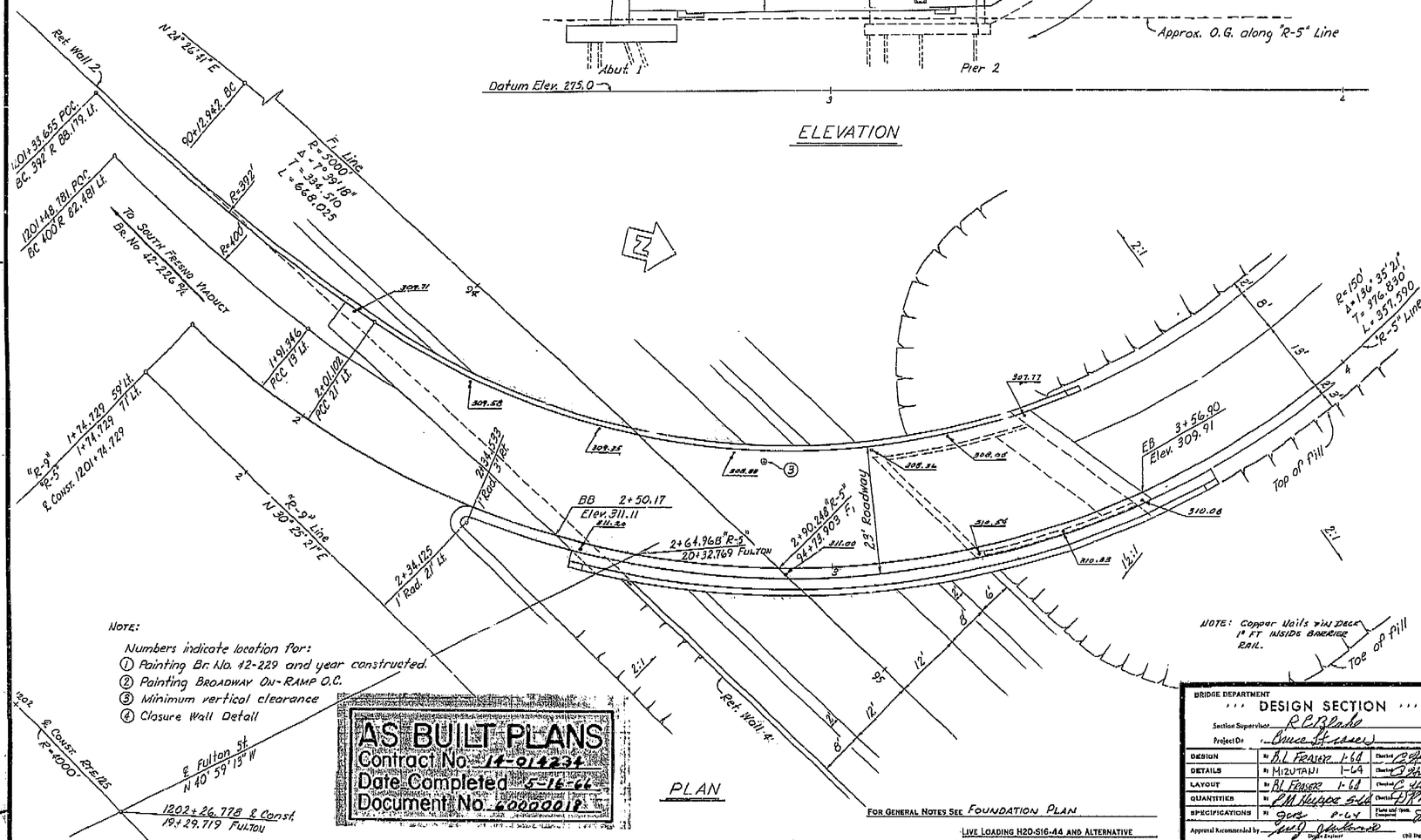
PROFILE GRADE

ELEVATION



TYPICAL SECTION

¾" = 1'-0"



PLAN

NOTE:
Numbers indicate location for:
① Painting Br. No. 42-229 and year constructed.
② Painting Broadway On-Ramp O.C.
③ Minimum vertical clearance
④ Closure Wall Detail

AS BUILT PLANS
Contract No. 11-014231
Date Completed 5-16-66
Document No. 60000018

For General Notes see Foundation Plan

Live Loading H20-S16-44 and Alternative

INDEX TO PLANS

Sheet No	Title
1.	General Plan
2.	Foundation Plan
3.	Abutment 1 Details
4.	Pier 2 & Abutment 3 Details
5.	Retaining Wall 4
6.	Typical Section & Girder Layout
7.	Girder Reinforcement
8.	Log of Test Borings

See South Fresno Viaduct Br. No. 42-226 R/L for:
Box Girder Details No. 1
Standard Details No. 2 (Box Girder)
Barrier Railing Sheet 1
Barrier Railing Sheet 2
16"CIOH Pile Details
Closure Wall Details

For Approximate Quantities see sheet 5

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/29/66, AS SUBMITTED BY RESIDENT ENGINEER L. Nagai
TRACINGS CORRECTED BY: RS DATE: 7/1/66

SHEET	OF
1	8

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor R.C. Blake
Project Dr. Bruce Stassey

DESIGN	By R.J. Fraser 1-64	Checked C.E. Hulbert 1-64
DETAILS	By M. Mizutani 1-64	Checked D. Hulbert 4-64
LAYOUT	By R.J. Fraser 1-64	Checked C.E. Hulbert 4-64
QUANTITIES	By R.M. Hughes 5-64	Checked R.K. Mason 5-64
SPECIFICATIONS	By JGS 9-64	Plans and Tech. Proc. Completed JGS 9-64

Approval Recommended by [signature] Design Engineer
Civil Engr. License No. 7551

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY ON-RAMP OVERCROSSING

LOCATED IN THE CITY OF FRESNO ON ROAD VI-FRE-41-P.G
IN FRESNO COUNTY

GENERAL PLAN

Except as noted SCALE 1" = 10' | BRIDGE 42-229 | FILE | DRAWING 42229-1

PRELIMINARY DRAWING No. P 160 180 154 5/15

REVISION DATES

06-202 014231 ~~62-OGT 10 10 142.4~~ Disregard prints bearing earlier revision dates →

154

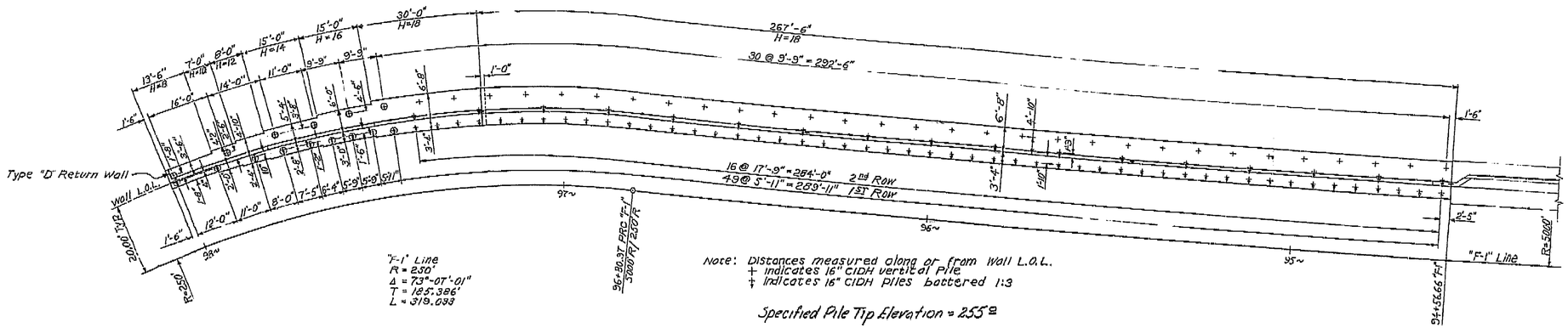
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FED. ROAD DIV. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	POST NO.	TOTAL SHEETS
VI	Fre	41	21% Apt	158	161

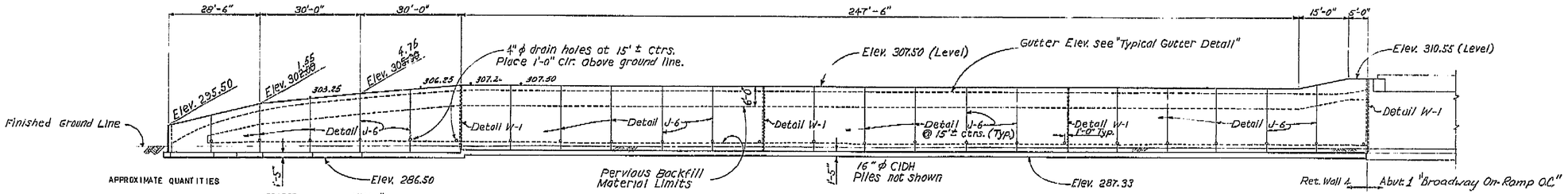
DATE APPROVED: October 5 1966

"F-1" Line
R = 3000'
Δ = 7°-39'-18"
T = 334.510
L = 668.025



PLAN

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS OF 4/29/66, AS SUBMITTED BY RESIDENT ENGINEER T. NAGAI
TRACINGS CORRECTED BY: JJ DATE: 7/2/66



APPROXIMATE QUANTITIES

	BRIDGE	WALL #4
*STRUCTURE EXCAVATION (BR)	115 CY	220 CY
*STRUCTURE BACKFILL (BR)	325 CY	1,360 CY
*PERVIOUS BACKFILL MATERIAL	41 CY	125 CY
16" CIDH CONCRETE PILING	1,360 LF	3,730 LF
*CLASS A CONCRETE (BR)	390 CY	500 CY
CLASS B CONCRETE		14 CY
CLOSURE WALLS	658 SF	
WATERSTOPS	72 LF	75 LF
JOINT SEALER	68 LF	
*BAR REINFORCING STEEL (BR)	88,000 LB	66,000 LB
MISC METAL (BR)	2,200 LB	
BARRIER RAILING (TYPE 1)	134 LF	
BARRIER RAILING (TYPE 2)	120 LF	

*FINAL QUANTITIES

ELEVATION

AS BUILT PLANS
Contract No. 14-014234
Date Completed 5-16-66
Document No. 60000018

Note: See South Fresno Viaduct, Br. No. 42-226R/L for:
"Type 1 Retaining Wall" (H=4'-30')
"Retaining Wall Details No. 1"
"16" CIDH Pile Details"

SHEET 5 OF 8

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor R.C. Blake

DESIGN	by R. B. Black	2/64
	Checked D.A. Banks	2/64
DETAILS	by R. B. Black	2/64
	Checked D.A. Banks	2/64
QUANTITIES	by C.M. Rippee	5-64
	Checked D.R. Wilson	5-64

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY ON-RAMP OVERCROSSING

RETAINING WALL 4

SCALE 1"=15' | BRIDGE 42-229 | FILE | DRAWING 42229-2

Disregard prints bearing earlier revision dates →

PRELIMINARY DRAWING No. P-1361

REVISION DATES

158

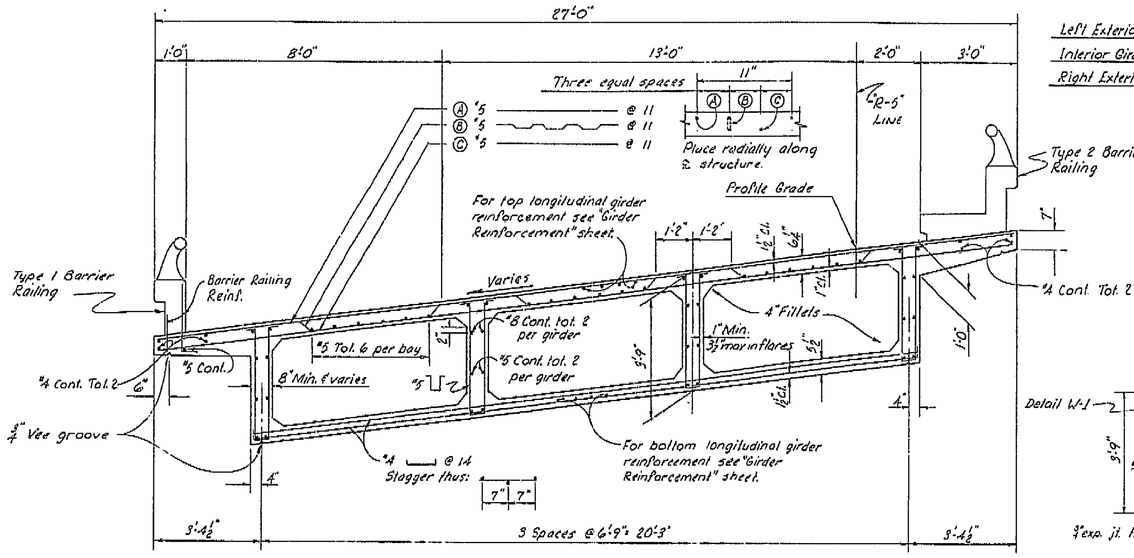
141

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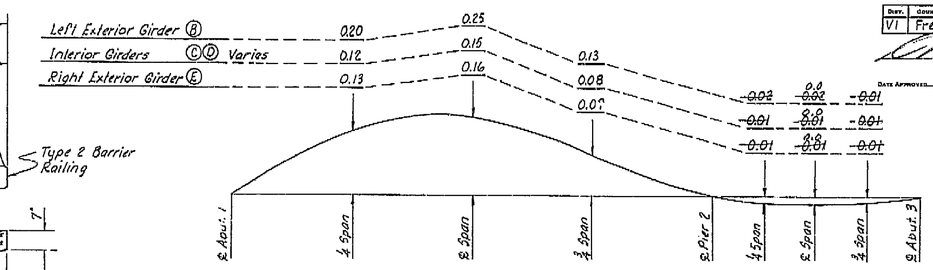
FED. ROAD DIV. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	41	27/227	159	161

Date Approved: October 5, 1964

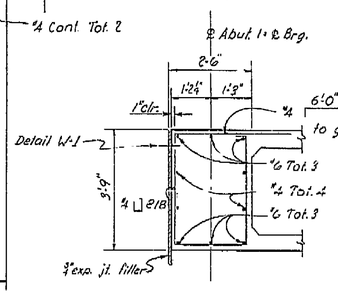


TYPICAL SECTION
½"=1'-0"

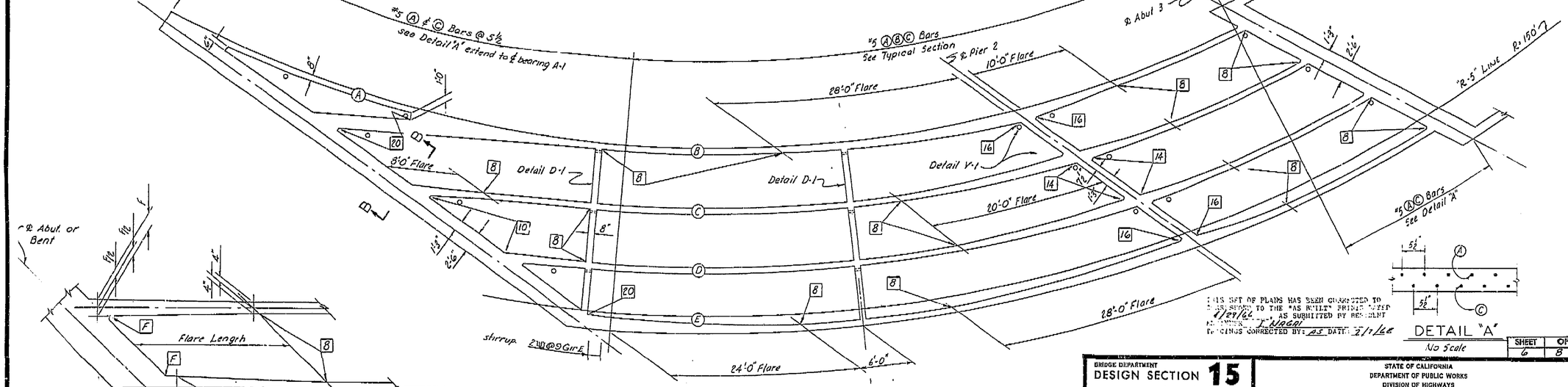


CAMBER DIAGRAM
No Scale
Total girder deflection due to dead loads

NOTE:
THE TOTAL DEFLECTION WILL BE REACHED ABOUT FOUR YEARS AFTER FALSEWORK REMOVAL. FOR VALUES AT TIME OF FALSEWORK REMOVAL, DIVIDE THOSE SHOWN BY 4.
THE AMOUNT OF CAMBER FOR CONSTRUCTION WILL BE DETERMINED BY THE ENGINEER.



SECTION B-B
½"=1'-0"



FLARE DIAGRAM
No Scale

GIRDER LAYOUT
1/8"=1'-0"

DETAIL "A"
No Scale

THIS SET OF PLANS HAS BEEN CORRECTED TO AGREE WITH THE "AS BUILT" PRINTS DATED 8/29/66 AS SUBMITTED BY RESIDENT ENGINEER Wagoner
PLANS CORRECTED BY: AS DATE: 2/1/66

AS BUILT PLANS
Contract No. 14-014234
Date Completed 5-16-66
Document No. 60000018

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor RC Blake

DESIGN	By	BL Fraser	3-64
	Checked	D Stanfort	1-64
DETAILS	By	Y Nakayama	4/64
	Checked	D Stanfort	1-64
QUANTITIES	By	EM Hopper	5-64
	Checked	DR Mason	5-64

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY ON-RAMP OVERCROSSING

TYPICAL SECTION & GIRDER LAYOUT

SCALE As Noted	BRIDGE 42-229	FILE	DRAWING 42229-6

PRELIMINARY DRAWING No. P 3/4/64 5/64
REVISION DATES

Disregard prints bearing earlier revision dates →

SHEET	OF
6	8

159

142

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California Department of Transportation
Division of Maintenance

Structure Maintenance and Investigations

BRIDGE

INSPECTION

RECORDS

INFORMATION

SYSTEM

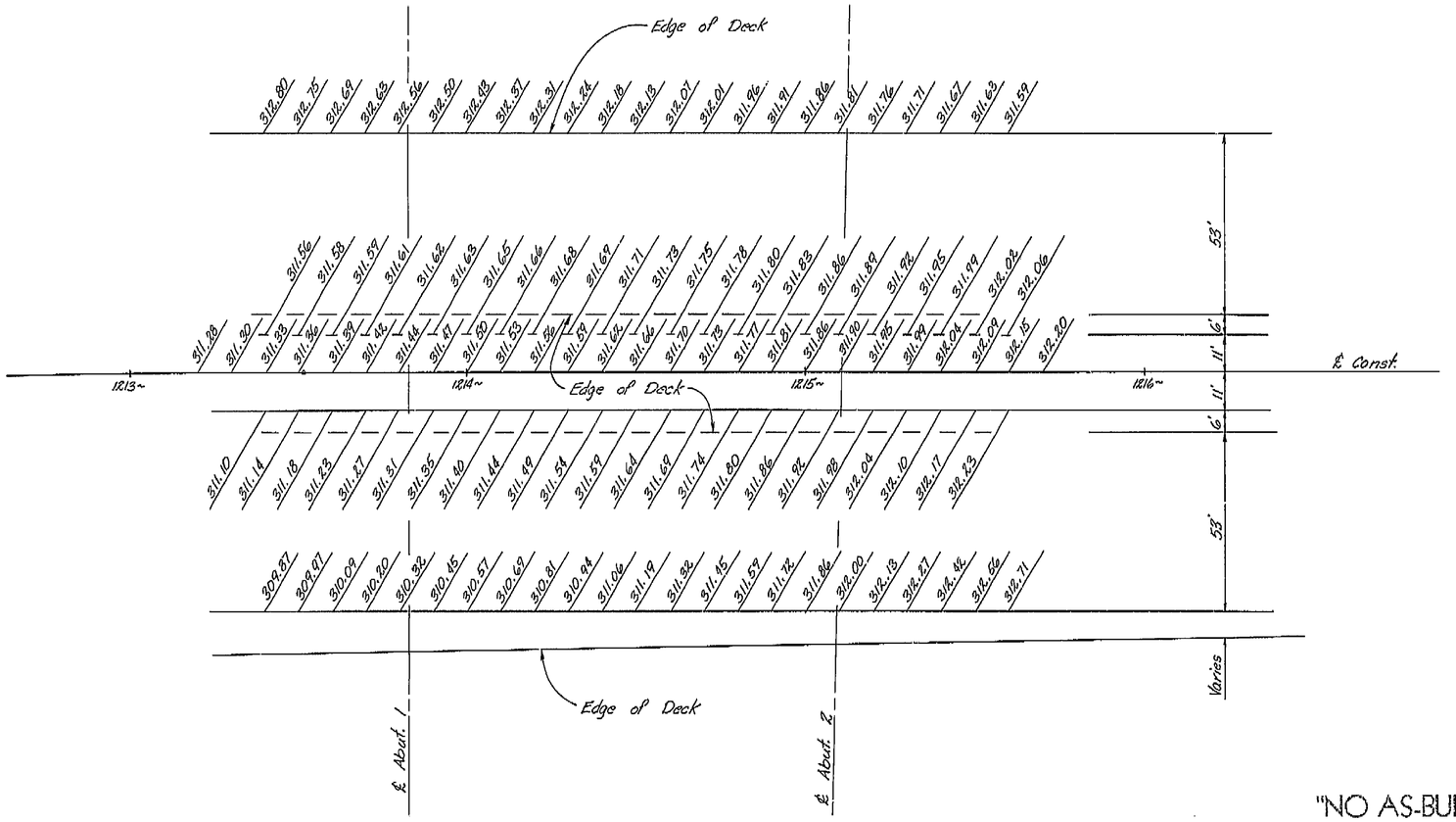
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These documents are the property of the California Department of Transportation and should be handled in accordance with Deputy Directive 55 and the State Administrative Manual.

Records for “Confidential” bridges may only be released outside the Department of Transportation upon execution of a confidentiality agreement.

DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	FRE	41	R22.5/R23.8	110	235

R C Black
DESIGN SECTION SUPERVISOR — REGISTERED CIVIL ENGINEER NO. 8002
DATE APPROVED May 30, 1972



R/L

Note :
Elevations are figured @ 10' stations radially from ℄ Const. up to station 12.13 + 51.29 ℄ normal from ℄ Const. from this station on.
These elevations do not include camber.
Scale : 1" = 20'

AS BUILT PLANS
Contract No. 06-025614
Date Completed 9-3-74
Document No. 6000 6555

GENERAL NOTES

DESIGN: A.A.S.H.O. dated 1969 with revisions and as supplemented by BRIDGE PLANNING AND DESIGN MANUAL.

LIVE LOADING: HS20-44 and alternative

REINFORCED CONCRETE: f_s = 24,000 psi, except
= 20,000 PSI in transverse deck slabs and stirrups

f_c = 1,300 psi, except
= 1,200 psi in transverse deck slabs

n = 10

Footing Pressure (tons per sq ft.)	Allowable	Design
Bent 2	4.0	4.0
Bent 3	4.0	4.0

PRESTRESSING NOTES

*P_{jack} = 4550 kips total at jacking ends. $A_s = \frac{P_{jack}}{.75\ f'_s}$

Total number of girders = 4

CONCRETE: f'_c = 3500 psi @ 28 days; f'_{ci} = 3500 psi @ time of stressing

GENERAL: *1. Design is based on u = 0.25 and k = 0.0002. For girders on horizontal curved alignment (k+k') = —— where k' is a modification factor which considers the effect of such curvature on friction
P_{jack} specified at the jacking ends includes friction losses and provision for 25,000 psi loss in stress

2. Tendons to be jacked to 0.75 f'_s and anchored at an equivalent anchor set = 5/8".

3. Contractor to submit elongation and jacking calculations based on ua + kl = 0.13 or ua + (k+k') l = —— and initial stress at [X] = 0.88 times jacking stress.

QL

PRESTRESSING NOTES

CONCRETE: f'_c = 4000 psi @ 28 days: f'_{ci} = 3500 psi @ time of stressing

CAMBER: To be cast parabolic with camber at centerline span = 0.16 ft above Profile Grade.

WORKING FORCE: The total force, P_f, per bridge at centerline span remaining after losses including those due to creep and shrinkage of concrete and creep of steel have occurred shall be as shown below,
"X" = 8 inches minimum, P_f = 11,850 kips minimum
"X" = 12 inches maximum, P_f = 13,000 kips maximum

Total Number of Girders = 8

RIGHT

PRESTRESSING NOTES

CONCRETE: f'_c = 4500 psi @ 28 days: f'_{ci} = 3500 psi @ time of stressing

CAMBER: To be cast parabolic with camber at centerline span = 0.17 ft above Profile Grade.

WORKING FORCE: The total force, P_f, per bridge at centerline span remaining after losses including those due to creep and shrinkage of concrete and creep of steel have occurred shall be as shown below,
"X" = 8 inches minimum, P_f = 10,550 kips minimum
"X" = 12 inches maximum, P_f = 11,650 kips maximum

Total Number of Girders = 7

LEFT

"NO AS-BUILT CORRECTIONS"
AS BUILT
CORRECTIONS BY
CONTRACT NO.
DATE

BRIDGE DEPARTMENT
DESIGN SECTION 15
Project Engineer D.B. Insaa

DESIGN	By W.J. Aubrey	11/71
	Checked E.N. Brunberg	11-71
DETAILS	By RAND TAMGEET	10-71
	Checked E.N. Brunberg	11-71
QUANTITIES	By A.L. Nardon	2-72
	Checked M. Nakamura	2-72

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

"M" STREET UNDERCROSSING

GRID OF DECK ELEVATIONS – R/L

BRIDGE NO.	R/L	POST MILE	WO	SHEET	OF
42-228	QL	22.8	CU	3	15

Disregard prints bearing earlier revision dates →

REVISION DATES (PRELIMINARY STAGE ONLY)

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 6/24/15 SIGNATURE Dick Meadows TITLE Maintenance Supervisor

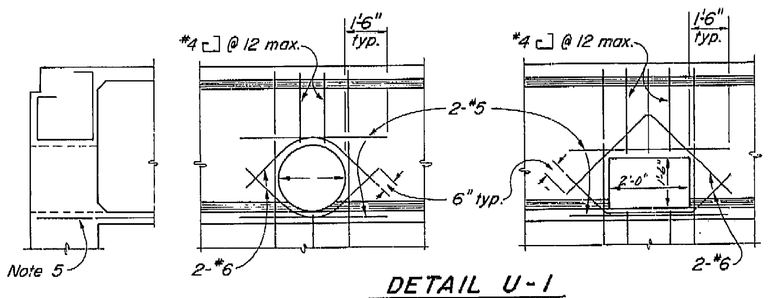
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DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	FRE	41	R22.5/R23.8	119	235

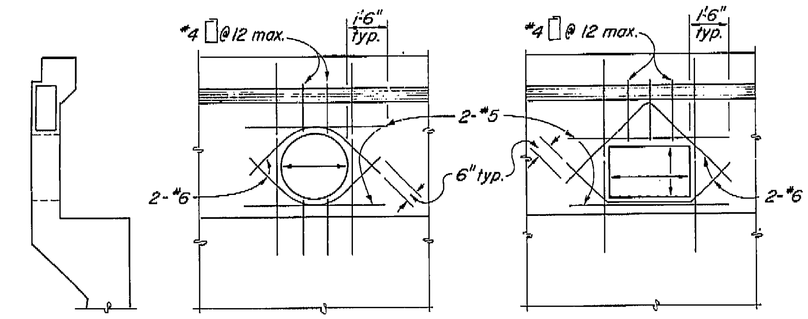
BRIDGE ENGINEER — REGISTERED CIVIL ENGINEER No. 5515

DATE APPROVED May 30, 1972

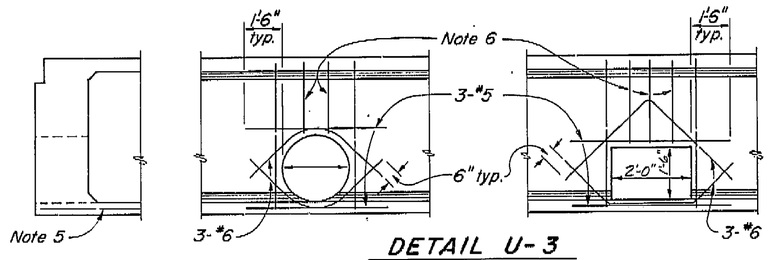
ABUTMENT DIAPHRAGMS



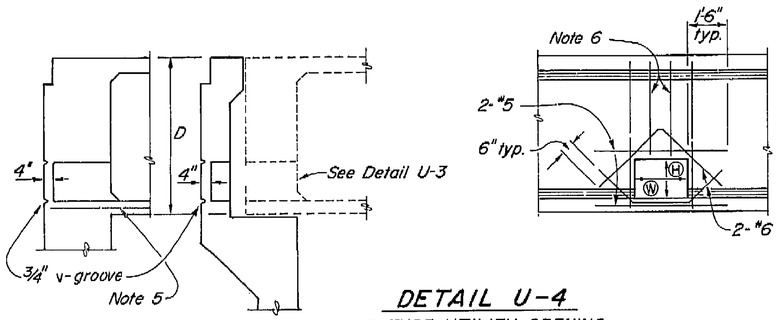
DETAIL U-1



DETAIL U-2

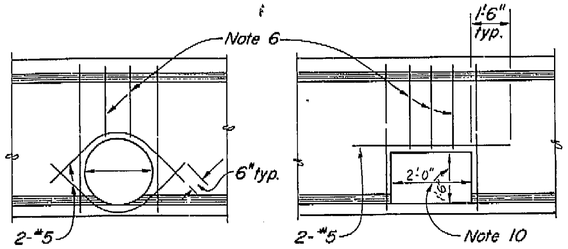


DETAIL U-3

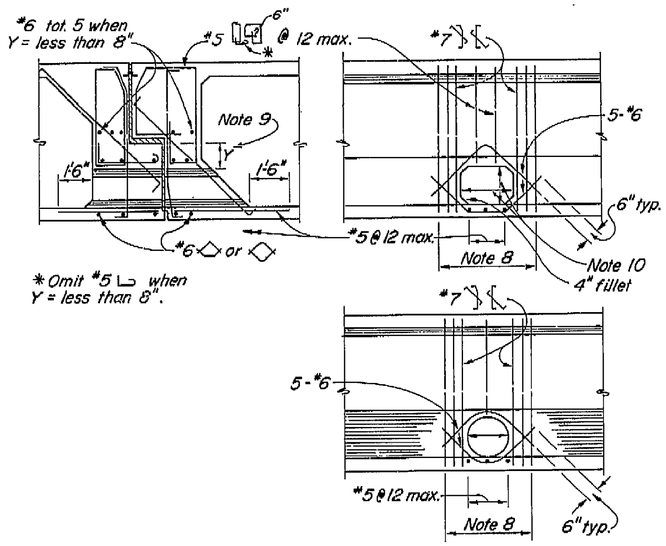


DETAIL U-4
FUTURE UTILITY OPENING

INTERMEDIATE DIAPHRAGMS AND HINGES



DETAIL U-10
AT INTERMEDIATE DIAPHRAGM

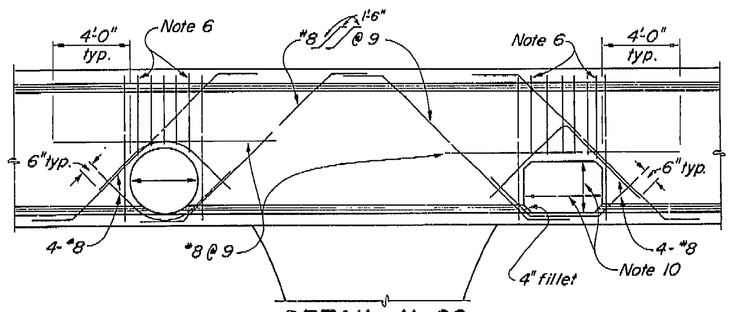


* Omit #5 ⌙ when Y = less than 8".

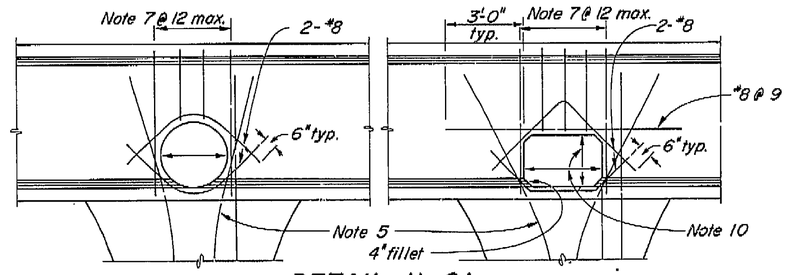
DETAIL U-11
AT HINGE

Ⓗ = 1/3 D or 1'-6" min., whichever is greater.
Ⓦ = 1/3 D or 2'-0" min., whichever is greater.

BENT CAPS



DETAIL U-20
NEAR OR BETWEEN COLUMNS



DETAIL U-21
AT COLUMN

NOTES :

1. For exact location, elevation, size and direction of openings see other sheets.
2. Girders not shown. See other sheets.
3. All reinf. detailed to be placed in addition to reinf. shown on other sheets.
4. Watertight seal around utilities at abutments to be of sufficient strength to withstand earth pressure. If structure is prestressed, seal to be placed after stressing is completed.
5. Main reinf. to clear opening.
6. Stirrups to be same bar size, shape and 2/3 the spacing of adjacent stirrups shown on other sheets.
7. Stirrups to be same bar size and shape as adjacent stirrups shown on other sheets.
8. Replace each set of 4-#7 bars cut off by opening. Place 1/2 on each side of opening.
9. When "Y" is less than 8", extend top of opening to bottom of bearing seat elevation.
10. For future utility opening dimensions, see Detail U-4.

"NO" AS-BUILT CORRECTIONS"
AS BUILT
CORRECTIONS BY
CONTRACT NO.
DATE

STANDARD DRAWING
DESIGN DETAILS

119

AS BUILT PLANS
Contract No. 06-025614
Date Completed 9-3-74
Document No. 6000 6555

STATE OF CALIFORNIA
BUSINESS AND TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

7/71 — XS-16-49

"M" STREET UNDERCROSSING

UTILITY OPENING - BOX GIRDER

BRIDGE NO.	R/L	POST MILE	DRAWING NO.	SHEET	OF
42-228	R/L QL	22.8		12	15

REVISION DATES (PRELIMINARY STAGE ONLY)

WO
CU

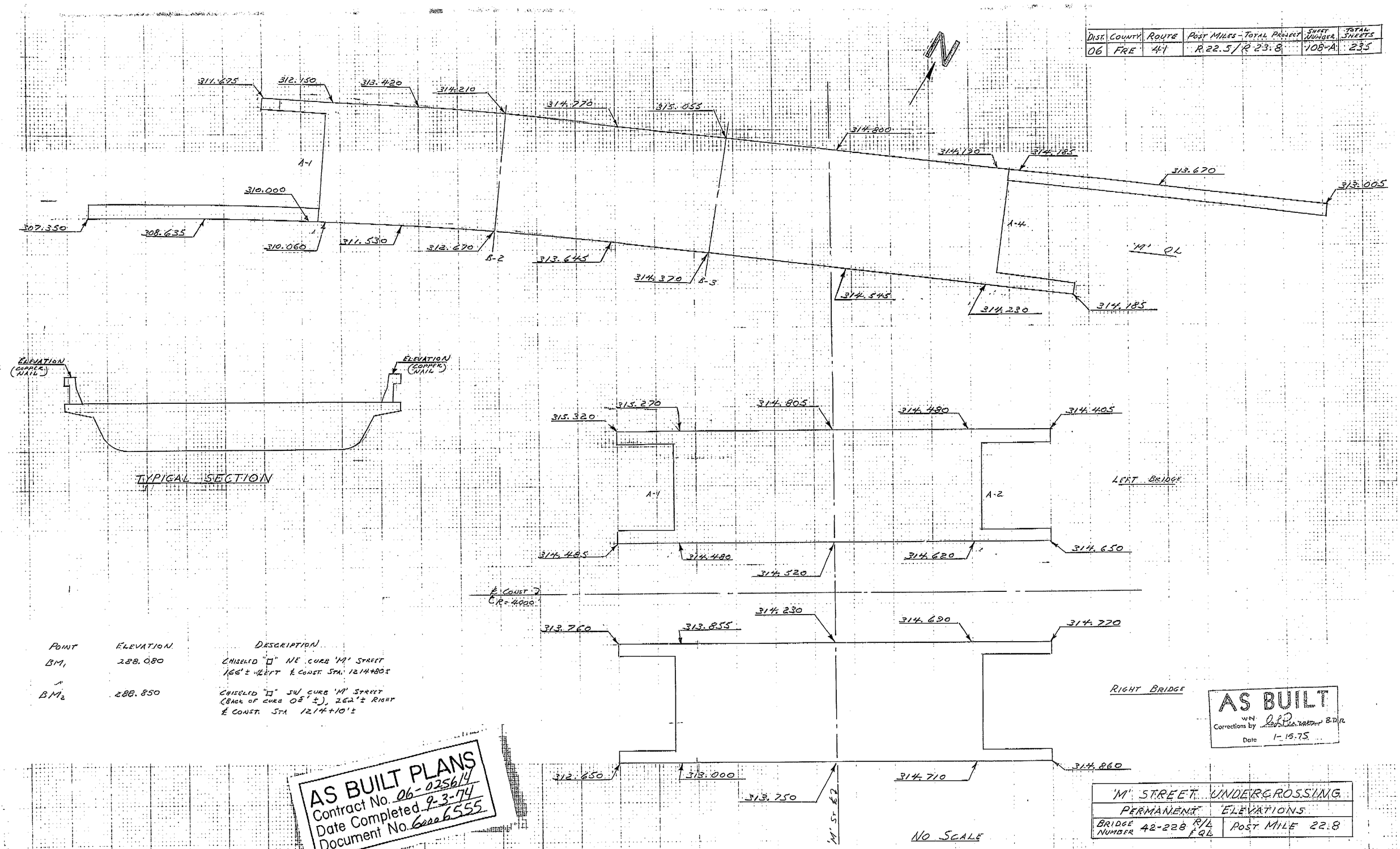
Disregard prints bearing earlier revision dates →

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 6/24/75 SIGNATURE Dick Meadows TITLE Drafting Supervisor

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DIST.	COUNTY	ROUTE	POST MILES - TOTAL PROJECT	SHEET NUMBER	TOTAL SHEETS
06	FRE	41	R 22.5 / R 23.8	108-A	235



TYPICAL SECTION

POINT	ELEVATION	DESCRIPTION
BM_1	288.080	CHISELED "□" NE CURB 'M' STREET 166'± LEFT ℄ CONST. STA. 1214+80±
BM_2	288.850	CHISELED "□" SW CURB 'M' STREET (BACK OF CURB 02'±), 262'± RIGHT ℄ CONST. STA 1214+10'±

AS BUILT PLANS
Contract No. 06-025614
Date Completed 9-3-74
Document No. 6000 6555

AS BUILT
W.N.
Corrections by [illegible] B.D.R.
Date 1-15-75

"M" STREET UNDERCROSSING	
PERMANENT ELEVATIONS	
BRIDGE NUMBER 42-228 R/L FQL	POST MILE 22.8

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

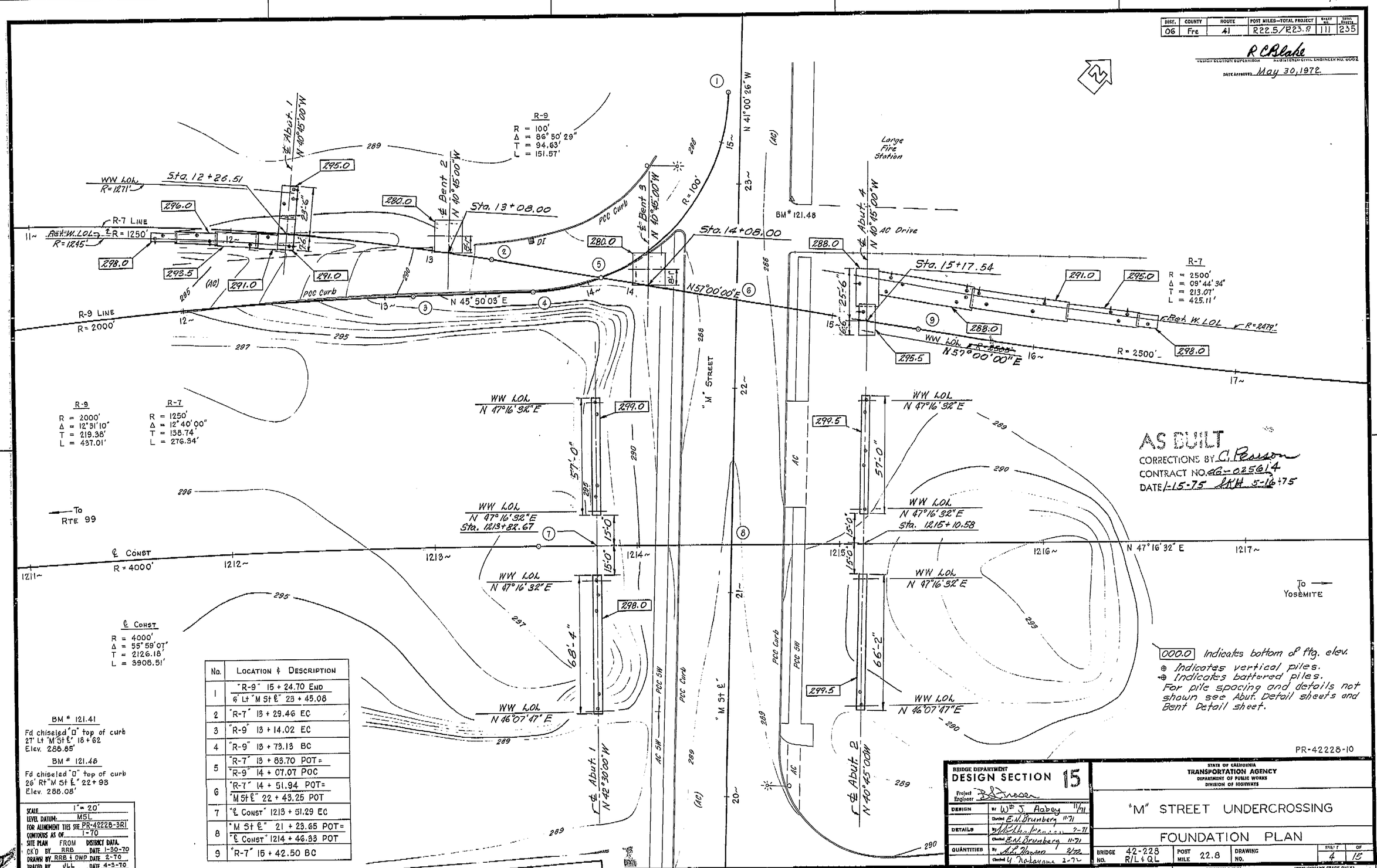
DATE 6/24/15 SIGNATURE Dick Meadows TITLE Graphics Supervisor

DAS-1570

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DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41	R22.5/R23.9	111	235

R C Blake
DESIGN SECTION SUPERVISOR — REGISTERED CIVIL ENGINEER NO. 6052
DATE APPROVED May 30, 1972.



No.	Location & Description
1	"R-9" 15 + 24.70 End 6' Lt "M St ℄" 23 + 45.08
2	"R-7" 13 + 29.46 EC
3	"R-9" 13 + 14.02 EC
4	"R-9" 13 + 73.13 BC
5	"R-7" 13 + 88.70 POT= "R-9" 14 + 07.07 POC
6	"R-7" 14 + 51.94 POT= "M St ℄" 22 + 43.25 POT
7	"℄ Const" 1213 + 51.29 EC
8	"M St ℄" 21 + 23.65 POT= "℄ Const" 1214 + 46.33 POT
9	"R-7" 15 + 42.50 BC

BM # 121.41
Fd chiseled "□" top of curb
27' Lt "M St ℄" 18 + 62
Elev. 288.85'

BM # 121.48
Fd chiseled "□" top of curb
26' Rt "M St ℄" 22 + 93
Elev. 288.08'

SCALE 1" = 20'
LEVEL DATUM: MSL
FOR ALIGNMENT TIES SEE PR-42228-3R1
CONTOURS AS OF 1-70
SITE PLAN FROM DISTRICT DATA.
CK'D BY RRB DATE 1-30-70
DRAWN BY RRB & DWP DATE 2-70
TRACED BY JLL DATE 4-3-70

AS BUILT
CORRECTIONS BY C. Persson
CONTRACT NO. 06-025614
DATE 1-15-75 RKH 5-16-75

000.0 Indicates bottom of ftg. elev.
⊕ Indicates vertical piles.
⊕ Indicates battered piles.
For pile spacing and details not shown see Abut. Detail sheets and Bent Detail sheet.

PR-42228-10

BRIDGE DEPARTMENT
DESIGN SECTION 15
Project Engineer B. Persson

DESIGN	By W. J. Aabey	11/71
	Checked E.N. Brunberg	11-71
DETAILS	By [illegible]	2-71
	Checked E.N. Brunberg	11-71
QUANTITIES	By A.P. Persson	2/72
	Checked Y. Nakayama	2-72

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

"M" STREET UNDERCROSSING

FOUNDATION PLAN

BRIDGE NO.	42-228 R/L & QL	POST MILE	22.8	DRAWING NO.	SHEET	OF
					4	15

WO 025611
CU 06202

Disregard prints bearing earlier revision dates →

REVISION DATES (PRELIMINARY STAGE ONLY)

AS BUILT PLANS
Contract No. 06-025614
Date Completed 9-3-74
Document No. 6006555

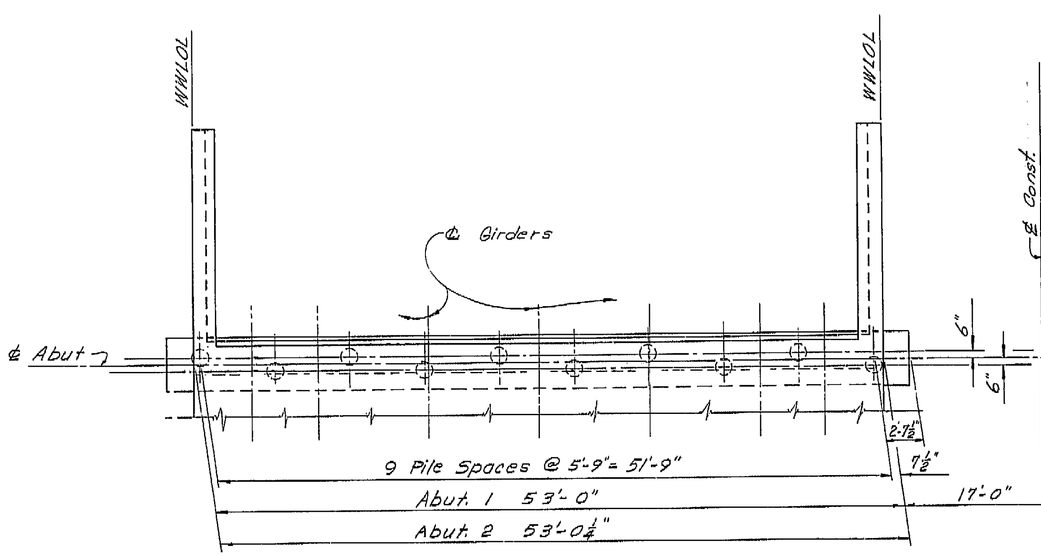
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DATE 6/24/75 SIGNATURE [illegible] TITLE Supervising

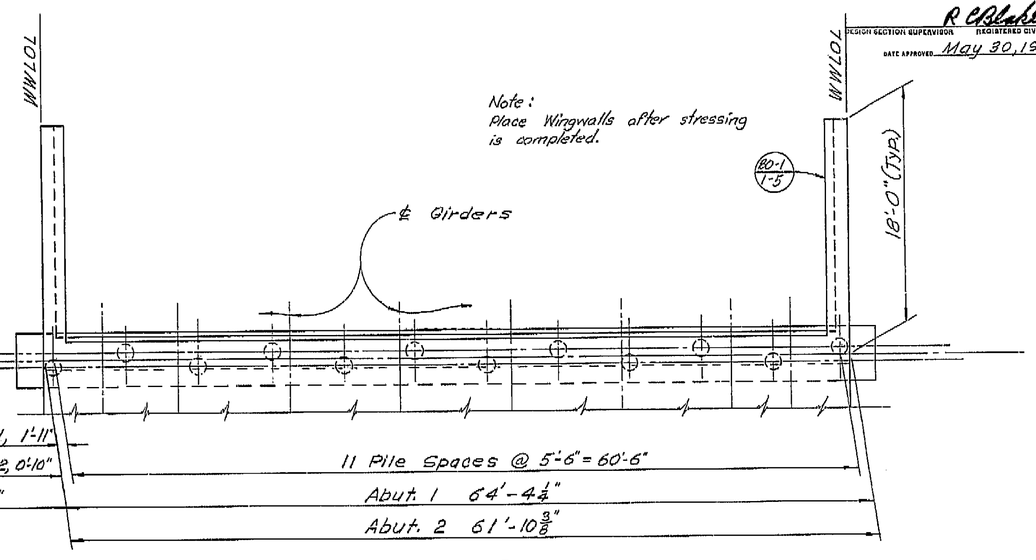
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DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41	R22.5/R23.8	112	235

R C Blake
DESIGN SECTION SUPERVISOR REGISTERED CIVIL ENGINEER NO. 8008
DATE APPROVED May 30, 1972

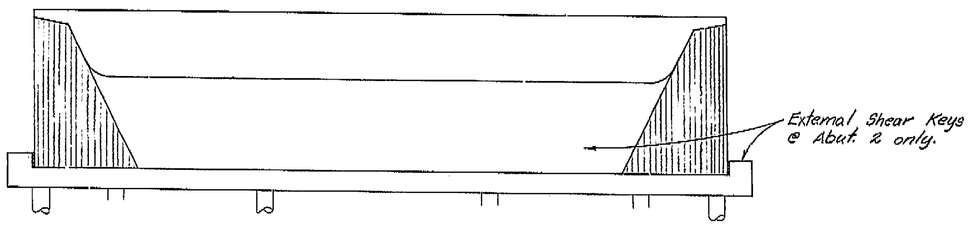


LEFT BRIDGE

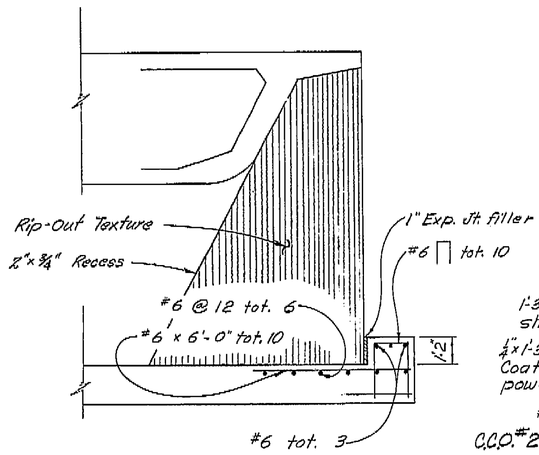


RIGHT BRIDGE

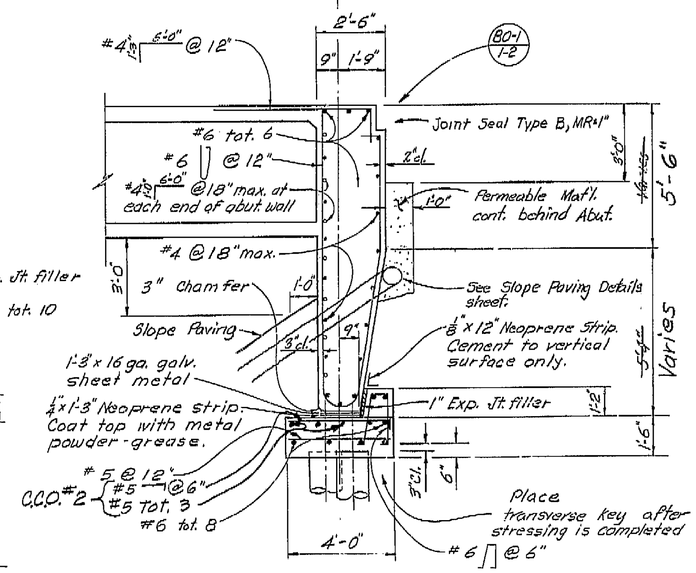
PLAN
3/16" = 1'-0"



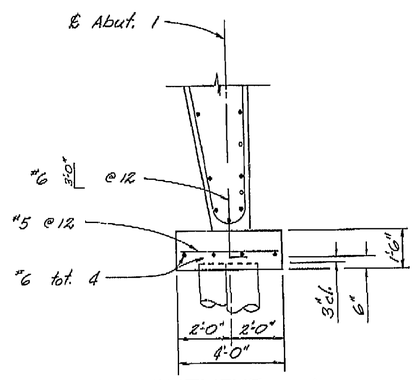
ELEVATION
3/16" = 1'-0"



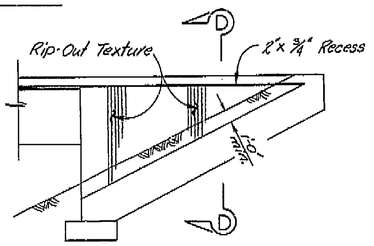
EXTERNAL SHEAR KEY
⅜" = 1'-0"



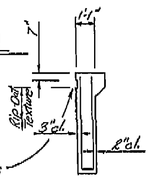
ABUTMENT 2
Scale: ⅜" = 1'-0"



ABUTMENT 1



WINGWALL ELEVATION
No Scale



D-D

Note:
See Abutment 2 section for typical details not shown.

AS BUILT
CORRECTIONS BY L. Pearson
CONTRACT # 06-025614
DATE 1-15-75 5-16-75

BRIDGE DEPARTMENT
DESIGN SECTION 15
Project Engineer R. Strosser

DESIGN	By W. J. Asberg	11/71
	Checked E. N. Brunberg	11-71
DETAILS	By L. Henderson	6-71
	Checked E. N. Brunberg	11-71
QUANTITIES	By A. L. Nunez	2/72
	Checked Y. Nakagawa	2-72

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

"M" STREET UNDERCROSSING

ABUTMENT DETAILS - R/L

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-228 R/L QL	22.8		5	15

REVISION DATES (PRELIMINARY STAGE ONLY)

WO
CU

Disregard prints bearing earlier revision dates →

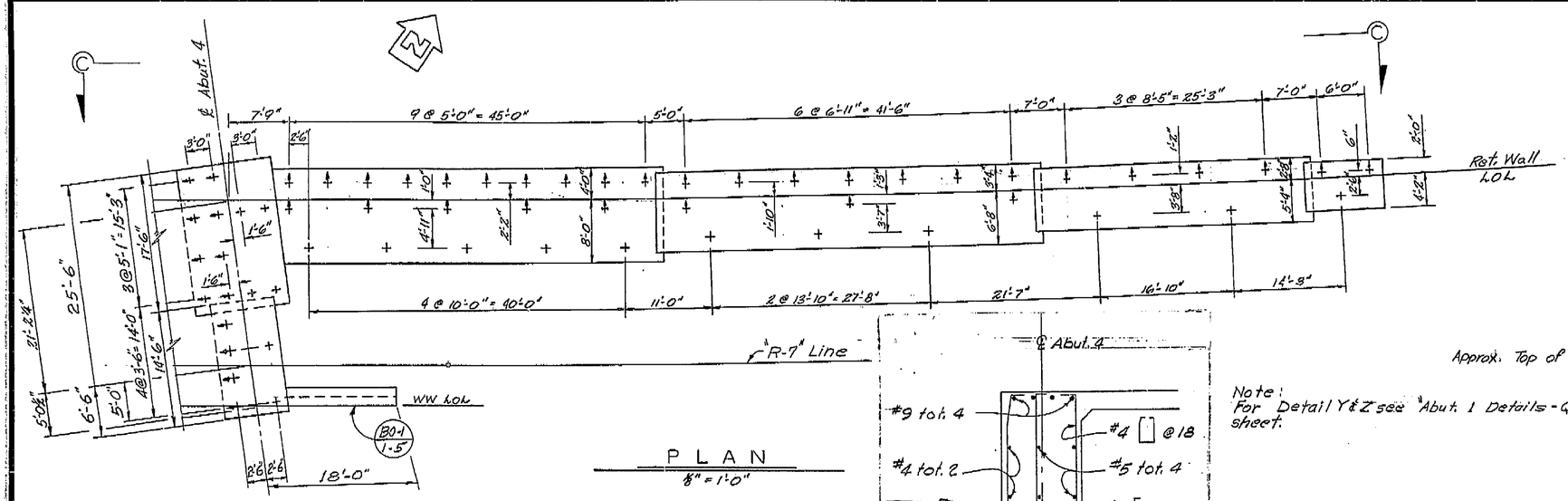
AS BUILT PLANS
Contract No. 06-025614
Date Completed 9-3-74
Document No. 6666555

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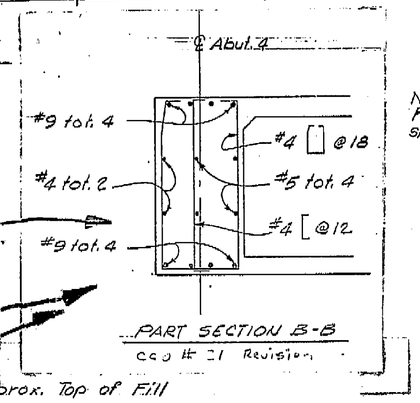
DATE 6/24/75 SIGNATURE Beck Miarlow TITLE Microfilm Supervisor

DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	FRE	41	R22.5/R23.8	114	235

R C Blake
DESIGN DESIGN SUPERVISOR — REGISTERED CIVIL ENGINEER NO. 0002
DATE APPROVED May 30, 1972

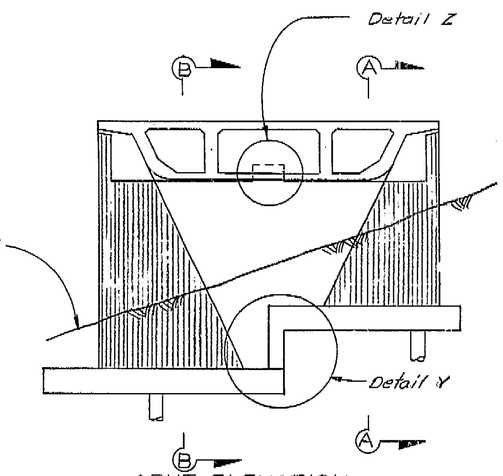


PLAN
⅛" = 1'-0"

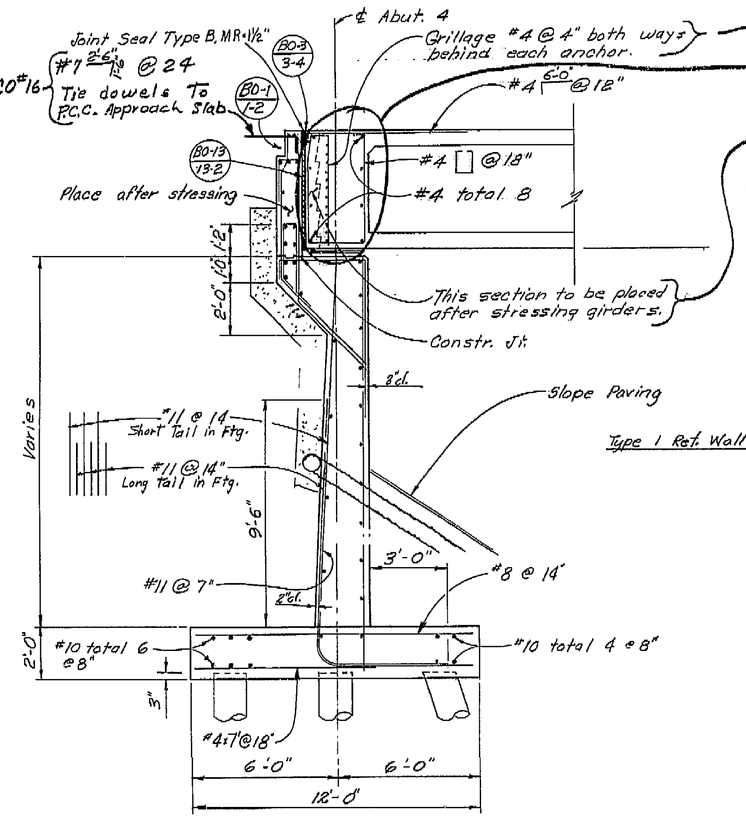


PART SECTION B-B
CCO # 21 Revision

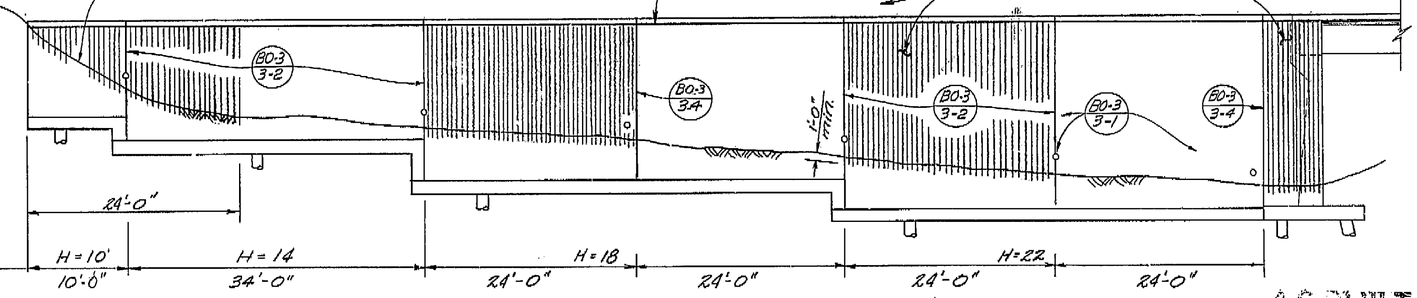
Note:
For Detail Y & Z see "Abut. 1 Details - QL" sheet.



ABUT. ELEVATION
No Scale



SECTION B-B
⅜" = 1'-0"



RETAINING WALL ELEVATION C-C (B0-3 3-3)
⅛" = 1'-0"

Note:
Place Wingwall & Ret. Wall after stressing is completed.
See "Retaining Wall Type 1 H = 9'-30" sheet

See 'Abut. Details - R/L" sheet for Wingwall Rip-Out Texture details.

\+ Indicates vertical pile.

⁄ Indicates 1:3 battered pile.

AS BUILT
CORRECTIONS BY A. Pearson
CONTRACT NO. 06-025614
DATE 1-15-75 5-20-75

Note:
For Section A-A see "Abut. 1 Details - QL" sheet.
Section A-A and Section B-B are similar except as shown.

AS BUILT PLANS
Contract No. 06-025614
Date Completed 9-3-74
Document No. 6666555

BRIDGE DEPARTMENT
DESIGN SECTION 15
Project Engineer B. H. Hansen

DESIGN	by W. J. Abeyta	11/71
	Checked E.N. Brunberg	11-71
DETAILS	by M. Blackmon	6-71
	Checked E.N. Brunberg	11-71
QUANTITIES	by A. L. Nason	2/72
	Checked J. Nakayama	2-72

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

"M" STREET UNDERCROSSING
ABUT. 4 DETAILS — QL

BRIDGE NO. 42-228 R/L QL | POST MILE 22.8 | DRAWING NO. — | SHEET 7 | OF 15

WO
CU

Disregard prints bearing earlier revision dates →

REVISION DATES (PRELIMINARY STAGE ONLY)

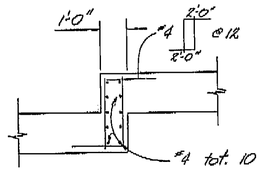
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DATE 6/24/75 SIGNATURE Dick Macalbee TITLE Microfilm Supervisor

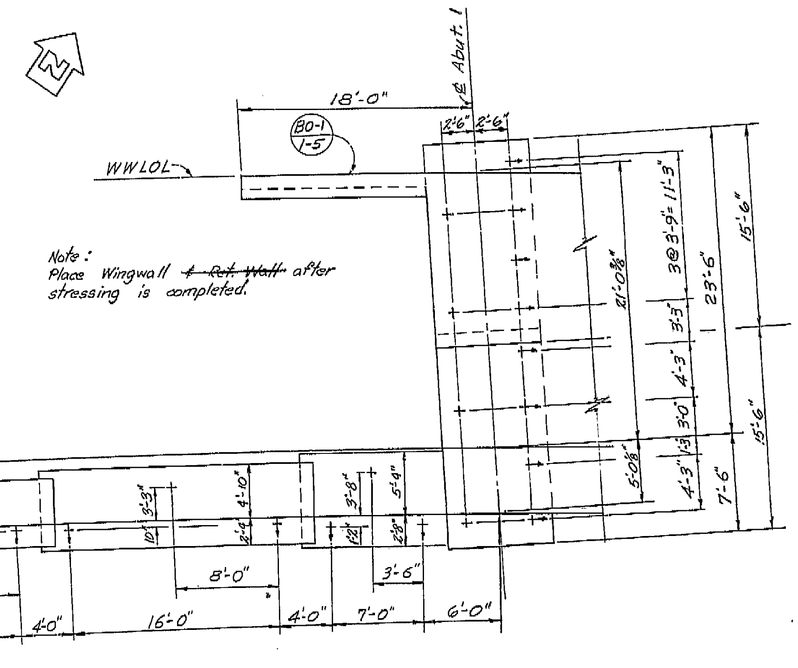
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DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41	R22.5/R23.8	113	235

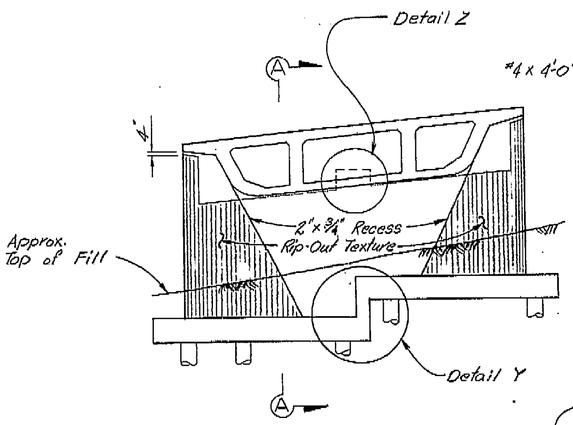
R C Blake
DESIGN SECTION SUPERVISOR — REGISTERED CIVIL ENGINEER NO. 11362
DATE APPROVED May 30, 1972



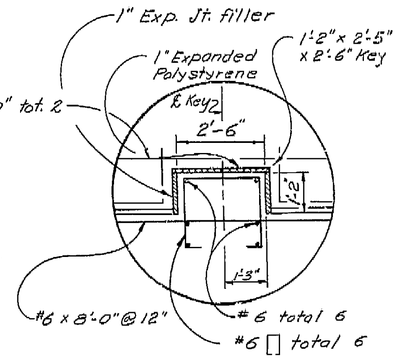
DETAIL Y
No Scale



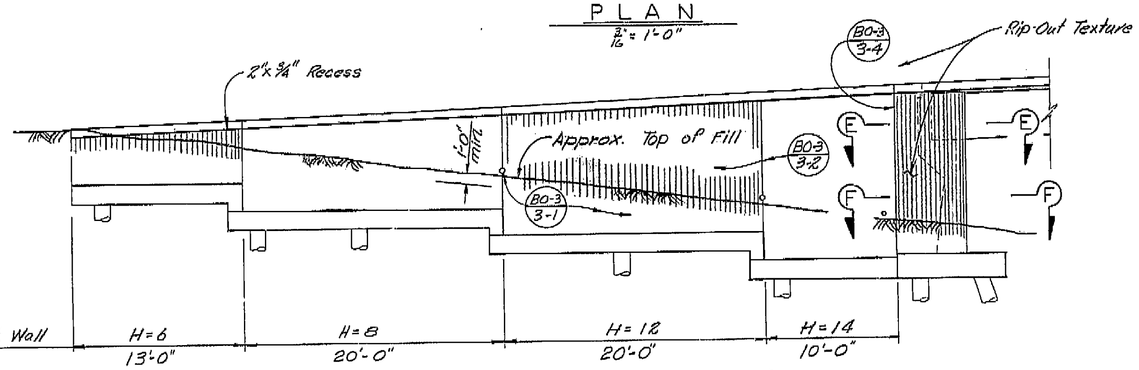
PLAN
3/16" = 1'-0"



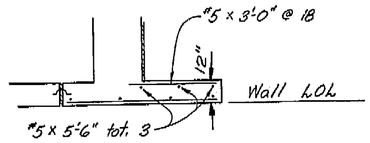
ELEVATION
3/16" = 1'-0"



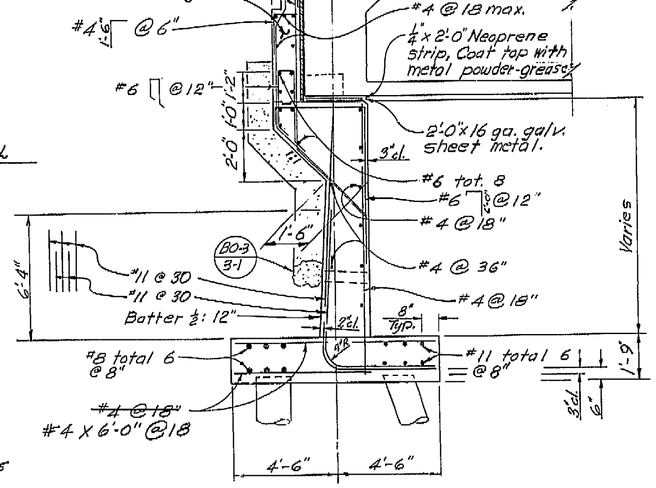
DETAIL Z
No Scale



ELEVATION
3/16" = 1'-0"
B0-3 / 3-3

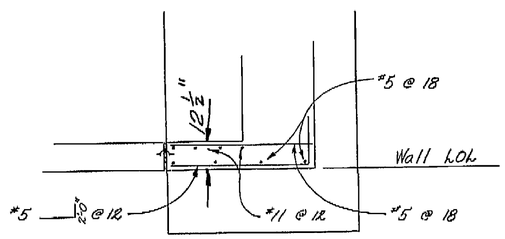


SECTION E-E
No Scale



SECTION A-A
3/8" = 1'-0"

Note:
See "Retaining Wall Type 1 H=4'-30'" sheet for additional Ret. Wall Rip-Out Texture details.
See "Abut. Details - R1L" sheet for Wingwall Rip-Out Texture details.
For Section A-A details not shown see Section B-B on "Abut. 4 Details - QL" sheet.
+ — Indicates vertical pile.
† — Indicates 1:3 battered pile.



SECTION F-F
No Scale

AS BUILT
CORRECTIONS BY C. Pearson
CONTRACT NO. 06-025614
DATE 1-15-75 ~~MAH~~ 5-20-75

AS BUILT PLANS
Contract No. 06-025614
Date Completed 2-3-74
Document No. 6666555

BRIDGE DEPARTMENT
DESIGN SECTION 15
Project Engineer R. L. Snoser

DESIGN	By	W. J. Abbey 11-71
	Checked	E.N. Brunberg 11-71
DETAILS	By	M.A. Henderson 6-71
	Checked	E.N. Brunberg 11-71
QUANTITIES	By	A.L. Vierra 2-72
	Checked	[illegible] 2-72

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

"M" STREET UNDERCROSSING

ABUT. 1 DETAILS - QL

BRIDGE NO. 42-228 R/L Q/L | POST MILE 22.8 | DRAWING NO. | SHEET 6 | OF 15

REVISION DATES (PRELIMINARY STAGE ONLY)

WO
CU

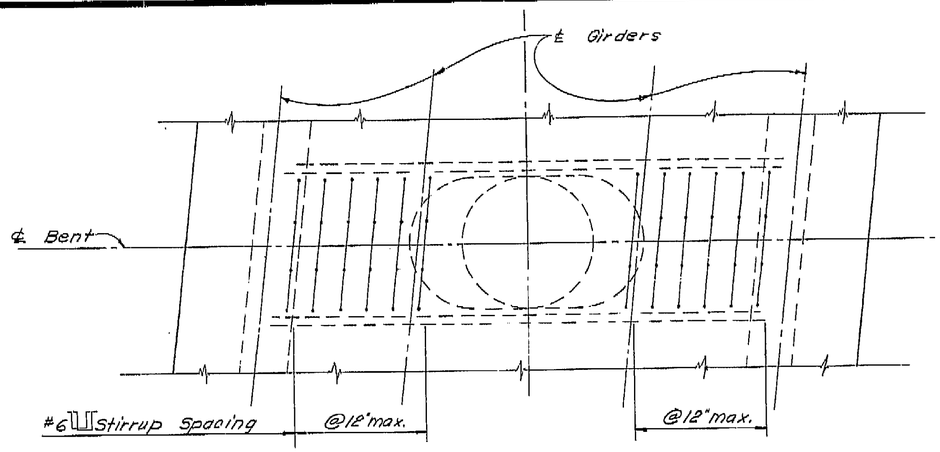
Disregard prints bearing earlier revision dates →

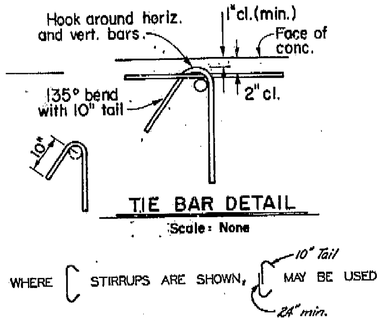
I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.
DATE 6/24/15 SIGNATURE Dick Meadows TITLE Mapping Supervisor

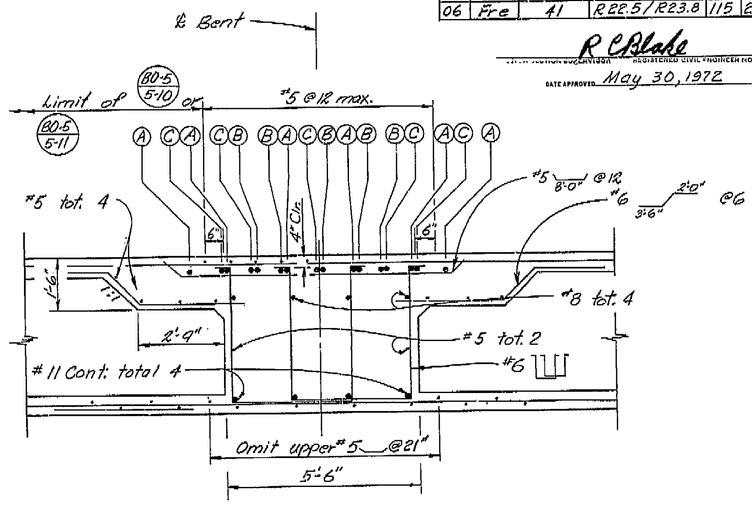
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41	R22.5/R23.8	115	235

R C Blake
REGISTERED CIVIL ENGINEER NO. 8092
DATE APPROVED May 30, 1972





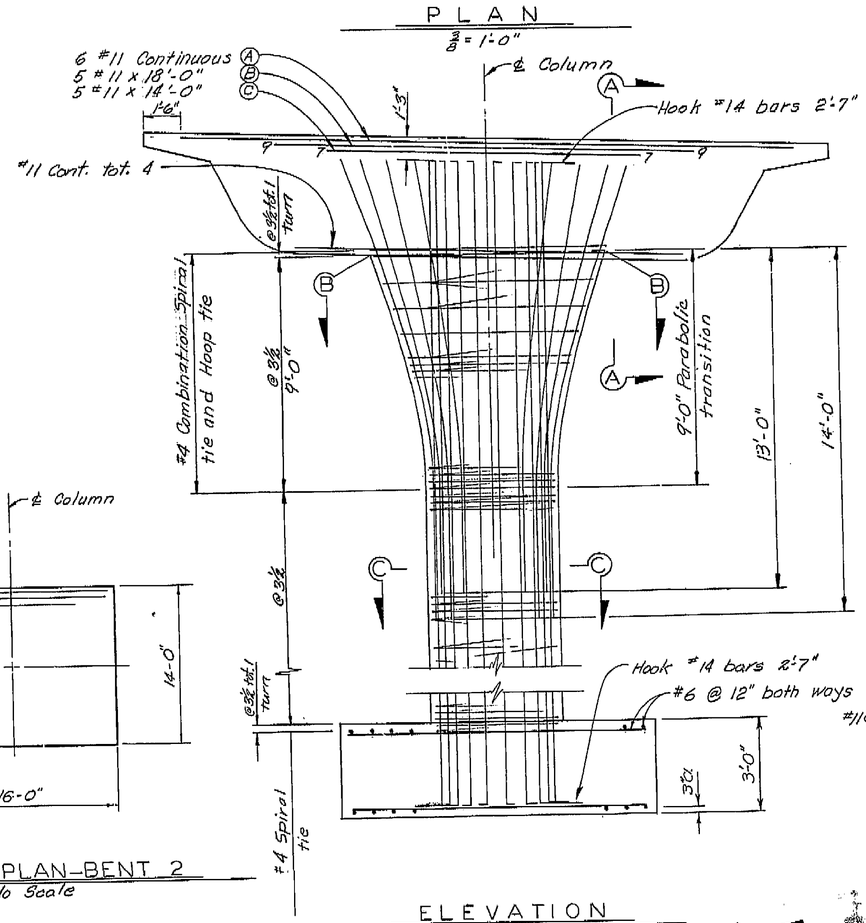


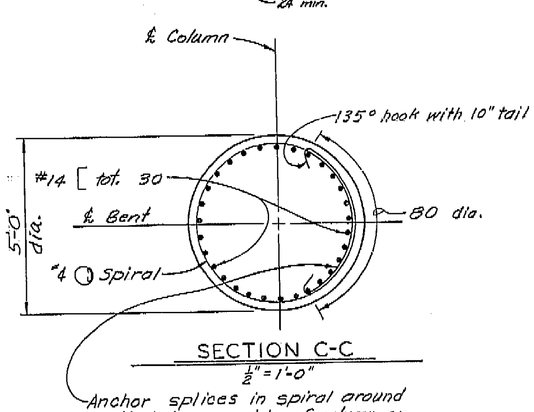
SECTION A-A
½"=1'-0"

"NO AS-BUILT CORRECTIONS"

AS BUILT
CORRECTIONS BY_____
CONTRACT NO._____
DATE_____

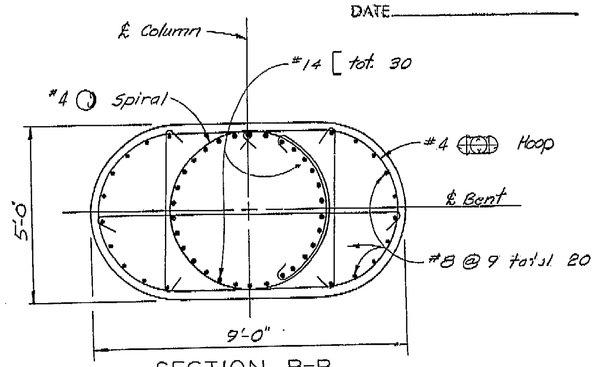
PLAN
⅜"=1'-0"





SECTION C-C
½"=1'-0"

Anchor splices in spiral around vertical bar on side of column, or use mechanical or welded splice

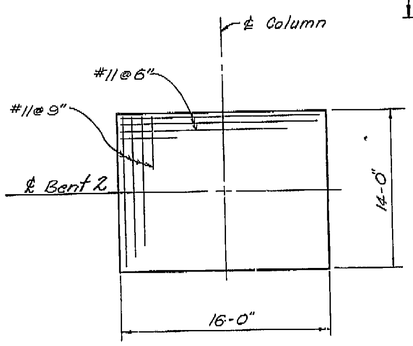


SECTION B-B
½"=1'-0"

Note:
Column Reinf. may be adjusted as necessary to clear prestressing ducts.

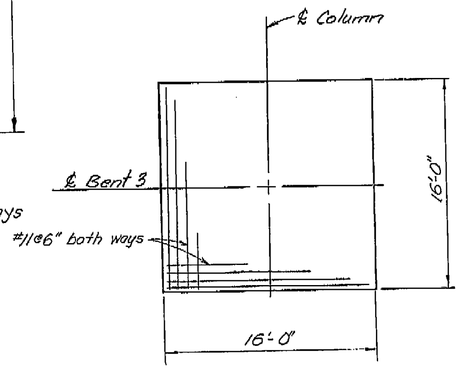
Bent 2 & 3 are similar except as shown.
Numbers at end of bars indicate distance in feet from ℄ column for top reinforcement.

All Columns are Std. Column No. 16



FOOTING PLAN-BENT 2
No Scale

ELEVATION
⅜"=1'-0"



FOOTING PLAN—BENT 3
No Scale

BRIDGE DEPARTMENT
DESIGN SECTION 15
Project Engineer

DESIGN	By	W. J. Abey	11/71
	Checked	E N Brunberg	11-71
DETAILS	By	H Hanawalt	7-71
	Checked	E N Brunberg	11-71
QUANTITIES	By	A. L. Hansen	2/72
	Checked	Rotary Drum	2-72

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

"M" STREET UNDERCROSSING

BENT DETAILS - QL

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-228 R/L QL	22.8		8	15

REVISION DATES (PRELIMINARY STAGE ONLY)

WO
CU

Disregard prints bearing earlier revision dates →

AS BUILT PLANS
Contract No. 06-025614
Date Completed 9-3-74
Document No. 6006555

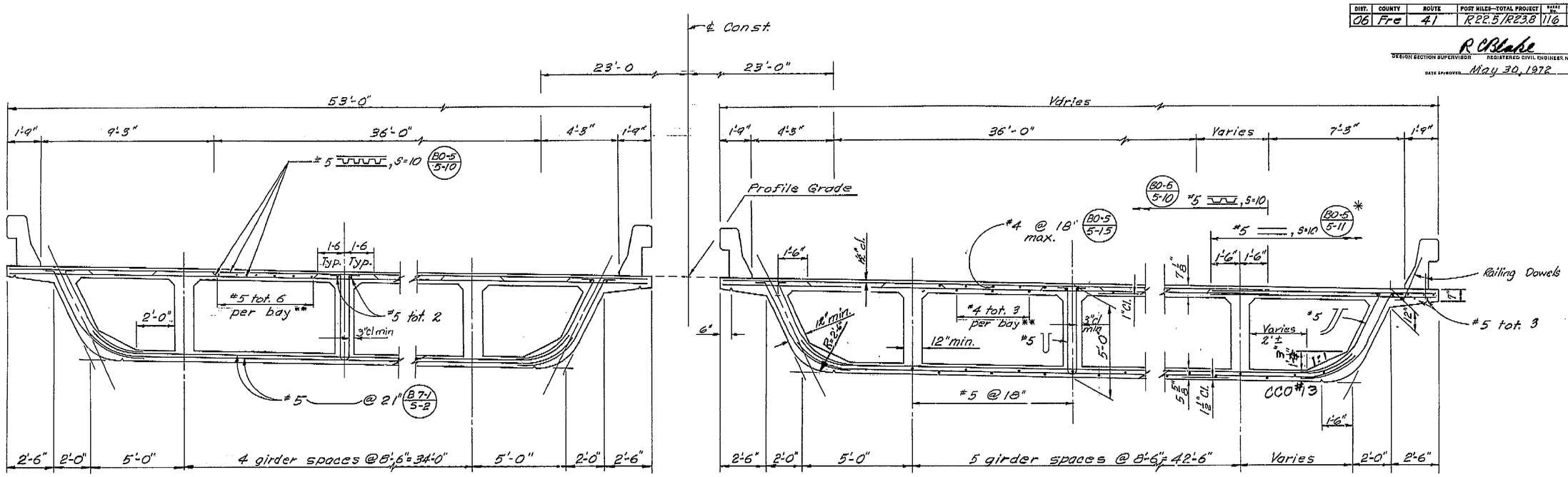
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DATE 6/24/75 SIGNATURE Dick Mcalbran TITLE Microfilm Supervisor

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DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	41	R22.5/R23.8	116	235

R C Blake
DESIGN SECTION SUPERVISOR — REGISTERED CIVIL ENGINEER, No. 8082
DATE APPROVED May 30, 1972



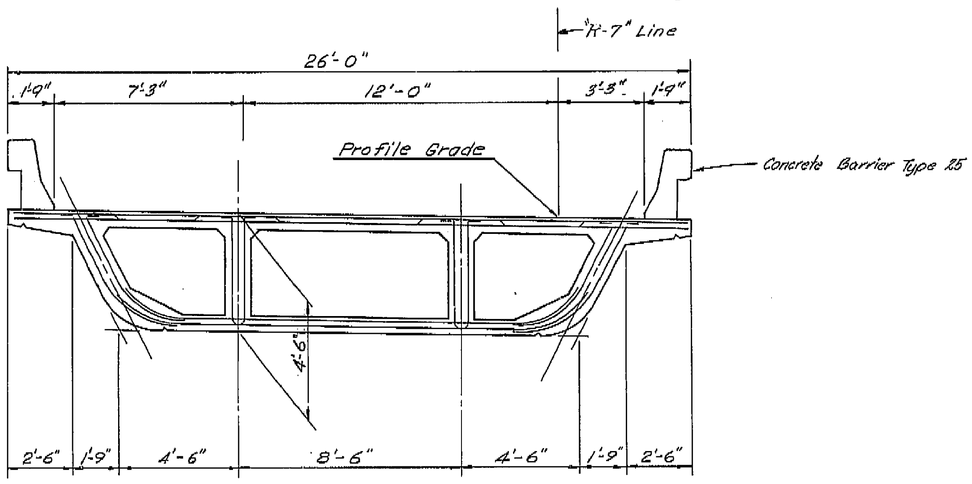
LEFT BRIDGE

RIGHT BRIDGE

TYPICAL SECTION – R/L

B7-1 B-1

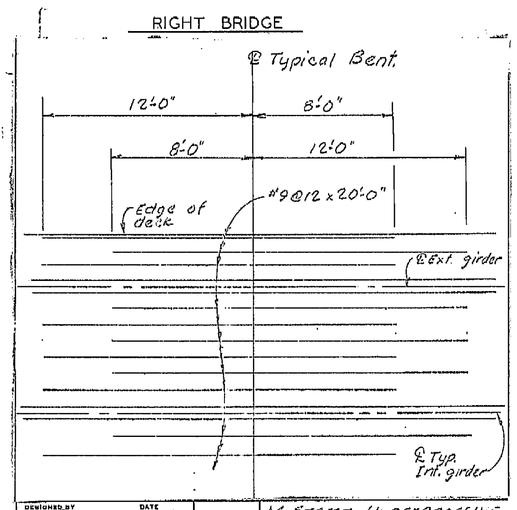
⅜" = 1'-0"



TYPICAL SECTION – QL BRIDGE

B7-1 B-1

⅜" = 1'-0"



Note:
* — See 'Girder Layout' sheets for additional reinf. details.
See "General Plan" sheet for utilities.
** — Stop at face of supports for Qh. Structure.

Note:
All bridges similar except as noted.

AS BUILT
CORRECTIONS BY C. Pearson
CONTRACT NO. 06-025614
DATE 1-15-75 MH 5-20-75

DESIGNED BY P.L. FRASER	DATE 11-5-73	DESIGN 15 GROUP	M STREET UNDERCROSSING
DRAWN BY [illegible]	DATE 11-73		C.C.O. #15 Sheet 3 of 4
CHECKED BY RAD	DATE 11-73		BRIDGE NO. 42-228 (QL) CU 06L04
APPROVED	DATE		SCALE: NONE WO 025611

BRIDGE DEPARTMENT
DESIGN SECTION 15
Project Engineer B.J. Krause

DESIGN	by Wm. J. Aaberg	11/71
	Checked E.N. Brynberg	11-71
DETAILS	by M.A. Hankerson	6-71
	Checked E.N. Brynberg	11-71
QUANTITIES	by A.L. Hansen	2/72
	Checked [illegible]	2-72

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

"M" STREET UNDERCROSSING

TYPICAL SECTION

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-228 N/L & Qh	22.8		9	15

WO
CU

Disregard prints bearing earlier revision dates →

REVISION DATES (PRELIMINARY STAGE ONLY)

116

AS BUILT PLANS
Contract No. 06-025614
Date Completed 9-3-74
Document No. 6000 6555

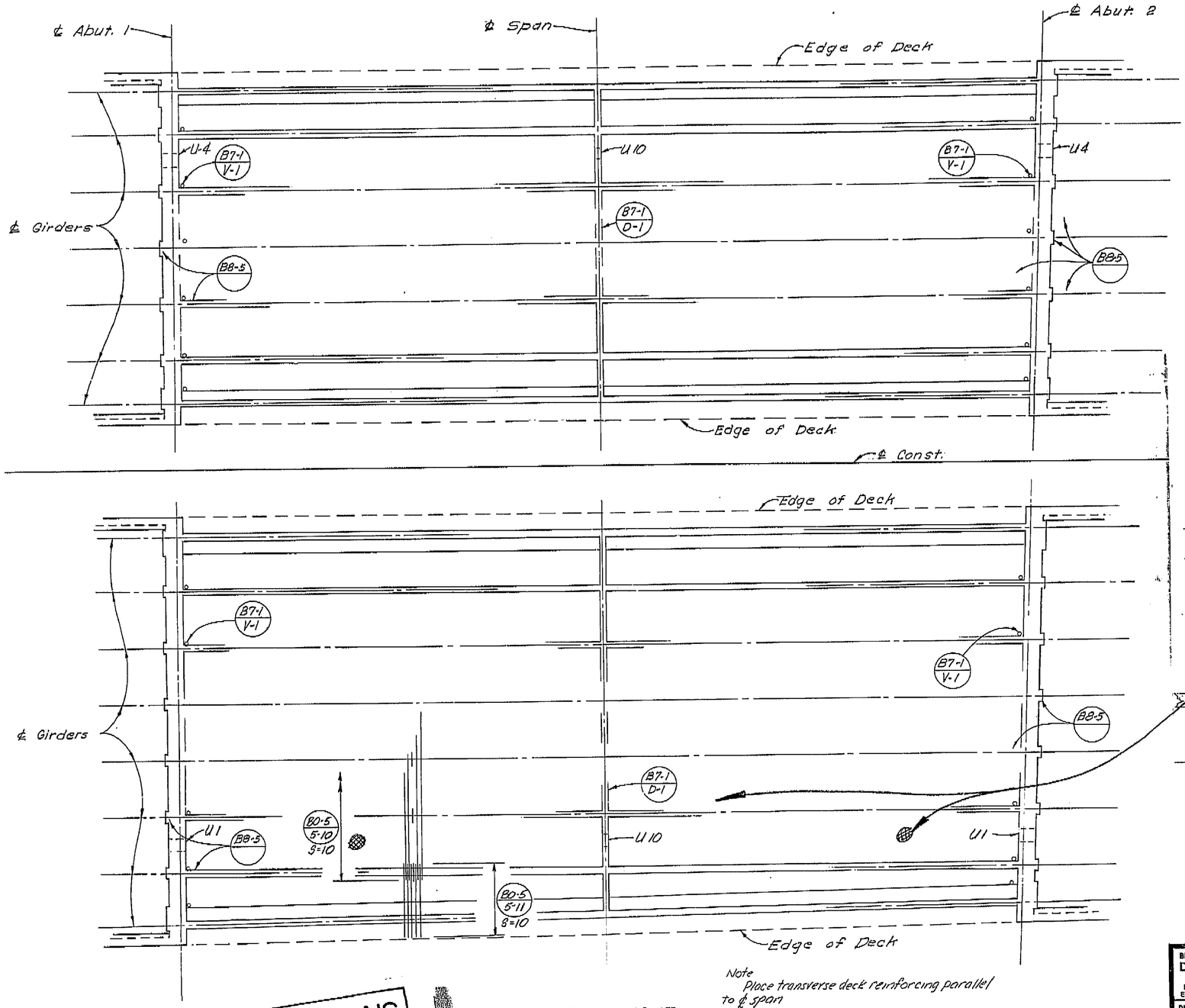
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DATE 6/24/75 SIGNATURE Dick Meadows TITLE Manpower Supervisor

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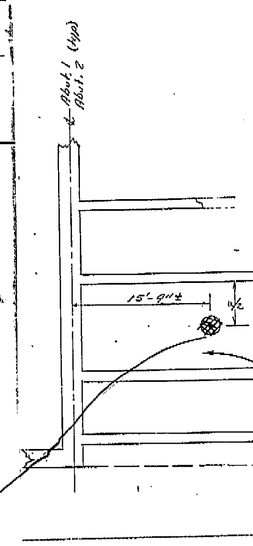
DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	MARKER No.	TOTAL SHEETS
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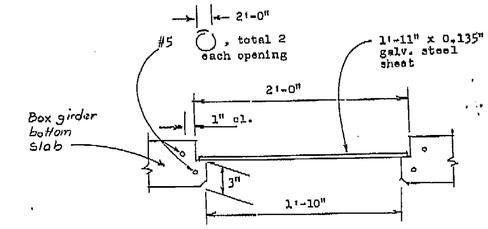
R V Blake
DESIGN SECTION SUPERVISOR REGISTERED CIVIL ENGINEER NO. 8082
DATE APPROVED May 30, 1972



Note
Place transverse deck reinforcing parallel to ℄ span

GIRDER LAYOUT





Locate as directed by the Engineer. Adjust reinforcement to clear opening. Plate must be installed before top deck is placed.

ACCESS OPENING

CONTRACT CHANGE ORDER No. 34
Sheet 2 of 2
06-1RF-41-R22.5/R23.8 U-034-2(6)
06-025614(39) IN FRESNO FROM
L.N.R.W. TO DIVISADERO ST

ACCESS OPENING DETAILS
for
M Street Undercrossing
O Street Undercrossing

Dwn. by W Peters Ckd. by B. Arie

AS BUILT
CORRECTIONS BY C. Pearson
CONTRACT NO. 06-025614
DATE 1-15-75 MKH 5-20-75

AS BUILT PLANS
Contract No. 06-025614
Date Completed 9-3-74
Document No. 6000 6555

BRIDGE DEPARTMENT DESIGN SECTION 15		
Project Engineer B Thomson		
DESIGN	By W. J. Abbey	11/71
	Checked E. M. Brunberg	11-71
DETAILS	By S. K. Hankemeier	6-71
	Checked E. M. Brunberg	11-71
QUANTITIES	By A. L. Hawn	2/72
	Checked Y. Nakaya	1-72

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

"M" STREET UNDERCROSSING

GIRDER LAYOUT— R/L

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-228 R/L & Q2	22.8		11	15

REVISION DATES (PRELIMINARY STAGE ONLY)

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WO
CU

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DATE 6/25/75 SIGNATURE Dick Meadows TITLE Microfilm Supervisor

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DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	41	R22.5/R23.8	122	235

R C Blake
DESIGN &/OR SUPERVISION REGISTERED CIVIL ENGINEER NO. 33C2
DATE APPROVED May 30, 1972

B.M. #121.48
Chiseled "a" in curb
50' Lt. "R-7" 14+70
Elev. 288.08.

14+51.94 P.O.T. "R-7" =
22+43.25 P.O.T. "M" St.

1214+48.33 P.O.T. & Const.
21+23.55 P.O.T. "M" St.

"R-7" Line

To Lemoore

To Yosmite

B-1 (#42-228 Q L)
B-2 (#42-228 Q L)
B-2A (#42-228 Q L)
B-1 (#42-228 R/L)
B-2 (#42-228 R/L)

PLAN
Scale 1" = 50'

LEGEND OF BORING OPERATIONS

Penetrometer
2½" Cone Penetrometer
Sounder Boring (conv)
Rotary Boring (wet)
Auger Boring (dry)
Jet Boring
Core Boring
Test Pit

LEGEND OF EARTH MATERIALS

Silty Clay or Clay
Peat and Organic Matter
Fill Material
Igneous Rock
Sedimentary Rock
Metamorphic Rock
Gravel
Sand
Silt
Clay
Sandy Clay or Clayey Sand
Sandy Silt or Silty Sand

CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS

NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

B-1 (#42-228 Q L) — 288.9 — 2 APT "R-7" 14+03
B-1A (#42-228 Q L) — 288.9 — 2 APT "R-7" 14+08
B-3 (#42-227 R/L) — 288.4 — 87 LAT "R-7" 14+21
B-1 (#42-228 R/L) — 288.6 — 180 LAT "R-7" 14+42
B-2 (#42-228 R/L) — 288.6 — 152 AT "R-7" 15+04
B-3 (#42-228 Q L) — 288.6 — 10 LT "R-7" 15+62
B-2A (#42-228 Q L) — 288.6 — 19 LT "R-7" 16+70
B-2 (#42-228 Q L) — 290 — 19 LT "R-7" 16+75

Approx. ground line along "R-7" Line

3" Light brown SANDY CLAYEY SILT.
Dense red brown SILTY fine SAND with thin cemented layer.
Cemented SAND.
Dense red brown SILTY fine SAND with thin cemented layers.
Dense red-brown SILTY fine - coarse SAND.
Dense red-brown SILTY very fine SAND.
Hard gray, gray-tan CLAYEY SILT.
Dense red-brown SILTY fine SAND interbedded with gray SILT.
Very dense gray SILTY fine SAND interbedded with
Dense gray, red-brown SILT.

25 PMS/PCC
Very hard gray cemented SANDY silt.
Slightly compact gray MICACEOUS fine SAND to medium to coarse SAND.
Dense grayish tan SILTY fine SAND.
Dense brown SILTY fine SAND.
Dense gray & tan very fine to fine slightly SILTY fine SAND with some SILT layers.
Hard gray & tan iron stained CLAYEY SILT with some thin SAND partings.
Compact gray & brown fine to medium MICACEOUS SAND.
Dense gray & brown fine to medium MICACEOUS SAND with some SILT.
Dense to very dense rust brown CLAYEY SAND.
Hard gray CLAYEY to SANDY SILT.

1260/0.8 10-10-69
300/0.7 12-19-63
300/0.7 12-18-63
300/0.7 10-10-69
300/0.8 12-19-63
G.W.S. El. 251.9 10-16-69

PROFILE
Scale: 1" = 10'

AS BUILT
CORRECTIONS BY
CONTRACT NO.
DATE

AS BUILT PLANS
Contract No. 06-025614
Date Completed 9-3-74
Document No. 6000 6555

BRIDGE DEPARTMENT
ENGINEERING GEOLOGY SECTION

FIELD STUDY	M.L. Blake 10-69
DRAWN	M.S. Nowanuk 3-70
CHECKED	M.L. Blake 11-25-69

Approved Recommended by: J. K. Sawyer, Engineering Geologist

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

"M" STREET UNDERCROSSING

LOG OF TEST BORINGS

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-228 R/L & Q L	22.8		15	15

WO 025611
CU 06202

Disregard prints bearing earlier revision dates

REVISION DATES (PRELIMINARY STAGE ONLY)

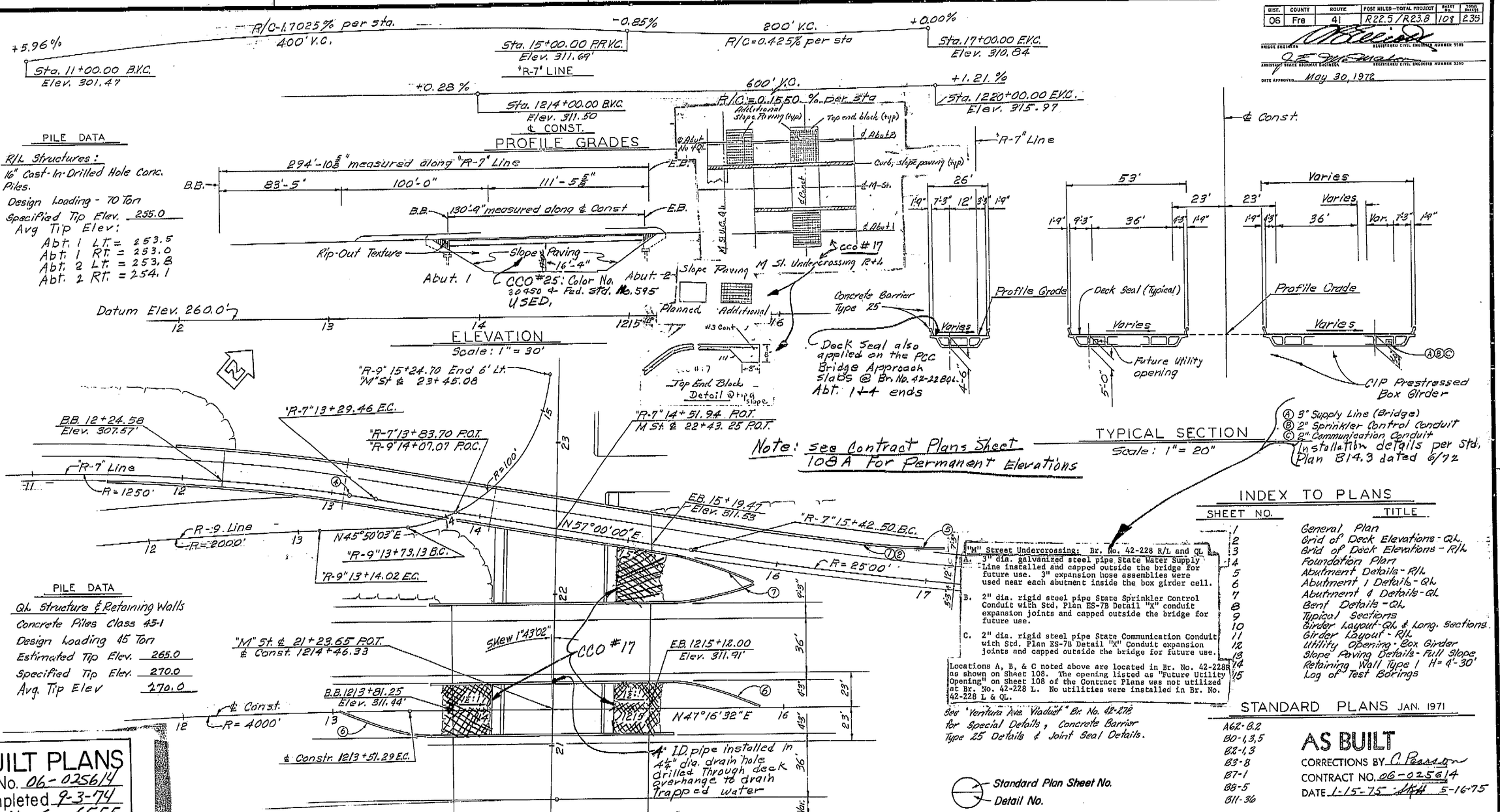
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DATE 6/24/75 SIGNATURE Dick MacLean TITLE Microfilm Supervisor

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MICROFILM
SCALE 1" = 50' / SCALE 1" = 20' / SCALE 1" = 10' or 1" = 100' / SCALE 1" = 40'

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DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41	R22.5/R23.8	108	235

BRIDGE ENGINEER — REGISTERED CIVIL ENGINEER NUMBER 5595
ASSISTANT STATE HIGHWAY ENGINEER — REGISTERED CIVIL ENGINEER NUMBER 5350
DATE APPROVED May 30, 1972



PILE DATA

R/L Structures:
16" Cast-In-Drilled Hole Conc. Piles.
Design Loading - 70 Ton
Specified Tip Elev. 255.0
Avg Tip Elev:
Abt. 1 Lt. = 253.5
Abt. 1 Rt. = 253.0
Abt. 2 Lt. = 253.8
Abt. 2 Rt. = 254.1

PILE DATA

QL Structure & Retaining Walls
Concrete Piles Class 45-1
Design Loading 45 Ton
Estimated Tip Elev. 265.0
Specified Tip Elev. 270.0
Avg. Tip Elev 270.0

"M" Street Undercrossing: Br. No. 42-228 R/L and QL

A. 3" dia. galvanized steel pipe State Water Supply Line installed and capped outside the bridge for future use. 3" expansion hose assemblies were used near each abutment inside the box girder cell.

B. 2" dia. rigid steel pipe State Sprinkler Control Conduit with Std. Plan ES-7B Detail "K" conduit expansion joints and capped outside the bridge for future use.

C. 2" dia. rigid steel pipe State Communication Conduit with Std. Plan ES-7B Detail "K" Conduit expansion joints and capped outside the bridge for future use.

Locations A, B, & C noted above are located in Br. No. 42-228R as shown on Sheet 108. The opening listed as "Future Utility Opening" on Sheet 108 of the Contract Plans was not utilized at Br. No. 42-228 L. No utilities were installed in Br. No. 42-228 L & QL.

See 'Ventura Ave. Viaduct" Br. No. 42-278 for Special Details, Concrete Barrier Type 25 Details & Joint Seal Details.

INDEX TO PLANS

SHEET NO.	TITLE
1	General Plan
2	Grid of Deck Elevations - QL
3	Grid of Deck Elevations - R/L
4	Foundation Plan
5	Abutment Details - R/L
6	Abutment 1 Details - QL
7	Abutment 4 Details - QL
8	Bent Details - QL
9	Typical Sections
10	Girder Layout-QL & Long. Sections
11	Girder Layout - R/L
12	Utility Opening - Box Girder
13	Slope Paving Details - Full Slope
14	Retaining Wall Type 1 H= 4'-30'
15	Log of Test Borings

STANDARD PLANS JAN. 1971

A62-B.2
B0-1,3,5
B2-1,3
B3-8
B7-1
B8-5
B11-36

Standard Plan Sheet No.
Detail No.

Numbers indicate location for:
① Painting Br. No. 42-228 R/L & QL and year constructed.
② Painting "M" Street Undercrossing
③ Minimum Vertical Clearance ~~14'-8"~~ 16'-4"
④ Minimum Vertical Clearance 16'-6"
⑤ ~~Concrete Barrier Type 25A~~ Type 1 Flare L=50'-0"
⑥ ~~Concrete Barrier Type 25B~~ Type 2 Flare ~~L=40'-6"~~ L=50'-0"
⑦ ~~Concrete Barrier Type 25C~~ Type 3 Flare ~~L=40'-6"~~ L=50'-0"

CCO 32: Installed metal Beam guard rail w/end anchors L=100' w/25' return

FOR GENERAL NOTES SEE 'Grid of Deck Elevations - R/L'

LIVE LOADING HS20-44 AND ALTERNATIVE

NOTE: FOR QUANTITIES, SEE GRID OF DECK ELEVATIONS -QL SHEET

AS BUILT PLANS
Contract No. 06-025614
Date Completed 9-3-74
Document No. 6666555

AS BUILT
CORRECTIONS BY C Pearson
CONTRACT NO. 06-025614
DATE 1-15-75 ~~1-14~~ 5-16-75

BRIDGE DEPARTMENT
··· DESIGN SECTION ··· 15
Section Supervisor R C Reed
Project Designer Bruce Thomas

DESIGN	By W. J. Rabern 11/71	Checked E.N. Brunberg 11-71
DETAILS	By Ed Matheson 2/72	Checked E.N. Brunberg 11-71
LAYOUT	By B.L. Fraser 6/71	Checked E.N. Brunberg 11-71
QUANTITIES	By A.J. Varon 2/72	Checked O. Nakagawa 3-72
SPECIFICATIONS	By W.C. Smith	Plans and Specs. Estimate Checked 5/72

Approval Recommended by R C Reed, Design Engineer — Registered Civil Engr. License No. 9018

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

"M" STREET UNDERCROSSING
LOCATED IN THE CITY OF FRESNO IN FRESNO COUNTY

GENERAL PLAN

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-228 R/L & QL	22.8		1	15

WO 025611
CU 06202

Disregard prints bearing earlier revision dates →

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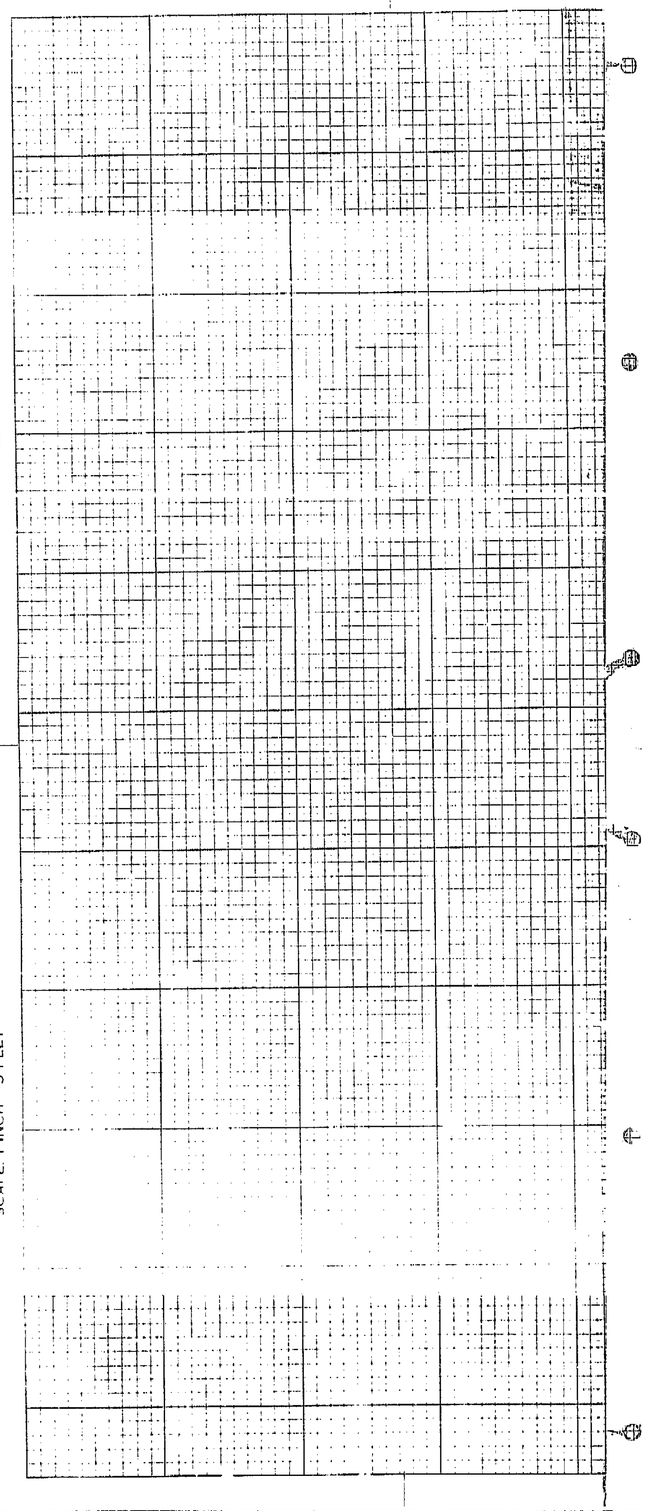
DATE 6/24/75 SIGNATURE Ted Meadows TITLE Drafting Supervisor

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DIST	COUNTY	ROUTE	POST MILES	SHEET NO.	TOTAL SHEETS
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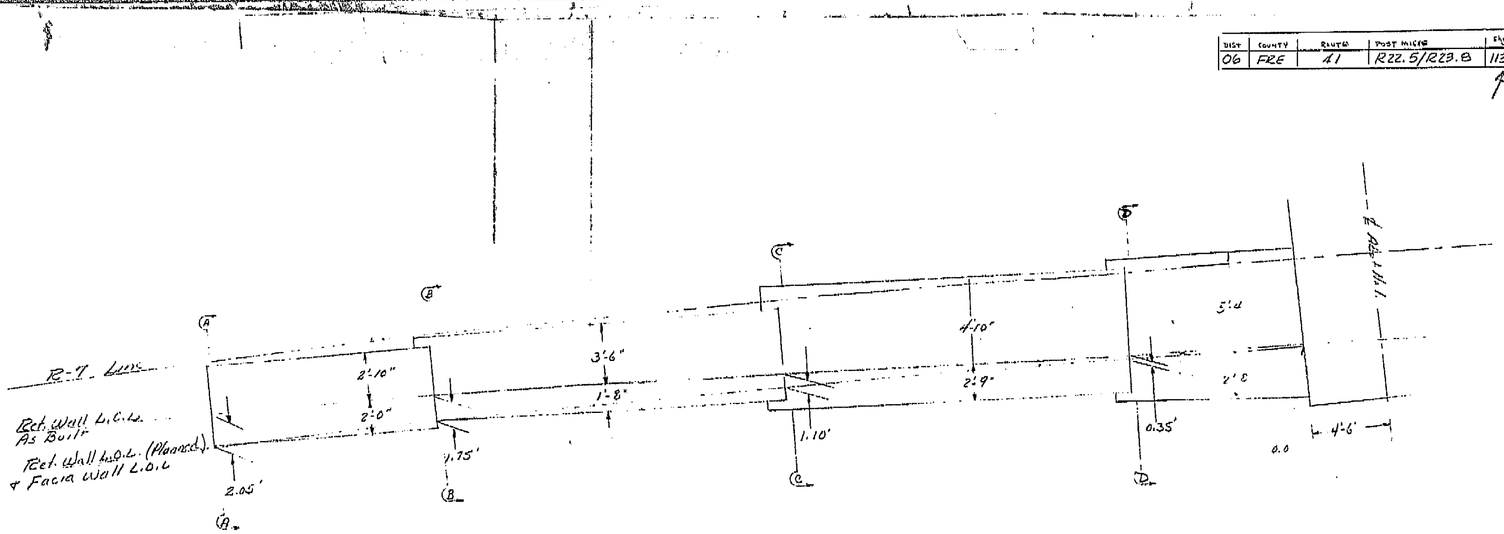
CROSS SECTIONS

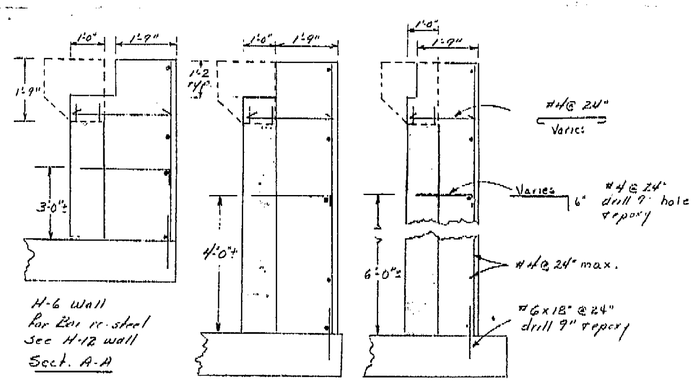
SCALE: 1 INCH = 5 FEET



CROSS SECTIONS

SCALE: 1 INCH = 2 FEET

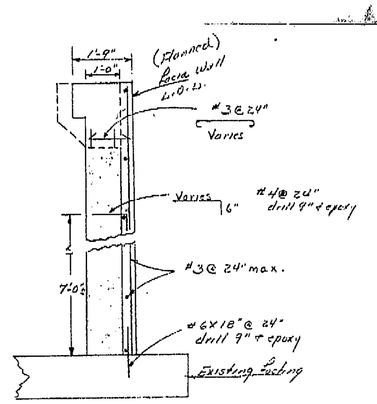




H-6 Wall
For Bar re-steel
See H-12 wall
Sect. A-A

H-8 Wall
For bar re-steel
see H-12 wall
Sect B-B

H-12 Wall
Sect C-C



H-14 Wall
Sect D-D

1. Remove top 1'-9" of existing wall.
2. Salvage 6" of vertical bar re-steel in existing wall.
3. Chip face of H-14 wall to maintain 4" min. clearance between existing concrete and face form.
4. Drill and epoxy #6 dowels into footings.
5. Drill and epoxy #4 dowels into existing wall.
6. Place bar re-steel (temp.) for walls.
7. Place bar re-steel ties between wall salvaged dowels and bar re-steel for walls.
8. Barrier rail dowels to be Type 25B
9. Omit ripped texture on facia wall.
10. Rebour top of existing wall, as shown, to 1'-9" top width when placing concrete for facia wall.

☐ Portions of existing wall to remain in place

AS BUILT PLANS
Contract No. 06-025614
Date Completed 9-3-74
Document No. 6000 6555

AS BUILT
Corrections by Jo P. Pearson R.E.
Date 1-22-75

Drawn By: A. Whitten
Checked By: Jo P. Pearson

C.C.O. No. 58
M St. U.C. QL
Br No. 42-228 QL
Abut No. 1 Ret. Wall
Sheet No 2 of 2

RECONSTRUCTION NECESSITATED BY PLANNED RET. WALL CONSTRUCTED FROM ERRONEOUS SURVEY LINE

ABUT. 1 QL RT. RET. WALL

SUPPLEMENTAL SHEET

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 6/24/75 SIGNATURE Dick Mearbourne TITLE Maintenance Supervisor

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Revised 9-24-58
Added Note ◉
108

ev. Location
Key 90-58 B

le Section Reinf.
moved. 10-21-58 JTR

hanged note of top
"Spread Ftg. Sec."
TJ 6-21-60

evisions in table.
1-1-60 JTJ

dded 1 after W-3 in
ower right hand
orner of Sheet
1-61 JTJ

emoved Keys & added
onst. Joint
0-16-61 JTJ

evised Table and
emoved Note, New
ame Spread Ftg Sec.
10-62 JTJ

Revision: 8-22-62
Added note pertaining
to quantities.
O. Lancaster.

Deleted Dim.
line in Spread
Footing Section
4-63 - JTJ.

changed "5@36 in
"5@24 in Table
of Reinf. Steel in
Column. Changed
H = 4 thru 22 to 8 thru 32.
1-6-64 JTJ

Revised Title Block
& Co-Rt-Sec Block
& Date Block. Signature
Block added above
Co-Rt-Sec. JTJ-4-64

CHANGED 8.8 TO 10.6 IN
CONC. PILE FTG. 4' PILE
AT SAME STEEL PCT.
11 FEB 66 EJJ

CHANGED TITLE
31 JAN 66 EJJ

STANDARD DRAWING
Approved
Chief, Bridge Department
Date 10-28-58
Effective
Date 10-28-58
Supersedes
Dwg. No. B3-1
Dated 1-1-71

Note:
Bar cut-offs may be varied in increments of 6".

Use Reinforcement for H = 16' 18' 20'

Toe of Slope
Top of Wall.
Top of Footing
Optional Footing Lines
Layout Line
max. Varies
H+6"
16'-6" max.
18'-6" max.
20'-6" max.
1'-2"
1'-4"
9'-0"
6'-0"
3'-0"
16'-0"
2'-8"
5'-4"
B=7'-4"
W = 11'-0"

TYPICAL LAYOUT EXAMPLE

For joints required, see Bridge Details 3-3 and 3-4.

Number above (c) bars indicates distance from top of footing to upper end of (c) bars.

H= 4' 6' 8' 10' 12' 14' 16' 18' 20' 22' 24' 26' 28' 30'

3'-0" 4'-9" 4'-6" 7'-9" 8'-0" 5'-9" long 8'-9" 12'-0" 6'-0" long 12'-0" 6'-0" long 12'-0" 5'-8" long 12'-5" 6'-9" long 13'-6" 8'-0" long 14'-0" 8'-6" long

5'-9" 6'-0" 8'-6" 7'-6" 8'-0" 8'-6" 9'-0" 10'-6" 10'-0"

24" 24" 24" 12" 12" 6" 6" 7½" 5" 5" 11" 11" 6" 6" 8½" 7" 12" 10½" 10" 9"

ELEVATION

TABLE OF REINFORCING STEEL DIMENSIONS AND DATA

Design H		◉4'	6'	8'	10'	12'	14'	16'	18'	20'	22'	24'	26'	28'	30'
W		3'-2"	4'-2"	5'-2"	6'-2"	7'-2"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-3"	14'-3"	15'-3"	16'-3"
C		1'-0"	1'-4"	1'-8"	2'-0"	2'-4"	2'-8"	3'-0"	3'-4"	3'-8"	4'-0"	4'-5"	4'-9"	5'-1"	5'-5"
B		2'-2"	2'-10"	3'-6"	4'-2"	4'-10"	5'-4"	6'-0"	6'-8"	7'-4"	8'-0"	8'-10"	9'-6"	10'-2"	10'-10"
F Spread Ftg.		1'-2"	1'-2"	1'-2"	1'-2"	1'-2"	1'-2"	1'-2"	1'-2"	1'-4"	1'-6"	1'-8"	1'-11"	2'-2"	2'-4"
Batter					1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	5/8:12	5/8:12	3/4:12	7/8:12
(a)	bars													#7@20	#7@18
(b)	bars					#5@30	#5@15	#5@11	#6@24	#7@17	#7@14	#8@12	#9@10	#9@10	#9@9
(c)	bars	#5@24	#5@24	#5@12	#5@8	#6@7½	#10@15	#10@11	#10@8	#10@8½	#11@7	#11@12	#10@10½	#11@10	#11@9
(d)	bars	#5@24	#5@24	#4@12	#4@8	#5@7½	#9@15	#9@11	#9@8	#10@8½	#10@7	#10@12	#10@10½	#9@10	#9@9
Total (e)	bars	6-#6	6-#6	6-#6	10-#7	10-#7	10-#7	10-#7	8-#7	8-#7	8-#7	4-#7	4-#7	4-#7	4-#7
Total (f)	bars				6-#7	6-#7	6-#7	6-#7	4-#7	4-#7	4-#7	2-#7	2-#7	2-#7	2-#7
2' level surcharge	H Comp k	0.85	1.4	2.2	3.1	4.1	5.2	6.5	8.0	9.7	11.6	13.7	16.0	18.6	21.1
	V Comp k	2.3	3.8	5.6	7.7	10.2	12.6	15.6	19.0	24.9	27.3	32.8	38.1	43.9	50.0
	Toe Pr. k/sf	1.4	1.8	2.2	2.5	2.8	3.1	3.5	3.8	4.1	4.6	4.7	5.3	5.7	6.2
2:1 unlimited slope	H Comp k	0.7	1.4	2.3	3.4	4.8	6.3	8.1	10.2	12.6	15.3	18.4	21.7	25.4	29.1
	V Comp k	2.3	3.9	5.8	8.2	11.0	13.9	17.5	21.5	28.3	31.5	38.0	44.4	51.5	58.9
	Toe Pr. k/sf	1.1	1.5	2.0	2.5	2.9	3.4	3.8	4.3	4.8	5.5	5.9	6.5	7.1	7.8
1½:1 limited slope	H Comp k	1.1	2.0	3.1	4.1	5.4	6.9	8.4	10.0	11.8	13.9	16.2	18.6	21.1	23.4
	V Comp k	2.7	4.5	6.5	8.9	11.7	14.2	17.5	21.0	27.1	29.6	35.2	40.7	46.3	52.3
	Toe Pr. k/sf	1.3	1.9	2.4	2.8	3.5	3.8	4.2	4.6	4.9	5.5	5.8	6.4	6.9	7.5
Spread Footing	Steel lbs/ft.	14	20	28	39	56	84	108	169	206	259	328	393	429	484
	Conc. c.f./ft.	8.9	12.6	16.3	20.2	24.3	29.5	33.8	38.5	45.0	52.1	63.1	73.0	87.6	102.7
Concrete pile ftg.	Steel lbs./ft.	27	31	39	74	92	120	144	198	236	289	348	413	449	504
	Conc. c.f./ft.	10.6	13.3	17.4	21.6	26.2	30.7	35.4	40.5	47.5	54.9	66.4	76.8	91.7	107.3

* Denotes a bundle of 2 bars

Layout Line
12½"
2" x ¾" Recess
Gutter Elev. or Toe of slope intersection
Appropriate details at top of wall are shown elsewhere. (See "Ventura Ave. Viaduct" Br. No. 48-278 for Concrete Barrier Type 25A details for top of wall.)
For design limits of surcharge and slope see "Retaining Wall Details No.-1." sheet
(a)
(b)
*4 @ 18
*4 @ 36
Rip-Out Texture *
Exterior face vertical
Short (b)
Batter Backface
(c)
3" Clear
2" Clear
Short (c)
Construction joint
Design H
Short (b)
Short (c)
Stop (c)
H=8 to 22 1'-0"
H=24 to 30 2'-6"
(d) Bundle bars for H=24 to 30
2" Clear
*4 Tot. 7
F
Bundle (c) bars
3" Clear
Optional Key
35 dia.
(8" for H = 10'
1'-0" for H=12'
W/4 for H=10'
W/3 for H=12'
C
B
W

SPREAD FOOTING SECTION

Note:
For details not shown and drainage notes see "Retaining Wall Details No. 1".

Quantities apply to Design H portion and exclude the added portion above "Gutter Elevation."

* — See "Abut. 1 Details - QL" & "Abut. 4 Details - QL" sheets for additional Rip-Out Texture

PILE EMBEDMENT IN FOOTING

Pile Type	Embedment
Concrete	3"
Steel	5"
Timber	6"

(f) @ 8
6 bars
4 bars
2 bars
Const. Joint
(e) @ 8
10 bars
8 bars
6 bars
8"
F+3"
F+6"
*4 @ 18
*4 @ 18" lap with (d) bars
*6" cl.
3
C
B
W
Steel or Concrete Piles
Timber Piles

PILE FOOTING SECTION
H = 4 Thru H = 22

*4 @ 18" lap with (d) bars
Const Jt.
8"
*4
(f)
(e)
*4 @ 18
*6" cl.
3
C
B
W
F+3"
F+6"
Steel or Concrete Piles
Timber Piles

PILE FOOTING SECTION
H = 24 Thru H = 30

Note:
This sheet supersedes Sheet No. B3-1, page 79 of the Standard Plans dated Jan. 1971 for this project only. Spread Footing Section & Table revised.

Note:
Reinforcement detailed is to be placed in addition to that shown for spread footing. All piles not shown, see Pile Layout on other sheets.

* Except 3" where timber piles are used.

◉ For pile footing Design H = 4' use same footing dimensions as Design H = 6'

"NO AS-BUILT CORRECTIONS"
AS BUILT
CORRECTIONS BY
CONTRACT NO.
DATE

DIST	COUNTY	ROUTE	POST MILES	TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	FRE	41	R22.5/R23.8	121	235

BRIDGE ENGINEER — REGISTERED CIVIL ENGINEER — LICENSE 5586
May 30, 1972

3/72
STATE OF CALIFORNIA
BUSINESS AND TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS
XS-3-46

"M" STREET UNDERCROSSING
SPECIAL DETAILS
RETAINING WALL TYPE 1 H = 4' - 30'

BRIDGE NO. 42-228 R/L QL | POST MILE 22.8 | DRAWING NO. | SHEET 14 | OF 15

REVISION DATES

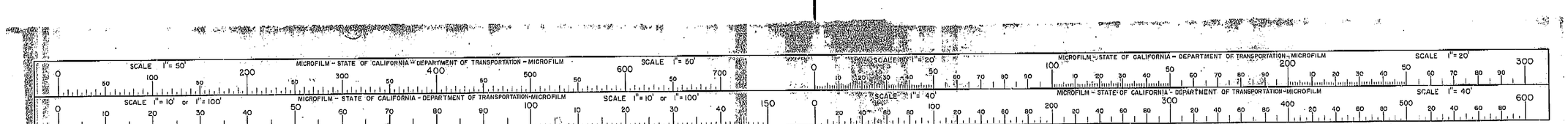
11/68 Note added.

W.O.

Disregard prints bearing earlier revision dates →

AS BUILT PLANS
Contract No. 06-025614
Date Completed 9-3-74
Document No. 6666555

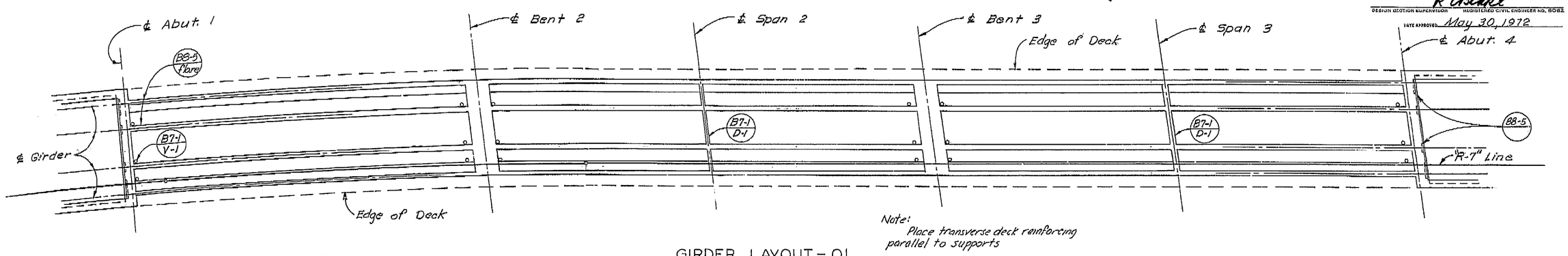
I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.
DATE 6/24/75 SIGNATURE Dick Macbeth TITLE Microfilm Supervisor



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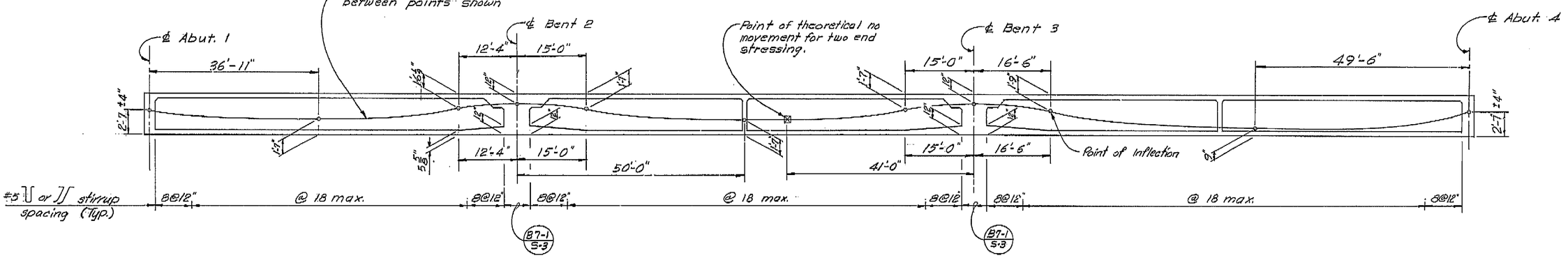
DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41	R22.5/R23.8	117	235

R C Blake
DESIGN SECTION SUPERVISOR — REGISTERED CIVIL ENGINEER NO. 8082
DATE APPROVED May 30, 1972

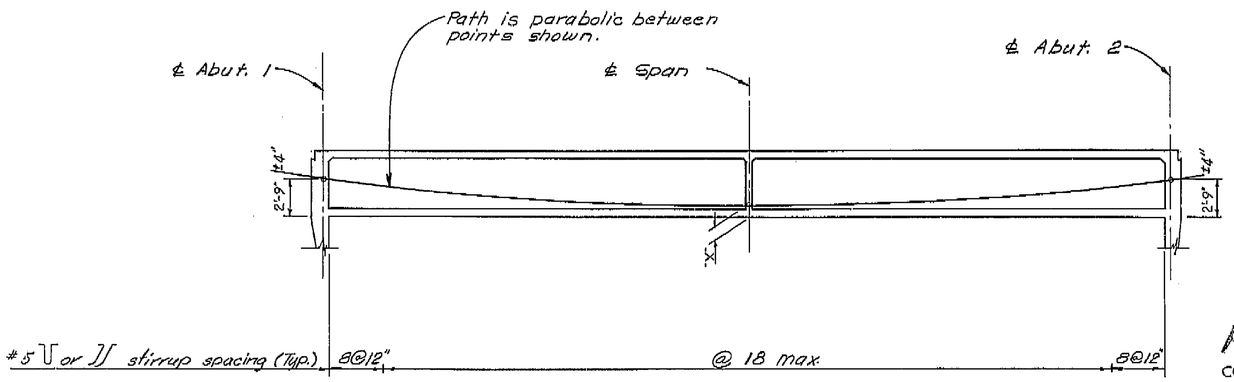


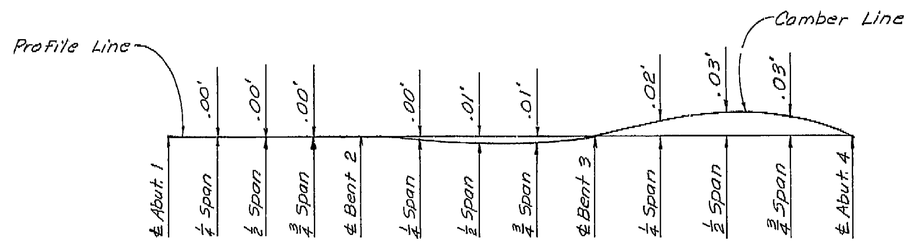
Note:
Place transverse deck reinforcing parallel to supports

GIRDER LAYOUT – QL



LONGITUDINAL SECTION – QL





CAMBER DIAGRAM – QL

(Does not include allowance for falsework settlement.)

LONGITUDINAL SECTION – R/L

AS BUILT
CORRECTIONS BY C. Pearson
CONTRACT NO. 06-025614
DATE 1-15-75 5-20-75

AS BUILT PLANS
Contract No. 06-025614
Date Completed 9-3-74
Document No. 6000 6555

BRIDGE DEPARTMENT DESIGN SECTION 15		
Project Engineer		
DESIGN	By W. J. Asbey	11/71
	Checked E.N. Brunberg	11-71
DETAILS	By W. K. Dahlgren	6-71
	Checked E.N. Brunberg	11-71
QUANTITIES	By A. L. Hansen	2/72
	Checked Y. Nakamura	2-72

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

"M" STREET UNDERCROSSING

GIRDER LAYOUT-QL & LONG. SECTIONS

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-228 R/L 6L	22.8		10	15

WO
CU

Disregard prints bearing earlier revision dates →

REVISION DATES (PRELIMINARY STAGE ONLY)

117

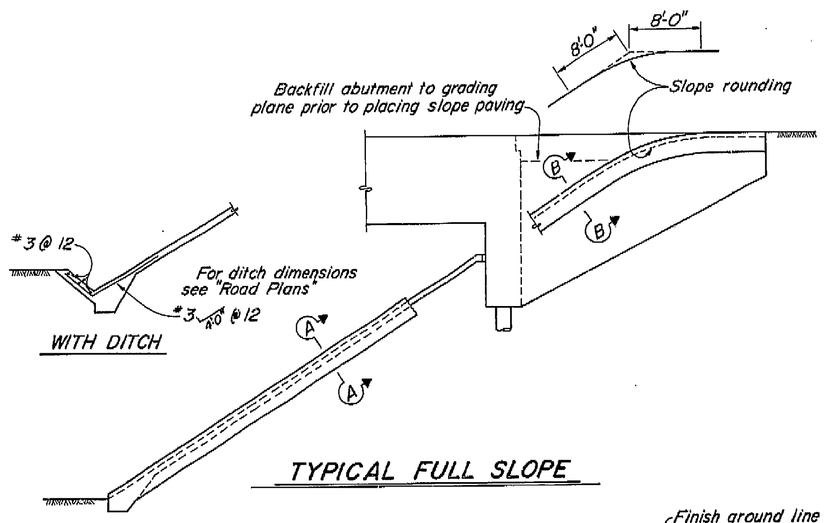
I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.
DATE 6/24/15 SIGNATURE Rick Meadows TITLE Manager Supervisor

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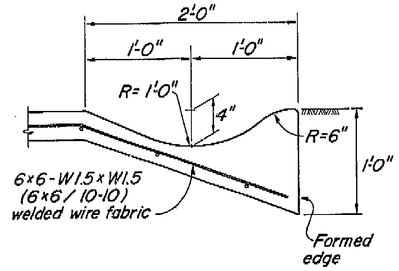
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BRIDGE ENGINEER — REGISTERED CIVIL ENGINEER No. 5585

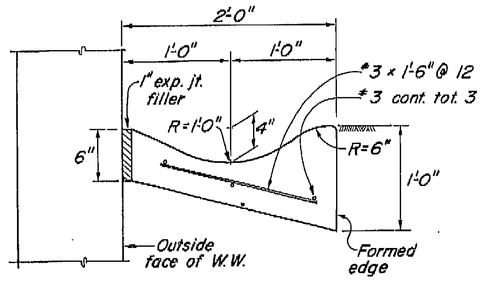
DATE APPROVED May 30, 1972



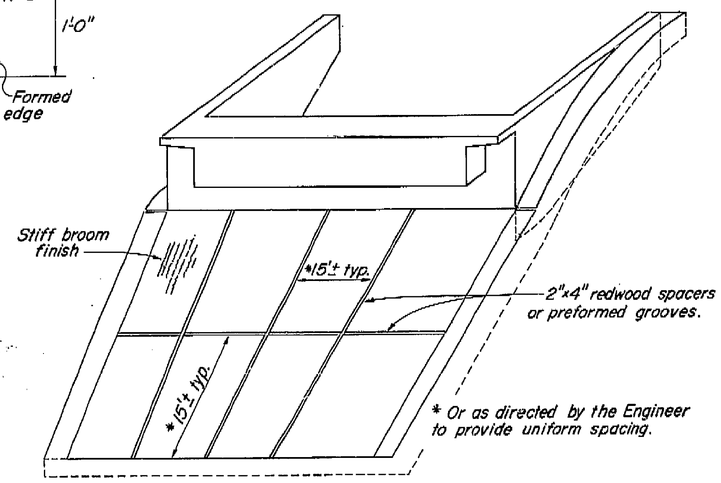
TYPICAL FULL SLOPE



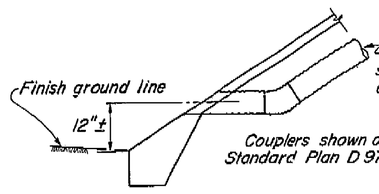
SECTION A-A



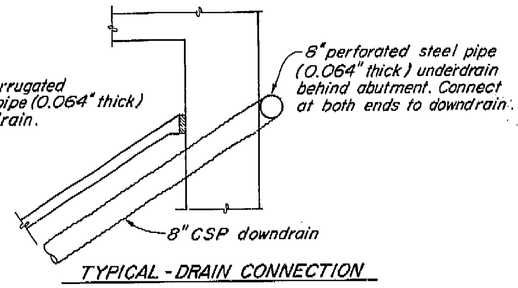
SECTION B-B



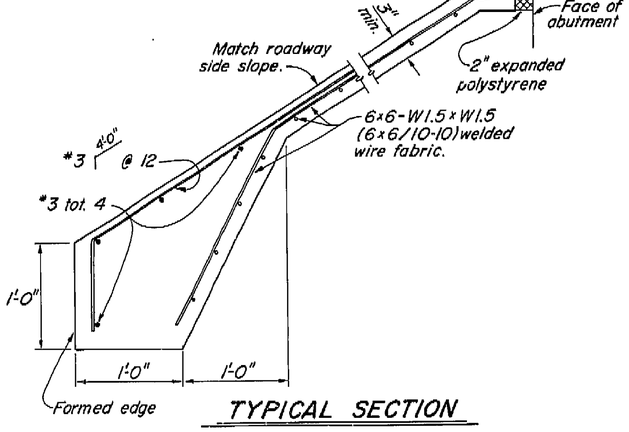
PICTORIAL VIEW OF TYPICAL INSTALLATION



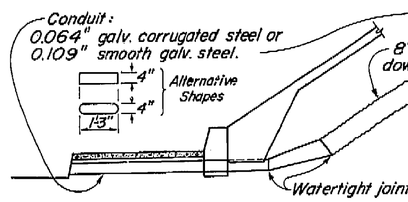
TYPICAL - NO CURB



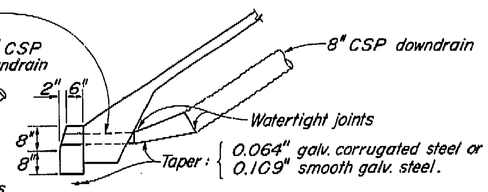
TYPICAL - DRAIN CONNECTION



TYPICAL SECTION



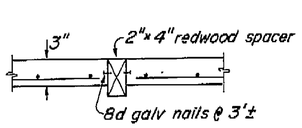
TYPICAL WITH SIDEWALK



TYPICAL - WITH CURB

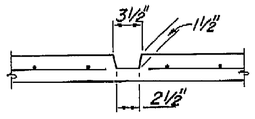
Note: In case of conflict between curb details shown here and those on Road Plans, the Road Plans shall govern.

DRAINAGE DETAILS



SPACER DETAIL

USED



PREFORMED GROOVE

"NO AS-BUILT CORRECTIONS"
AS BUILT
CORRECTIONS BY C. Pearson
CONTRACT NO. 06-025614
DATE 1-15-75 SAH 5-20-75

AS BUILT PLANS
Contract No. 06-025614
Date Completed 9-3-74
Document No. 6666555

STANDARD DRAWING
DESIGN
DETAILS
Approval Recommended by

BRIDGE DEPARTMENT DESIGN SECTION 15			STATE OF CALIFORNIA BUSINESS AND TRANSPORTATION AGENCY DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS		XS-22-11
Project Engineer			8 / 71		
DESIGN	By W.J. Aaberg 11/71	Checked E.N. Brunberg 11-71	"M" STREET UNDERCROSSING		
DETAILS	By RAND THIBERT 10-71	Checked E.N. Brunberg 11-71	SLOPE PAVING DETAILS - FULL SLOPE		
QUANTITIES	By A.T. Pearson 2/72	Checked G. Nielsen 2-72	BRIDGE NO. 42-228 R/L QL	POST MILE 22.8	DRAWING NO. 13 SHEET OF 15

REVISION DATES (PRELIMINARY STAGE ONLY) — Disregard prints bearing earlier revision dates

WO
CU

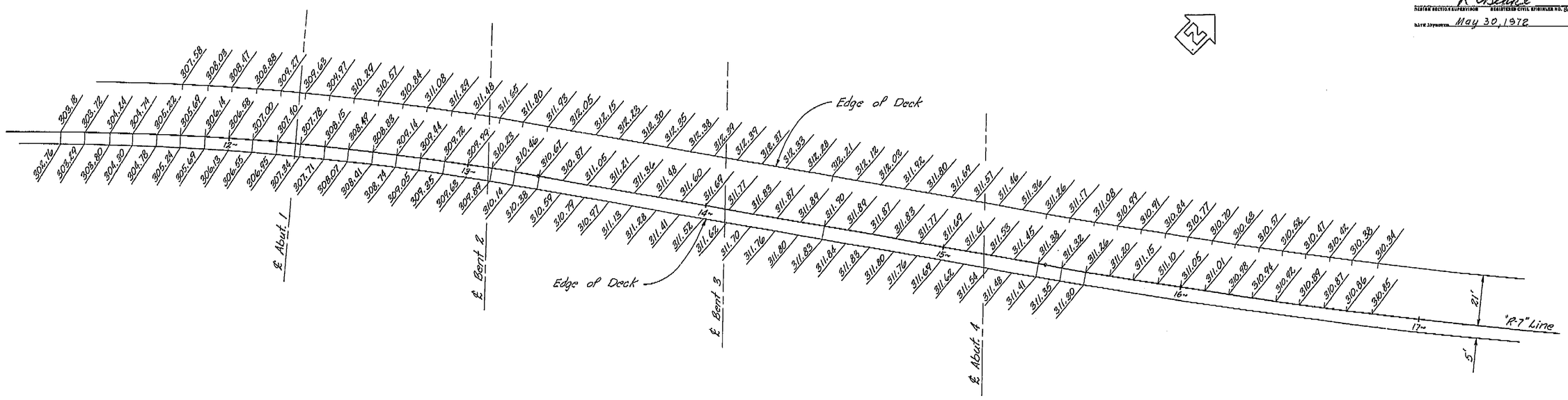
I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 6/24/15 SIGNATURE Nick Meadows TITLE Graphic Supervisor

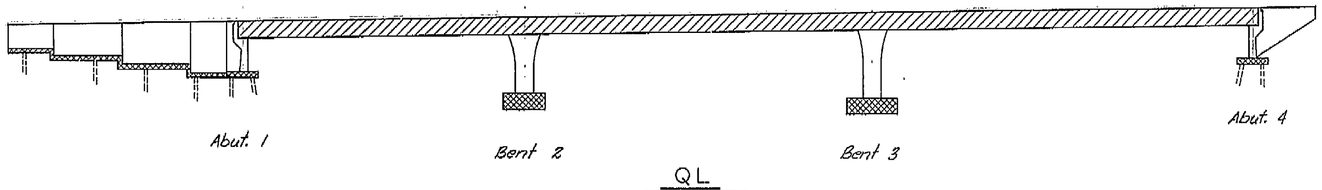
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DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	FRE	41	R22.5/R23.8	109	235

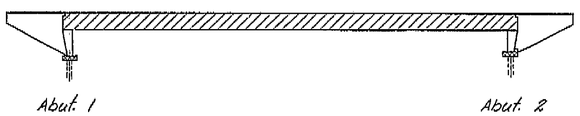
R C Blake
DESIGN SECTION SUPERVISOR — REGISTERED CIVIL ENGINEER NO. 8006
DATE APPROVED May 30, 1972



QL



QL



R/L

Note:

Elevations are figured @ 10' stations radially from "R-7" Line up to Station 13+29.49 & normal from "R-7" Line between Station 13+29.49 to 15+42.50 then radially from "R-7" Line from Station 15+42.50 on.

These elevations do not include camber.

APPROXIMATE QUANTITIES	42-228 R/L	42-228 QL
JOINT SEAL (TYPE B1-MR 1 1/2")		51 LF
DRIVE CONCRETE PILE (CLASS 45)		84 EA
FURNISH CONCRETE PILING (CLASS 45-1)		2,335 LF
TEMPORARY RAILING (TYPE K)	780 LF	
3" SUPPLY LINE (BRIDGE)	191 LF	
16" CAST-IN-DRILLED-HOLE CONCRETE PILING	1,945 LF	
PRESTRESSING CAST-IN-PLACE CONCRETE	LUMP SUM	LUMP SUM
RIPPED TEXTURE (REINFORCING BAR)	940 SQ FT	1,795 SQ FT
STRIP WATERSTOP	110 LF	
JOINT SEAL (TYPE B1-MR 1")	225 LF	
DECK SEAL (EPOXY)	14,850 SQ FT	
8" PERFORATED STEEL PIPE UNDERDRAIN (.064" THICK)	222 LF	48 LF
CLASS 1 PERMEABLE MATERIAL (BRIDGE)	45 CY	60 CY
8" CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK)	319 LF	86 LF
SLOPE PAVING(CONCRETE)	84 CY	15 CY
CONCRETE BARRIER (TYPE 25)	512 LF	580 LF
CONCRETE BARRIER (TYPE 25A) eliminated by CO#2	144 LF	249 LF
~~CONCRETE BARRIER (TYPE 25B)~~	~~236 LF~~	~~77 LF~~
WATERSTOP		102 LF
FINAL QUANTITIES		
STRUCTURE EXCAVATION (BRIDGE)	405 CY	830 CY
STRUCTURE BACKFILL (BRIDGE)	260 CY	1,005 CY
STRUCTURE CONCRETE, BRIDGE FOOTING	55 CY	205 CY
STRUCTURE CONCRETE, BRIDGE	145 CY	280 CY
CAST-IN-PLACE PRESTRESSED CONCRETE (GRADE 35-50)	975 CY	490 CY
BAR REINFORCING STEEL (BRIDGE)	184,000 LB	186,000 LB

AS BUILT
CORRECTIONS BY C.L. Ramsey
CONTRACT NO. 06-025614
DATE 1-15-75 JRH 5-16-75

Cast-in-place prestressed concrete
Structure concrete, bridge
Structure concrete, bridge footing

CONCRETE TYPE LIMITS

AS BUILT PLANS
Contract No. 06-025614
Date Completed 9-3-74
Document No. 6666555

BRIDGE DEPARTMENT
DESIGN SECTION 15
Project Engineer D.D. Swan

DESIGN	by W.T. Adams	11/71
	Checked E.N. Brunberg	11-71
DETAILS	by RAND TAMBERT	10-71
	Checked E.N. Brunberg	11-71
QUANTITIES	by A.L. Nanson	2172
	Checked G. Nalbandian	2-74

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

"M" STREET UNDERCROSSING

GRID OF DECK ELEVATIONS - QL

BRIDGE NO.	R/L	QL	POST MILE	WO	SHEET	OF
42-228			22.8	CU	2	15

REVISION DATES (PRELIMINARY STAGE ONLY)
5/11

Disregard prints bearing earlier revision dates

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.
DATE 6/24/75 SIGNATURE Wesley Meadows TITLE Supervising

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California Department of Transportation
Division of Maintenance

Structure Maintenance and Investigations

BRIDGE

INSPECTION

RECORDS

INFORMATION

SYSTEM

The requested documents have been generated by BIRIS.

These documents are the property of the California Department of Transportation and should be handled in accordance with Deputy Directive 55 and the State Administrative Manual.

Records for “Confidential” bridges may only be released outside the Department of Transportation upon execution of a confidentiality agreement.

DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41	R22.5/R23.8	99	235

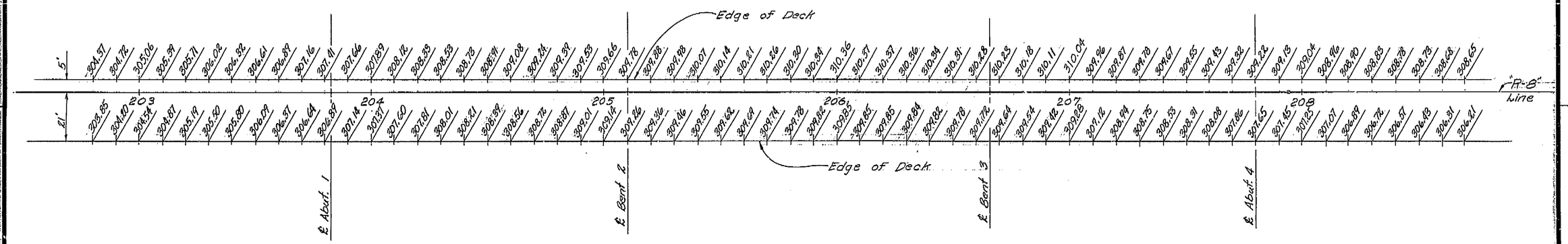
R C Blake
DESIGN SECTION SUPERVISOR — REGISTERED CIVIL ENGINEER NO. 8002
DATE APPROVED May 30, 1972

APPROXIMATE QUANTITIES

TEMPORARY RAILING (TYPE K)	460 LF
RECONSTRUCT METAL RAILING	97 LF
16" CAST-IN-DRILLED-HOLE CONCRETE PILING	1,785 LF
PRESTRESSING CAST-IN-PLACE CONCRETE	LUMP SUM
RIPPED TEXTURE (REINFORCING BAR)	1,000 SQ FT
WATERSTOP	40 LF
STRIP WATERSTOP	48 LF
20" CAST-IN-DRILLED-HOLE CONCRETE PILING	650 LF
8" PERFORATED STEEL PIPE UNDERDRAIN (.064" THICK)	148 LF
CLASS 1 PERMEABLE MATERIAL (BRIDGE)	18 CY
SLOPE PAVING (CONCRETE)	27 CY
METAL RAILING (TYPE 9)	988 LF
8" CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK)	142 LF

FINAL QUANTITIES

STRUCTURE EXCAVATION (BRIDGE)	535 CY
STRUCTURE BACKFILL (BRIDGE)	390 CY
STRUCTURE CONCRETE, BRIDGE FOOTING	170 CY
STRUCTURE CONCRETE, BRIDGE	180 CY
CAST-IN-PLACE PRESTRESSED CONCRETE (GRADE 35-50)	725 CY
BAR REINFORCING STEEL (BRIDGE)	197,000 LB



Scale: 1" = 20'

Note:
Deck elevations are figured @ 10' stations normal from "R-8" line up to station 207 + 94.08 & radially from this station on.
These elevations do not include camber.

"NO AS-BUILT CORRECTIONS"
AS BUILT
CORRECTIONS BY_____
CONTRACT NO._____
DATE_____

PRESTRESSING NOTES

*P_{jack} = 5000 kips total at jacking ends. $A_s = \frac{P_{jack}}{.75\, f'_s}$

Total number of girders = 4

CONCRETE: f'_c = 3500 psi at 28 days; f'_{ci} = 3500 psi at time of stressing

GENERAL: *1. Design is based on u = 0.25 and k = 0.0002. For girders on horizontal curved alignment (k+k') = ____ where k' is a modification factor which considers the effect of such curvature on friction.

P_{jack} specified at the jacking ends includes friction losses and provision for 25,000 psi loss in stress.

2. Tendons to be jacked to 0.75 f'_s and anchored at an equivalent anchor set = 5/8".

3. Contractor to submit elongation and jacking calculations based on $u\alpha c + kl$ = 0.17 or $u\alpha c + (k+k')L$ = ____ and initial stress at [K] = 0.84 times jacking stress.

GENERAL NOTES

DESIGN: A.A.S.H.O. dated 1969 with revisions and as supplemented by BRIDGE PLANNING AND DESIGN MANUAL.

LIVE LOADING: HS20-44 and alternative

REINFORCED CONCRETE: f_s = 24,000 PSI, except
= 20,000 PSI in transverse deck slabs and stirrups

f_c = 1,300 PSI, except
= 1,200 PSI in transverse deck slabs

n = 10

AS BUILT PLANS
Contract No. 06-025614
Date Completed 9-3-74
Document No. 6666555

BRIDGE DEPARTMENT
DESIGN SECTION 15
Project Engineer B. Hansen

DESIGN	By W. J. Aabery	11/71
	Checked E.N. Brunberg	11-71
DETAILS	By M. Abrahamson	
	Checked E.N. Brunberg	11-71
QUANTITIES	By E.N. Brunberg	1-72
	Checked A. Nanem	1/72

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

VAN NESS AVENUE UNDERCROSSING

GRID GRADES

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42 227QR	22.7		2	9

WO
CU

Disregard prints bearing earlier revision dates →

REVISION DATES (PRELIMINARY STAGE ONLY)

99

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 6/24/75 SIGNATURE Dick Meadows TITLE Manpower Supervisor

ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41	R22.5/R23.8	V00	235

R C Blake
DESIGN SECTION SUPERVISOR — REGISTERED CIVIL ENGINEER NO. 8082
DATE APPROVED May 30, 1972

To LEMOORE

CONST ℄ R=4000'

CONST ℄
R = 4000'
Δ = 55°59'07"
T = 2126.18'
L = 3908.51'

EXISTING BRIDGE # 42-227 R

To YOSEMITE

"R-6" N 35°08'52" E

OFF - RAMP RTE 41

"R-8" Line N 26°50'26" E

"C-2" N 44°42'18" E

CONST ℄ RADIAL N 52°54'21" W

VAN NESS LINE N 41°01'02" W

VAN NESS AVE

℄ Encasement "R-8" 204 + 08
Elev. top of encasement 287.30'
Elev top of ducts 285.19'

PTT Underground Cond
12" Water (Abandoned)
6" Sewer (Abandoned)
6" Water (Abandoned)
12" Water (Abandoned)
20" Steel Casing with 12" Water

℄ Abut. 1 N63°09'34"W (Typical)

℄ Utility Encasement 204+08.00

℄ Bent 2

℄ Bent 3

℄ Abut 4

206+66.00

205+10.00 (AC)

207+80.00

203+82.42

Ret. W.L. ℄ N 26°50'26" E

WW L ℄ N 26°50'26" E

R=1000'

R=979'

278.0 | 292.5 | 295.0 | 298.0 | 300.0 | 302.0 | 291.0 | 299.0 | 296.0 | 294.0

PCC Curb | PCC SW | End Wall ± | 24" CMP | 8'-0" CMP | 22'-6" | 66' | 5ft Ltg Pull Box | Pull Box # 22644 | 4'-0" ℄ Gas | 6'-7" ℄ Gas | 1'-5ft Frame | (AC)

"NO AS-BUILT CORRECTIONS"

AS BUILT
CORRECTIONS BY
CONTRACT NO.
DATE

R-8
R = 1000'
Δ = 10°47'26"
T = 94.445'
L = 188.331'

* Slope paving under structure

Note:
For pile spacing and details not shown see "Abutment Details" and "Bent Details" sheets.
⊕ Indicates piles
000.0 Indicates bottom of footing elevation.

No.	Location	℄	Description
1	Van Ness	20 + 36.265	POT=
	Const ℄	1206 + 40.499	POC
2	Van Ness	19 + 10.00	POT=
	R-6	15 + 89.33	End
3	Van Ness	18 + 98.89	POT=
	R-8	206 + 17.71	POT
4	Van Ness	18 + 97.64	POT=
	C-2	5 + 97.33	Begin
5	R-8	207 + 94.08	BC

BM # 2
Fd chiseled "D" top curb
31' Rt "Van Ness" 18~
Elev. 286.058'

BM # 1
Cross cut in top of PCC Ret Wall
104.8' Lt 'Const ℄' 1205~
Elev. 307.435'

SCALE 1" = 20'
LEVEL DATUM: MSL
FOR ALINEMENT TIES SEE PR-42227-22
CONTOURS AS OF 2-70
SITE PLAN TO SUPPLEMENT DISTRICT DATA.
SURVEY BY RDR & DJB DATE 5-68 & 2-70
DRAWN BY EGN & DJB DATE 2-70
TRACED BY JLL DATE 4-7-70

AS BUILT PLANS
Contract No. 06-025614
Date Completed 9-3-74
Document No. 6666555

BRIDGE DEPARTMENT
DESIGN SECTION 15
Project Engineer R.F. Fossum

DESIGN	By	W.J. Aabey 11-71
	Checked	E.N. Brunberg 11-71
DETAILS	By	A. Hakemson
	Checked	E.N. Brunberg 11-71
QUANTITIES	By	E.N. Brunberg 1-72
	Checked	A. Hanson 1-72

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

VAN NESS AVE UC

FOUNDATION PLAN

BRIDGE NO. 42-227 QR | POST MILE 22.7 | DRAWING No. | SHEET 9 | OF 19

REVISION DATES (PRELIMINARY STAGE ONLY)

WO 025611
CU 06202

Disregard prints bearing earlier revision dates →

PR-42227-20

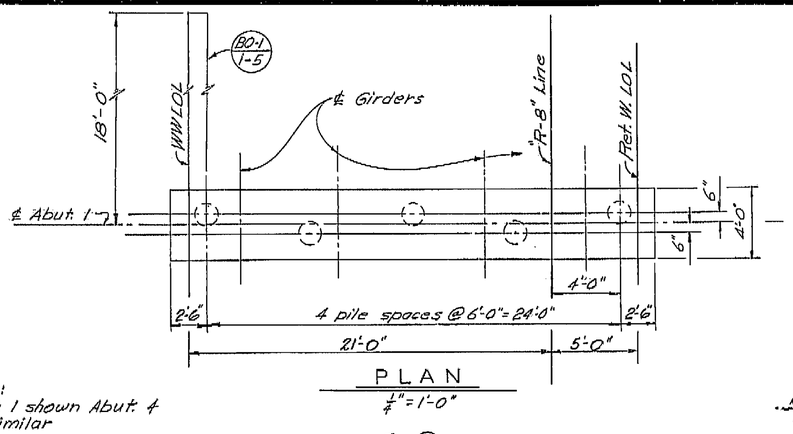
I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 6/24/15 SIGNATURE Rick Meadows TITLE Mapping Supervisor

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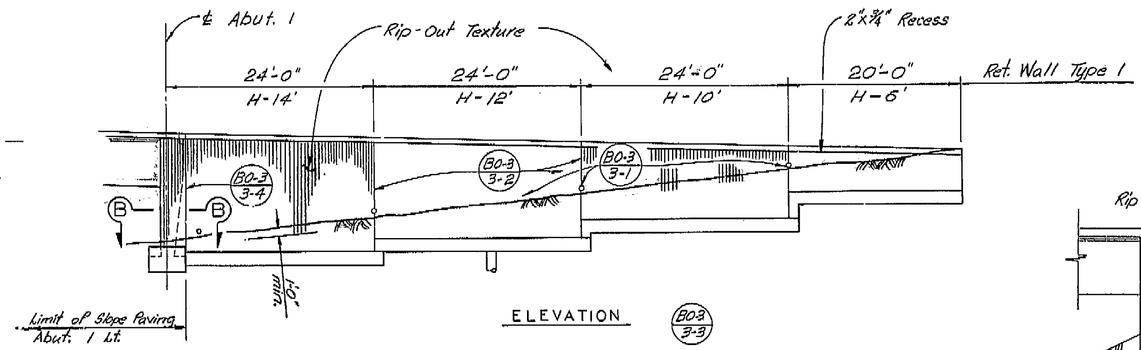
DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41	R22.5/R23.8	101	235

R C Blake
HIGHWAY SECTION SUPERVISOR — REGISTERED CIVIL ENGINEER NO. 10002
DATE APPROVED: May 30, 1972

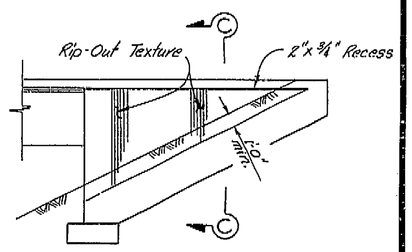


PLAN
1/4" = 1'-0"

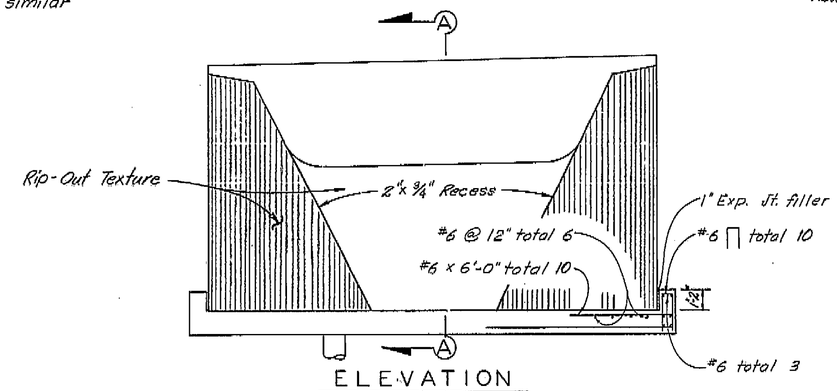
Note:
Abut 1 shown Abut 4 is similar



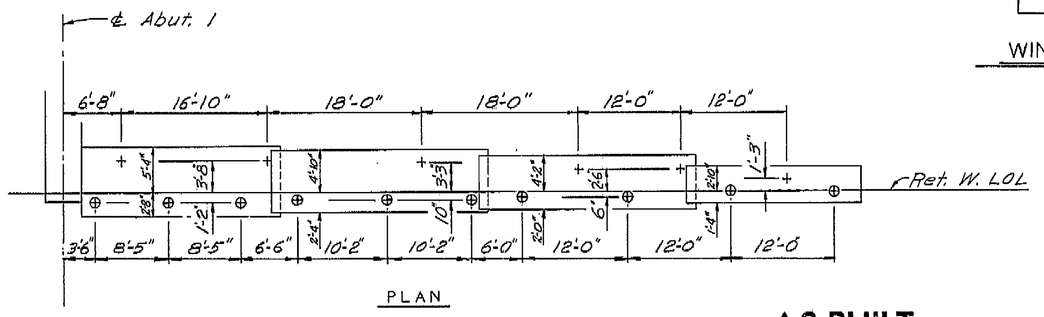
ELEVATION (B0-3 3-3)



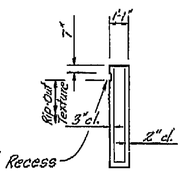
WINGWALL ELEVATION (B0-1 1-5)
No Scale



ELEVATION
1/4" = 1'-0"

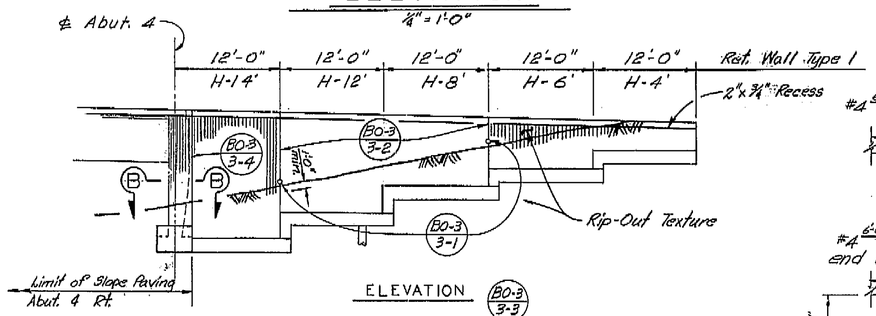


PLAN

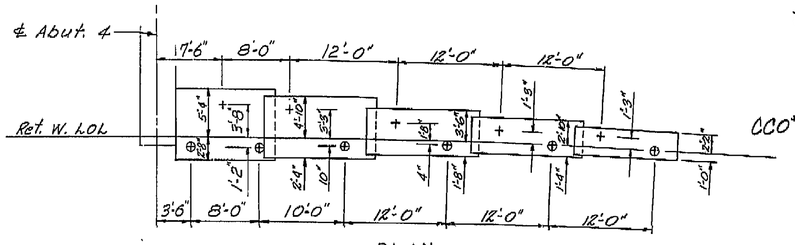


C-C

AS BUILT
CORRECTIONS BY: C. Pearson
CONTRACT NO. 06-025614
DATE 1-15-75 MKH 5-27-75

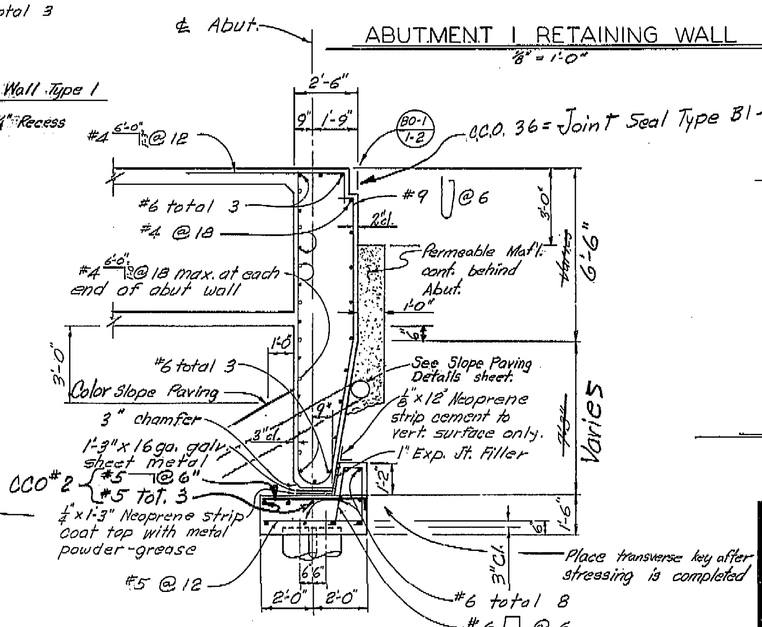


ELEVATION (B0-3 3-3)



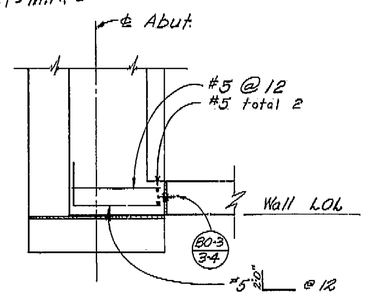
PLAN

ABUTMENT 4 RETAINING WALL
1/8" = 1'-0"



SECTION A-A
3/8" = 1'-0"

ABUTMENT 1 RETAINING WALL
1/8" = 1'-0"



SECTION B-B
No Scale

Note:
Place Wingwalls & Ret. Walls after stressing is completed.
+ — Indicates 16" CIDH Vertical Pile
⊕ — Indicates 20" CIDH Vertical Pile *

Use Same Cage Reinf. For 16" & 20' Diameter CIDH Concrete Pile as shown on (B7-3) except for cage diameter. Increase to 1'-4" on 20'-0"
* — Front Row Only

BRIDGE DEPARTMENT DESIGN SECTION 15		
Project Engineer: R. Strasser		
DESIGN	By: W. J. Aaberg 11-71	Checked: E. N. Brunberg 11-71
DETAILS	By: J. K. Jan Kennon	Checked: E. N. Brunberg 11-71
QUANTITIES	By: E. N. Brunberg 1-72	Checked: A. Hansen 1/72

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

VAN NESS AVENUE UNDERCROSSING

ABUTMENT DETAILS

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-227QR	22.7		4	67

REVISION DATES (PRELIMINARY STAGE ONLY)
3/14

WO
CU

Disregard prints bearing earlier revision dates

101

AS BUILT PLANS
Contract No. 06-025614
Date Completed 9-3-74
Document No. 6666555

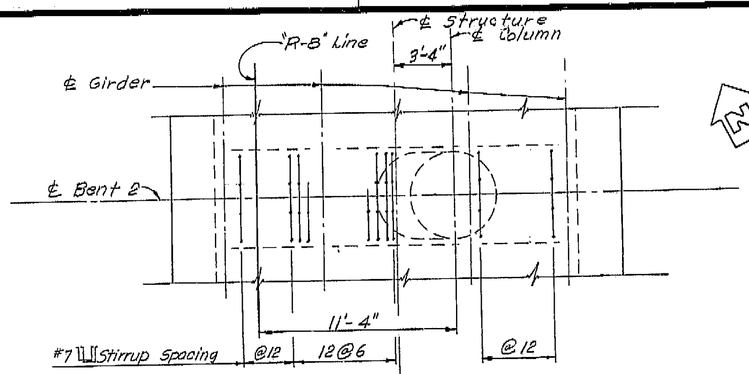
I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.
DATE 6/24/75 SIGNATURE Dick Meadows TITLE Microfilm Supervisor

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DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41	R22.5/R23.8	102	235

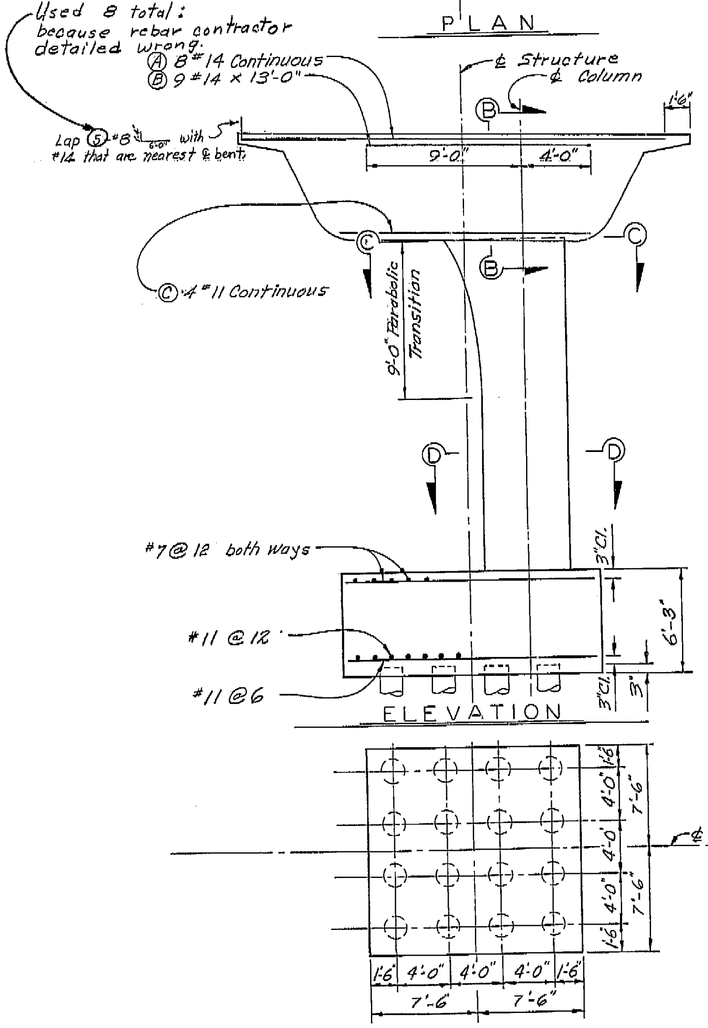
R C Blake
DESIGN SECTION SUPERVISOR — REGISTERED CIVIL ENGINEER NO. 8082
DATE APPROVED May 30, 1972

80-5
5-10

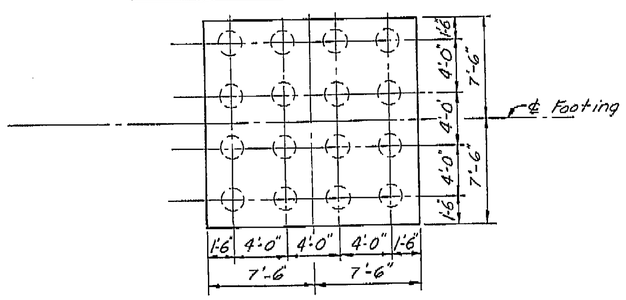


PLAN

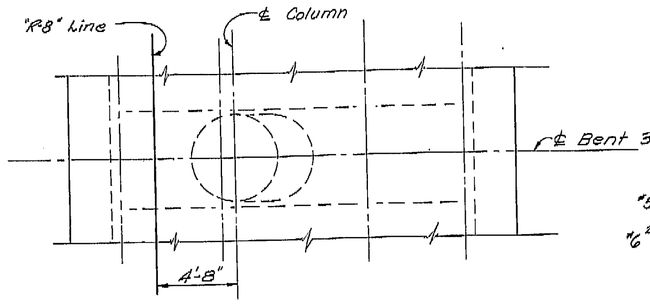
Used 8 total: because rebar contractor detailed wrong.



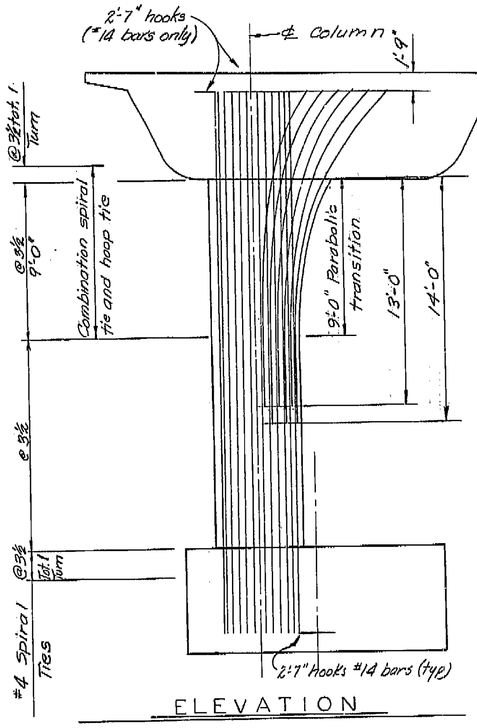
ELEVATION



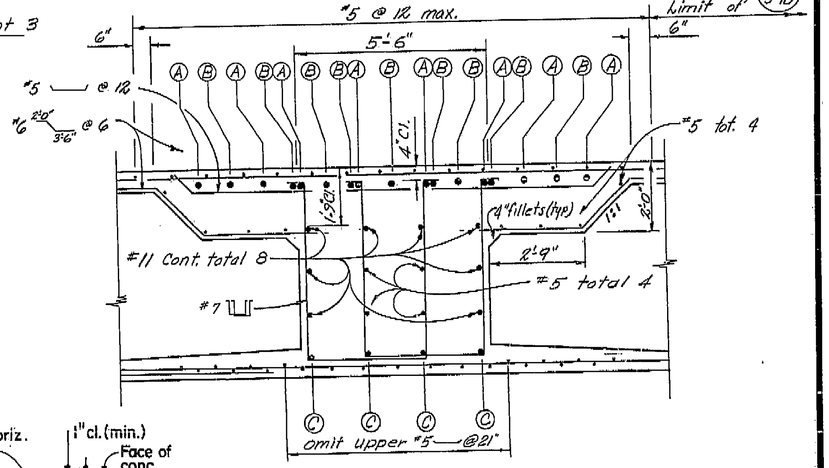
TYPICAL FOOTING PLAN
No Scale



PLAN

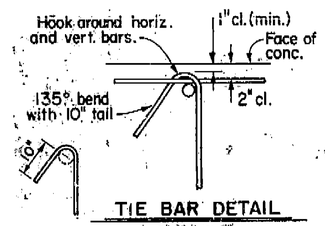


ELEVATION

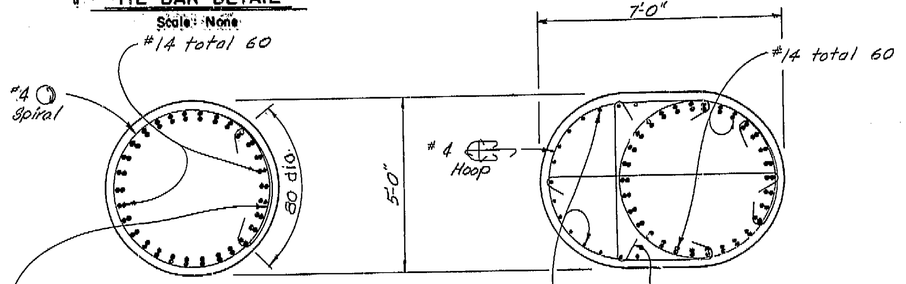


SECTION B-B

WHERE ⊂ STIRRUPS ARE SHOWN, 10" Tail MAY BE USED 24" min.



TIE BAR DETAIL
Scale: None



SECTION D-D

SECTION C-C

Note:
Column Reinf. may be adjusted as necessary to clear prestressing ducts.

Bents 2 and 3 are similar except as noted.

Scale: ¼"=1'-0", Sections ½"=1'-0" or as noted.

AS BUILT
CORRECTIONS BY C. Pearson
CONTRACT NO. 06-025614
DATE 1-15-75 ARM 5-28-75

AS BUILT PLANS
Contract No. 06-025614
Date Completed 9-3-74
Document No. 6006555

BRIDGE DEPARTMENT
DESIGN SECTION 15
Project Engineer B.C. Fraser

DESIGN	By Wm J. Aaberg	11/71
	Checked E.N. Brunberg	11-71
DETAILS	By [illegible]	
	Checked E.N. Brunberg	11-71
QUANTITIES	By E.N. Brunberg	1-72
	Checked A. Hansen	1/72

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

VAN NESS AVENUE UNDERCROSSING

BENT DETAILS

BRIDGE NO. 42-227 OR | POST MILE 22.7 | DRAWING NO. | SHEET 5 OF 9

REVISION DATES (PRELIMINARY STAGE ONLY)

WO
CU

Disregard prints bearing earlier revision dates →

102

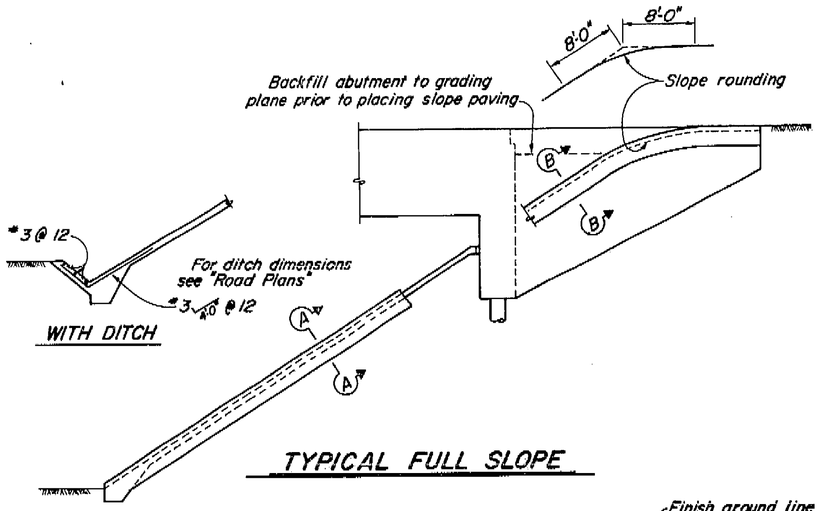
I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.
DATE 6/24/15 SIGNATURE [signature] TITLE Manager Supervisor

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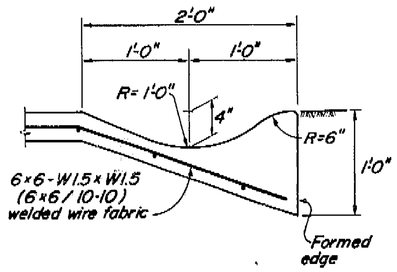
DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	FRE	41	R22.5/R23.8	104	?.35

BRIDGE ENGINEER — REGISTERED CIVIL ENGINEER No. 9580

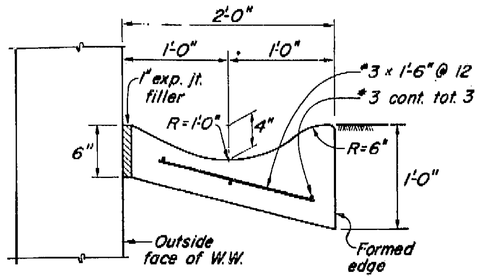
DATE APPROVED May 30, 1972



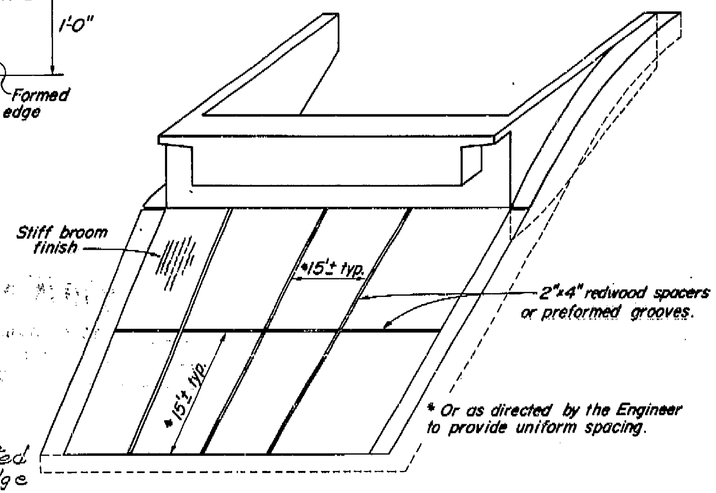
TYPICAL FULL SLOPE



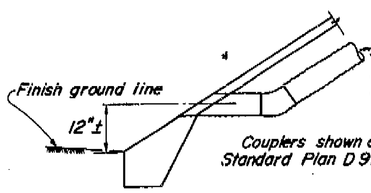
SECTION A-A



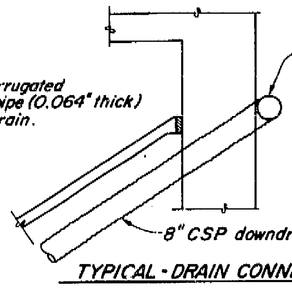
SECTION B-B



PICTORIAL VIEW OF TYPICAL INSTALLATION

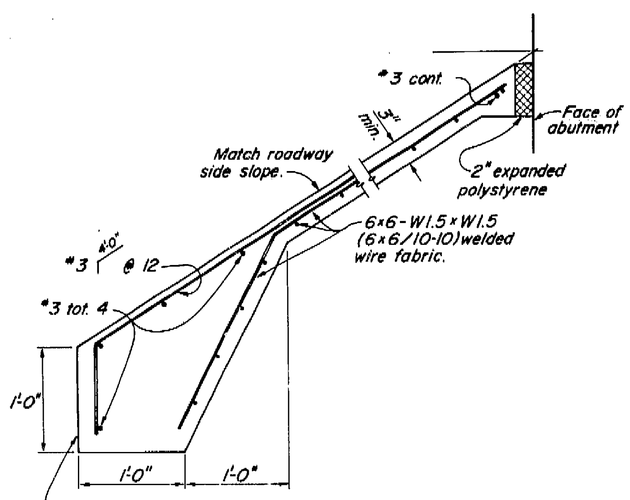


TYPICAL - NO CURB USED

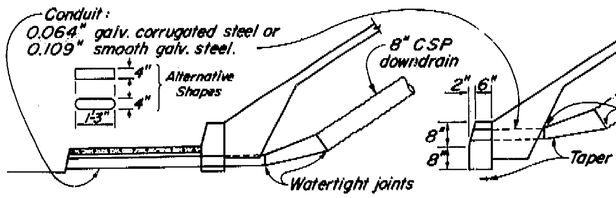


Total of 2: located in 4'-6"± from edge of slope paving.

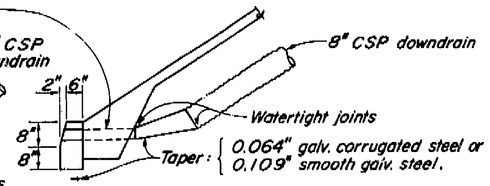
TYPICAL - DRAIN CONNECTION



TYPICAL SECTION



TYPICAL WITH SIDEWALK

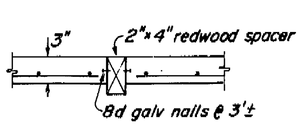


TYPICAL - WITH CURB

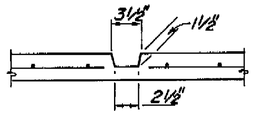
Note: In case of conflict between curb details shown here and those on Road Plans, the Road Plans shall govern.

DRAINAGE DETAILS

AS BUILT
CORRECTIONS BY C. Parsons
CONTRACT NO. 06-025614
DATE 1-15-75 5-28-75



SPACER DETAIL USED



PREFORMED GROOVE

LIMITS OF SLOPE PAVING

AS BUILT PLANS
Contract No. 06-025614
Date Completed 9-3-74
Document No. 6666555

BRIDGE DEPARTMENT DESIGN SECTION 15		8 / 71	STATE OF CALIFORNIA BUSINESS AND TRANSPORTATION AGENCY DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	XS-22-11
Project Engineer R.H. Isaacson		VAN NESS AVENUE UNDERCROSSING		
DESIGN	by Wm J. Aabeg 11/71	SLOPE PAVING DETAILS - FULL SLOPE		
	checked G.N. Brunberg 11-71			
DETAILS	by Dino Tamberet 10-71	BRIDGE NO. 42-227 QR	POST MILE 22.7	DRAWING NO. .7
	checked G.N. Brunberg 11-71			SHEET NO. 9
QUANTITIES	by G.N. Brunberg 1-72			
	checked A. Noson 1/72			

WO
CU

Disregard prints bearing earlier revision dates →

REVISION DATES (PRELIMINARY STAGE ONLY) 11/26/71

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 6/24/75 SIGNATURE Dick Meadows TITLE Drafting Supervisor

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DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41	R 22.5/R23.8	106	235

R C Blanke
DESIGN SECTION SUPERVISOR — REGISTERED CIVIL ENGINEER No. 20052
DATE APPROVED May 20, 1970

106

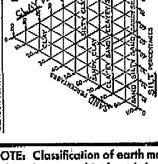
LEGEND OF BORING OPERATIONS

- Penetrometer
- 2½" Cone Penetrometer
- Sampler Boring (Dry)
- Rotary Boring (Wet)
- Auger Boring (Dry)
- Jet Boring
- Cone Boring
- Test Pit
- Penetration Boring
- Auger Boring
- 1" Soil Tube

LEGEND OF EARTH MATERIALS

Gravel; Sand; Silt; Clay; Sandy Clay or Clayey Sand; Silty Clay or Clayey Silt; Peat and/or Organic Matter; Fill Material; Igneous Rock; Sedimentary Rock; Metamorphic Rock; Sandy Silt or Silty Sand

CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS



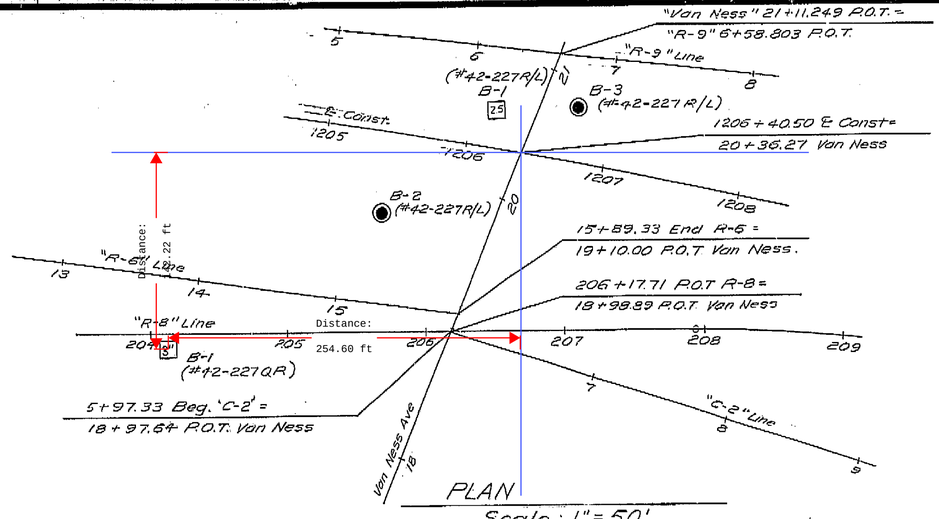
NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

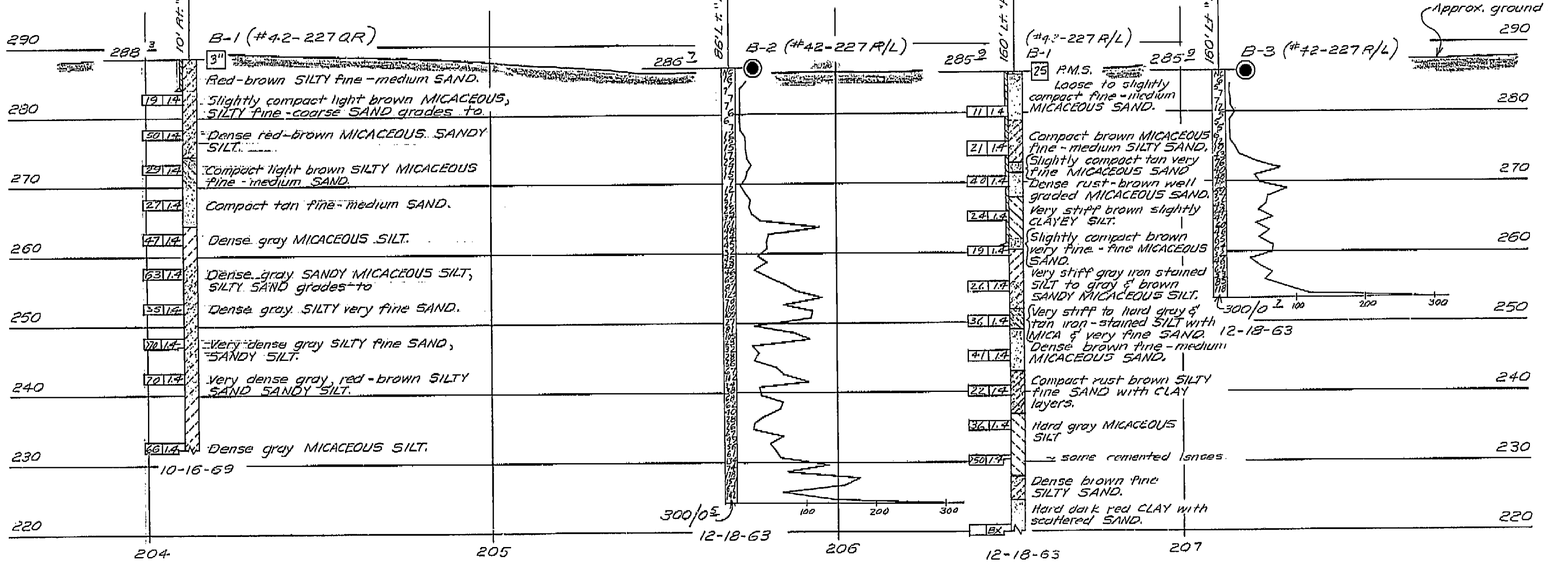
FIELD STUDY	Jul. Blanke 10-69
DRAWN	M.S. Novemire 10-27-69
CHECKED	Jul. Blanke 11-25-69

Approved for Recommended by: J. J. Sposato
Engineering Geologist

BRIDGE DEPARTMENT
ENGINEERING GEOLOGY SECTION

B.M. #2
Chiseled square in curb.
31 Ft. "E Van Ness" 18+00
Elev. 286.058





PROFILE
Scale · Horz. 1" = 20'
Vert. 1" = 10'

NO GROUND WATER ENCOUNTERED DURING THIS INVESTIGATION BY BRIDGE DEPT. GEOLOGY SECTION
DATE Oct 1969

AS BUILT PLANS
Contract No. 06-025614
Date Completed 9-3-74
Document No. 6006555

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

VAN NESS AVENUE UNDERCROSSING

LOG OF TEST BORINGS

BRIDGE NO.	42-227QR	POST MILE	22.7	DRAWING NO.		SHEET	9	OF	9

REVISION DATES (PRELIMINARY STAGE ONLY)

WO 025611
CU 06202

Disregard prints bearing earlier revision dates →

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DATE 6/24/75 SIGNATURE Jack Meadows TITLE Microfilm Supervisor

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DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	RELIEF NO.	TOTAL SHEETS
06	Fre	41	R22.5/R23.8	98	235

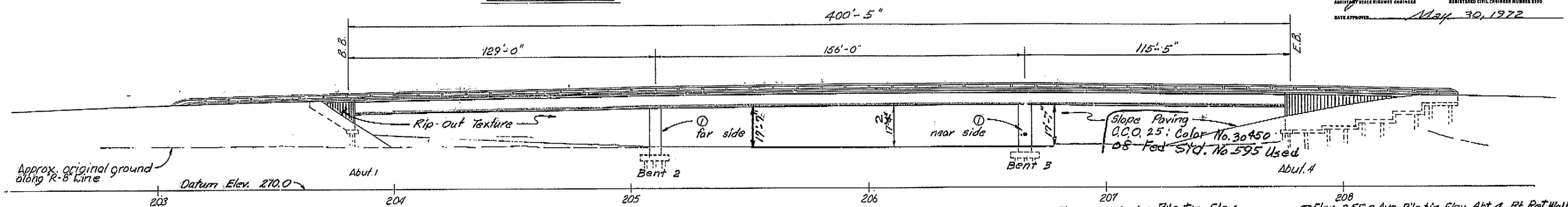
DISTRICT ENGINEER — REGISTERED CIVIL ENGINEER NUMBER 5998

ASSISTANT STATE HIGHWAY ENGINEER — REGISTERED CIVIL ENGINEER NUMBER 5590

DATE APPROVED May 30, 1972

PROFILE GRADE

+4.96 — 201+50.00 B.V.C. — Elev. 298.72 — R/C = -1.0650% per sta. — 600' V.C. — 207+50.00 P.R.V.C. — Elev. 309.31 — -1.43% — 230' V.C. — R/C = 0.8043% per sta. — +0.42% — 209+80.00 E.V.C. — Elev. 308.15



Abt. 1 Lt Ret. Wall Avg Pile Tip ___ Elev. 255.0
Abt. 1 Avg. Pile tip Elev. ___ Elev. 247.4

Bent 2 Avg. Pile Tip Elev = 247.7

Elev. 248.2 Avg. Pile tip Elev. at Bent 3

Elev. 255.0 Avg. Pile tip Elev. Abt. 4 Rt. Ret. Wall
Elev. 247.6 Avg. Pile tip Elev. @ Abt. 4

ELEVATION
1" = 20'

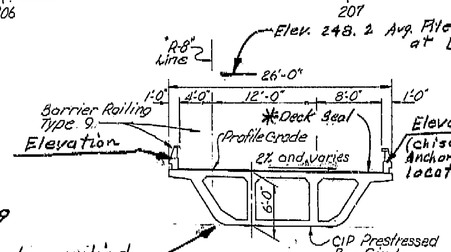
PILE DATA

Abutments & Bents:
USED → CIDH Concrete Piles (16")
Design Loading 70 Ton
Specified Tip Elev. 250.0

Retaining Walls
USED → CIDH Concrete Piles (20") (16")
Design Loading 45 Ton
Specified Tip Elev. 255.0

Point	Elev.	Description
BM₁	285.940	Chiseled "□" on curb, SW side of Van Ness Ave, 210' Right ℄ Const. Sta. 1205+50.
BM₂	308.180	Chiseled "□" on NE corner D.I. at ℄ Const. Station 1207+29

* Deck Seal also applied on the P.C.C. bridge approach slab @ Abt. 1 & 4 ends.



TYPICAL SECTION
1/8" = 1'-0"

INDEX TO PLANS

SHEET NO.	TITLE
1.	GENERAL PLAN
2.	Grid Grades
3.	Foundation Plan
4.	Abutment Details
5.	Bent Details
6.	Typical Section & Girder Layout
7.	Slope Paving Details - Full Slope
8.	Retaining Wall Type 1, H = 4'-30"
9.	Log of Test Borings

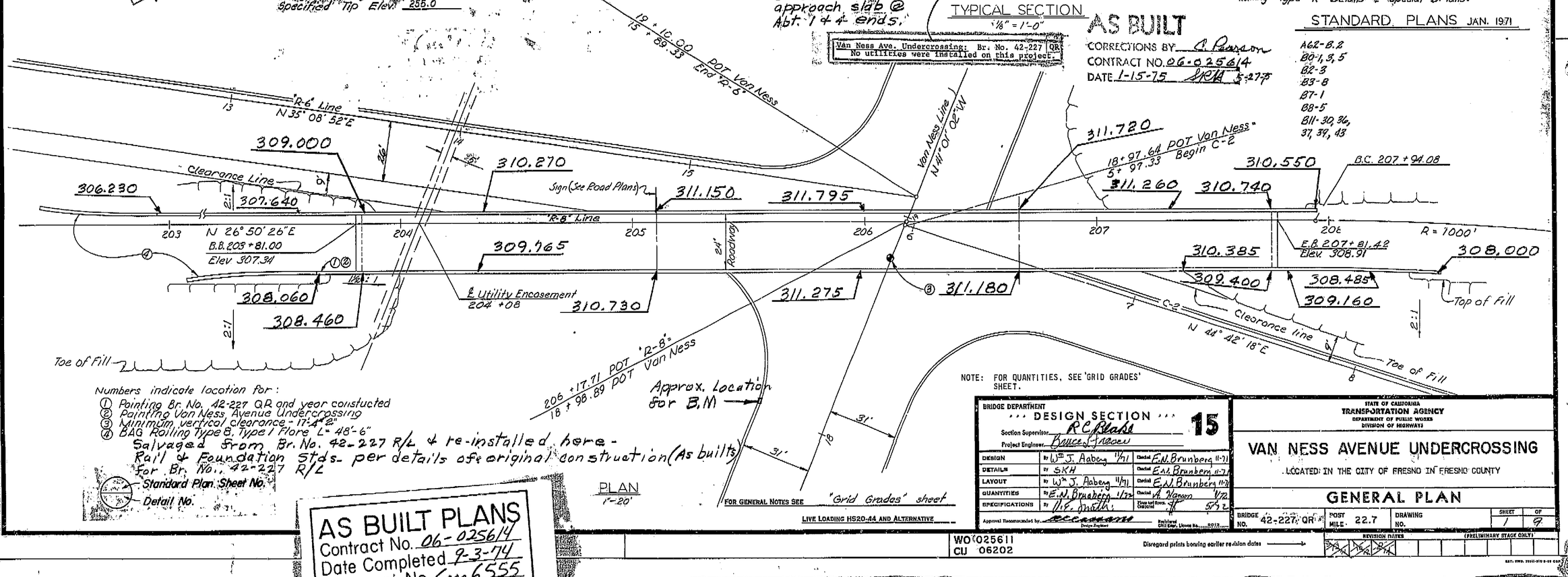
See "Ventura Ave. Viaduct" Br. No. 42-278 for Temporary Railing Type K Details & Special Details.

STANDARD PLANS JAN. 1971

A62-B.2
B0-1, 3, 5
B2-3
B3-8
B7-1
B8-5
B11-30, 36, 37, 39, 43

Van Ness Ave. Undercrossing: Br. No. 42-227 QR
No utilities were installed on this project.

AS BUILT
CORRECTIONS BY C. Pearson
CONTRACT NO. 06-025614
DATE 1-15-75 SRM



Numbers indicate location for:
① Painting Br. No. 42-227 QR and year constructed
② Painting Van Ness Avenue Undercrossing
③ Minimum vertical clearance - 17'-4 1/2"
④ BAG Railing Type B, Type 1 Flare L = 48'-6"
Salvaged from Br. No. 42-227 R/L & re-installed here - Rail & Foundation Stds. per details of original construction (As built)
For Br. No. 42-227 R/L
Standard Plan Sheet No.
Detail No.

PLAN
1" = 20'

FOR GENERAL NOTES SEE "Grid Grades" sheet

LIVE LOADING HS20-44 AND ALTERNATIVE

NOTE: FOR QUANTITIES, SEE 'GRID GRADES' SHEET.

BRIDGE DEPARTMENT
*** DESIGN SECTION *** 15
Section Supervisor R.C. Reads
Project Engineer Bruce J. Haben

DESIGN	By W.m J. Aabeg 11/71	Checked E.N. Brunberg 11-71	
DETAILS	By S.K.H.	Checked E.N. Brunberg 11-71	
LAYOUT	By W.m J. Aabeg 11/71	Checked E.N. Brunberg 11-71	
QUANTITIES	By E.N. Brunberg 1/72	Checked A. Hanson 1/72	
SPECIFICATIONS	By M.F. Smith	Plans and Reports Checked	5-72

Approval Recommended by [signature] Design Engineer — Registered Civil Engr. License No. 5013

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

VAN NESS AVENUE UNDERCROSSING

LOCATED IN THE CITY OF FRESNO IN FRESNO COUNTY

GENERAL PLAN

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-227 QR	22.7		1	9

REVISION DATES (PRELIMINARY STAGE ONLY)

Disregard prints bearing earlier revision dates →

WO 025611
CU 06202

AS BUILT PLANS
Contract No. 06-025614
Date Completed 9-3-74
Document No. 6000 6555

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DATE 6/24/15 SIGNATURE Dick Meadows TITLE Maintenance Supervisor

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Revised 9-24-58 Added Note ◉ JTB

Rev. Location of Key. 9-30-58 JTB

Pile Section Reinf. removed. 10-21-58 JTB

Changed note at top of "Spread Ftg. Sec." JTV 6-21-60

Revisions in table 9-1-60 JTF

Added 1 letter W-3 in lower right hand corner of sheet. 6-7-61 JTF

Removed Keys & added Const. Joint 10-16-61 JTF

Revised Table and Removed note, Note from Spread Ftg Sec. 1-10-62 JTV

Revision: 8-22-62 Added note pertaining to quantities. O. Iannotta

Deleted Dim. line in Spread Footing Section 4-63 JTV.

Changed "5@24 to 4@24 in Table of Reinf. Steel & Column. Changed H=4 thru 6 & 8 thru 12. 1-6-64 JTV

Revised Title Sheet & Co-Ord. Sta. Sheet & Deleted Signature Sheet & Sheet above 6-8-64 JTV

CHANGED 8.5.70 "18.5" to 4000 PSI FOR 4" SLAB & SIDE WALL Eng. 11 SEPT 66 EJJ

CHANGED TITLE 24 NOV 66 EJJ

STANDARD DRAWING

Note:
Bar cut-offs may be varied in increments of 6".

Use Reinforcement for H= 16' 18' 20'

Toe of Slope

Top of Wall.

Top of Footing

Optional Footing Lines

Layout Line

Varies

max. H+6"

16'-6" max.

18'-6" max.

20'-6" max.

1'-2"

1'-4"

9'-0"

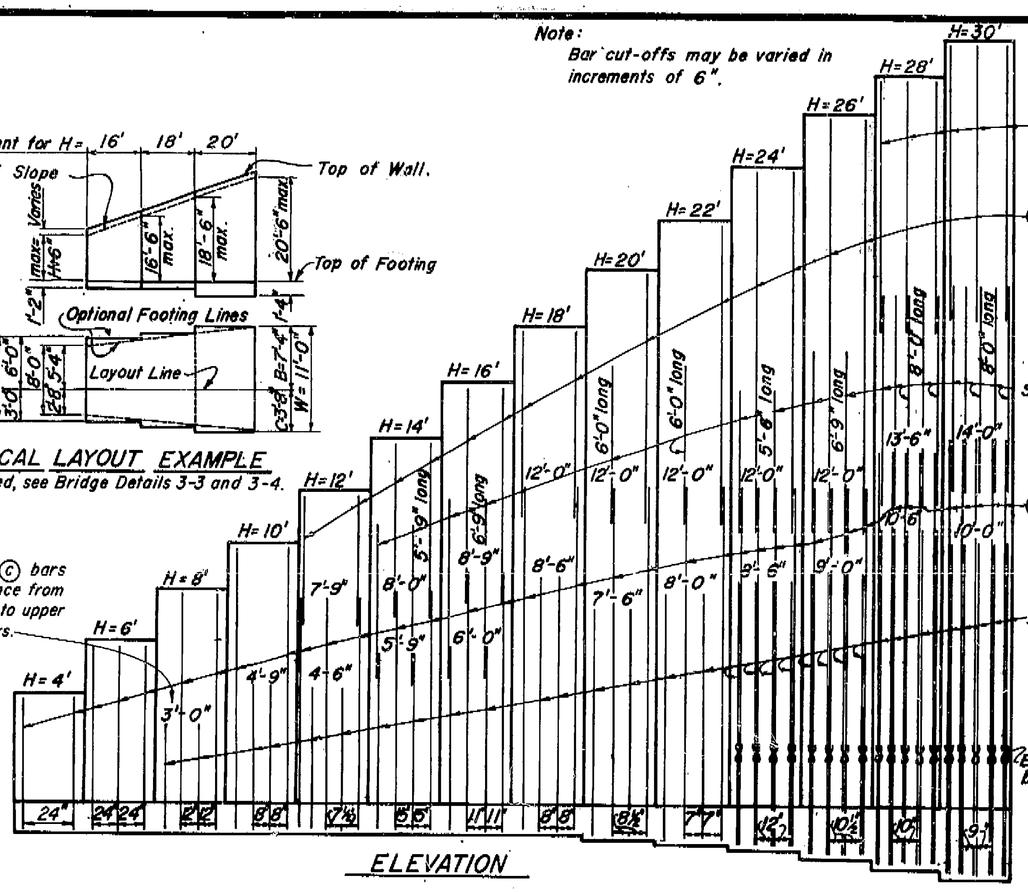
3'-0" 6'-0" 2@5'-4"

3@1'-8" B=7'-4" W=11'-0"

TYPICAL LAYOUT EXAMPLE

For joints required, see Bridge Details 3-3 and 3-4.

Number above (c) bars indicates distance from top of footing to upper end of (c) bars.



ELEVATION

TABLE OF REINFORCING STEEL DIMENSIONS AND DATA

Design H		◉4'	6'	8'	10'	12'	14'	16'	18'	20'	22'	24'	26'	28'	30'
W		3'-2"	4'-2"	5'-2"	6'-2"	7'-2"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-3"	14'-3"	15'-3"	16'-3"
C		1'-0"	1'-4"	1'-8"	2'-0"	2'-4"	2'-8"	3'-0"	3'-4"	3'-8"	4'-0"	4'-5"	4'-9"	5'-1"	5'-5"
B		2'-2"	2'-10"	3'-6"	4'-2"	4'-10"	5'-4"	6'-0"	6'-8"	7'-4"	8'-0"	8'-10"	9'-6"	10'-2"	10'-10"
F Spread Ftg.		1'-2"	1'-2"	1'-2"	1'-2"	1'-2"	1'-2"	1'-2"	1'-2"	1'-4"	1'-6"	1'-8"	1'-11"	2'-2"	2'-4"
Batter		1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	5/8:12	5/8:12	3/4:12	7/8:12
(d) bars														#7 @20	#7 @18
(b) bars						#5@30	#5@15	#5@11	#6@24	#7 @17	#7 @14	#8 @12	#8 @10½	#9 @10	#9 @9
(c) bars		#5@24	#5@24	#5@12	#5@8	#6@7½	#10@15	#10@11	#10@8	#11@8½	#11@7	#11@12	#11@10½	#11@10	#11@9
(d) bars		#5@24	#5@24	#4@12	#4@8	#5@7½	#9@15	#9@11	#9@8	#10@8½	#10@7	#10@12	#10@10½	#9@10	#9@9
Total (e) bars		6-#6	6-#6	6-#6	10-#7	10-#7	10-#7	10-#7	8-#7	8-#7	8-#7	4-#7	4-#7	4-#7	4-#7
Total (f) bars					6-#7	6-#7	6-#7	6-#7	4-#7	4-#7	4-#7	2-#7	2-#7	2-#7	2-#7
2' level surcharge	H Comp k	0.85	1.4	2.2	3.1	4.1	5.2	6.5	8.0	9.7	11.6	13.7	16.0	18.6	21.1
	V Comp k	2.3	3.8	5.6	7.7	10.2	12.6	15.6	19.0	24 9	27.3	32.8	38.1	43.9	50.0
	Toe Pr. k/sf	1.4	1.8	2.2	2.5	2.8	3.1	3.5	3.8	4.1	4.6	4.7	5.3	5.7	6.2
2:1 unlimited slope	H Comp k	0.7	1.4	2.3	3.4	4.8	6.3	8.1	10.2	12.6	15.3	18.4	21.7	25.4	29.1
	V Comp k	2.3	3.9	5.8	8.2	11.0	13.9	17.5	21.5	28.3	31.5	38.0	44.4	51.5	58.9
	Toe Pr.k/sf	1.1	1.5	2.0	2.5	2.9	3.4	3.8	4.3	4.8	5.5	5.9	6.5	7.1	7.8
1½:1 limited slope	H Comp k	1.1	2.0	3.1	4.1	5.4	6.9	8.4	10.0	11.8	13.9	16.2	18.6	21.1	23.4
	V Comp k	2.7	4.5	6.5	8.9	11.7	14.2	17.5	21.0	27.1	29.6	35.2	40.7	46.3	52.3
	Toe Pr.k/sf	1.3	1.9	2.4	2.8	3.5	3.8	4.2	4:6	4.9	5.5	5.8	6.4	6.9	7.5
Spread Footing	Steel lbs/ft.	14	20	28	39	56	84	108	169	206	259	328	393	429	484
	Conc. c.f/ft.	8.9	12.6	16.3	20.2	24.3	29.5	33.8	38.5	45.0	52.1	63.1	73.0	87.6	102.7
Concrete pile ftg.	Steel lbs./ft.	27	31	39	74	92	120	144	198	236	289	348	413	449	504
	Conc. c.f/ft.	10.6	13.3	17.4	21.6	26.2	30.7	35.4	40.5	47.5	54.9	66.4	76.8	91.7	107.3

‖ Denotes a bundle of 2 bars

Layout Line 12½"

2"x3½" Recess

For design limits of surcharge and slope see "Retaining Wall Details No.-1" sheet

Gutter Elev. or Toe of slope intersection

Appropriate details at top of wall are shown elsewhere.

Rip-Out Texture

#4 @ 18

#4 @ 36

Exterior face vertical

Short (b)

Batter Backface

"NO AS-BUILT CORRECTIONS"

AS BUILT
CORRECTIONS BY
CONTRACT NO.
DATE

3" Clear

2" Clear

Short (c)

Construction joint

Design H

Stop (c) H=8 to 22 1'-0" H=24 to 30 2'-6"

(d) Bundle bars — 66 for H=24 to 30

Bundle (c) bars

2" Clear

#4 Tot. 7

3" Clear

Optional Key

35 dia.

(8" for H≤10' 1'-0" for H≥12'

(W/4 for H≤10' W/3 for H≥12'

C B W

SPREAD FOOTING SECTION

Note:
For details not shown and drainage notes see "Retaining Wall Details No. 1".

Quantities apply to Design H portion and exclude the added portion above "Gutter Elevation."

* — See "Abutment Details" sheet for additional Rip-Out Texture details.

PILE EMBEDMENT IN FOOTING

Pile Type	Embedment
Concrete	3"
Steel	5"
Timber	6"

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	Sheet No.	Total Sheets
06	FRE	41	R22.5/R23.8	105	235

BRIDGE ENGINEER — REGISTERED CIVIL ENGINEER — LICENSE 5580

May 30, 1972

10 bars 8 bars 6 bars

5 bars 4 bars 2 bars

8"

Const. Joint

(f) @ 8 (e) @ 8

#4 @ 18

#4 @ 18± lap with (d) bars

* C.f.cl.

C B W

F+3" F+6"

Steel or Concrete Piles Timber Piles

PILE FOOTING SECTION
H= 4 Thru H= 22

#4 @ 18± lap with (d) bars

Const Jt.

8"

#4

(f)

(e)

#4 @ 18

* 6" cl.

C B W

F+3" F+6"

Steel or Concrete Piles Timber Piles

PILE FOOTING SECTION
H= 24 Thru H=30

Note:
This sheet supersedes Sheet No. B3-1, page 79 of the Standard Plans dated Jan. 1971 for this project only. Spread Footing Section & Table revised.

Note:
Reinforcement detailed is to be placed in addition to that shown for spread footing. All piles not shown, see Pile Layout on other sheets.

* Except 9" where timber piles are used.

◉ For pile footing Design H=4' use same footing dimensions as Design H=6'

3/72 — STATE OF CALIFORNIA BUSINESS AND TRANSPORTATION AGENCY DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS — XS-3-46

VAN NESS AVENUE UNDERCROSSING
SPECIAL DETAILS

RETAINING WALL TYPE 1 H=4'-30'

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-227 OR	22.7		8	9

W.O.

REVISION DATES

Disregard prints bearing earlier revision dates →

1 11/68 Note added.

AS BUILT PLANS
Contract No. 06-025614
Date Completed 9-3-74
Document No. 6aaa6555

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 6/24/75 SIGNATURE Derek Maclaw TITLE Maintenance Supervisor

DAS-33/70

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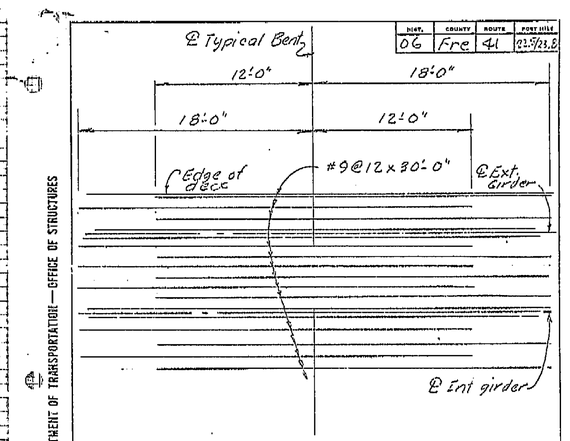
DIST	COUNTY	ROUTE	POST MILES	SHEET NO.	TOTAL SHEETS
06	Fre	41	R22.5/R23.8	183S	235

CROSS SECTIONS

SCALE: 1 INCH = 5 FEET

CROSS SECTIONS

SCALE: 1 INCH = 2 FEET



DIST.	COUNTY	ROUTE	POST MILE
06	Fre	41	R22.5/R23.8

STATE OF CALIFORNIA—DEPARTMENT OF TRANSPORTATION—OFFICE OF STRUCTURE

06-FRE-41 R22.5/R23.8 U 034-2(6)
06-025614 IN FRESNO FROM
BROADWAY TO DIVISADERO ST

DESIGNED BY A.C. FRASER 11-5-73	DESIGN 15 GROUP	VAN NESS AVE UNDERCROSSING	
DRAWN BY [illegible] 11-73		(C.C.O. 45) Sheet 2 of 4	
CHECKED BY R.J.D. 11-73		BRIDGE NO. 42 0279	CU 06501 WO 025614
APPROVED DATE		SCALE: none	

HDD 0 (31) (REV. 10-73)

AS BUILT

Corrections by L. K. Barron, R.E.

Date 1-23-75

AS BUILT PLANS
Contract No. 06-025614
Date Completed 9-3-74
Document No. 6000 6555

VAN NESS AVENUE UNDERCROSSING

TYPICAL SECTION & GIRDER LAYOUT

SUPPLEMENTAL SHEET

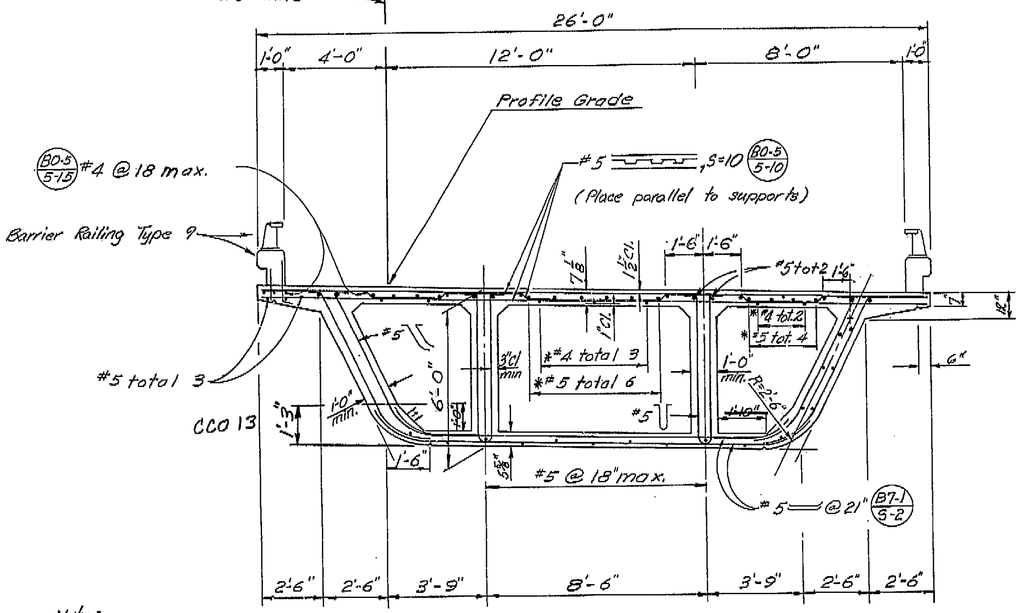
I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 6/24/15 SIGNATURE Rick Macabee TITLE Mapping Supervisor

ClibPDF - www.fastio.com

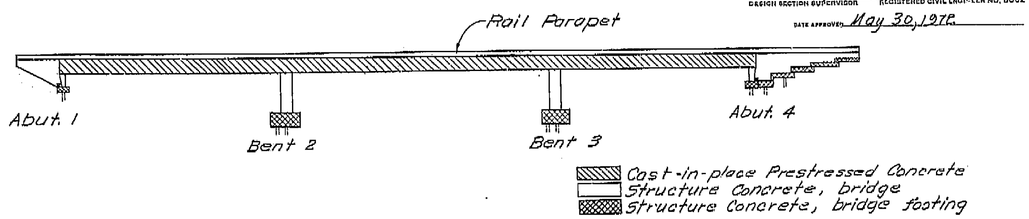
DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	41	R22.5/R23.8	103	235

R C Blake
BRIDGE SECTION SUPERVISOR — REGISTERED CIVIL ENGINEER NO. 9082
DATE APPROVED: May 30, 1972

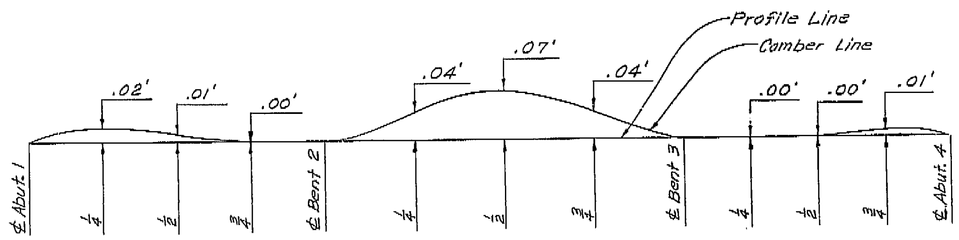


Note:
* Stop at face of support
Details shown are typical unless noted otherwise.

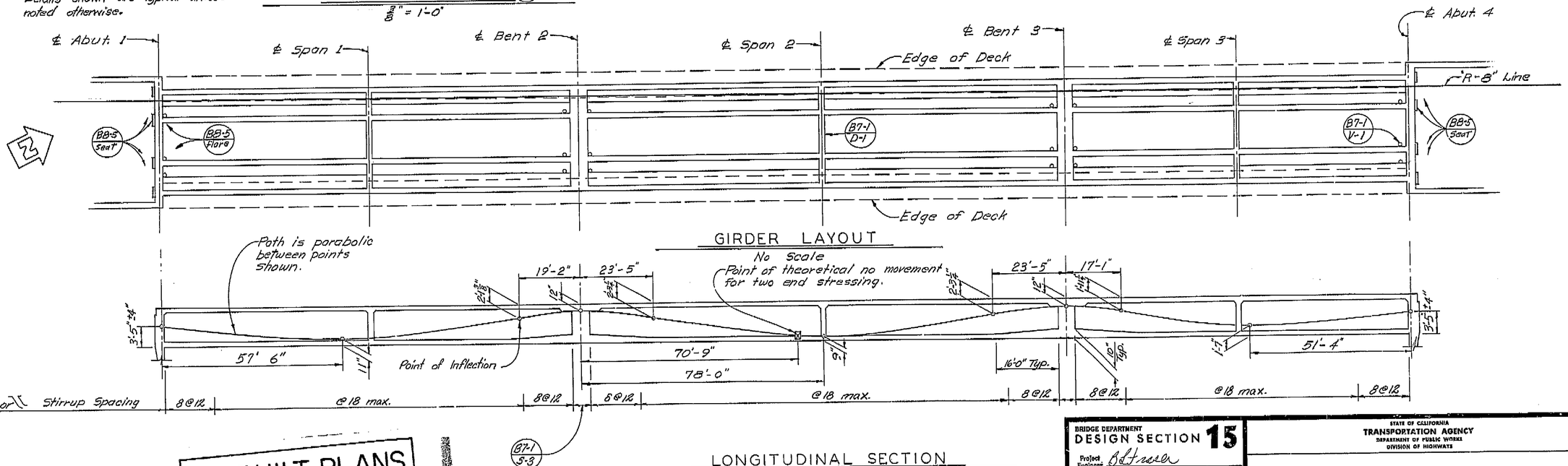
TYPICAL SECTION B7-1 B-1
3/8" = 1'-0"



PAY LIMITS OF CONCRETE



CAMBER DIAGRAM
(does not include allowance for falsework settlement)



LONGITUDINAL SECTION
No Scale

AS BUILT PLANS
Contract No. 06-025614
Date Completed 9-3-74
Document No. 6006555

AS BUILT
CORRECTIONS BY C. Pearson
CONTRACT NO. 06-025614
DATE 1-15-75 510H 5/2876

BRIDGE DEPARTMENT DESIGN SECTION 15		
Project Engineer B Fraser		
DESIGN	By W. J. Aabey	11/71
	Checked E.N. Brunberg	11-71
DETAILS	By	
	Checked E.N. Brunberg	11-71
QUANTITIES	By E.N. Brunberg	1-72
	Checked A. Nasen	1/72

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

VAN NESS AVENUE UNDERCROSSING

TYPICAL SECTION & GIRDER LAYOUT

BRIDGE NO. 42-227QR | POST MILE 22.7 | DRAWING NO. | SHEET 5 OF 9

WO
CU

Disregard prints bearing earlier revision dates →

REVISION DATES (PRELIMINARY STAGE ONLY)

103

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.
DATE 6/24/75 SIGNATURE Nick Meadows TITLE Mapping Supervisor

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California Department of Transportation
Division of Maintenance

Structure Maintenance and Investigations

BRIDGE

INSPECTION

RECORDS

INFORMATION

SYSTEM

The requested documents have been generated by BIRIS.

These documents are the property of the California Department of Transportation and should be handled in accordance with Deputy Directive 55 and the State Administrative Manual.

Records for “Confidential” bridges may only be released outside the Department of Transportation upon execution of a confidentiality agreement.

FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	41	8I9/R22I	68	161

BRIDGE ENGINEER CIVIL ENGINEER—LICENSE 5585

DATE APPROVED October 5, 1964

1. General Plan
2. Index to Plans
3. Structure Plan 1
4. " " 2
5. " " 3
6. Falsework Opening Layout
7. 10' Grid of Deck Elevations 1
8. " " " " " 2
9. " " " " " 3
10. " " " " " 4
11. Camber Diagram
12. Foundation Plan 1
13. " " 2
14. " " 3
15. Abutment 1
16. Closure Wall Details
17. Bent 2
18. Bent Columns 1
19. " " 2
20. Abutment 19 Details 1
21. " " " 2
22. Retaining Wall 1
23. " " 2 (1 of 3)
24. " " " (2 of 3)
25. " " " (3 of 3)
26. " " 3
27. Type 1 Retaining Wall (H= 4'-30')
28. Retaining Wall Details No. 1
29. Typical Section - Concrete Girders
30. Girder Layout Details
31. Girder Layout 1 (Lt. Br.)
32. " " 2 " "
33. " " 3 " "
34. " " 4 " "
35. " " 5 " "
36. " " 6 " "
37. " " 1 (Rt. Br.)
38. " " 2 " "
39. " " 3 " "
40. " " 4 " "
41. " " 5 " "
42. " " 6 " "
43. " " 7 " "
44. Box Girder Details No. 1
45. Standard Details No. 2 (Box Girder)
46. Hinge Details No. 1
47. " " " 2
48. Type D-2 Drain & Details
49. Bent Cap Reinforcement (Lt. Br.)
50. Bent 17 (Lt. Br.)
51. Bent Cap Reinforcement (Rt. Br.)
52. Bottom Girder Reinf. 1 (Lt. Br.)
53. " " " 2 " "
54. " " " 3 " "
55. " " " 4 " "
56. " " " 5 " "
57. " " " 6 " "
58. " " " 1 (Rt. Br.)
59. " " " 2 " "
60. " " " 3 " "
61. Bottom Girder Reinf. 4 (Rt. Br.)
62. " " " 5 " "
63. " " " 6 " "
64. Top Girder Reinf. 1 (Lt. Br.)
65. " " " 2 " "
66. " " " 3 " "
67. " " " 4 " "
68. " " " 5 " "
69. " " " 6 " "
70. " " " 1 (Rt. Br.)
71. " " " 2 " "
72. " " " 3 " "
73. " " " 4 " "
74. " " " 5 " "
75. " " " 6 " "
76. Typical Sections - Steel Girders
77. Steel Girder Layout
78. Steel Girder Details 1
79. " " " 2
80. " " " 3
81. Standard Details (Steel Girders)
82. Barrier Railing Sheet 1
83. " " " 2
84. Log of Test Borings 1
85. " " " " 2
86. " " " " 3
87. " " " " 4

APPROXIMATE QUANTITIES

	BRIDGE	WALL #1	WALL #2	WALL #3
*STRUCTURE EXCAVATION (BR)	900 CY	710 CY	420 CY	35 CY
*STRUCTURE BACKFILL (BR)	1,320 CY	1,560 CY	1,935 CY	210 CY
*PERVIOUS BACKFILL MATERIAL	200 CY	100 CY	150 CY	2 CY
6" ASBESTOS CEMENT SEWER PIPE			6 LF	
16" CIDH CONCRETE PILING	3,550 LF		4,170 LF	415 LF
5' CIDH CONCRETE PILING	2,880 LF			
PRESTRESSING CIP CONCRETE	LUMP SUM			
*CLASS A CONCRETE (BR)	18,700 CY	565 CY	710 CY	75 CY
CLASS B CONCRETE	2 CY	18 CY		
CLOSURE WALLS	820 SF			
WATERSTOPS	1,010 LF	55 LF	88 LF	
JOINT SEALER	910 LF			
*BAR REINFORCING STEEL (BR)	5,800,000 LB	48,000 LB	105,000 LB	13,000 LB
*STRUCTURAL STEEL	1,130,000 LB			
BRIDGE DECK DRAINAGE SYSTEM	LUMP SUM		LUMP SUM	
MISC METAL (BR)	32,600 LB			
CLEAN & PAINT STRUCTURAL STEEL	LUMP SUM			
CONTRAST TREATMENT	7,450 SY			
BARRIER RAILING (TYPE 1)	8,470 LF		315 LF	46 LF
METAL SAFTY RAILING	38 LF			

*FINAL QUANTITIES

General Notes

DESIGN: A.A.S.H.O. dated 1961 with revisions and as supplemented by Bridge Planning and Design Manual

LIVE LOADING: H 20-S16-44 and Alternative

REINFORCED CONCRETE: f_s = 20,000 p.s.i., n = 10
f'_c = 1,200 p.s.i.

STRUCTURAL STEEL: f_s = 20,000 p.s.i.

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 2-11-66, AS SUBMITTED BY RESIDENT ENGINEER J. Nagel.
PLANS CORRECTED BY RES DATE 2-6-66

SHEET	OF
2	87

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor R C Blake

DESIGN	By —	
	Checked RCB	
DETAILS	By D.A. Banks	
	Checked —	
QUANTITIES	By —	
	Checked —	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

INDEX TO PLANS

SCALE None | BRIDGE 42-226 R/L | FILE | DRAWING 42226.-78

PRELIMINARY DRAWING No. D | REVISION DATES

Disregard prints bearing earlier revision dates

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-77 SIGNATURE Thomas E. Coutt TITLE Sr. AMC

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"=50' SCALE 1"=20' SCALE 1"=10' or 1"=100' SCALE 1"=40'

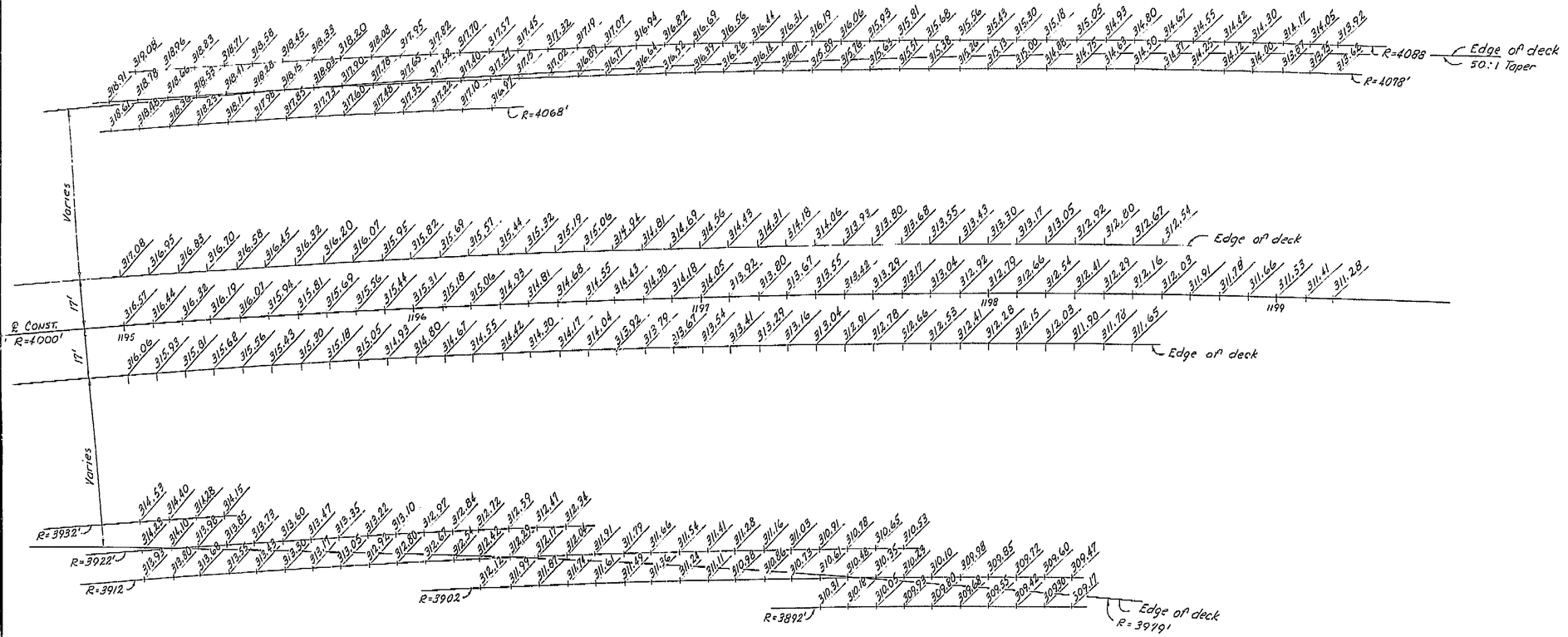
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FED. ROAD DIV. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
IV	FRE	41	21.9/23.1	76	161

BRIDGE ENGINEER — CIVIL ENGINEER—LICENSE 5085

DATE APPROVED October 5, 1964



THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4-22-66, AS SUBMITTED BY RESIDENT ENGINEER L. Wood
TRACINGS CORRECTED BY AS DATE: 7/6/66

NOTE:
Elevations are calculated radially from profile line at 10' stations along ℄ Const.

These elevations do not include camber.

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

SHEET	OF
10	87

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor O.C. Blake

DESIGN	By	Marion A. Banks	7-63
	Checked	HAFSTAD	1-64
DETAILS	By	MIZUTANI	8-63
	Checked	[illegible]	1-64
QUANTITIES	By		
	Checked		

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

10' GRID OF DECK ELEVATIONS 4.

SCALE 1"=20' | BRIDGE 42-226 R/L | FILE | DRAWING 42226-73

Disregard prints bearing earlier revision dates →

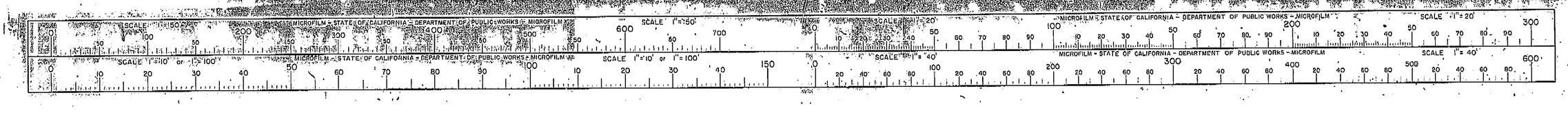
PRELIMINARY DRAWING NO.	REVISION DATES
P-	4/64 MAR 1 R

76

59

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DATE 2-14-72 SIGNATURE [signature] TITLE SR RMO



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FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	FRE.	41	21.9/23.7	75	161

DATE APPROVED October 3, 1969

68' Lt. ℄ Const.
1190+94.729 POC
Begin Taper

Edge of deck
R=4078'
Taper 50:1
R=4068
Varies
℄ Const
R=4000'
R=3932
R=3922'
Edge of deck
R=3979
68' Rt. ℄ Const.
1193+96.835 POC

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4-29-66, AS SUBMITTED BY RESIDENT ENGINEER T. Nagai
THE PLANS CORRECTED BY R.S. DATED 7/6/66

Note!
Elevations are calculated radially from profile line at 10' stations along ℄ Const.
These elevations do not include camber..

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

75

SHEET	OF
9	87

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor R.C. Blake

DESIGN	By Vernon A. Bandy	7-63
	Checked HAFSTAD	1-64
DETAILS	By MIZUTANI	8-63
	Checked [illegible]	1-64
QUANTITIES	By —	
	Checked —	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

10' GRID OF DECK ELEVATIONS 3

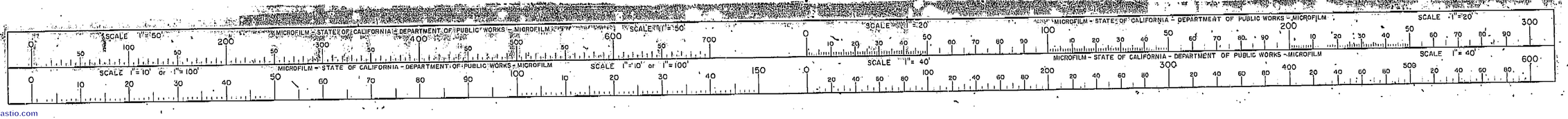
SCALE 1"-20' | BRIDGE 42-226 R/L | FILE | DRAWING 42226-72

PRELIMINARY DRAWING No. P- | REVISION DATES: 7-1-65 MAR 16

Disregard prints bearing earlier revision dates →

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DATE 2-14-72 SIGNATURE [signature] TITLE Sr. RMC



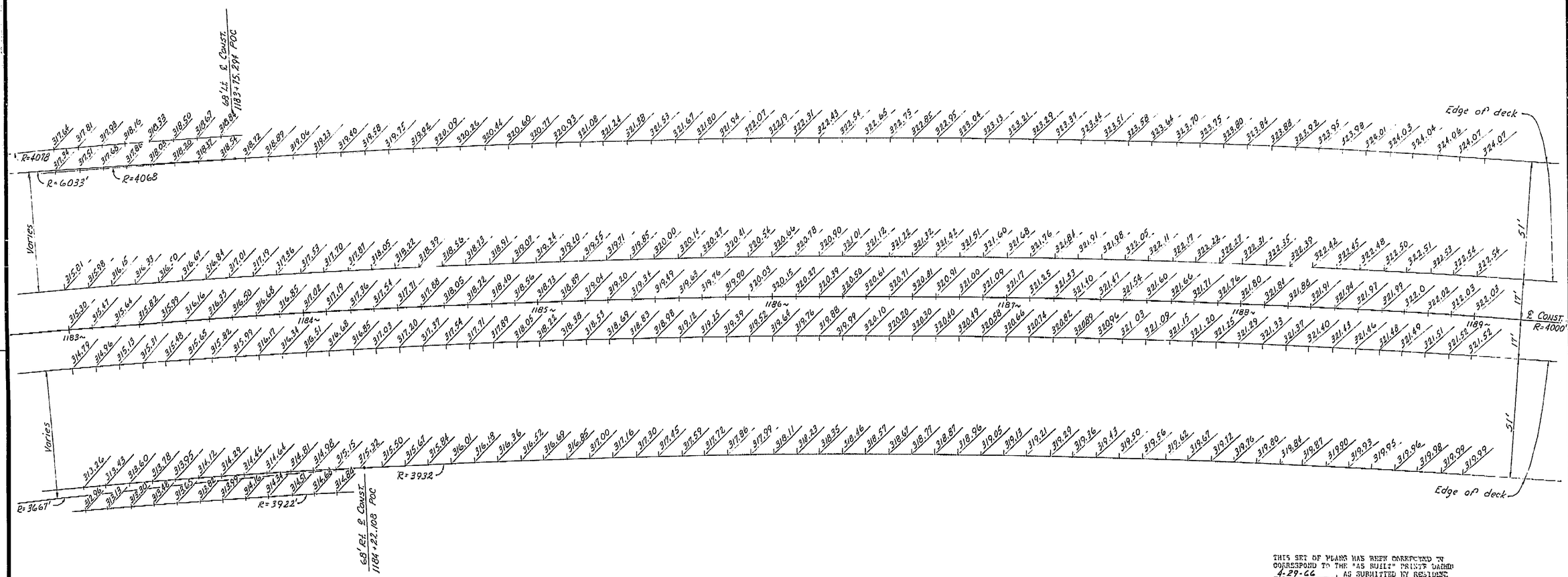
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FED. ROAD DIV. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	~~41~~	21J/22J	74	161

BRIDGE ENGINEER — CIVIL ENGINEER — LICENSE 5283

DATE APPROVED October 5, 1964



THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4-29-66, AS SUBMITTED BY RESIDENT ENGINEER L. Nagal
TRACINGS CORRECTED BY: A.S. DATE 7/26/66

NOTE:
Elevations are calculated radially from profile line at 10' stations along ℄ Const.

These elevations do not include camber.

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

SHEET	OF
8	27

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor R C Blake

DESIGN	By Vernon A. Bartlett	7-63
	Checked HAF & TAD	2-64
DETAILS	By MIZUHARI	8-63
	Checked GF	1-64
QUANTITIES	By	
	Checked	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

10' GRID OF DECK ELEVATIONS 2

SCALE 1" = 20" | BRIDGE 42-226 R/L | FILE | DRAWING 42226-71

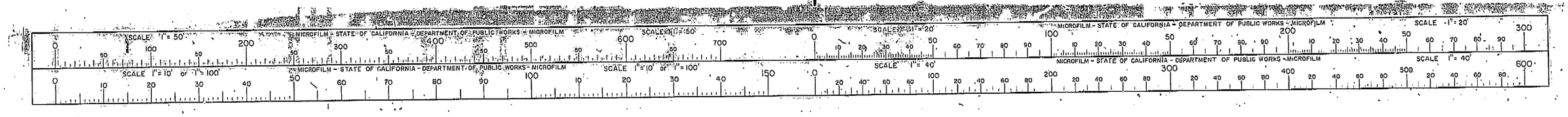
PRELIMINARY DRAWING No. P- | REVISION DATES: 7/64 MAR 18

Disregard prints bearing earlier revision dates →

74

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-72 SIGNATURE James E. Coutts TITLE SR RMC



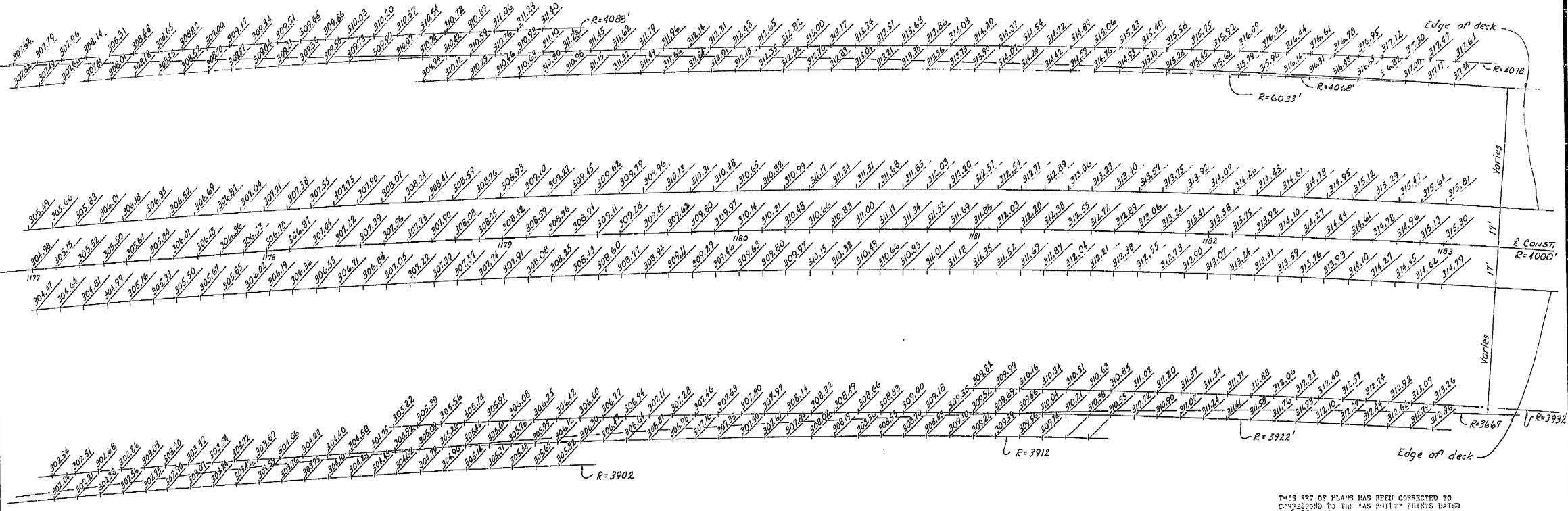
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FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	41	21.9/22.7	73	161

BRIDGE ENGINEER — CIVIL ENGINEER — LICENSE 5585

DATE APPROVED October 5, 1964



THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4-29-66, AS SUBMITTED BY RESIDENT ENGINEER J. Nogal
PLANS CORRECTED BY A.S. DATE 7/6/66

Note:
Elevations are calculated radially from profile line at 10' stations along ℄ Const.
These elevations do not include camber.

AS BUILT PLANS
Contract No. 14-0J4234
Date Completed
Document No. 60001078

SHEET	OF
7	87

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor RC Blake

DESIGN	By	Verum A. Banks 7-25
	Checked	HA, FAD 1-64
DETAILS	By	MIZUTANI 8-63
	Checked	BH 1-64
QUANTITIES	By	
	Checked	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

10' GRID OF DECK ELEVATIONS 1

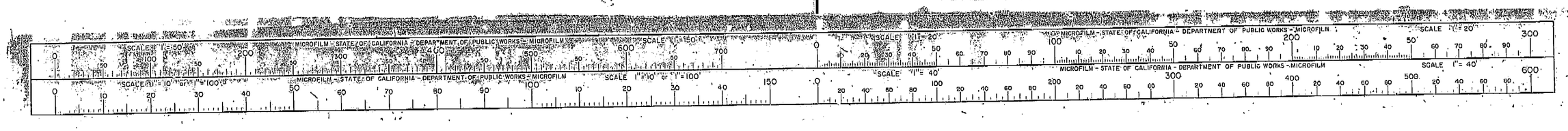
SCALE 1" = 20' | BRIDGE 42-226 R/L | FILE | DRAWING 42226-70

Disregard prints bearing earlier revision dates →

PRELIMINARY DRAWING No.	REVISION DATES
P-	12/64 NR 10

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-72 SIGNATURE Thomas E. Cook TITLE SR RMO



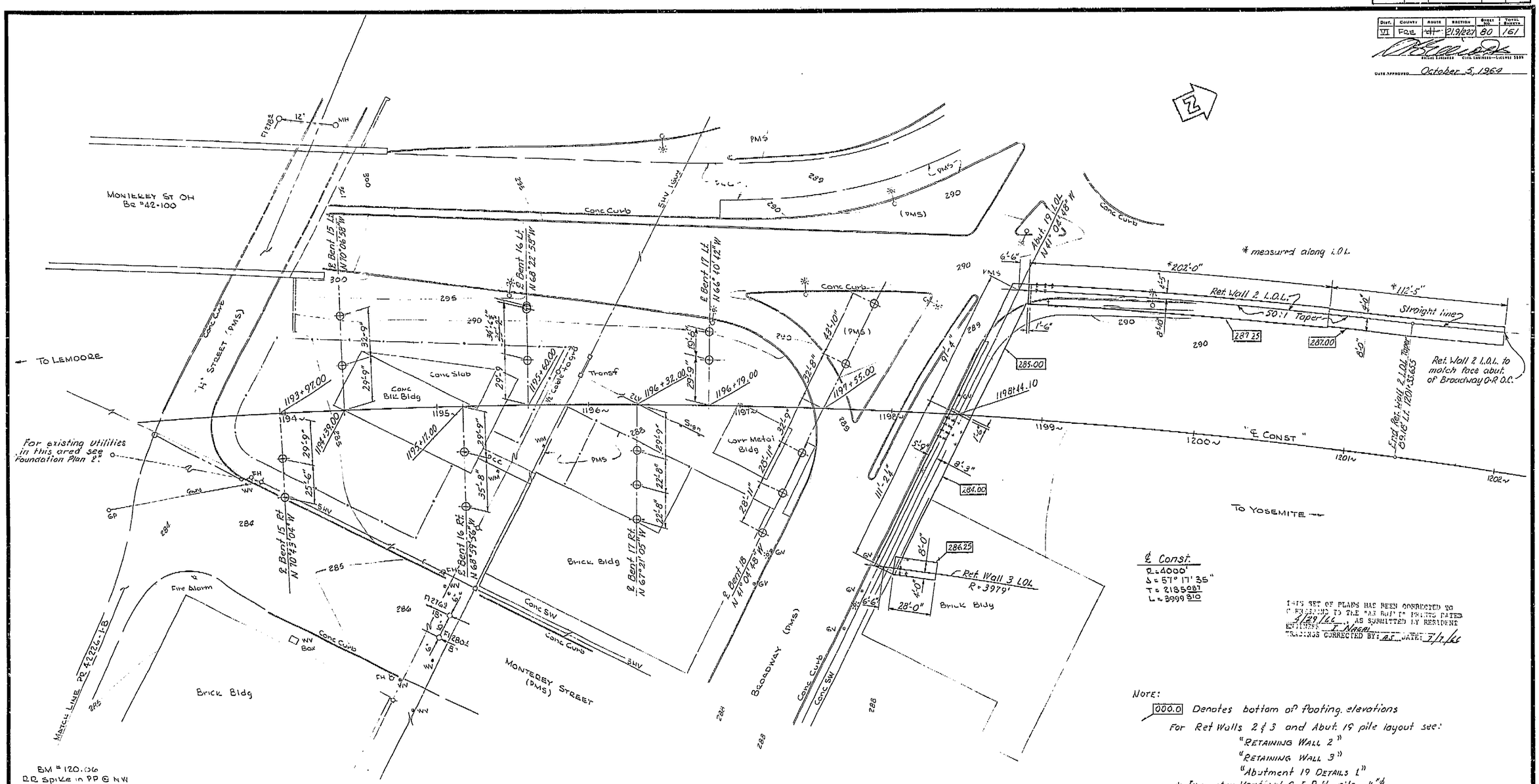
ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.			

Dist.	County	Route	Section	Sheet No.	Total Sheets
VI	Fre.	~~41~~	2.9/22.7	80	161

ROAD ENGINEER CIVIL ENGINEER—LICENSE 5886

DATE APPROVED October 5, 1964



BM = 120.036
B.B. spike in PP @ N.W. cor Fulton & Monterey
St. 34+12.4 Sta 1200+60
EL 2.30 088

Note:

000.0 Denotes bottom of footing elevations

For Ret Walls 2 & 3 and Abut 19 pile layout see:
"Retaining Wall 2"
"Retaining Wall 3"
"Abutment 19 Details 1"

+ Indicates Vertical C.I.D.H. pile 16"ϕ
† Indicates 1:3 battered C.I.D.H. pile 16"ϕ

THIS SET OF PLANS HAS BEEN CORRECTED TO CONFORM TO THE "AS BUILT" PRINTS DATED 4/29/66, AS SUBMITTED BY RESIDENT ENGINEER E. Nagem.
TRACINGS CORRECTED BY: AF DATE: 7/12/66

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 6000 1078

REVISION	INITIAL	DATE
UTILITIES		
REVISED BY (IN)	VHB	4/5/64
CHECKED BY	RCB	4/5/64
QUANTITIES BY		

LEVEL DATUM: DISTRICT
FOR ALIGNMENT TIES SEE PR 422226-3
CONTOURS AS OF 6-63
SITE PLAN TO SUPPLEMENT DISTRICT DATA.
SURVEY BY EGN-DSB DATE 6-63
DRAWN BY LBT DATE 6-63
TRACED BY JS DATE 6-19-63

62-06TIOH0142.3

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor R.C. Blake

DESIGN	By D.L. Blank	1-64
	Checked J.R. Mason	1-64
DETAILS	By M.	9-63
	Checked J.R. Mason	1-64
QUANTITIES	By R.B. Lick	12/63
	Checked Engineer's Est.	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

FOUNDATION PLAN 3

SCALE 1" = 30' | BRIDGE 42-226 R/L | FILE E-42 | DRAWING 422226-2 2

SHEET 14 OF 187

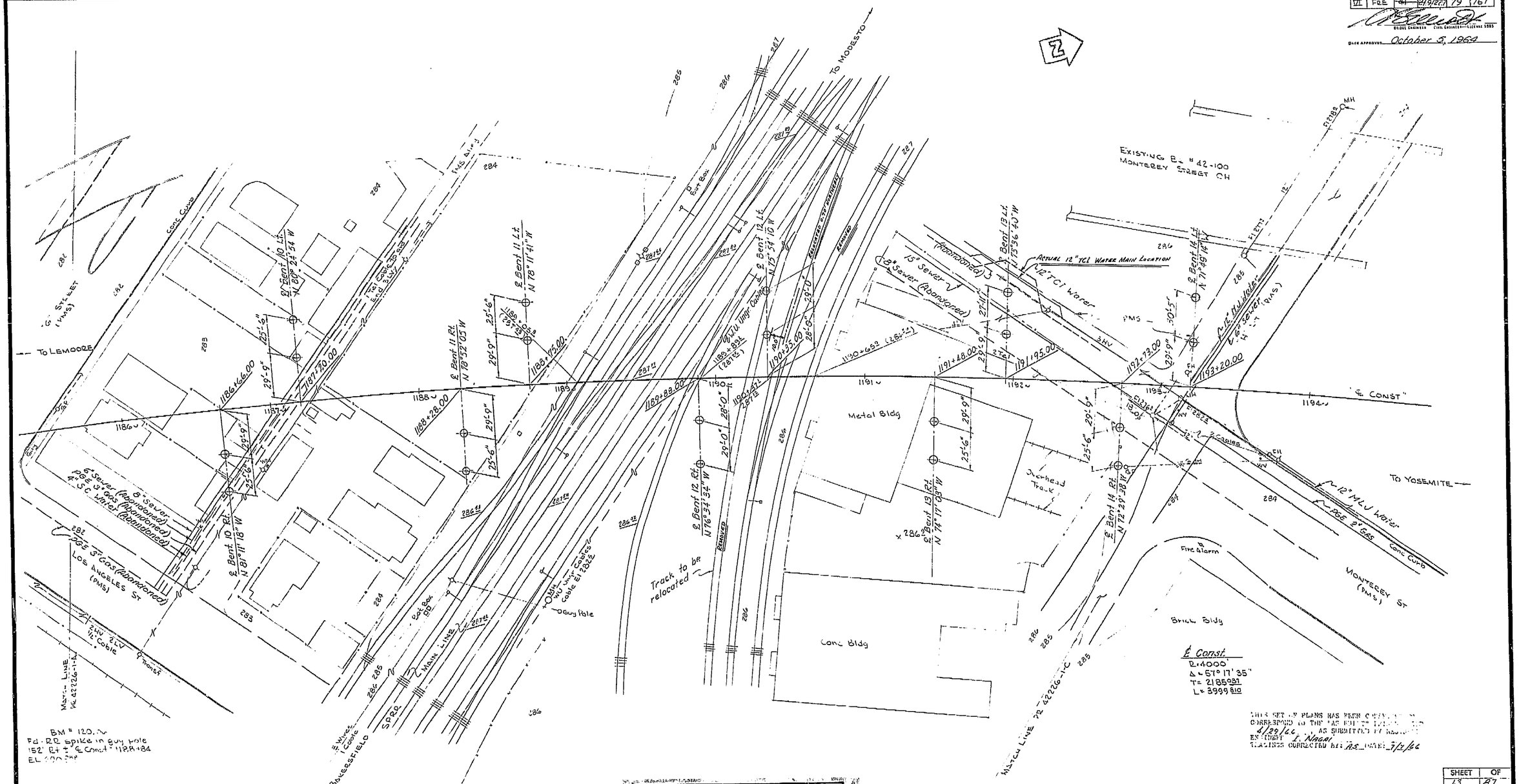
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FED. ROAD DIV. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VII	Fre	41	21.9/22.7	79	161

CHIEF ENGINEER — CIVIL ENGINEER—LICENSE 5985

DATE APPROVED: October 5, 1964



BM = 120.~
Fd. RR spike in guy pole
152' Rt. ± & Const. = 1128+84
EL 100.~

MAIN LINE
RAIL HEIGHT 033
MONTEREY ST OH & PUC # 206.2-A

For additional data on RR see field notes

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

REVISION	INITIAL	DATE
— ALIGN	VRB	10-62
REVISED BY	VRB	10-62
CHECKED BY	RCB	12-62
QUANTITIES BY	RCB	1-63

LEVEL DATUM: DISTRICT
FOR ALINEMENT TIES SEE PR 42226-3
CONTOURS AS OF 6-63
SITE PLAN TO SUPPLEMENT DISTRICT DATA.
SURVEY BY E&W-D&B DATE 6-63
DRAWN BY LBT DATE 6-63
TRACED BY JS DATE 6-18-63

79

62-06TIOH042.3

BRIDGE DEPARTMENT		
DESIGN SECTION		
Section Supervisor	R C Black	
DESIGN	by V.A. Saya	9-63
	Checked J. R. Mihovec	1-64
DETAILS	by M. Jutras	9-63
	Checked J. R. Mihovec	1-64
QUANTITIES	by R. Black	12/63
	Checked [illegible]	[illegible]

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

FOUNDATION PLAN 2

SCALE 1"=30" | BRIDGE 42-226 R | FILE E-92 | DRAWING 42226-21

SHEET 13 OF 87

PREL. DRAWING NO. P-

PR 42226-1-B

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2/21/72 SIGNATURE [signature] TITLE SR. ENGR.

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

SCALE 1"= 50' 0 50 100 200 300 400 500 600 700

SCALE 1"= 20' 0 10 20 30 40 50 60 70 80 90 100 200 300

SCALE 1"= 10' or 1"= 100' 0 10 20 30 40 50 60 70 80 90 100 150

SCALE 1"= 40' 0 20 40 60 80 100 200 300 400 500 600

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FED. ROAD DIV. NO.	STATE	F. A. PROJECT NO.	SHEET No.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	~~41~~	21/22F	78	161

BRIDGE ENGINEER — CIVIL ENGINEER — LICENSE 5585

DATE APPROVED October 5, 1964

PG&E 4" Gas
PG&E Aerial
PCC Pad
B.L.W.
PG&E Joint lines (RS Mix)
6" Sewer
H.V. B.L.W. Tel Cable
See "Retaining Wall 1"
(Adjusted)
P.G. 4" Gas
(Abandoned)
CALIFORNIA ST (PMS)
℄ Conc. L.W. & Curb
TO LEMOORE
1177+31.00
1177+65.30
1178+45.00
1179+22.09
1179+58.00
1179+90.00
1180+70.00
1181+33.00
1181+43.00
1182+67.00
1184+09.00
1185+54.00
℄ Bent 1 Rt.
N 89° 21' 22" W
℄ Bent 2
N 89° 21' 22" W
℄ Abut. 1
N 89° 21' 22" W
℄ Bent 3
N 89° 21' 22" W
℄ Bent 4 Rt.
N 41° 20' 00" W
℄ Bent 4 Lt.
N 59° 46' 00" W
PG&E 3" Gas (abandoned)
℄ Bent 5 Rt.
N 41° 01' 46" W
℄ Bent 5 Lt.
N 41° 01' 46" W
℄ Bent 6 Rt.
N 41° 01' 46" W
℄ Bent 6 Lt.
N 41° 01' 46" W
℄ Bent 7
N 41° 01' 46" W
℄ Bent 8
N 41° 01' 46" W
℄ Bent 7 Rt.
N 41° 01' 46" W
F" STREET (PMS)
Conc Curb
Conc Wall
Conc Rolled Curb
Conc Curb & Gutter
Conc Curb (PMS)
Cafe Rolled Curb
Clean Out Box
TO SACRAMENTO
TO YOSEMITE
PG&E 6" Gas
PG&E 5" Gas (Abandoned)
8" Sewer (Abandoned)
4" Sc. Water (Abandoned)
LOS ANGELES ST (PMS)
PG&E (Aerial)
8" TCI Water
Overhead Crane Tracks
G" STREET (PMS)
Transit
PG&E Duct
Steel Metal Bldg
TO BAKERSFIELD 27
EXISTING ROUTE 41
30" RCP (Drag Ditch)
1" Conduit (Abandoned)
Some fill mati has been placed in this area since date of contours.
12" MLW Water
1" Gas (Aerial)
RADIAL S 85° 54' 20" W
℄ CONST 1179+65.30 PCC
"℄ CONST"
R = 4000'
Δ = 57° 17' 35"
T = 2185.98'
L = 3999.61'
BM "FIH PH B-38"
Fd-Kruss disc in N curb @ W end. Calif Ave Bridge 110' ± Rt. ℄ Const 1178 ~
EL 282.922
MATCH LINE PR 42226-1-B
MATCH LINE PR 42226-1-A

Note:
000.0 Denotes bottom of Footing elevations.
③ Indicates 5'ϕ C.I.D.H. piles. See "Bent Column" shts.
+ Indicates 16" C.I.D.H. piles. See "Abut. 1" sht.
For Abut. 1 pile spacing see "Abutment 1" sht.

AS BUILT PLANS
Contract No 4-014234
Date Completed
Document No 60001078

REVISION	DATE
VI-171ES	
REVISED BY	DATE
DRAWN BY	DATE
CHECKED BY	DATE
QUANTITIES BY	DATE

LEVEL DATUM:
FOR ALIGNMENT TIES SEE PR 42226-3
CONTOURS AS OF 6-62
SITE PLAN TO SUPPLEMENT DISTRICT DATA.
SURVEY BY EGN-DJB DATE 6-63
DRAWN BY LBT DATE 6-63
TRACED BY JS DATE 6-17-63

62-06T10H01A2.3

SHEET 12 OF 87

BRIDGE DEPARTMENT DESIGN SECTION 5		
Section Supervisor	RC Blake	
DESIGN	By LA Jones	9-63
	Checked DK Wilson	1-64
DETAILS	By Mizutani	9-63
	Checked DK Wilson	1-64
QUANTITIES	By R. Hucklebee	
	Checked D. Sakamoto	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

FOUNDATION PLAN 1

SCALE 1" = 30' | BRIDGE 42-226 R/L | FILE E-42 | DRAWING 42226-20

PREL. DRAWING NO. PR 42226-1A

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.
DATE 12-22 SIGNATURE [illegible] TITLE Sr. Engr.

SCALE 1"=50' | MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM | SCALE 1"=20'
SCALE 1"=10' or 1"=100' | MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM | SCALE 1"=40'

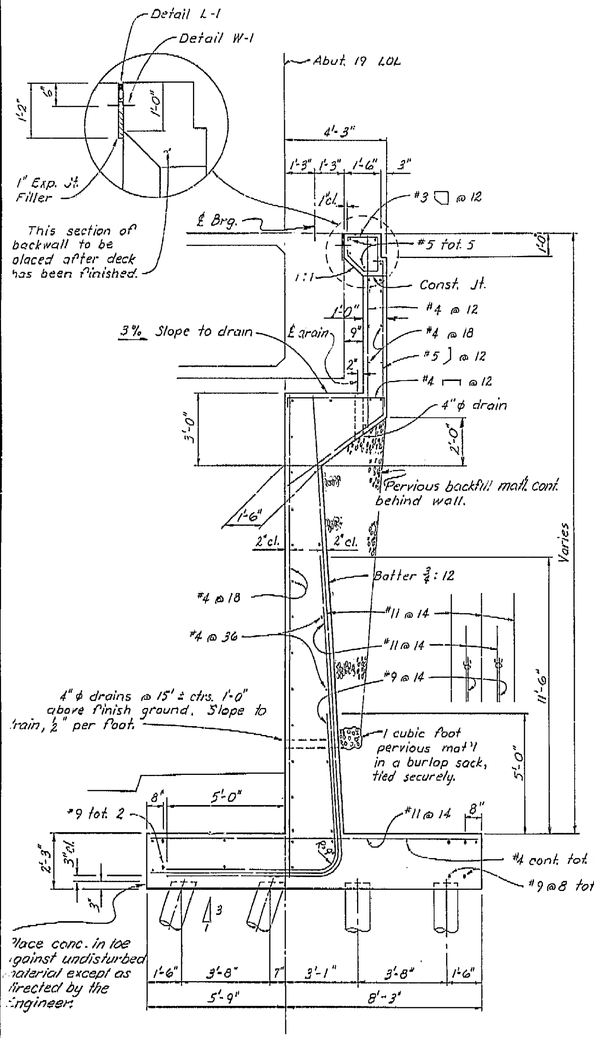
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FED. ROAD DIV. NO.	STATE	F.A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.			

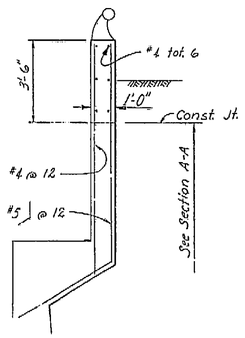
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	41	21/Kerr.	87	161

DATE APPROVED: October 5, 1964

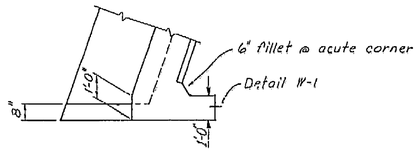
Note:
South Abut. corner shown.
North Abut. corner similar.



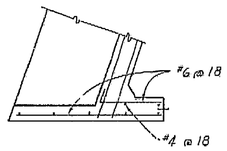
SECTION A-A
3/8" = 1'-0"



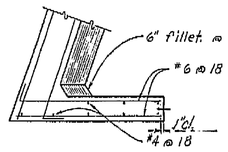
SECTION E-E
3/8" = 1'-0"



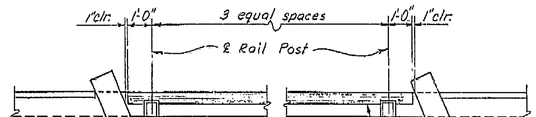
SECTION B-B
3/8" = 1'-0"



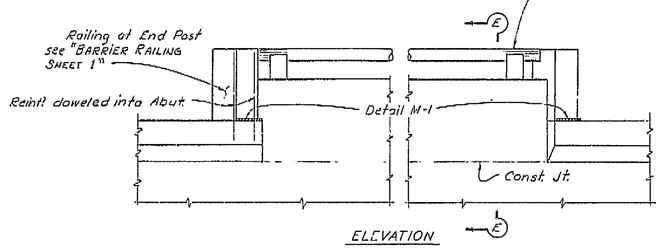
SECTION C-C
3/8" = 1'-0"



SECTION D-D
3/8" = 1'-0"

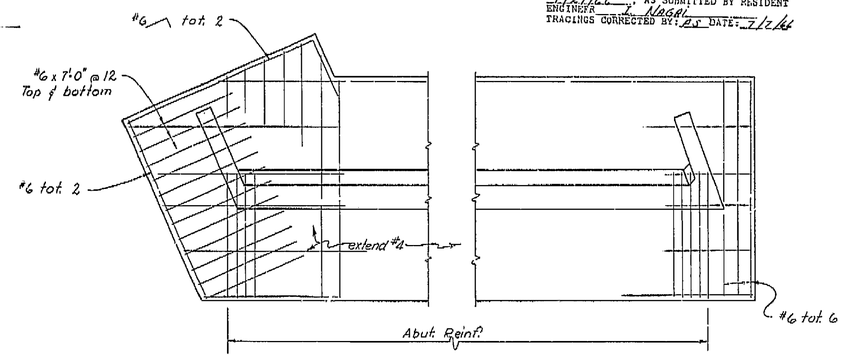


PLAN



ELEVATION

PARAPET DETAILS
3/8" = 1'-0"



FOOTING CORNER DETAIL
1/4" = 1'-0"

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4-29-66, AS SUBMITTED BY RESIDENT ENGINEER L. NAGAI.
TRACINGS CORRECTED BY: RS DATE: 7-12-66

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

SHEET	OF
27	87

BRIDGE DEPARTMENT	
DESIGN SECTION 15	
Section Supervisor	R.C. Blake
DESIGN	By H.O. Banks 9-63
	Checked J.P. Hunter 11-64
DETAILS	By HIZUTANI 9-63
	Checked J.P. Hunter 12-64
QUANTITIES	By R.B. Black 12/63
	Checked D. Sudweeks 12-63

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

ABUTMENT 19 DETAILS 2

SCALE	BRIDGE	FILE	DRAWING
AS NOTED	42-226 R/L		42226-26

Disregard prints bearing earlier revision dates →

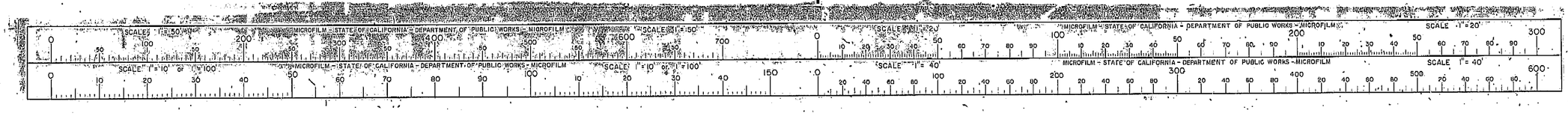
PRELIMINARY DRAWING No. P 3/64 1/2 3/64 3/4

REVISION DATES

87

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-72 SIGNATURE [illegible] TITLE SR R/WC



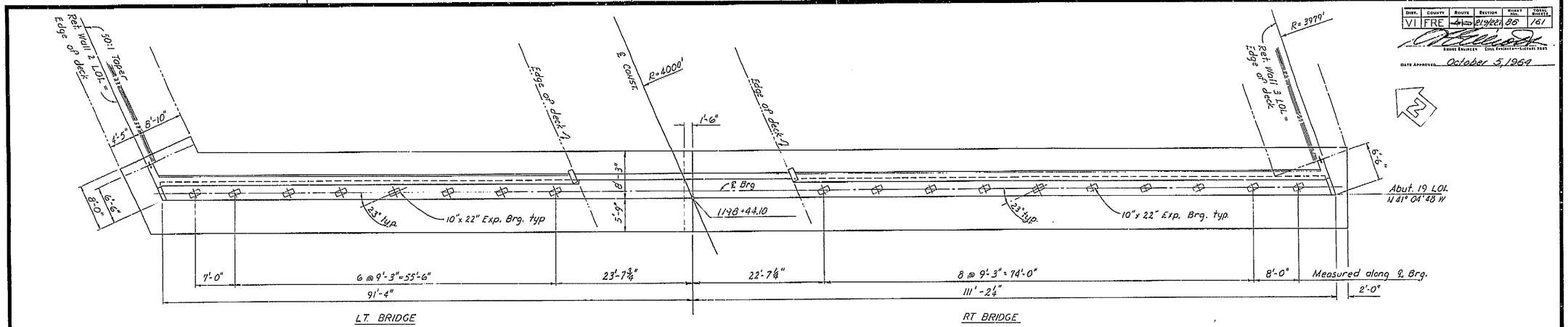
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FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

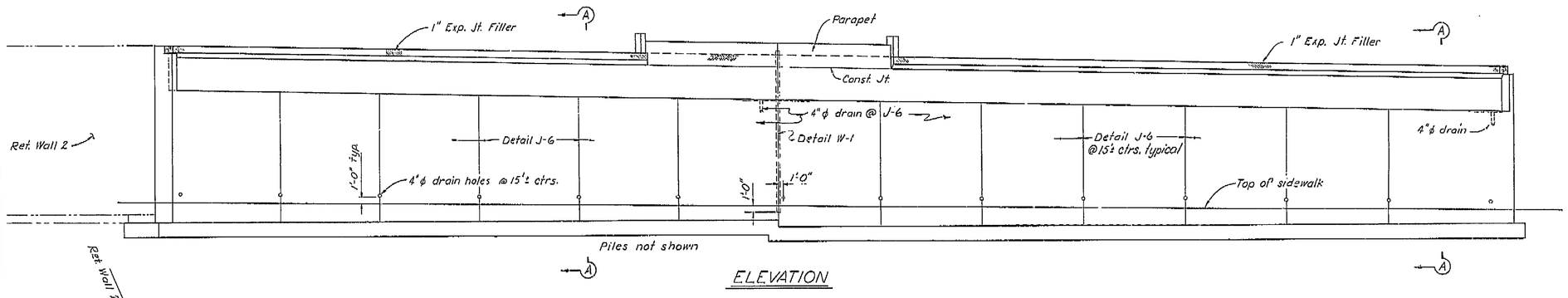
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	41	21/42R	86	161

BRIDGE ENGINEER — CIVIL ENGINEER — LICENSE 5845

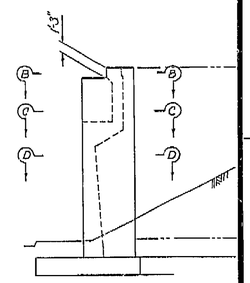
DATE APPROVED: October 5, 1964



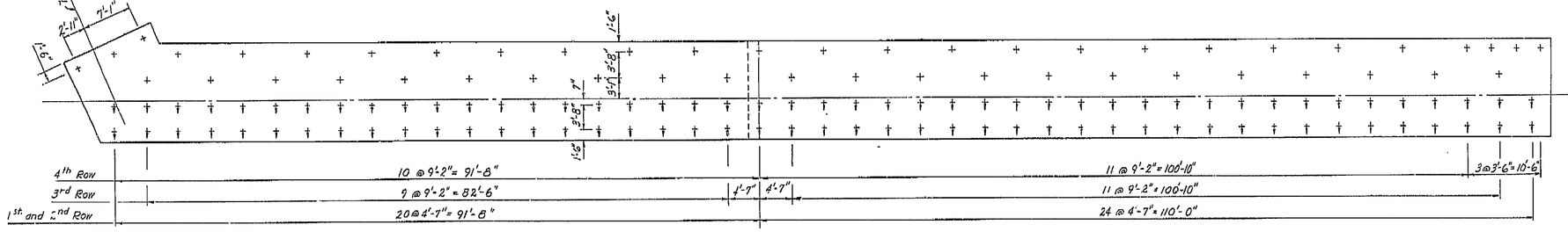
PLAN



ELEVATION



END VIEW



PILE LAYOUT PLAN

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/29/66, AS SUBMITTED BY RESIDENT ENGINEER E. Nagy
TRACINGS CORRECTED BY: AS DATE: 7/7/66

SHEET	OF
20	87

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

NOTE: See "ABUTMENT 19 DETAILS 2" For:
Sections A-A, B-B, C-C and D-D.
Parapet Details.
Footing Corner Details.
+ indicates 16" C.I.D.H vertical pile.
† indicates 16" C.I.D.H. 1:3 battered piles.

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor R.C. Black

DESIGN	by L. Banks	9-63
	Checked J.P. Hunter	11/64
DETAILS	by M. MIZUTANI	9-63
	Checked J.P. Hunter	11/64
QUANTITIES	by R.B. Black	12/63
	Checked D. Sudweeks	12/63

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

ABUTMENT 19 DETAILS 1

SCALE 1/8" = 1'-0" | BRIDGE 42-226 R/ | FILE | DRAWING 42226-25

Disregard prints bearing earlier revision dates

PRELIMINARY DRAWING No.	REVISION DATES
P-[illegible]	[illegible]

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-72 SIGNATURE [signature] TITLE SR RMO

86

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALES 1"=50' 1"=150'
SCALE 1"=10' or 1"=100'
SCALE 1"=10' or 1"=100'
SCALE 1"=20'
SCALE 1"=40'
SCALE 1"=40'
SCALE 1"=20'

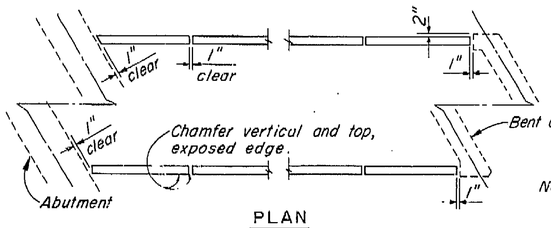
ClibPDF - www.fastio.com

FED. ROAD DIV. NO	STATE	F. A. PROJECT No.	SHEET No	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	FRe	41	21.9/23.2	82	161

Division Engineer — Civil Engineer — License 9484

Date Approved: October 5, 1964



PLAN

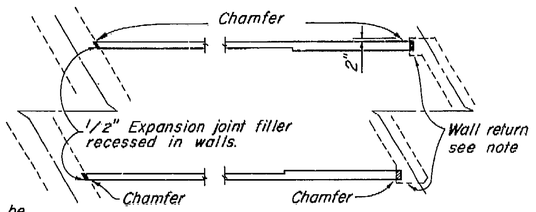
Skew not to scale

NOTE:

Post-tensioned prestressing will not be permitted.

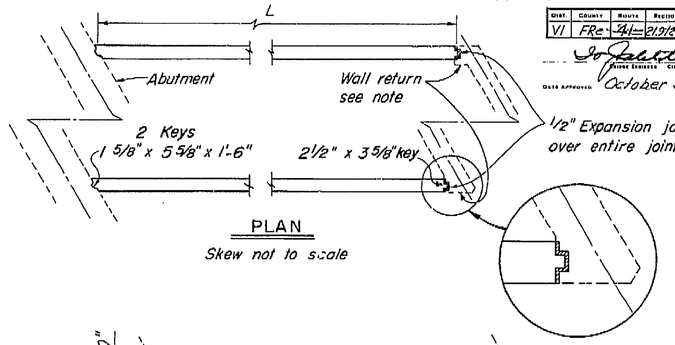
Pf = the force, per foot of panel width, remaining after all losses, including those due to creep and shrinkage of concrete and creep of steel have occurred. These losses shall be assumed to be 30,000 psi.

Concrete stress:
Fc = 3,500 psi @ 28 days.
Fci = 3,500 psi @ time of stressing.



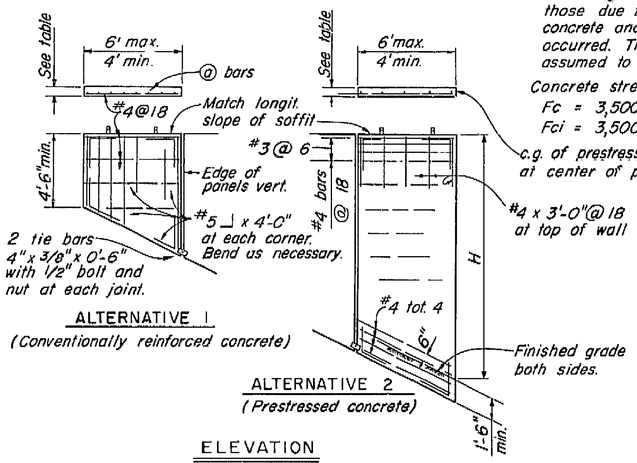
PLAN

Skew not to scale

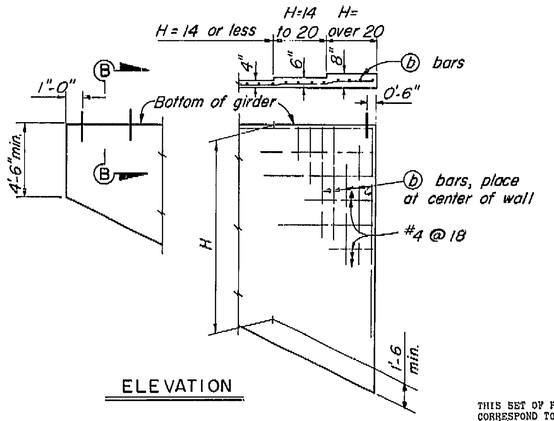


PLAN

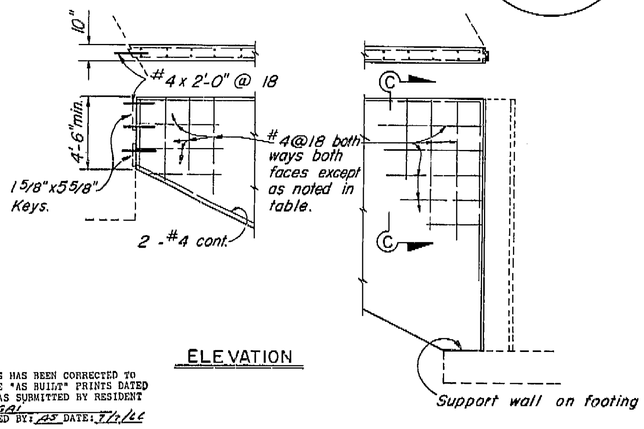
Skew not to scale



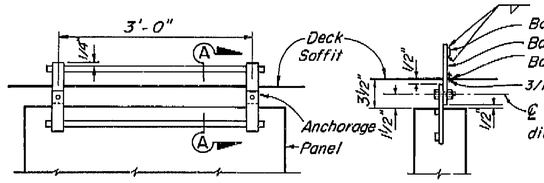
ELEVATION



ELEVATION

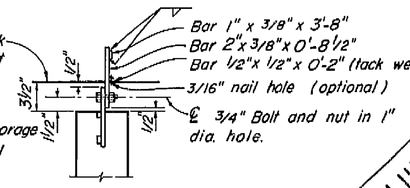


THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 6/29/66, AS SUBMITTED BY RESIDENT ENGINEER I. Nagai
TRACINGS CORRECTED BY: AS DATE: 7/7/66

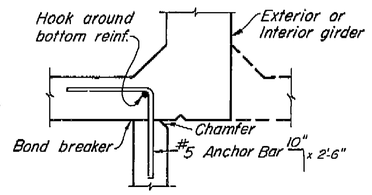


ANCHORGE DETAIL

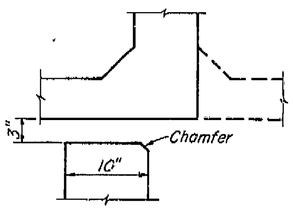
Use with Alternative 1 or 2



SECTION A-A



SECTION B-B



SECTION C-C

HORIZONTAL REINFORCEMENT INSIDE FACE TOP 8 FEET OF WALL	
L	
to 20	#4 @ 18
20 to 25	#4 @ 12
25 to 30	#4 @ 9
30 to 35	#4 @ 6
35 to 40	#4 @ 5
40 to 45	#5 @ 6
45 to 50	#5 @ 5

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 10001078

PRECAST PANELS, ALTERNATIVE 1 OR 2

VERTICAL REINFORCEMENT OR PRESTRESSING FORCE AND WALL THICKNESS				
H	Alt. 1 @ bars	Alt. 2 Pf	Wall Thickness Alt. 1	Alt. 2
10 & less	#4 @ 18	7,200 lbs.	6"	4"
12	#4 @ 18	10,600 lbs.	6"	4"
14	#4 @ 12	14,400 lbs.	6"	4"
16	#4 @ 10	18,200 lbs.	6"	4"
18	#4 @ 8	23,500 lbs.	6"	4"
20	#4 @ 6	28,800 lbs.	6"	4"
22	#4 @ 7	22,300 lbs.	8"	5"
24	#4 @ 6	26,600 lbs.	8"	5"
26	#4 @ 5	31,200 lbs.	8"	5"

NOTES:

1. Contractor to determine size of panels and location of anchorages. Panels shall be approximately equal in width within limits shown. Maximum weight of any panel not to exceed 10,000 lbs.
2. Panels to be backfilled uniformly on each side.
3. Panels shall conform to horizontal and vertical alignment.
4. Panels to be erected vertically.
5. All parts of anchorages and tie bar assembly to be galvanized.
6. Ⓐ bars or Pf may be selected for average H of any one panel.

AIR BLOWN MORTAR, ALTERNATIVE 3

NOTES:

1. Welded wire fabric of equivalent area, and minimum spacing of 3 inches, may be substituted for reinforcement shown.
2. Wall return may be omitted for skews 20° or less.
3. Walls to be backfilled uniformly on each side.
4. Expansion joint filler to be cast into pier and abutment walls.
5. Anchor rods to be galvanized.
6. Where anchor rods are located within the center half of a bay, measured face to face of girders, the maximum spacing is 12 inches.

VERTICAL REINFORCEMENT AND WALL THICKNESS			
H	ⓑ bars	Wall Thickness	Max. Spacing of Anchor Rods
10 & less	#4 @ 16	4"	*36"
12	#4 @ 12	4"	*36"
14	#4 @ 9	4"	*36"
16	#4 @ 10	6"	*24"
18	#4 @ 8	6"	*24"
20	#4 @ 6	6"	*24"
22	#4 @ 7	8"	12"
24	#4 @ 6	8"	12"
26	#4 @ 5	8"	12"

*See note 6.

NOTE: This Alternative Used

CAST-IN-PLACE, ALTERNATIVE 4

1. Wall return may be omitted for skews 20° or less.
2. Wall to be placed after piers and abutments.

STANDARD DRAWING
Submitted by R.C.Blake 3/63
Design R.C.Blake
Details R.C.Blake
Quantities R.C.Blake
Approved Recommended for approval R.C.Blake
Approved for use by the Director of Public Works Ira J. Chrisman
1963

SHEET 16 OF 37

BRIDGE DEPARTMENT
DESIGN SECTION
Section Supervisor R.C. Blake
DESIGN By / Checked
DETAILS By / Checked
QUANTITIES By / Checked

3/63

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

CLOSURE WALL DETAILS (BOX GIRDER)

SCALE NONE | BRIDGE 42-226 R/L | XS-22-6 FILE | DRAWING 42226-19

Disregard prints bearing earlier dates

PRELIMINARY DRAWING NO. P- | REVISION DATES

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-72 SIGNATURE Lonnie E. Coutt TITLE SR RMC

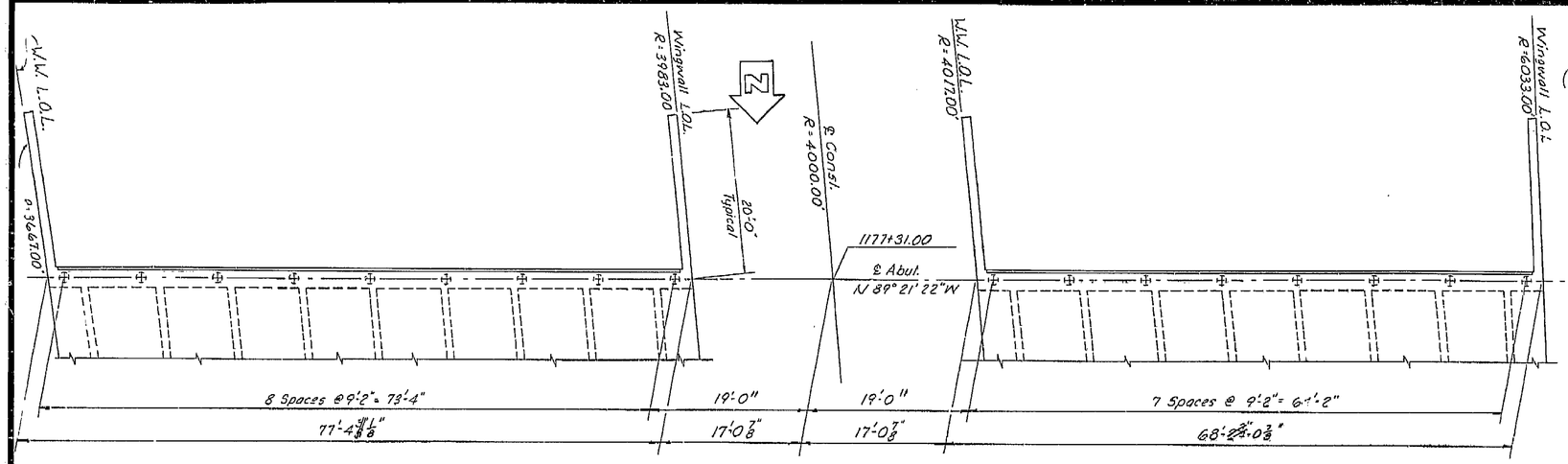


ClibPDF - www.fastio.com

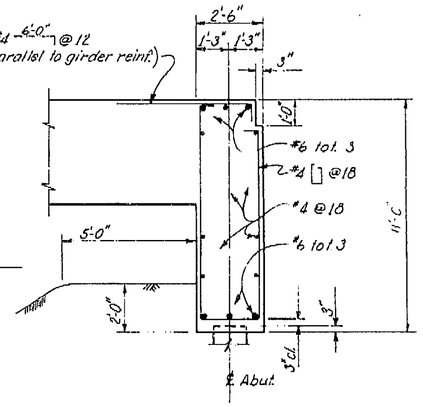
FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	FRE	41	21.9/22.7	81	161

DATE APPROVED: October 5, 1964

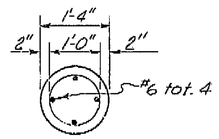


PLAN
1/8" = 1'-0"

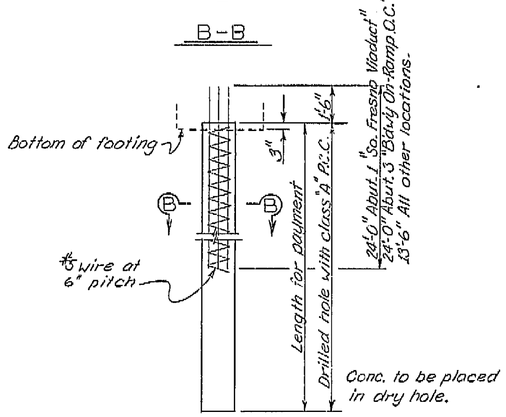


ABUTMENT SECTION

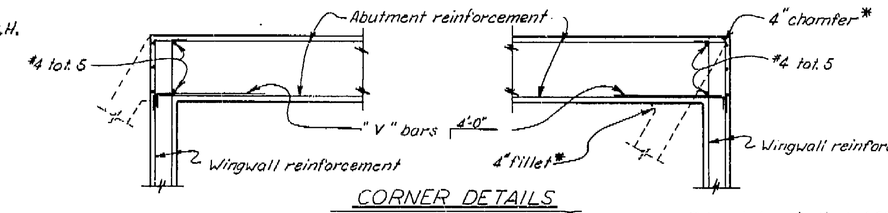
⊕ Indicates piles C.I.D.H.



B-B



16" CAST-IN-DRILLED-HOLE CONCRETE PILE

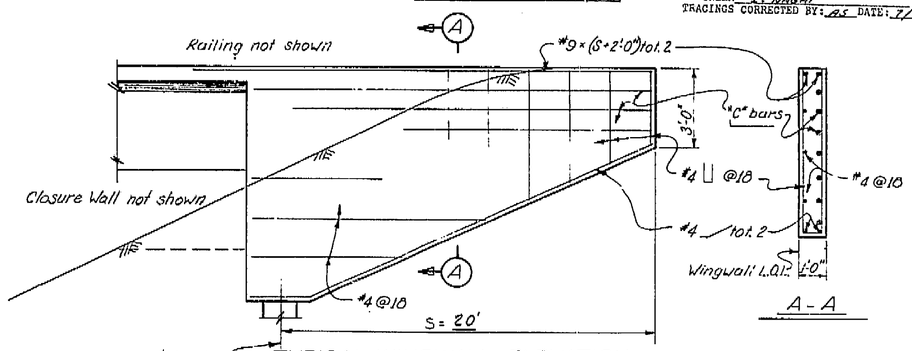


CORNER DETAILS

*on abutments skewed 20° or more.

"S"	"C" BARS	"V" BARS
12'	#5@9	#4@18
14'	#6@9	#4@18
16'	#7@9	#4@18
18'	#8@9	#5@18
20'	#9@9	#6@18

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/29/66, AS SUBMITTED BY RESIDENT ENGINEER T. Nagai
TRACINGS CORRECTED BY: AS DATE: 7/26/66



A-A

TYPICAL WINGWALL ELEVATION

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

SHEET	OF
15	87

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor R.C. Blake

DESIGN	By	D.A. Banks 9-63
	Checked	J.P. Hunter 1/64
DETAILS	By	Y. Nakayama 9/63
	Checked	J.P. Hunter 1/64
QUANTITIES	By	R.B. Black 12/63
	Checked	D. Sidebotham 1/64

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

ABUTMENT 1

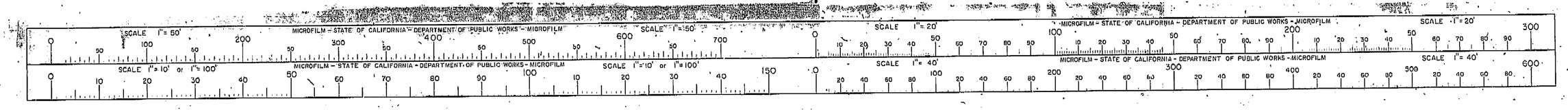
SCALE	BRIDGE	FILE	DRAWING
no scale unless shown	42 226 R/L		42226-23

Disregard prints bearing earlier revision dates →

PRELIMINARY DRAWING No.	REVISION DATES
PP-398	1/64

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-72 SIGNATURE Forrest E. Linn TITLE Supv. R/W



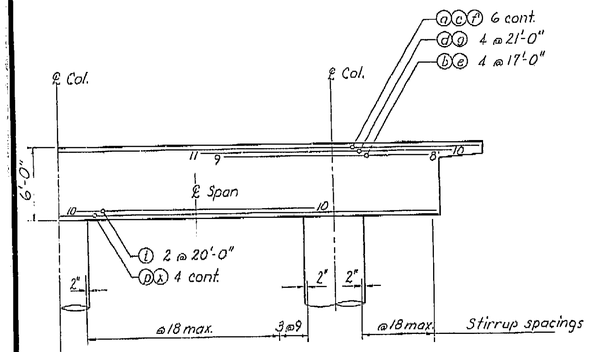
ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

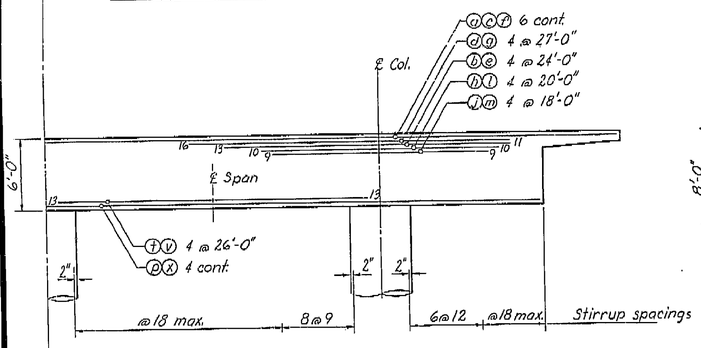
DIST.	COUNTY	ROUTE	EA/LOCAM	SHEET NO.	TOTAL SHEETS
IV	FRE	41	228/227	117	161

BRIDGE ENGINEER — CIVIL ENGINEER—LICENSE 5061

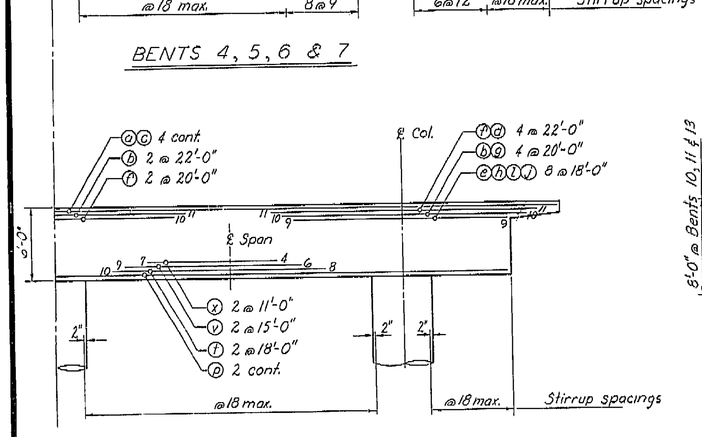
DATE APPROVED October 5, 1964



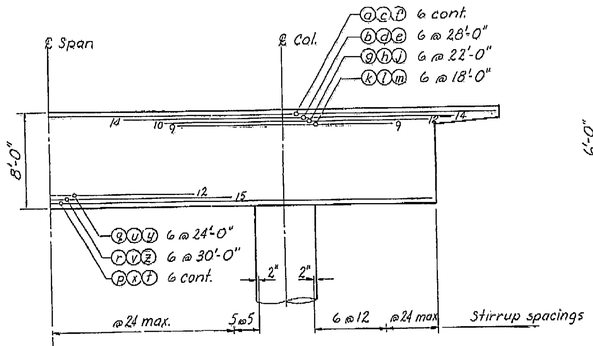
BENTS 3 & 17



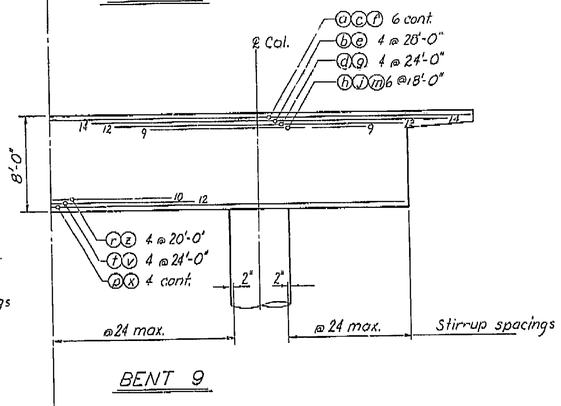
BENTS 4, 5, 6 & 7



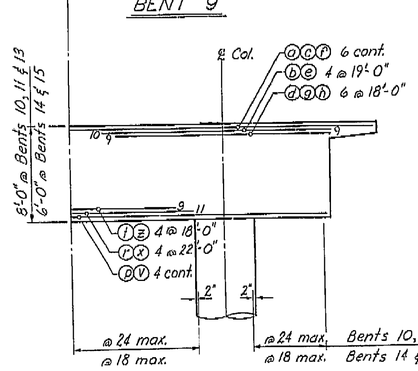
BENT 18



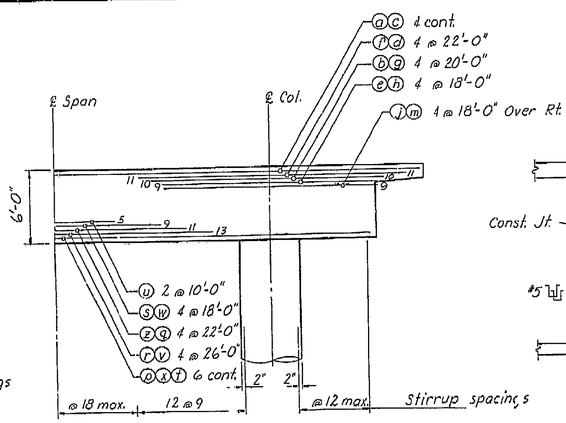
BENT 8



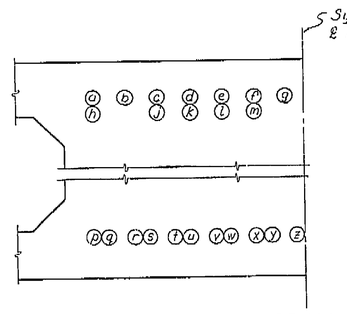
BENT 9



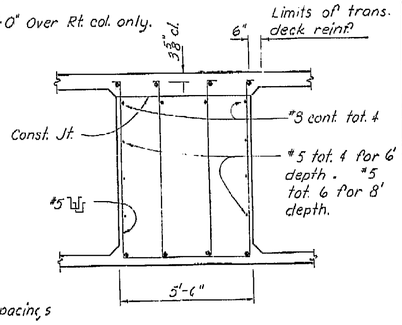
BENTS 10, 11, 13, 14 & 15



BENT 16

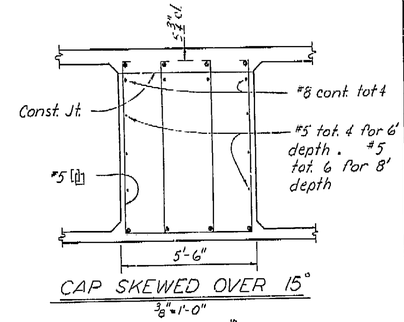


BAR PLACING DIAGRAM



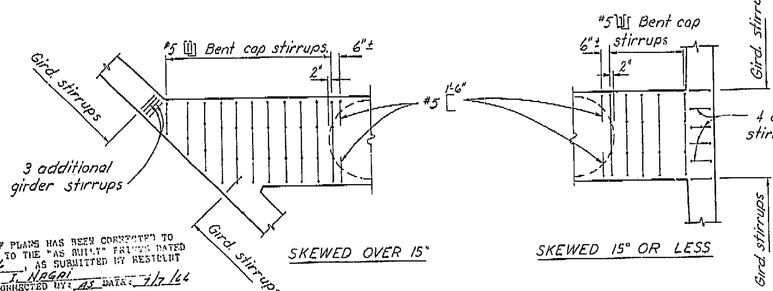
CAP SKEWED 15° OR LESS

3/8" = 1'-0"



CAP SKEWED OVER 15°

3/8" = 1'-0"



END OF BENT CAP REINFORCEMENT

1/4" = 1'-0"

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PLANS DATED 4/29/66, AS SUBMITTED BY RESIDENT ENGINEER [illegible]
TRACINGS CORRECTED BY: AS DATE: 7/7/66

SHEET	OF
51	87

BRIDGE DEPARTMENT DESIGN SECTION 15		
Section Supervisor RC Black		
DESIGN	by DRM CSH RU LDR	
	Checked same	
DETAILS	by Hizutani 12-64	
	Checked DRM CSH RU LDR	
QUANTITIES	by R. B. Black 2-64	
	Checked [illegible] 2-64	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

BENT CAP REINFORCEMENT (RT. BR.)

EXCEPT AS NOTED SCALE 3/16 = 1'-0" | BRIDGE 42-226 R/ | FILE | DRAWING 42226-60

PRELIMINARY DRAWING NO. PJ 4/29/66 | REVISION DATES

Disregard prints bearing earlier revision dates →

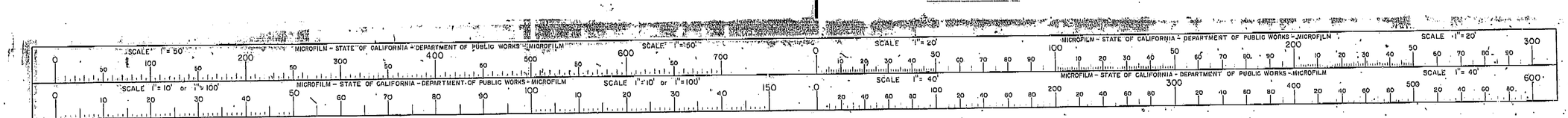
AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

117

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-72 SIGNATURE [signature] TITLE SR. R/W C

Note: All reinforcement #11 unless noted otherwise. Numbers at ends of bars indicate distance in feet from ℄ Col. for top reinforcement or ℄ Span for bottom reinforcement. Reinforcement symmetrical about ℄ of center col. for "3 col. Bents" and ℄ span for "2 col. Bents".



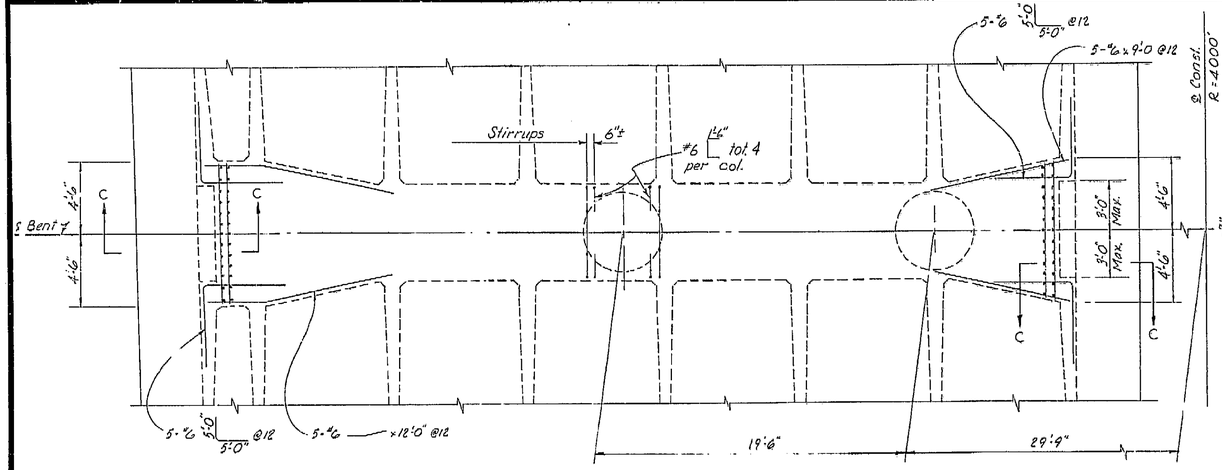
ClibPDF - www.fastio.com

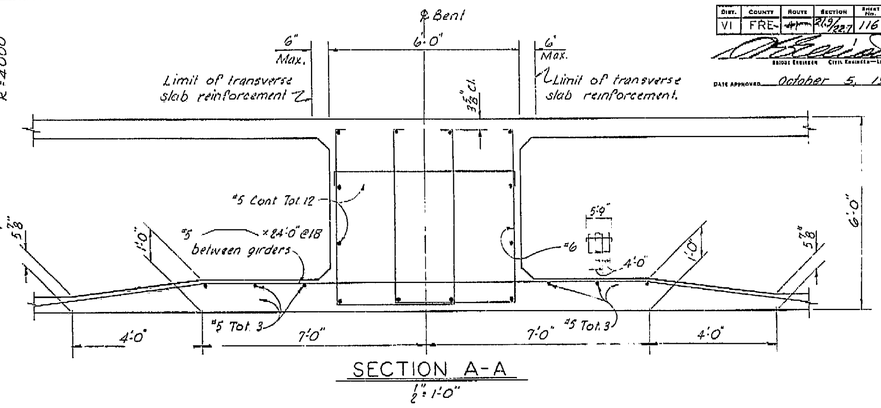
FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE-	41	21.7/22.7	116	161

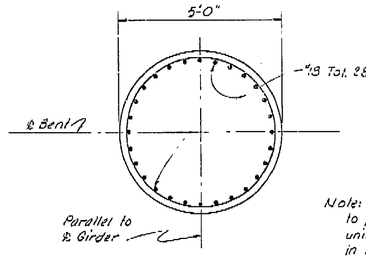
BRIDGE ENGINEER — CIVIL ENGINEER—LICENSE 8000

DATE APPROVED October 5, 1964





SECTION A-A
½" = 1'-0"

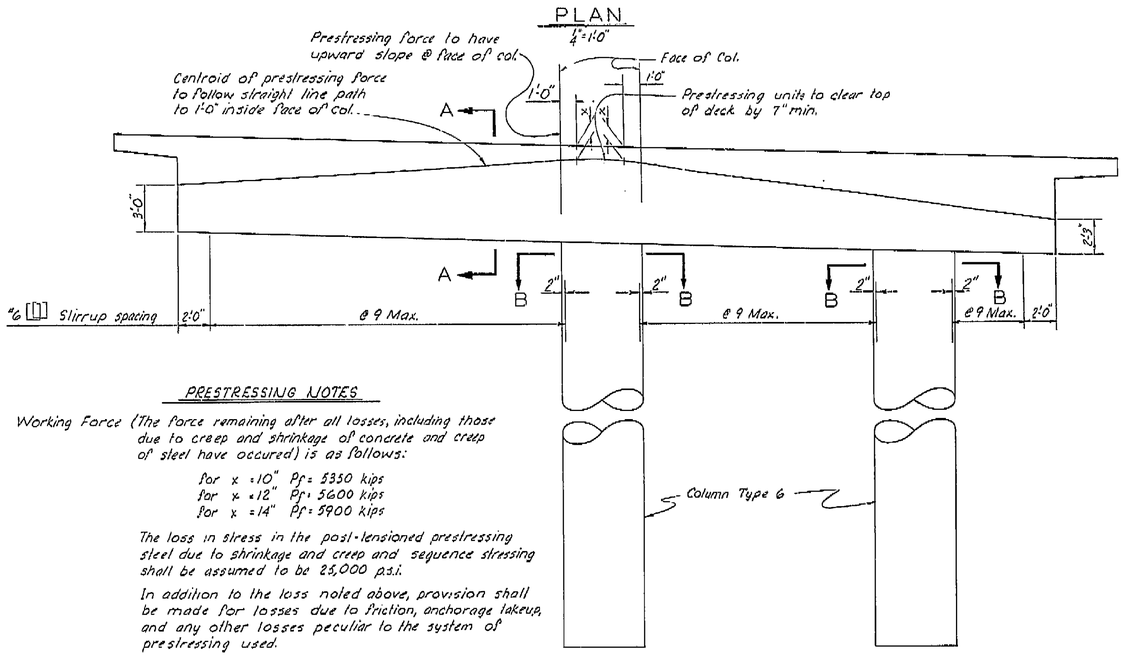


SECTION B-B
½" = 1'-0"

Note: Column bars must be oriented to permit placing of prestressing units and longitudinal reinforcement in cap.

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/29/66, AS SUBMITTED BY RESIDENT ENGINEER J. Nagai
TRACINGS CORRECTED BY: AS DATE: 7/7/66

PLAN
¼" = 1'-0"



PRESTRESSING NOTES

Working Force (The force remaining after all losses, including those due to creep and shrinkage of concrete and creep of steel have occured) is as follows:

for x = 10" Pf = 5350 kips
for x = 12" Pf = 5600 kips
for x = 14" Pf = 5900 kips

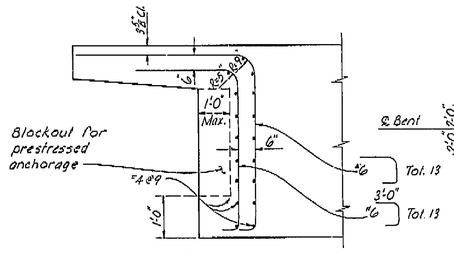
The loss in stress in the post-tensioned prestressing steel due to shrinkage and creep and sequence stressing shall be assumed to be 25,000 p.s.i.

In addition to the loss noted above, provision shall be made for losses due to friction, anchorage takeup, and any other losses peculiar to the system of prestressing used.

Prestressing Steel: See Special Provisions
Clearances for Post-Tensioned units: 1. Horizontal between units = 2½" min.
2. Units may be bundled vertically in groups of 3 max.
3. Vertical clearance between bundled units = 3" min.

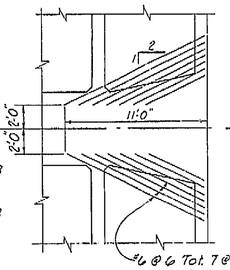
Concrete: f'_c @ time of stressing 3700 psi. Limits of 3700 psi concrete extend 11'-0" each side of ℄ Bent.

ELEVATION
1" = 1'-0"



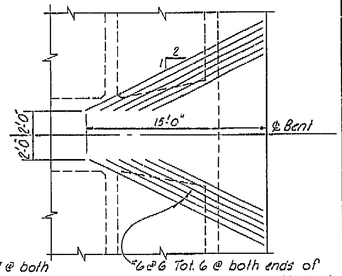
Note: Longitudinal reinforcement not shown. For details not shown see "Typical Section" sheet & "Girder Reinforcement" sheets.

SECTION C-C



#6 @ 6 Tot. 7 @ both ends of cap. Place above longitudinal reinforcement.

BOTTOM SLAB



#6 @ 6 Tot. 6 @ both ends of cap. Place below longitudinal reinforcement.

TOP SLAB

CAP END DETAILS
No Scale

SHEET	OF
50	87

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor: RC Blake

DESIGN	By	Carl Klumb 1-64
	Checked	BL Fraser 1-64
DETAILS	By	J. Nadeau 12/68
	Checked	BL Fraser 1-64
QUANTITIES	By	DR Mecca 2-64
	Checked	DA Bender 2-64

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

BENT 17 (LT. BR)

SCALE AS NOTED | BRIDGE 42-226 R/L | FILE | DRAWING 42226-69

PRELIMINARY DRAWING No. P

REVISION DATES

Disregard prints bearing earlier revision dates →

99

116

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-72 SIGNATURE James E Cain TITLE Sr Engr

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"=50' SCALE 1"=150' SCALE 1"=20' SCALE 1"=20'
SCALE 1"=10' or 1"=100' SCALE 1"=10' or 1"=100' SCALE 1"=40' SCALE 1"=40'

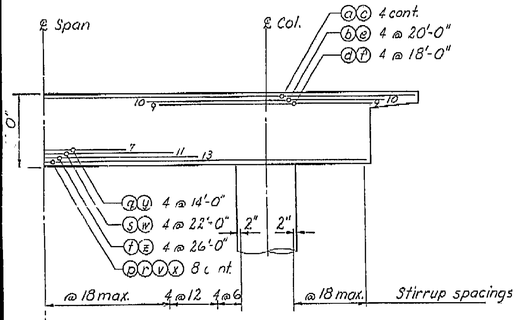
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FED. ROAD DIV. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

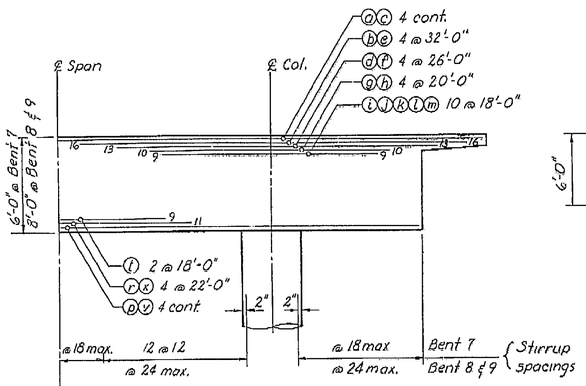
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	~~99~~ 41	~~B~~ 29	115	161

REGISTERED ENGINEER — CIVIL ENGINEER—LICENSE 5565

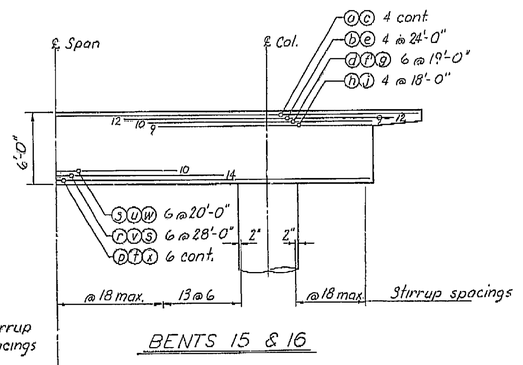
DATE APPROVED October 5, 1964



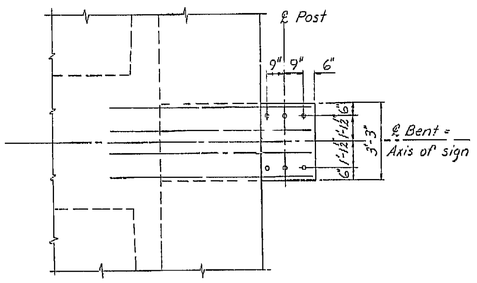
BENT 3



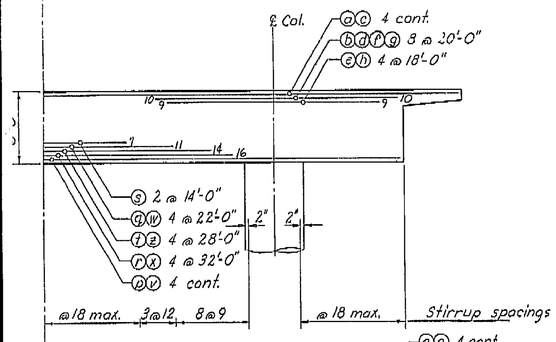
BENTS 7, 8 & 9



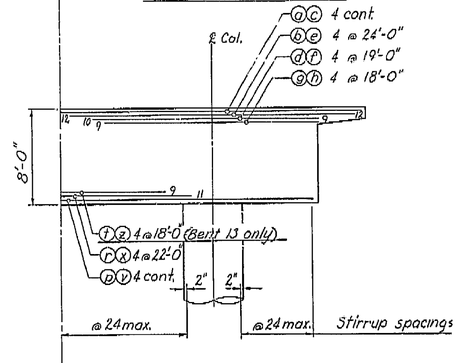
BENTS 15 & 16



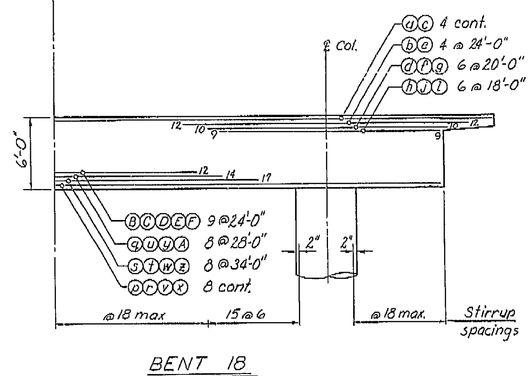
PLAN



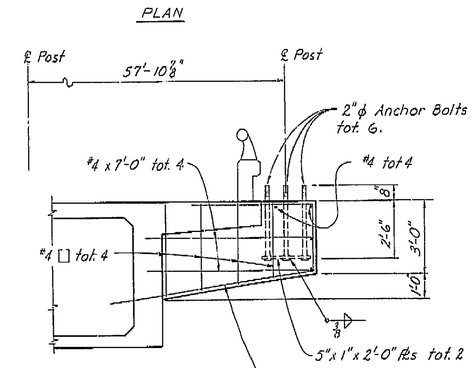
BENT 4



BENTS 10, 11 & 13

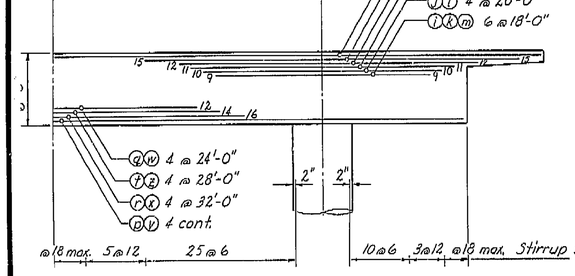


BENT 18

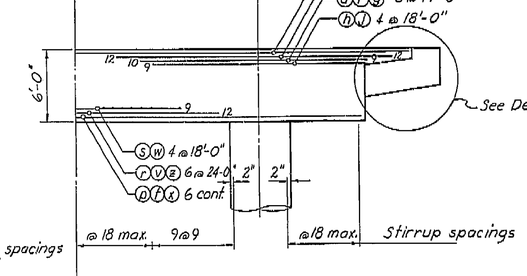


ELEVATION

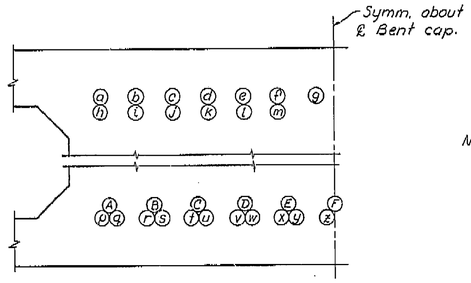
DETAIL "A"
3/8" = 1'-0"



BENTS 5 & 6



BENT 14



BAR PLACING DIAGRAM
No Scale

Note:

All reinforcement #11 unless noted otherwise. Numbers at ends of bars indicate distance in feet from ℄ Col. for top reinforcement or ℄ Span for bottom reinforcement.

See "BENT CAP REINF (RR BR)" sheet for Cap Section and End of Bent Cap Reinforcement. Reinforcement symmetrical about ℄ of center col. for 3 col. Bents and ℄ span for 2 col. Bents. For Bent 17 details see "Bent 17 Lt. Br." sheet.

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PLANS DATED 9/29/66, AS SUBMITTED BY RESIDENT ENGINEER T. Nagai
TRACINGS CORRECTED BY AS DATE: 7/13/66

SHEET	OF
49	87

AS BUILT PLANS
Contract No. 14-0K4234
Date Completed
Document No. 60001078

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor R C Blake

DESIGN	W.J.(Jim) C.S.H. R.U. L.D.R.	
	Checked same	
DETAILS	By Miyatani V.A.B. 1-64	
	Checked D.Kim C.S.H. R.U. L.	
QUANTITIES	By R. B. Black 2-64	
	Checked [illegible] V.A.B.	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

BENT CAP REINFORCEMENT (LT. BR.)

SCALE EXCEPT AS NOTED 3/16" = 1'-0" | BRIDGE 42-226 R/L | FILE | DRAWING 42226-61

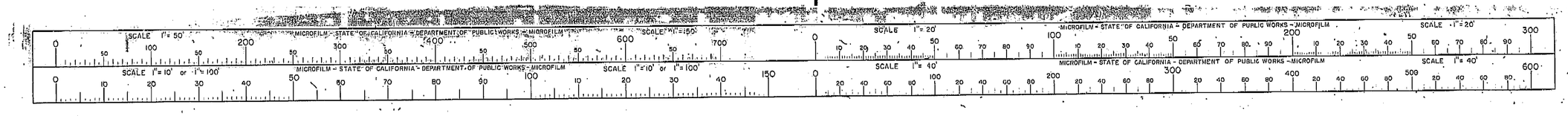
PRELIMINARY DRAWING NO. P-[illegible]

REVISION DATES

Disregard prints bearing earlier revision dates →

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-72 SIGNATURE [signature] TITLE SR ENG



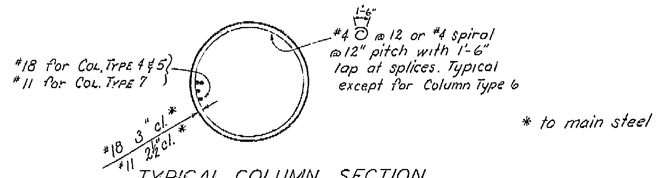
ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

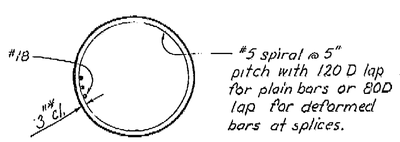
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	41	21.9/22.1	85	161

BRIDGE ENGINEER — CIVIL ENGINEER — LICENSE 5565

DATE APPROVED: October 5, 1964

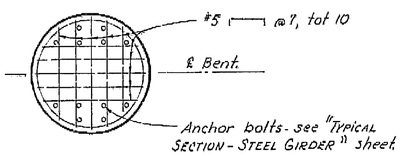


TYPICAL COLUMN SECTION

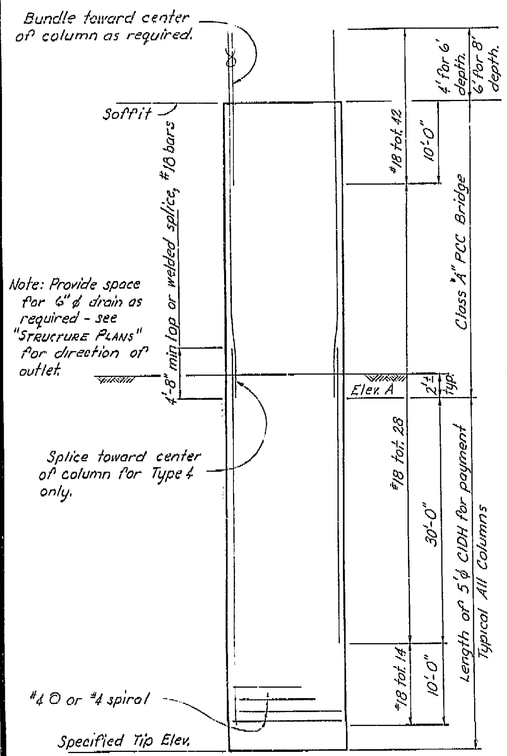


SECTION A-A

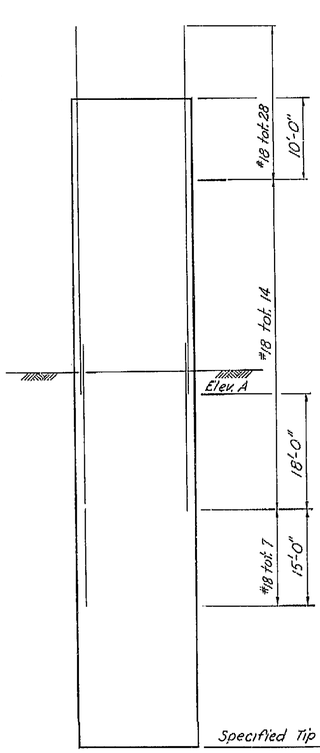
Note: see "BENT 17 LT. OR." sheet.



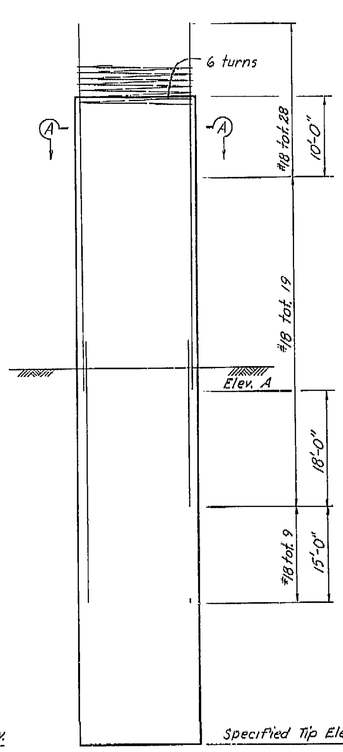
PLAN



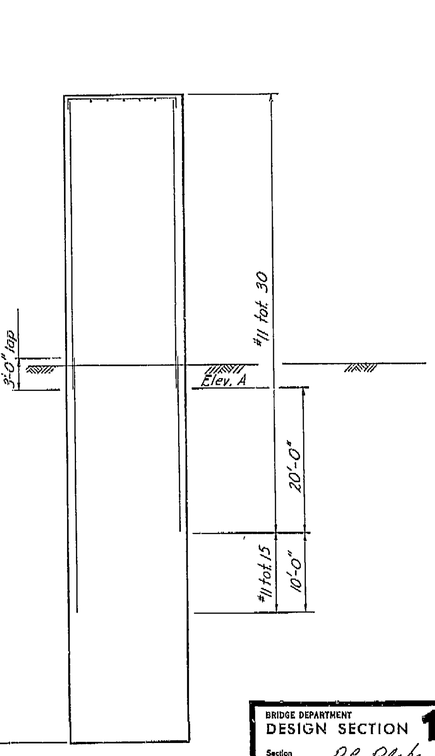
COLUMN TYPE 4



COLUMN TYPE 5



COLUMN TYPE 6



COLUMN TYPE 7

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 6000010178

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 6/29/66, AS SUBMITTED BY RESIDENT ENGINEER R. Arnett
TRACINGS CORRECTED BY: JS DATE: 7/7/66

SHEET	OF
79	87

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor: R.C. Blake

DESIGN	By C.S.H.-P.J.O.'K.	LOR BY
	Checked same	
DETAILS	By MIZUTANI	1-64
	Checked	
QUANTITIES	By D.R. Mann	1-64
	Checked P.A.	1-64

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

BENT COLUMNS 2

SCALE NONE | BRIDGE 42-226 R/L | FILE | DRAWING 42226-75

PRELIMINARY DRAWING No. P 1964 12 15 1

REVISION DATES

Disregard prints bearing earlier revision dates →

65

68

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-72 SIGNATURE [signature] TITLE SR. ENG.

MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM

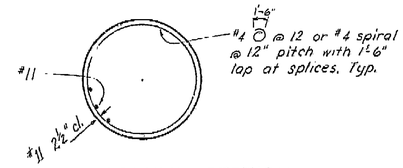
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FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.			

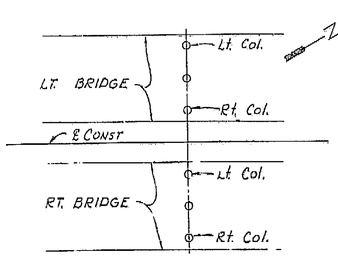
DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	FRE	41	21.9/22.1	84	161

BRIDGE ENGINEER — CIVIL ENGINEER — LICENSE 5545

DATE APPROVED: October 5, 1964



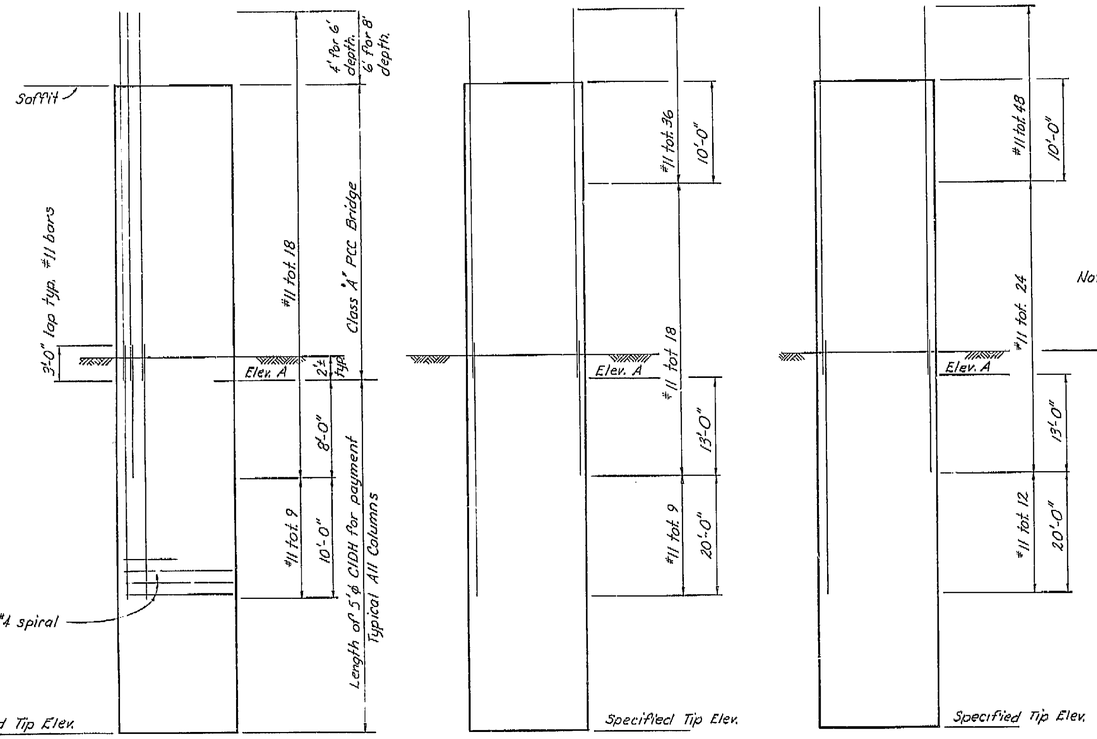
TYPICAL COLUMN SECTION



COLUMN LOCATION KEY

	Bents	Column Type	Elev. "A" (Lt. to Rt.)	Specified Tip Elevs.	"As Built" Tip Elev. (Lt to Rt.)
LEFT BRIDGE	3	5	280'	245'	248.2 245.4
	4	5	280'	240'	238.8 239.8
	5	3	280'	235'	232.3 230.3
	6	2	277'	230'	230.8 229.8
	7	5	276'	250'	240.2 238.6
	8	2	290', 288'	245'	244.3 245.3
	9	3	280'	245'	243.3 241.8
	10	5	282'	240'	235.6 238.3
	11	4	280~~282~~'	236'	238.4 234.1
	12	7	284'	245'	243.2 244.8
	13	2	284'	227'	226.6 226.5
	14	2	283'	225'	209.3 226.5
	15	2	288', 281'	235'	232.6 234.8
	16	5	290', 285'	230'	228.3 228.6
	17	6	288', 286'	215'	213.3 215.8
	18	5	288'	240'	239.4 236.8
RIGHT BRIDGE	3	1	280'	255'	253.8, 254.3, 251.2
	4	1	280'	250'	248.8, 250.4, 251.9
	5	1	277'	247'	245.8, 246.8, 246.6
	6	2	274', 274', 273'	242'	241.4, 239.8, 240.8
	7	5	275'	245'	241.3, 239.8, 241.2
	8	2	285', 284'	245'	244.8 241.8
	9	3	280'	243'	241.6 241.3
	10	3	282'	230'	229.6 227.8
	11	4	280~~284~~' 282	236'	235.8 234.2
	12	7	284'	253'	254.5 252.8
	13	2	284'	230'	229.2 228.8
	14	2	283'	233'	234.8 229.8
	15	2	281', 282'	253'	246.3 262.9
	16	5	281'	245'	243.2 244.8
	17	1	286'	250'	267.2 247.8 269.8
	18	1	286'	250'	250.8 249.2 249.1

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" CHANGES NOTED 4/29/66 AS SUBMITTED BY RESIDENT ENGINEER F. NAGAI
TRACINGS CORRECTED BY: AS DATE: 7/7/66



COLUMN TYPE 1 — COLUMN TYPE 2 — COLUMN TYPE 3

NOTE: Provide space for 6"ϕ drain as required - see "Structure Plans" for direction of outlet.

AS BUILT PLANS
Contract No. 14-0U4234
Date Completed
Document No. 6000 1078

BRIDGE DEPARTMENT DESIGN SECTION 15		
Section Supervisor: R.C. Blake		
DESIGN	By C.S.H.-P.U. OKM LDR	
	Checked SG	
DETAILS	By HIZUTANI	1-64
	Checked	
QUANTITIES	By D.P. Mann	1-64
	Checked B.H.	1-64

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

BENT COLUMNS 1

SCALE NONE | BRIDGE 42-226R/L | FILE | DRAWING 42226-74

SHEET 18 OF 87

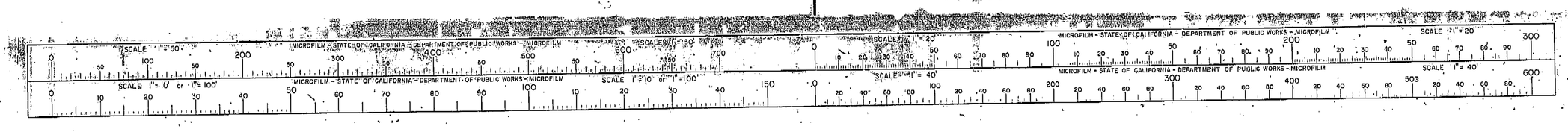
Disregard prints bearing earlier revision dates →

PRELIMINARY DRAWING No. PS 64-1 S 7

REVISION DATES

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-72 SIGNATURE Linda E. Cail TITLE Sr RMC

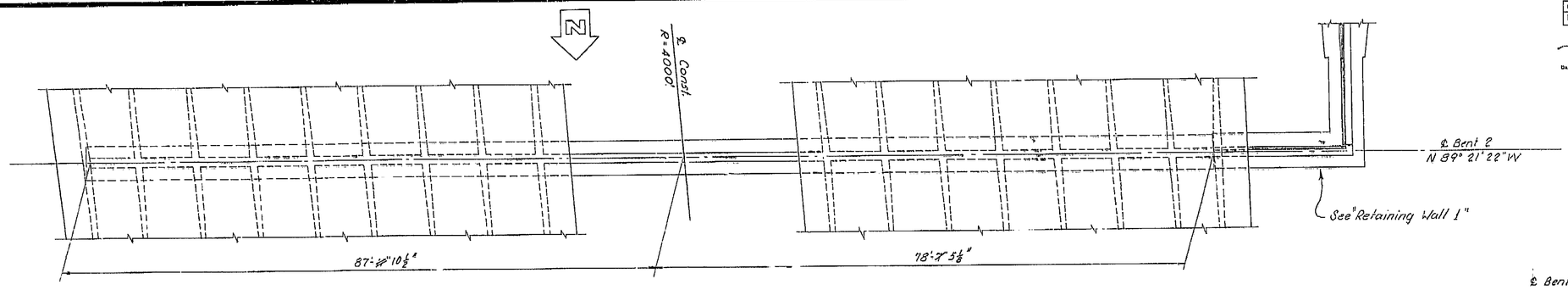


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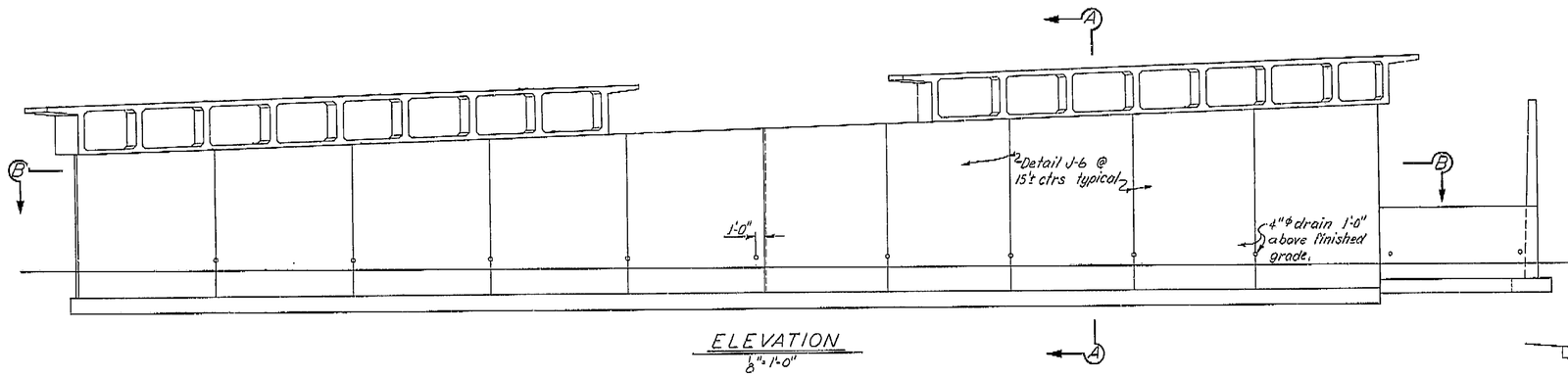
FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	~~41~~ 180	21.9/22.A	83	161

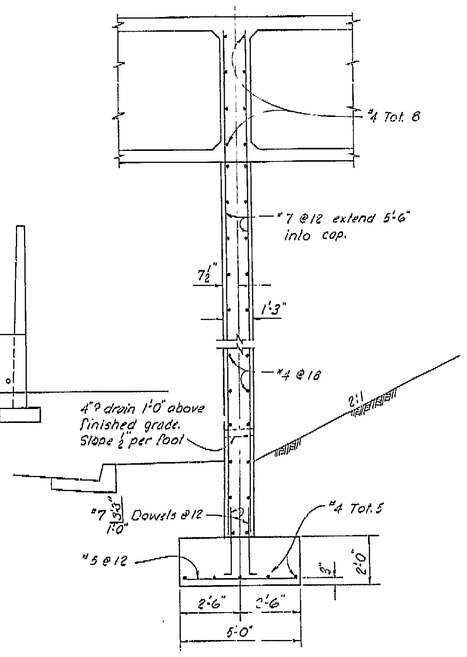
DATE APPROVED: October 5, 1964



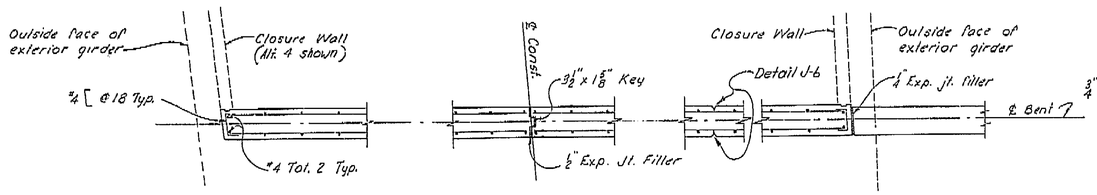
PLAN
⅛" = 1'-0"



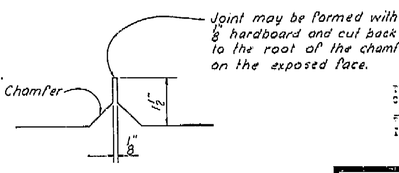
ELEVATION
⅛" = 1'-0"



SECTION A-A
½" = 1'-0"



SECTION B-B
⅜" = 1'-0"



DETAIL J-6
No Scale

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/29/66, AS SUBMITTED BY RESIDENT ENGINEER L. Hogan
TRACINGS CORRECTED BY: RS DATE: 7/7/66

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

SHEET	OF
17	87

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor R.C. Blake

DESIGN	By W.D. Banks	9-63
	Checked J.P. Hunter	1/64
DETAILS	By G. Nakayama	9/63
	Checked J.P. Hunter	1/64
QUANTITIES	By R.B. Black	12/63
	Checked D Sackwell	12/63

Disregard prints bearing earlier revision dates →

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

BENT 2

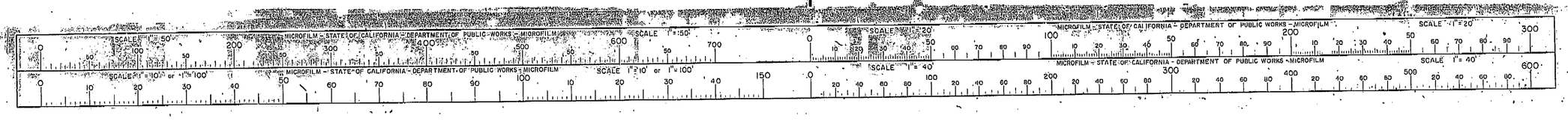
SCALE	BRIDGE	FILE	DRAWING
AS NOTED	42 226 R/L		42226-24

PRELIMINARY DRAWING No.	REVISION DATES
P 4-3-64	

83

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DATE 2-14-72 SIGNATURE [signature] TITLE SR (K)MC

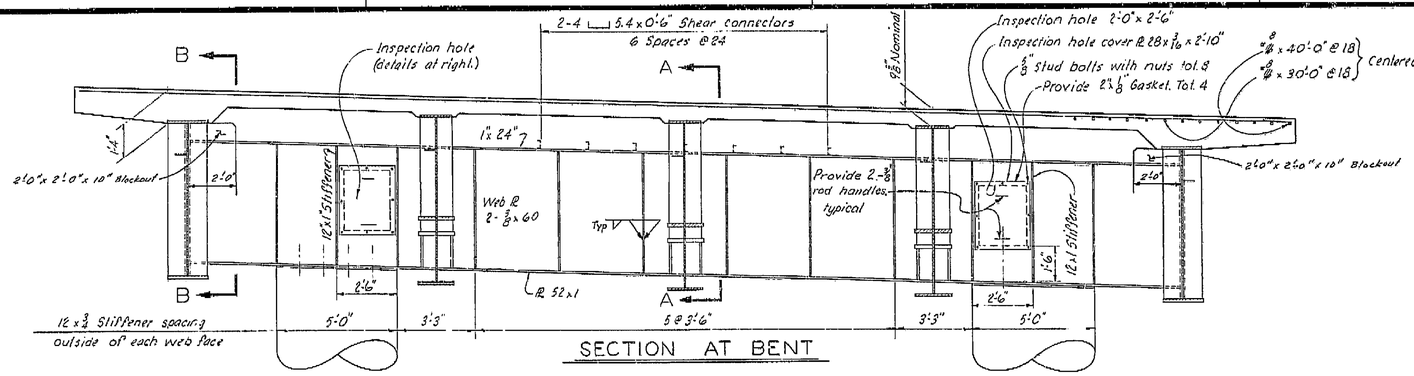


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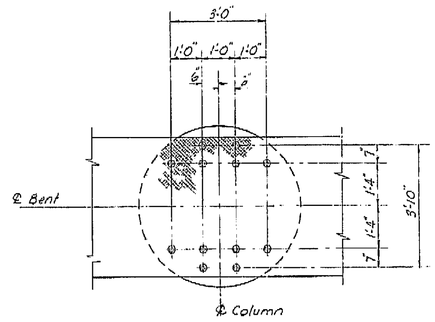
FED. ROAD DIST. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	41	21G/22T	142	161

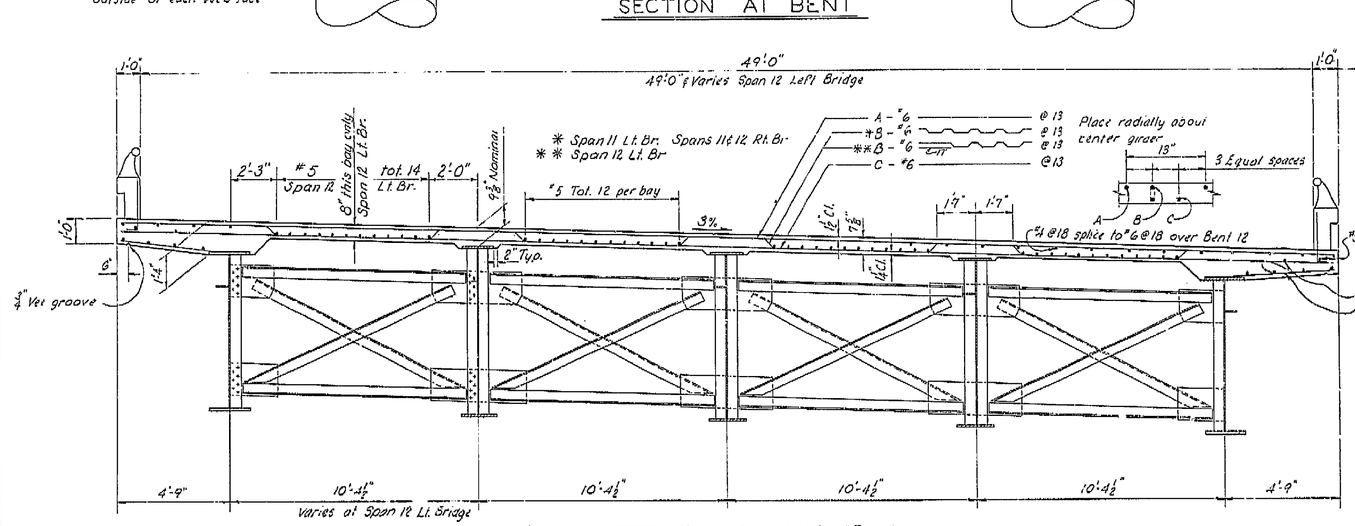
DATE APPROVED: October 5, 1964



SECTION AT BENT

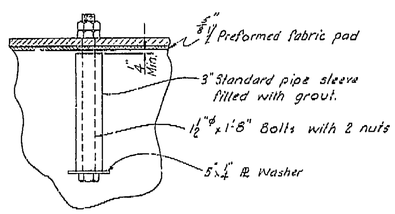


PLAN
1/2" = 1'-0"

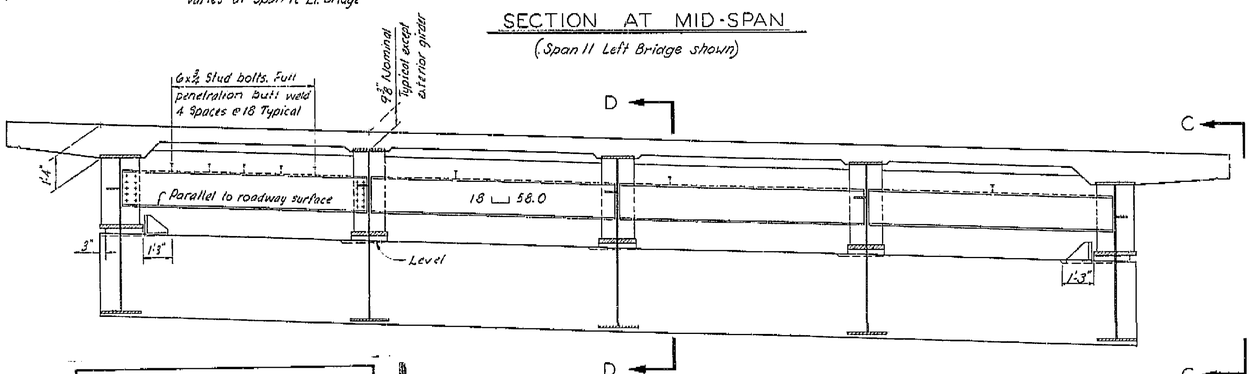


SECTION AT MID-SPAN
(Span 11 Left Bridge shown)

TOP OF CONCRETE COLUMN ELEVS.		
	℄ Lt. Column	℄ Rt. Column
Lt. Bridge	316.05	315.18
Rt. Bridge	313.70	312.83



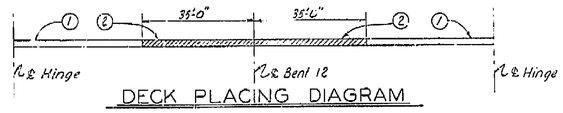
ELEVATION
1 1/2" = 1'-0"



SECTION AT HINGE

Note: For Sections A-A, B-B, C-C and D-D see "Steel Girder Details 1" Left Bridge shown Right Bridge similar.
Typical deck reinforcement shown in "Section at Mid-Span."

ANCHOR BOLT DETAILS



DECK PLACING DIAGRAM

Numbers (1) and (2) indicate sequence of placing deck slab concrete. (2) may be placed simultaneously with (1) when approved by the Engineer, and provided that the (1) sections are placed in adjoining spans.

For any deviation from the above the contractor shall submit a diagram to the Engineer for approval

SHEET 76 OF 87

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/28/66 AS SUBMITTED BY RESIDENT ENGINEER F. Nasini
TRACINGS CORRECTED BY: AS DATE: 7/2/66

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor R.C. Blake

DESIGN	By S.	Checked Kirchhoff 2-64	
DETAILS	By G. Nadzyanas 10/63	Checked Yan Hunt 3-64	
QUANTITIES	By D.P. Moore 3-64	Checked J.P. Hunter 3-64	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

TYPICAL SECTIONS - STEEL GIRDERS

EXCEPT AS NOTED SCALE 3/8"=1'-0" | BRIDGE 42-226 R/L | FILE | DRAWING 42226-62

PRELIMINARY DRAWING No. P 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34

REVISION DATES

Disregard prints bearing earlier revision dates

AS BUILT PLANS
Contract No. 14-0J4234
Date Completed
Document No. 60001078

142

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-72 SIGNATURE Howard E. Gault TITLE Sr. Bridge Engr.

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

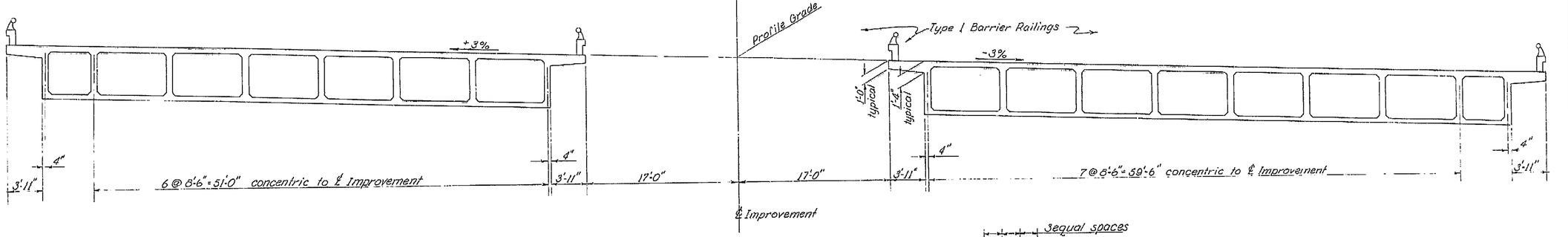
ClibPDF - www.fastio.com

FED. ROAD DIV. No.	STATE	F. A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	FRE	41	39/65	95	161

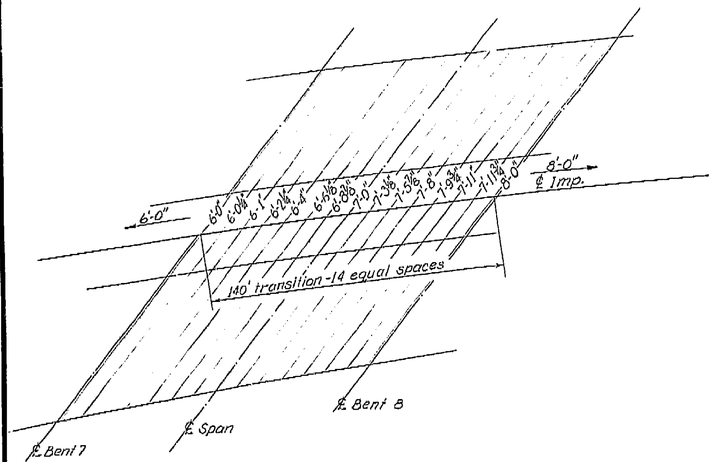
Bruno Swanek CIVIL ENGINEER—LICENSE 5005

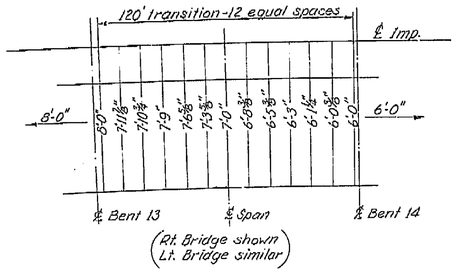
DATE APPROVED October 5 1964



TYPICAL SECTION AT STA. 1178+00

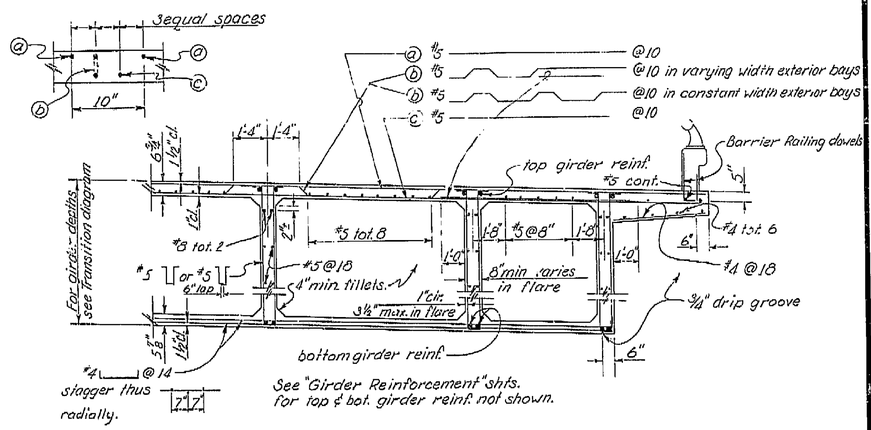
3/16" = 1'-0"





STRUCTURE DEPTH TRANSITIONS

no scale



PART SECTION

3/8" = 1'-0"

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/29/66, AS SUBMITTED BY RESIDENT ENGINEER E. Unger
TRACINGS CORRECTED BY: AS DATE: 7/2/66

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

SHEET	OF
39	87

BRIDGE DEPARTMENT		
DESIGN SECTION 15		
Section Supervisor	R E Clarke	
DESIGN	By	Vernon G. Bonds 10-63
	Checked	D P Mason 1-64
DETAILS	By	V.G. Bonds 10-63
	Checked	D P Mason 1-64
QUANTITIES	By	various
	Checked	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

TYPICAL SECTION-CONCRETE GIRDERS

SCALE	BRIDGE	FILE	DRAWING
As noted	42-226 R/L		12226-19

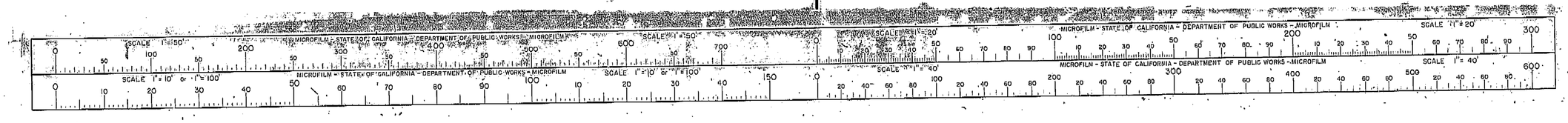
Disregard prints bearing earlier revision dates

PRELIMINARY DRAWING No.	REVISION DATES
P-[illegible]	

95

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DATE 2-14-72 SIGNATURE Homer E. Caul TITLE SR. (illegible)

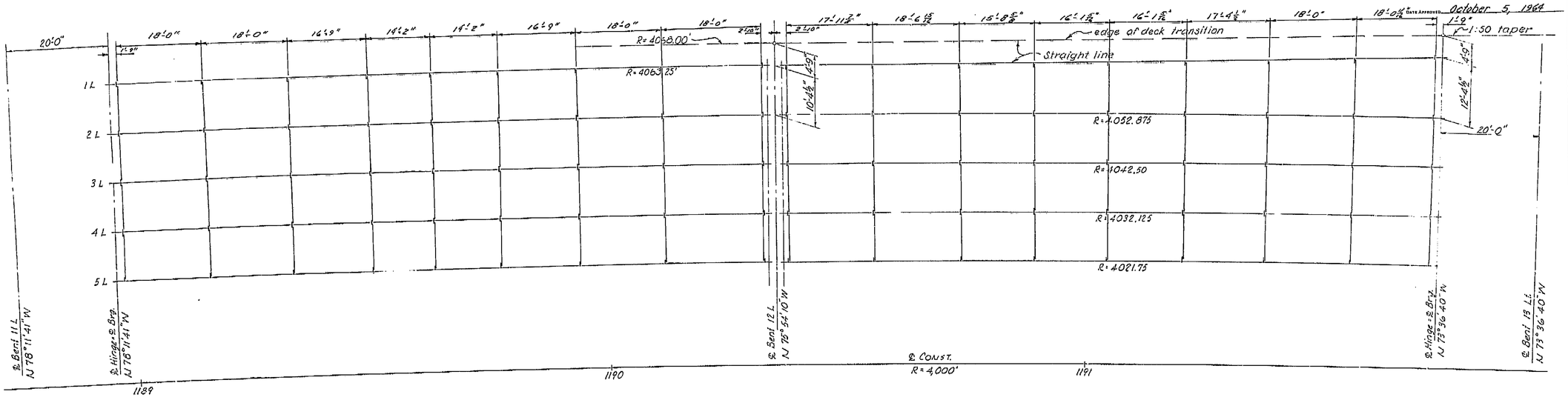


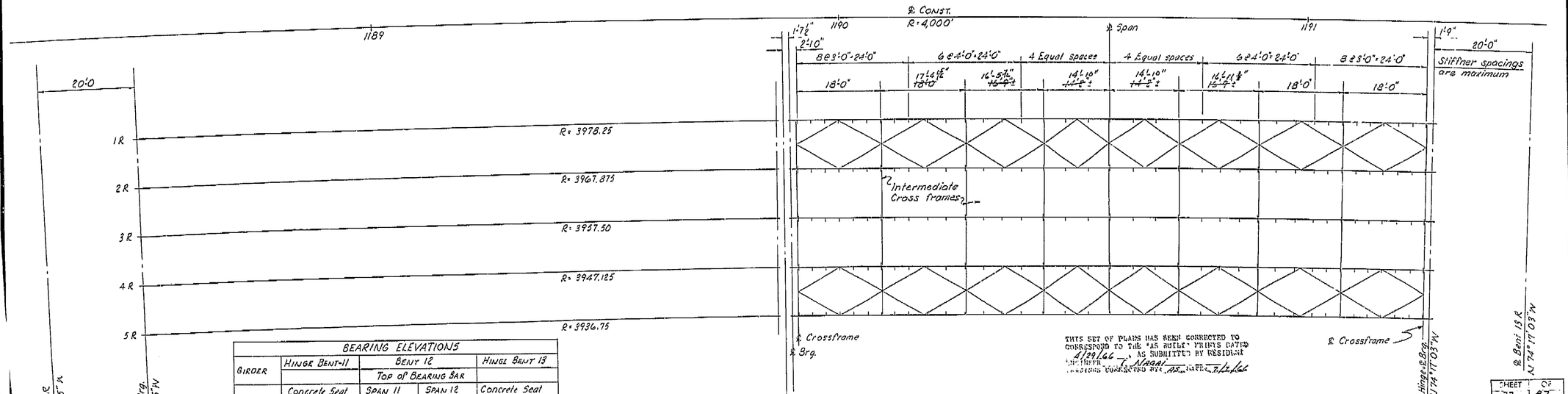
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FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	~~41~~ 119	22L	143	161

October 5, 1964
Bridge Engineer — Civil Engineer—License 5565





AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

143

BEARING ELEVATIONS

GIRDER	HINGE BENT-11	BENT 12		HINGE BENT 13
		Top of Bearing Bar		
	Concrete Seat	SPAN 11	SPAN 12	Concrete Seat
1 L	319.37			~~317.28~~ 318.02
2 L	319.09	318.07	318.04	317.67
3 L	318.78	317.76	317.73	317.36
4 L	318.46	317.44	317.41	317.04
5 L	318.15			316.73
1 R	316.76			315.86
2 R	316.47	315.71	315.69	315.58
3 R	316.15	315.39	315.37	315.26
4 R	~~315.84~~ 315.84	315.08	315.06	314.95
5 R	~~315.83~~ 315.53			314.64

Note: Span 12 shown. Other spans similar
Place intermediate crossframes radially. Spacings shown are along left exterior girder of each bridge.

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/29/66, AS SUBMITTED BY RESIDENT ENGINEER J. Nagai
CONTRACT CORRECTED PER "AS BUILT" PRINTS DATED 4/29/66

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor R.C. Blake

DESIGN	By B.L. Fraser	10-63
	Checked C. Hirschfeld	3-64
DETAILS	By G. Nilsson	10/63
	Checked C. Hirschfeld	3-64
QUANTITIES	By D.R. Mason	3-64
	Checked J.P. Hunter	3-64

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

STEEL GIRDER LAYOUT

SCALE 1"= 10'-0" | BRIDGE 42-226 R/L | FILE | DRAWING 42226-63

PRELIMINARY DRAWING No. P 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57

REVISION DATES

Disregard prints bearing earlier revision dates →

SHEET 77 OF 187

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-72 SIGNATURE [signature] TITLE [illegible]

MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM
SCALE 1"= 50' SCALE 1"=100' SCALE 1"=20' SCALE 1"= 20'
SCALE 1"= 10' or 1"= 100' SCALE 1"=10' or 1"=100' SCALE 1"= 40' SCALE 1"= 40'

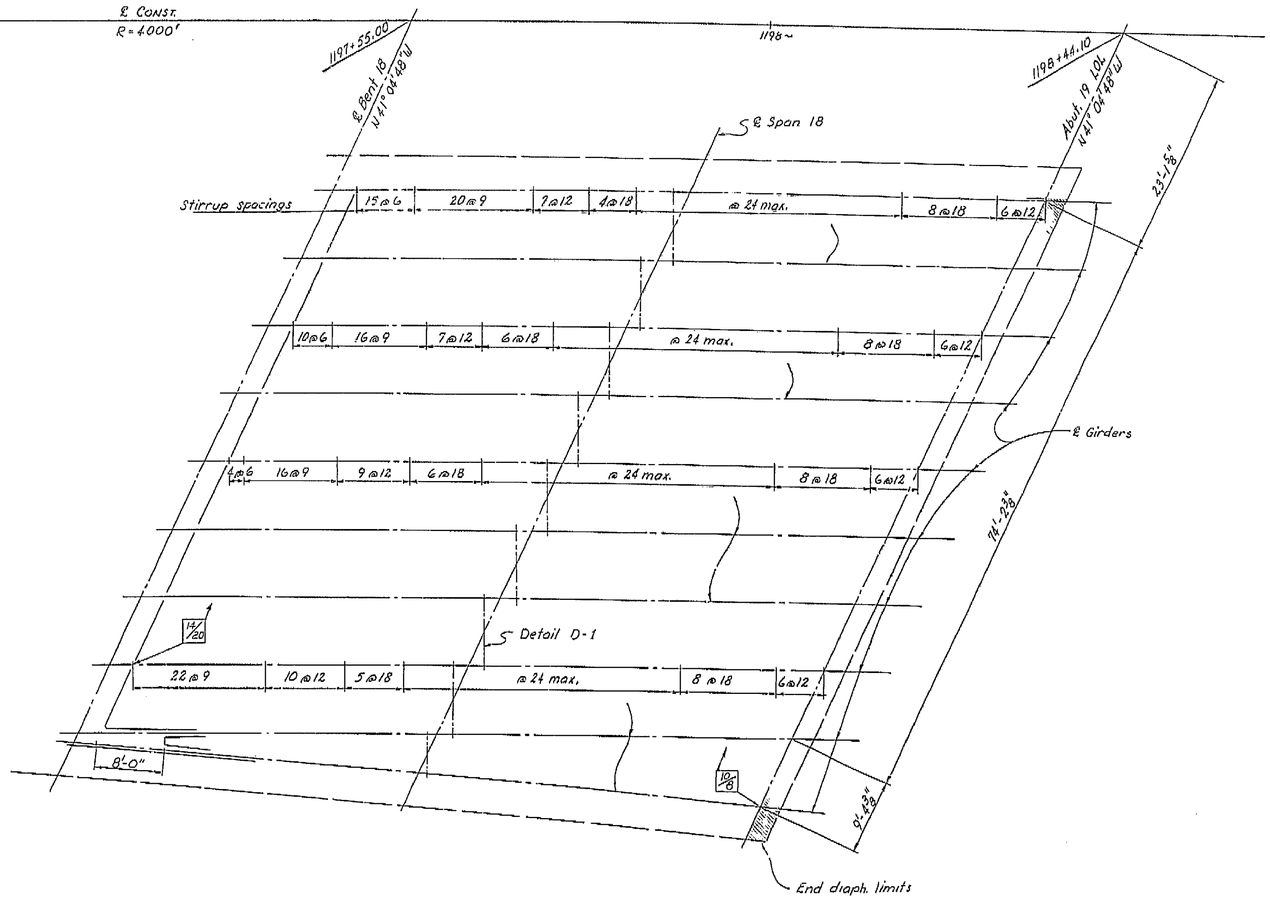
ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	P. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	5-41	27.9/28.7	109	161

BRIDGE ENGINEER — CIVIL ENGINEER—DEPUTY DIRS

DATE APPROVED: October 5, 1964



THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/29/66, AS SUBMITTED BY RESIDENT ENGINEER L. NAGAI
TRACINGS CORRECTED BY: AS DATE: 7/7/66

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

SHEET	OF
43	87

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor: R.C. Blake

DESIGN	By	P.J. Jurach	10/63
	Checked	L.D. Ricci	12-63
DETAILS	By	H.I.2 J.T.	8-63
	Checked	L.D. Ricci	12-63
QUANTITIES	By	L.D. Ricci	1-64
	Checked	D. R. Sudweeks	1-64

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

GIRDER LAYOUT 7 (RT. BR.)

SCALE 1/8" = 1'-0" | BRIDGE 42-226R/L | FILE | DRAWING 42226-18

PRELIMINARY DRAWING No.	REVISION DATES
P. 12/6/62 12/16/63	MAR 6 64

Disregard prints bearing earlier revision dates

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DATE 2-14-72 SIGNATURE [signature] TITLE SR. RMC

109

MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM
SCALE 1" = 50' or 1" = 100'
SCALE 1" = 20'
SCALE 1" = 40'

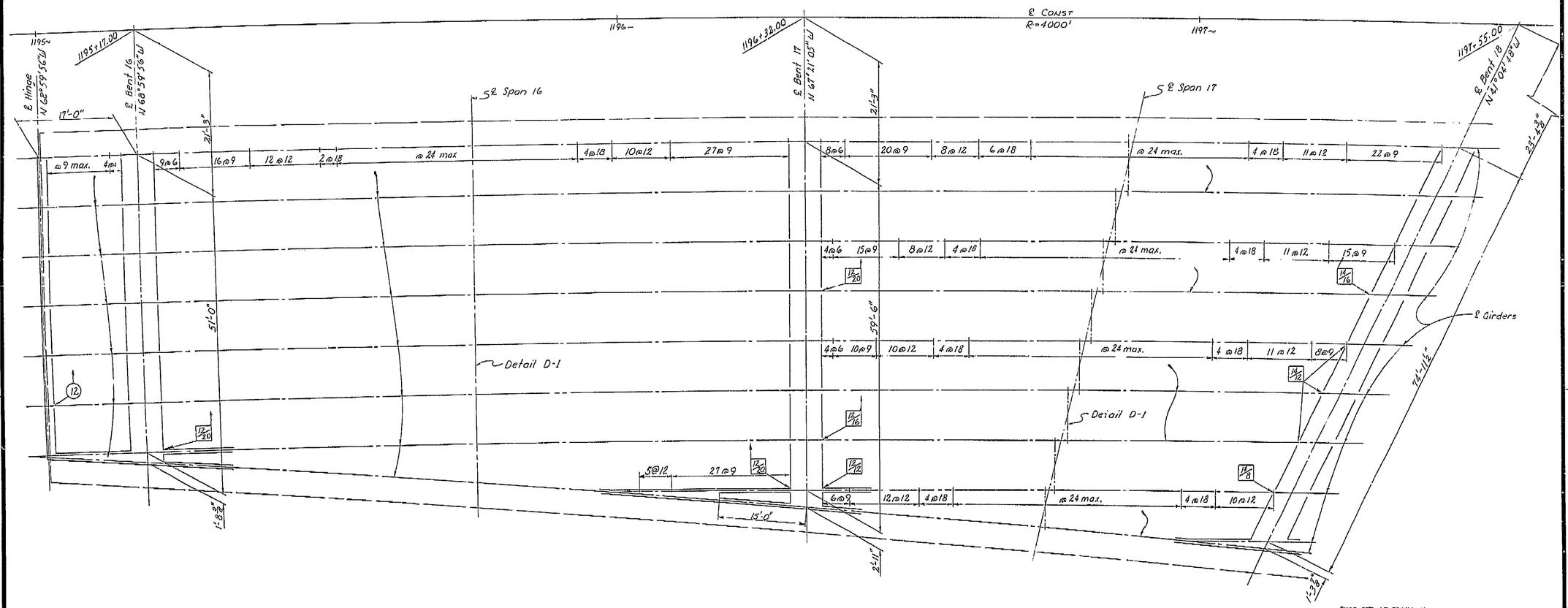
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FED. ROAD DIV. No.	STATE	P. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	41	21.8/22.7	108	151

RESIDENT ENGINEER — CIVIL ENGINEER — LOCAL ROAD

DATE APPROVED: October 5, 1964



THIS SET OF PLANS HAS BEEN CORRECTED TO CONFORM TO THE "AS BUILT" PRINTS DATED 4/29/66 AS SUBMITTED BY RESIDENT ENGINEER E. Lopez
TRACINGS CORRECTED BY: AS DATED 7/1/66

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

108

SHEET	OF
42	87

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor R.C. Blake

DESIGN	By	P. Juroch	12/63
	Checked	L.D. Ricci	12-63
DETAILS	By	MIZUT	8-63
	Checked	L.D. Ricci	12-63
QUANTITIES	By	L.D. Ricci	1-64
	Checked	L.D. Ricci	1-64

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

GIRDER LAYOUT 6 (RT. BR.)

SCALE 1/8" = 1'-0" | BRIDGE 42-226 R/L | FILE | DRAWING 42226-17

Disregard prints bearing earlier revision dates →

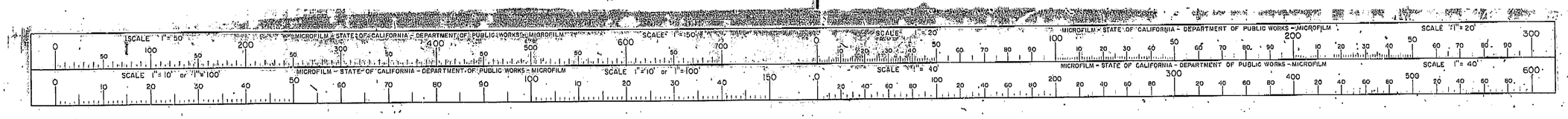
PRELIMINARY DRAWING No. P-65 12/22/64 1/7/64 (8) 1 8 8 1

REVISION DATES

91

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-72 SIGNATURE Lowell E. Coutt TITLE Sr. RMC



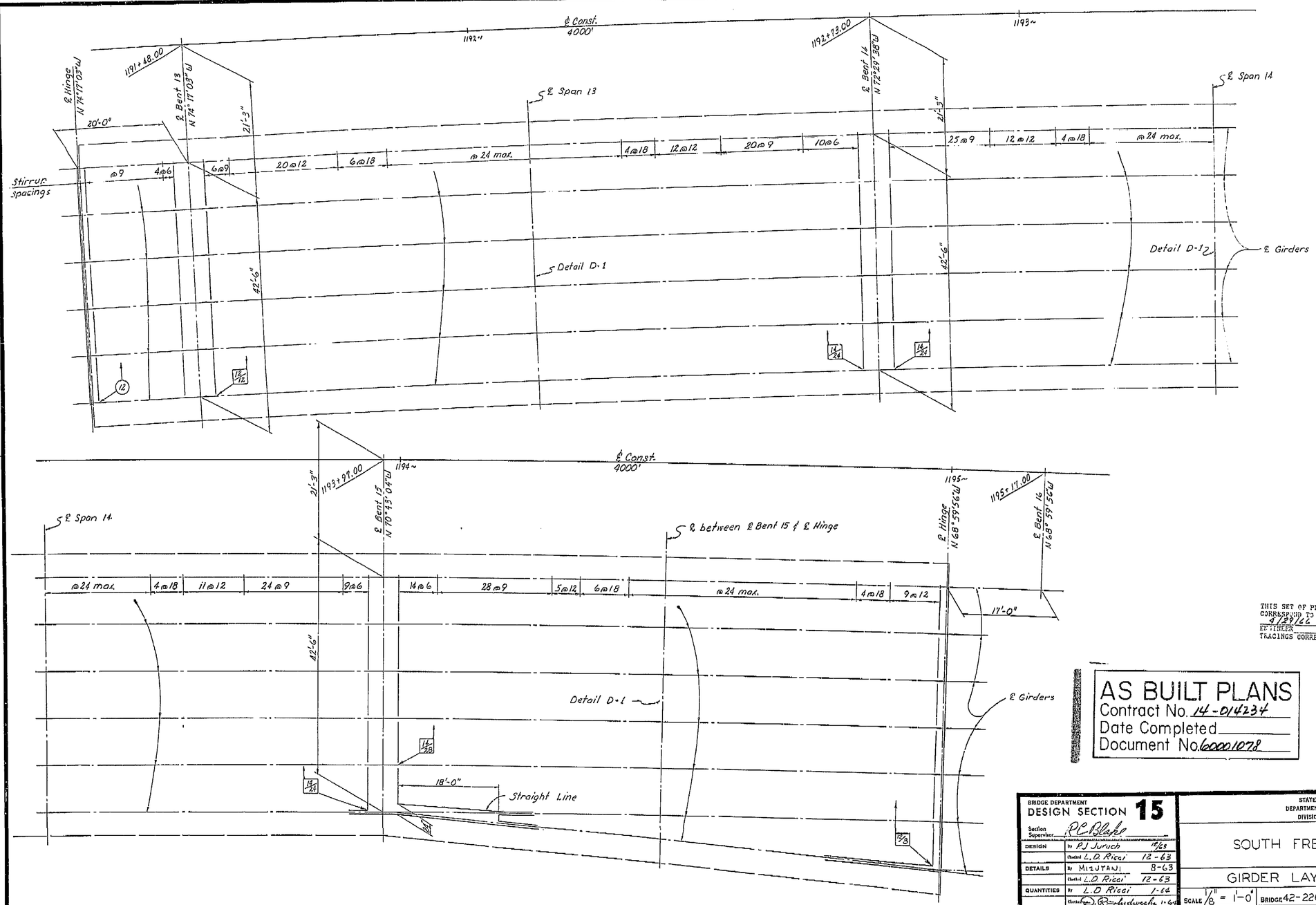
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FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.			

Dist.	County	Route	Section	Sheet No.	Total Sheets
VI	FRE	41	23/22Z	107	161

Bridge Engineer — City Engineer — License 5549

Date Approved: October 5, 1964



THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/29/22, AS SUBMITTED BY RESIDENT ENGINEER J. NASH.
TRACINGS CORRECTED BY: AS DATE: 7/2/22

AS BUILT PLANS
Contract No. 14-0J4234
Date Completed
Document No. 60001078

SHEET	OF
41	87

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor: R.C. Blasko

DESIGN	By P.J. Jurich	11-63
	Checked L.D. Ricci	12-63
DETAILS	By MIZUTANI	8-63
	Checked L.D. Ricci	12-63
QUANTITIES	By L.D. Ricci	1-64
	Checked R. Rinderknecht	1-64

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

GIRDER LAYOUT 5 (RT. BR.)

SCALE 1/8" = 1'-0" | BRIDGE 42-226 R/L | FILE | DRAWING 42226-16

Disregard prints bearing earlier revision dates →

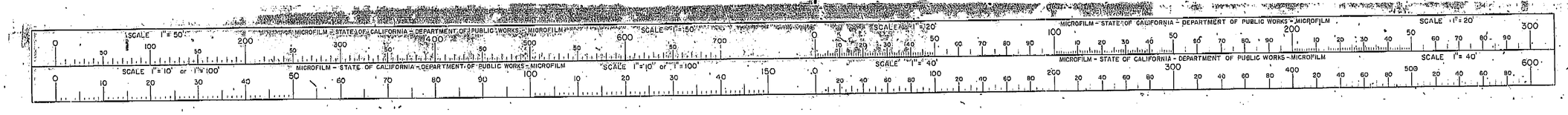
PRELIMINARY DRAWING No. P 8/31 9/22 10/9 11/65

REVISION DATES

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-22 SIGNATURE Thomas E Court TITLE SR RMO

107



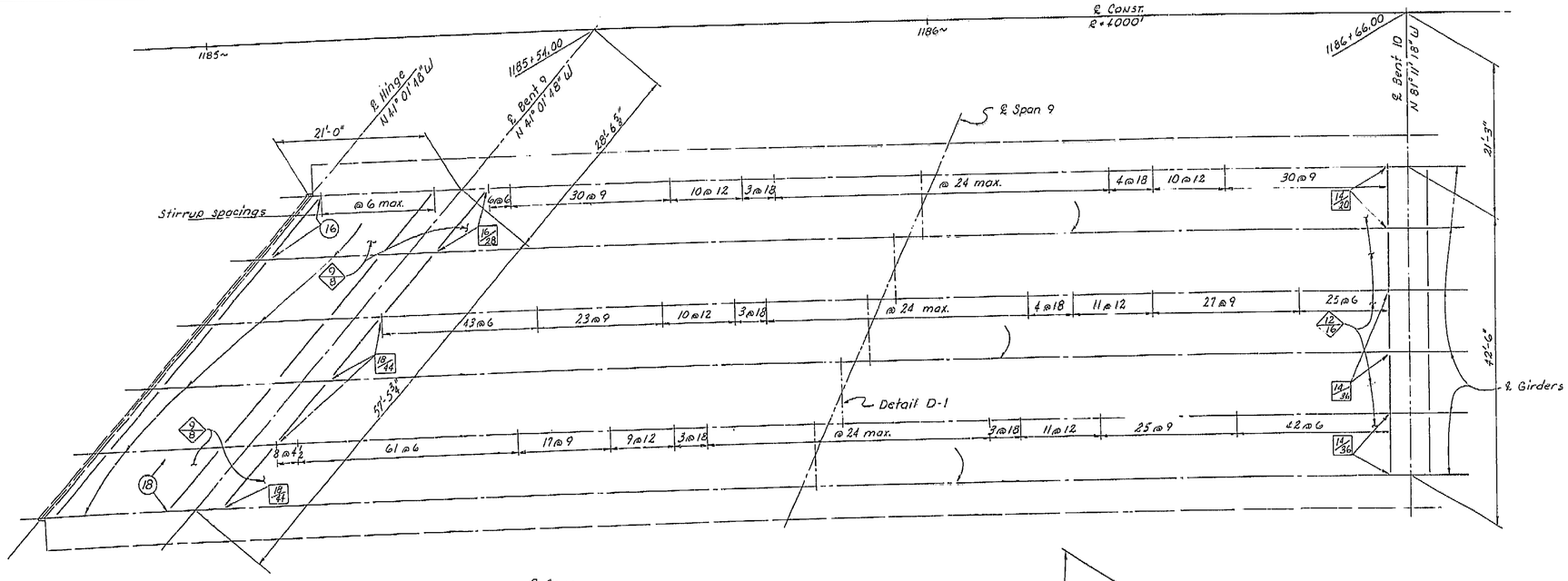
ClibPDF - www.fastio.com

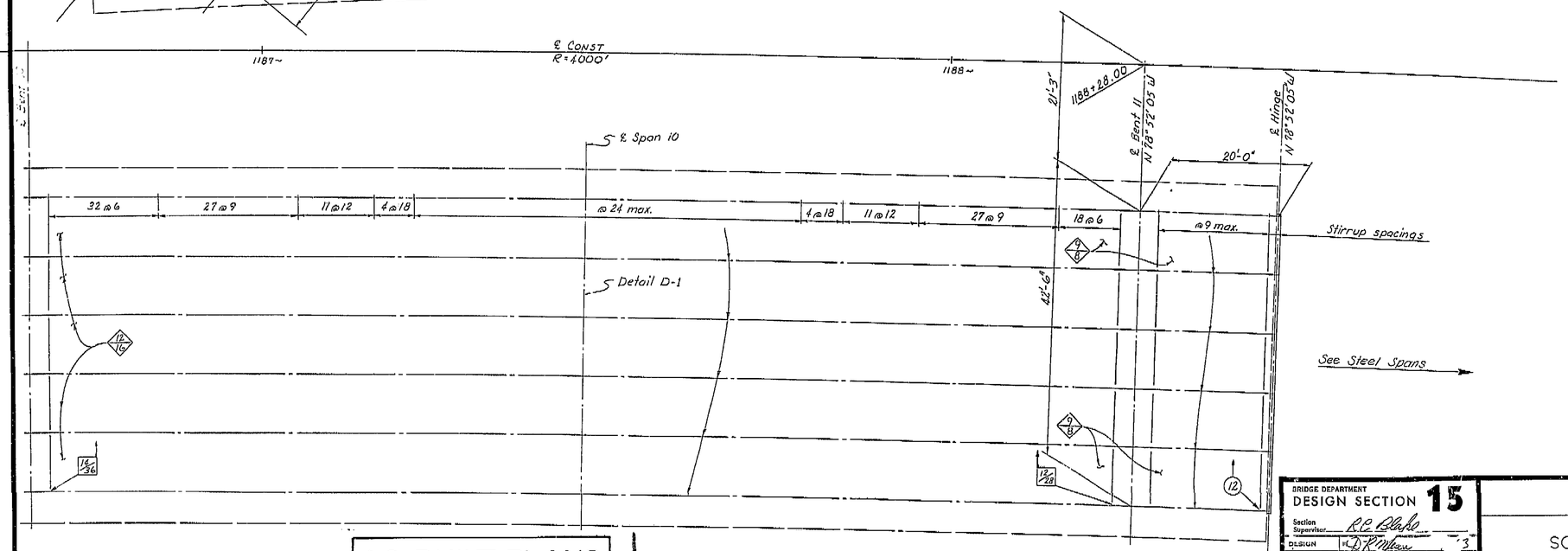
FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	~~41~~ 99	29/22.2	106	161

Division Engineer — Civil Engineer — Bridges

DATE APPROVED: October 5, 1964





See Steel Spans →

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 1/29/66, AS SUBMITTED BY RESIDENT ENGINEER I. Nunn
TRACINGS CORRECTED BY: RS DATE: 7/6/66

SHEET	OF
40	87

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor: R.C. Blake

DESIGN	By D.R. Mezey	3
	Checked C.S. Newhart	12-63
DETAILS	By MIZUTANI	8-63
	Checked C.J. Mansfield	12-63
QUANTITIES	By (W) R. Schroeder	1-64
	Checked J.P. Hunter	1-64

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

GIRDER LAYOUT 4 (RT. BR.)

SCALE 1/8" = 1'-0" | BRIDGE 42-226R/L | FILE | DRAWING 42226 - 15

PRELIMINARY DRAWING No. P 1/67 2/67 2/68 3/68 4/68 | REVISION DATES

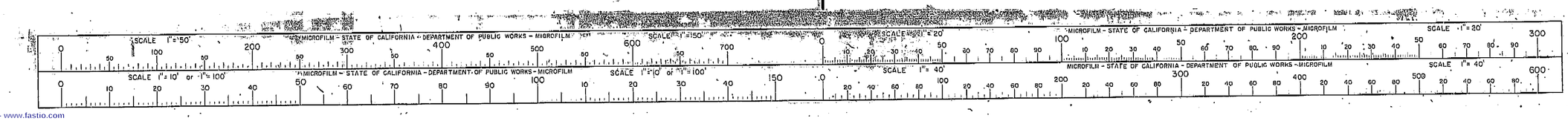
Disregard prints bearing earlier revision dates →

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

106

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-22 SIGNATURE James E. Coutt TITLE SR ENG

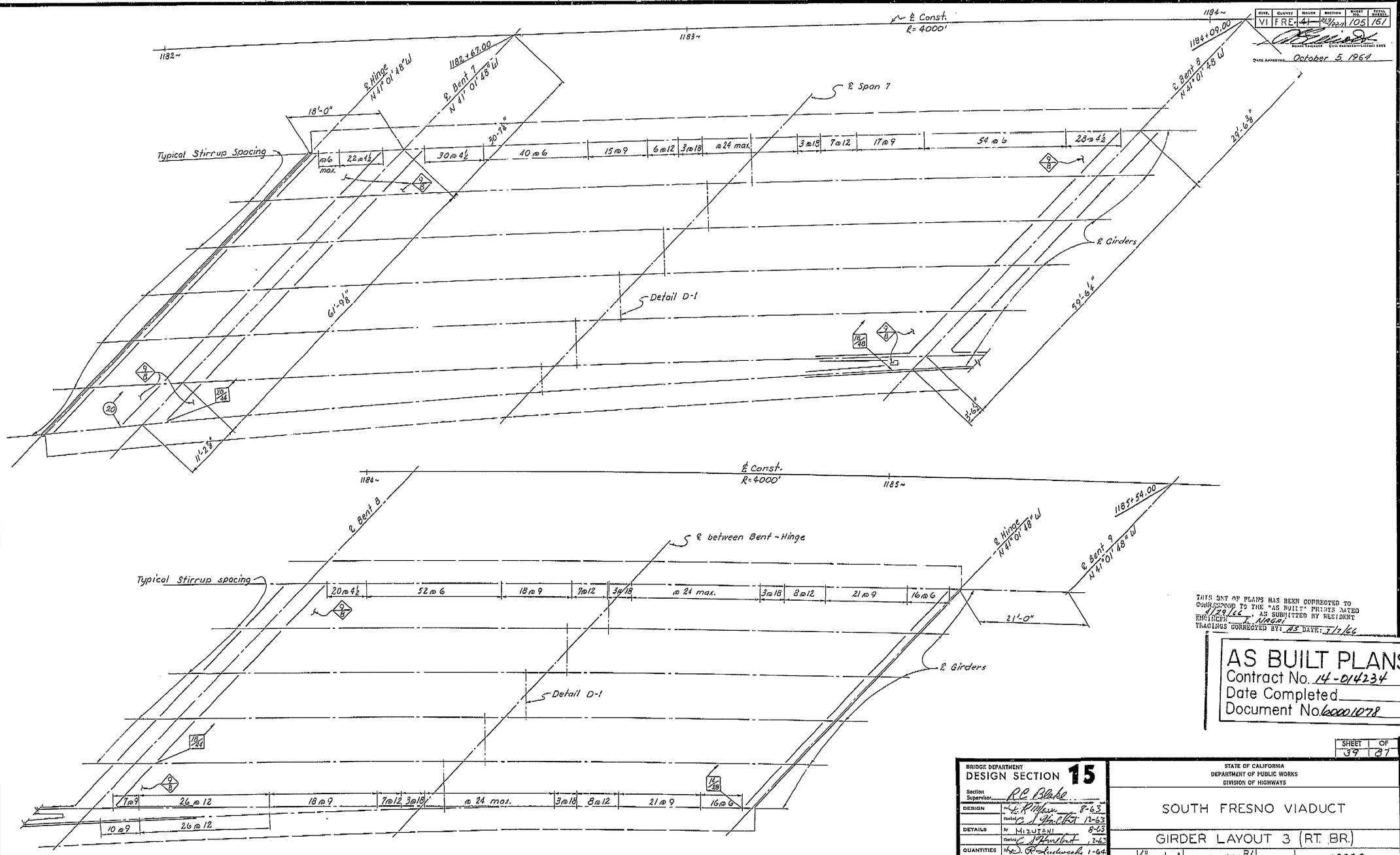


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FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	41	29.2-29.7	105	161

DATE APPROVED October 5, 1964



THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 1/28/66, AS SUBMITTED BY RESIDENT ENGINEER E. KIAGAI
TRACINGS CORRECTED BY: BB DATE: 7/7/66

AS BUILT PLANS
Contract No. 14-0J4234
Date Completed
Document No. 60001078

105

SHEET	OF
39	87

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor R.C. Blake

DESIGN	By	K. R. Mizuzani	8-63
	Checked	C. J. Hindley	12-63
DETAILS	By	MIZUZANI	8-63
	Checked	C. J. Hindley	2-64
QUANTITIES	By	W. E. Rockenwell	1-64
	Checked	J.P. Hunter	1-64

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

GIRDER LAYOUT 3 (RT. BR.)

SCALE 1/8" = 1'-0" | BRIDGE 42-226 R/L | FILE | DRAWING 42226-14

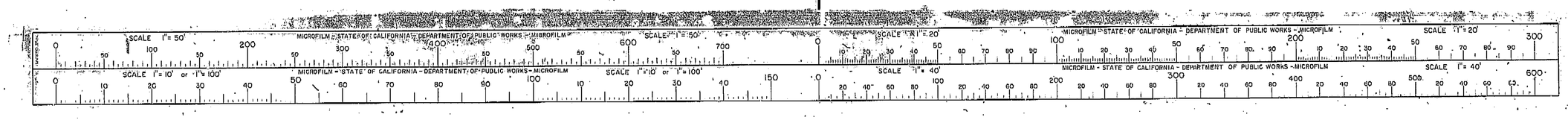
PRELIMINARY DRAWING No. P-18/63 1/28/64 1/4/64

REVISION DATES

Disregard prints bearing earlier revision dates →

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-72 SIGNATURE [signature] TITLE SR RMC



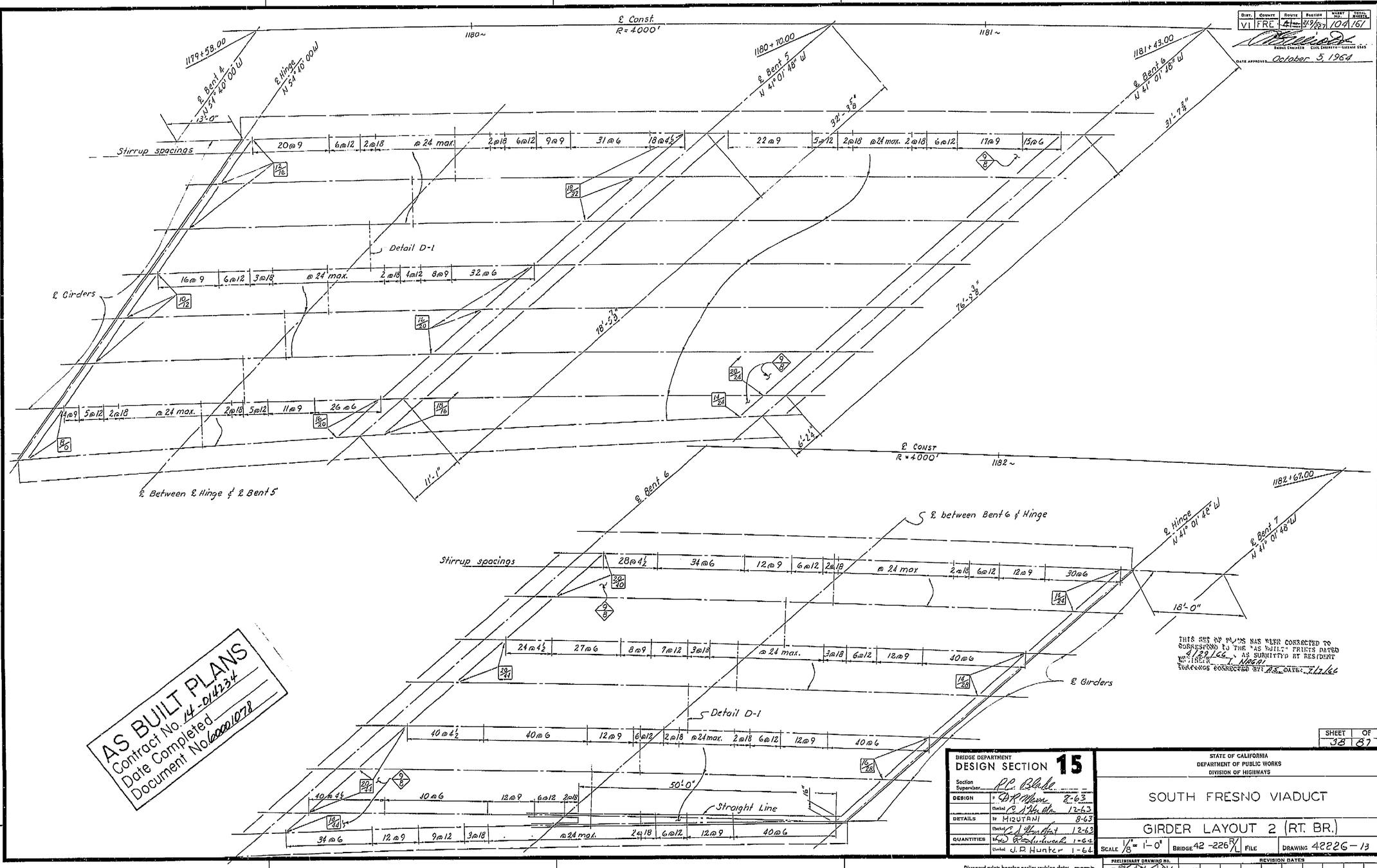
ClibPDF - www.fastio.com

FED. ROAD DIV. No.	STATE	F. A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	POSTMILE	SHEET NO.	TOTAL SHEETS
VI	FRE	41	8.9/22.7	104	161

RIDING ENGINEER — CIVIL ENGINEER—LICENSE 6365

DATE APPROVED October 5, 1964



AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 6000001078

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/22/66, AS SUBMITTED BY RESIDENT ENGINEER [illegible]
DRAWINGS CORRECTED BY [illegible] DATED 7/12/66

SHEET	OF
38	87

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor R.C. Blake

DESIGN	by D.R. Mann	8-63
	checked C.A. Yablonsky	12-63
DETAILS	by HIZUTANI	8-63
	checked C.J. Hawthorne	12-63
QUANTITIES	by R. Sadowski	1-64
	checked J.P. Hunter	1-64

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

GIRDER LAYOUT 2 (RT. BR.)

SCALE 1/8" = 1'-0" | BRIDGE 42-226 R/L | FILE | DRAWING 42226-13

PRELIMINARY DRAWING No. P [illegible] | REVISION DATES | WR 1 SH

Disregard prints bearing earlier revision dates

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DATE 2-14-72 SIGNATURE [signature] TITLE SR R/W C

MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM

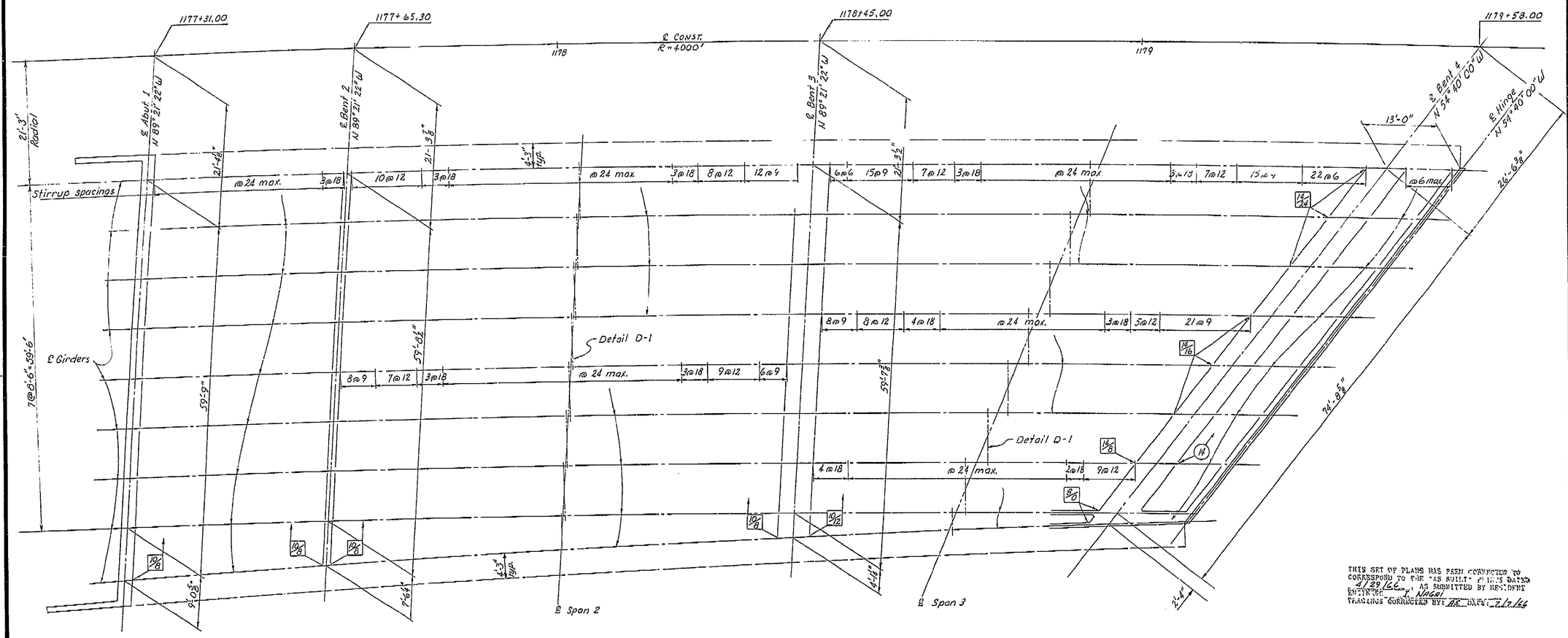
SCALE 1"= 50' | SCALE 1"= 20' | SCALE 1"= 10' or 1"= 100' | SCALE 1"= 40'

ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	BRIDGE NO.	TOTAL SHEETS
VI	FRE	41	21.8/22.0	103	161

DATE APPROVED October 5, 1964



AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

103

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PLANS DATED 4/29/66, AS SUBMITTED BY RESIDENT ENGINEER T. NAGAI
TRACING CORRECTED BY RS DATE: 7/2/66

SHEET	OF
37	87

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor R.C. Blake

DESIGN	By D.F. Meyers	8-63
	Checked [illegible]	12-63
DETAILS	By MIZUTANI	8-63
	Checked [illegible]	12-63
QUANTITIES	By D.F. Meyers Jr.	1-64
	Checked J.P. Hunter	1-64

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

GIRDER LAYOUT 1 (RT. BR.)

SCALE 1/8" = 1'-0" | BRIDGE 42-226 R/L | FILE | DRAWING 42226-12

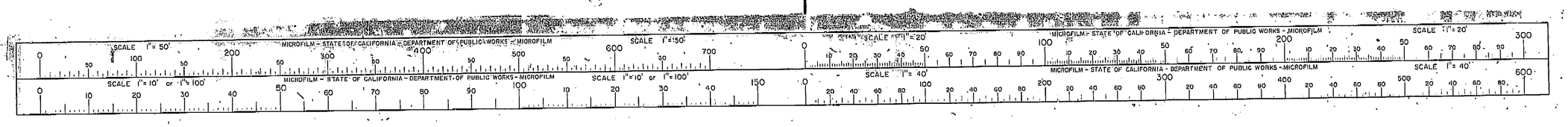
PRELIMINARY DRAWING No. P-X-13 D-52 X-8 1421 83

REVISION DATES

Disregard prints bearing earlier revision dates →

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-72 SIGNATURE [signature] TITLE SR KMIC

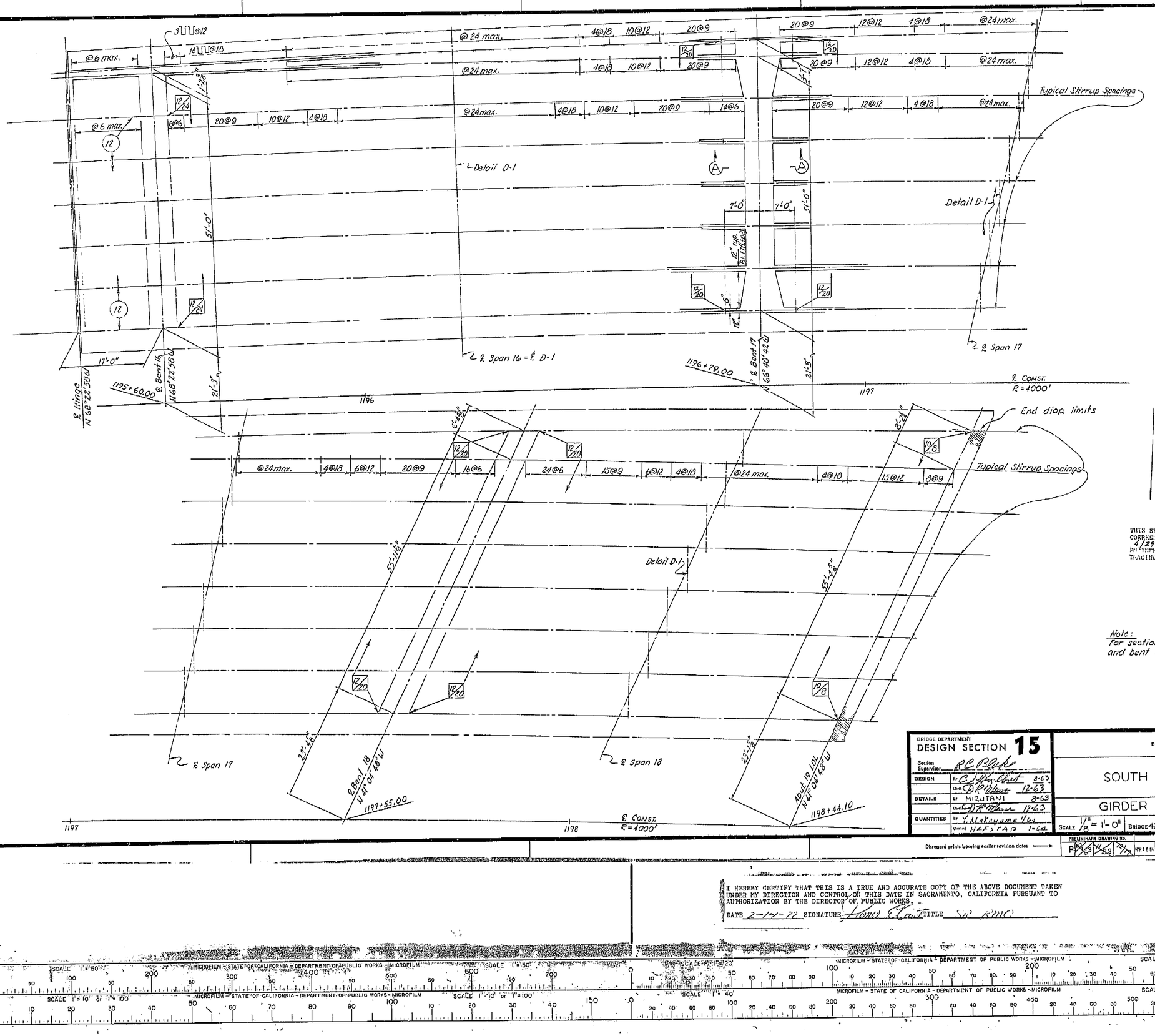


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FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	41-180	23/22.7	102	161

DATE APPROVED October 5 1964



SHEET	OF
36	87

BRIDGE DEPARTMENT DESIGN SECTION 15		
Section Supervisor	R C Blake	
DESIGN	By	C Hartshorn 8-63
	Check	D R Olsen 12-63
DETAILS	By	MIZUTANI 8-63
	Check	D R Olsen 12-63
QUANTITIES	By	Y. Nakayama 1/64
	Checked	HAF's FAP 1-64

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

GIRDER LAYOUT 6 (LT. BR.)

SCALE 1/8" = 1'-0" | BRIDGE 42-226 R/ | FILE | DRAWING 42226-11

Disregard prints bearing earlier revision dates →

PRELIMINARY DRAWING No.	REVISION DATES
P 1/63 11/63 2/64	

AS BUILT PLANS
Contract No. 14-0K4234
Date Completed
Document No. 60001078

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/29/66, AS SUBMITTED BY RESIDENT ENGINEER L. NAGAI
TRACINGS CORRECTED BY: AS DATE: 7/7/66

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.
DATE 2-14-72 SIGNATURE Howard E Cantle TITLE Sr Engr

102

85

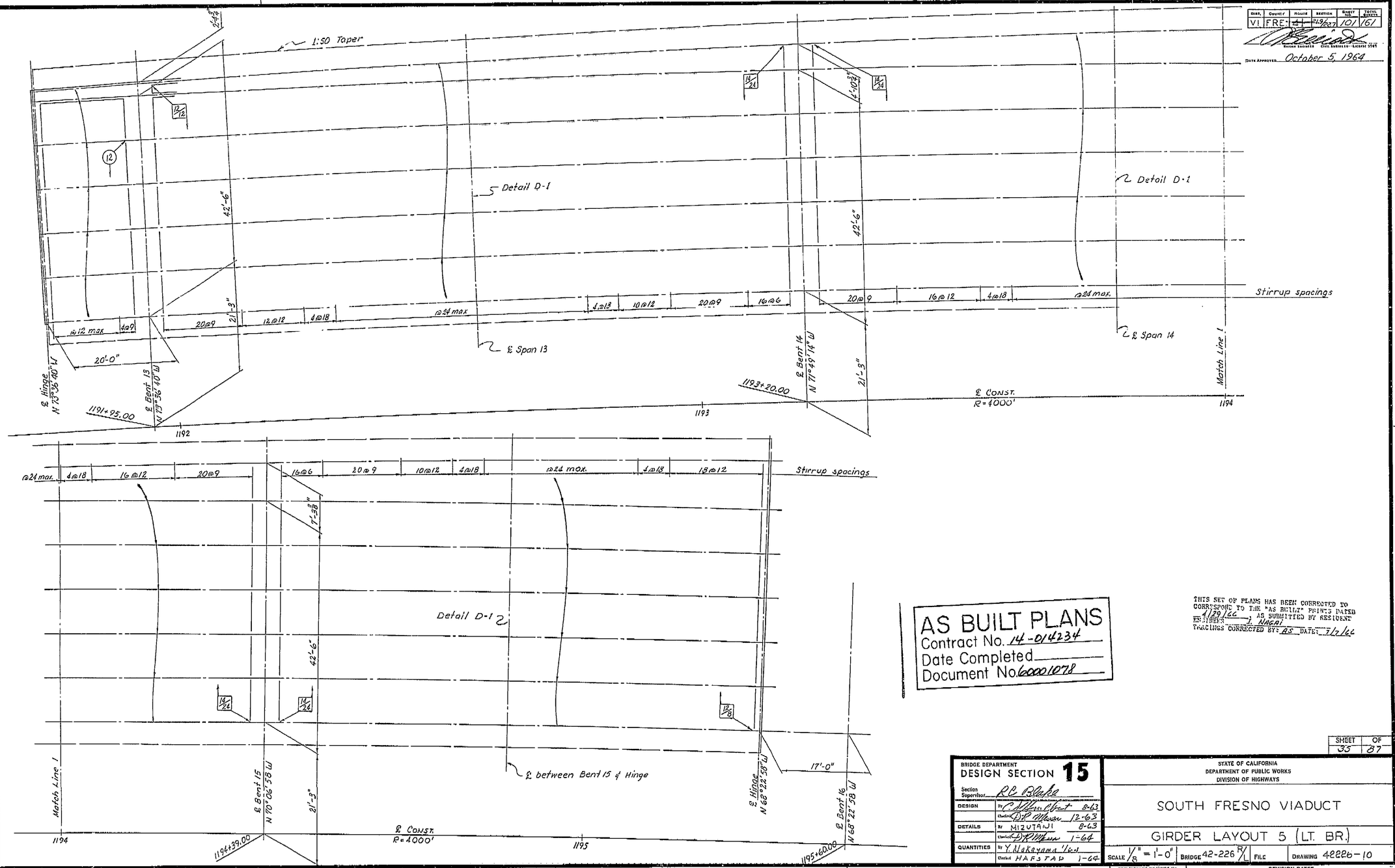
MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"=50' SCALE 1"=10' or 1"=100' SCALE 1"=20' SCALE 1"=40'

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FED. ROAD DIV. No.	STATE	F. A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	FRE	~~41~~ 180	21.9/22.7	101	167

Date Approved: October 5, 1964



AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 7/29/66 AS SUBMITTED BY RESIDENT ENGINEER L. WAGAI
TRACINGS CORRECTED BY: AS DATE: 7/2/66

SHEET	OF
35	87

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor: RL Blake

DESIGN	By: C Mizutani	8-63
	Checked: DR Mason	12-63
DETAILS	By: MIZUTANI	8-63
	Checked: DR Mason	1-64
QUANTITIES	By: Y Nakayama	1-64
	Checked: HAFSTAD	1-64

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

GIRDER LAYOUT 5 (LT. BR.)

SCALE 1/8" = 1'-0" | BRIDGE 42-226 R/L | FILE | DRAWING 4222B-10

PRELIMINARY DRAWING No. P 1 2 3 4 5 6 | REVISION DATES: WR 1 8 64

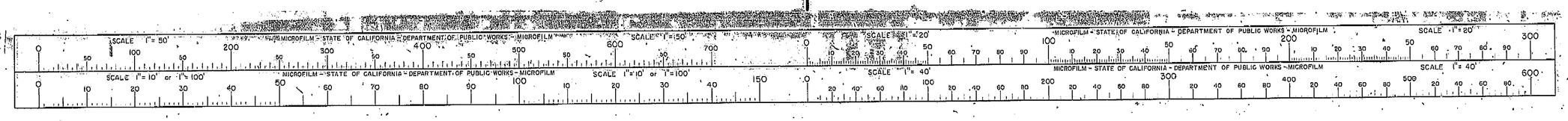
Disregard prints bearing earlier revision dates →

84

101

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DATE 2-14-72 SIGNATURE Thomas E Coutts TITLE SR ENG



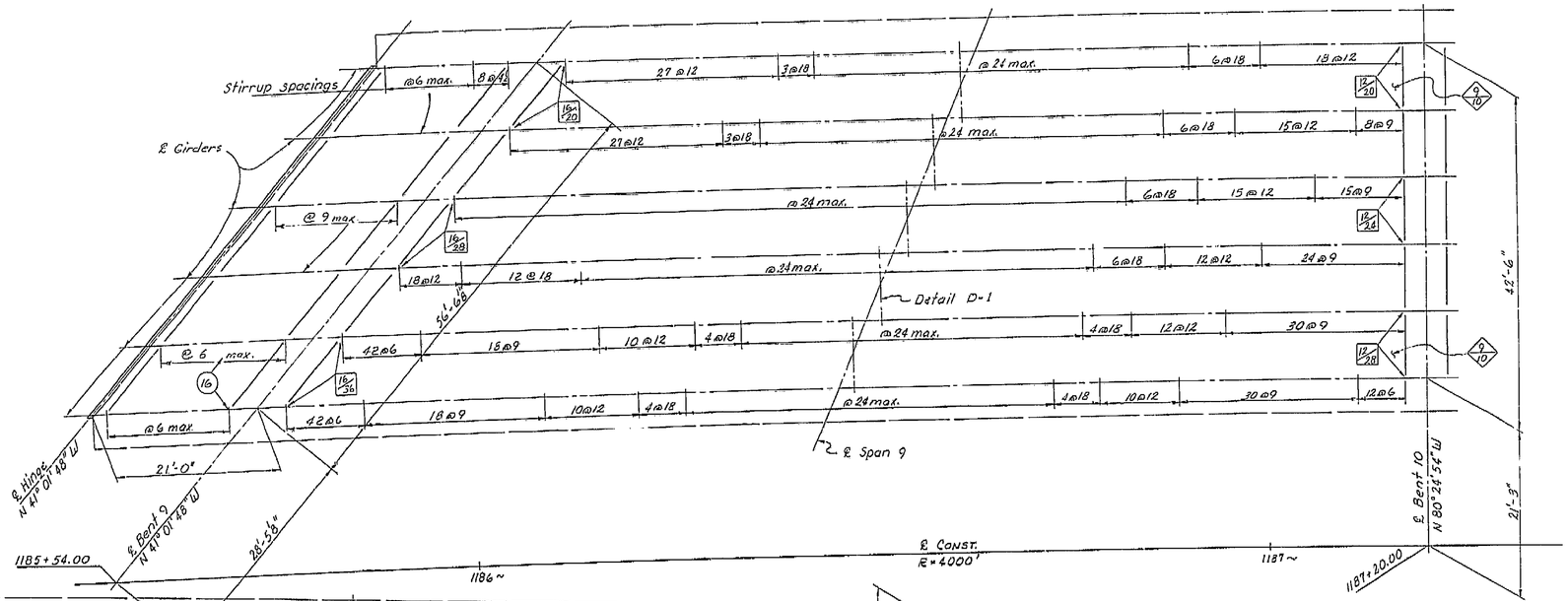
ClibPDF - www.fastio.com

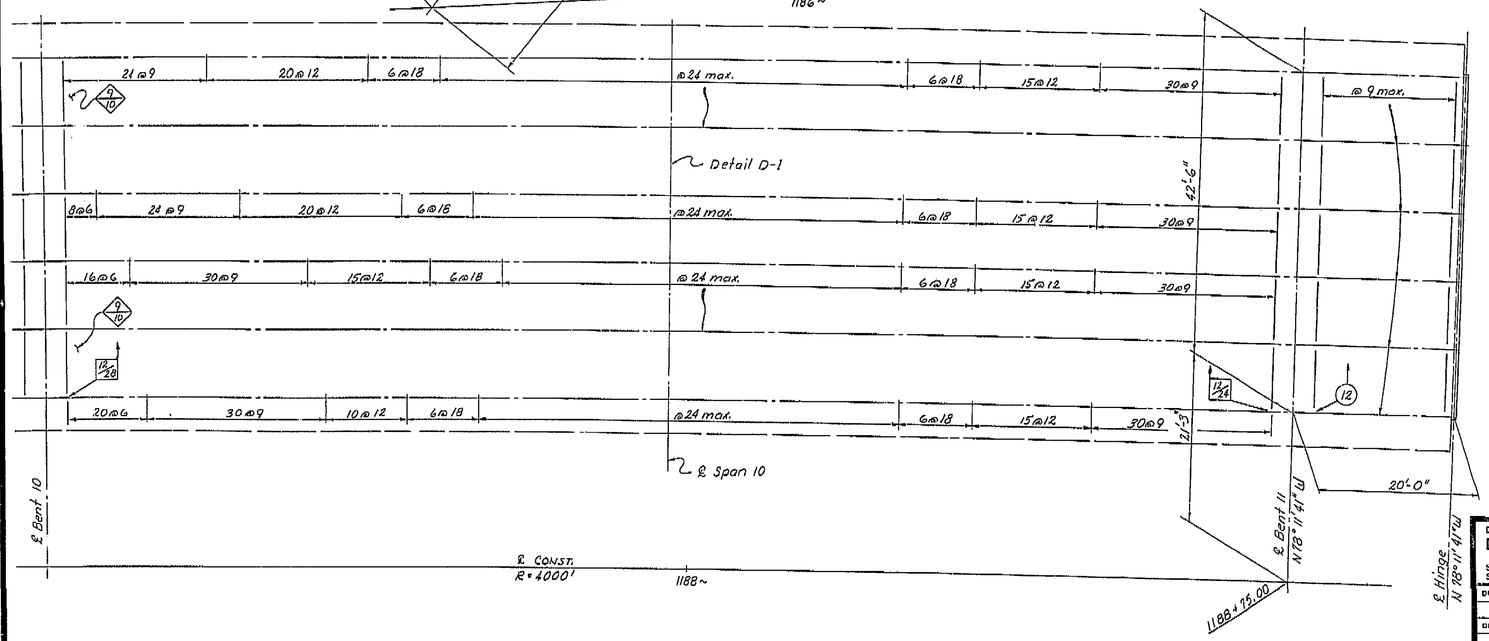
FED. ROAD DIV. No.	STATE	P. A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.			

Dist.	County	Route	Section	Sheet No.	Total Sheets
VI	FRE.	~~41~~ 24	29.2	100	167

BRIDGE ENGINEER — CIVIL ENGINEER—LICENSE 5585

DATE APPROVED October 5, 1964





See Steel Spans

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 1/29/66, AS SUBMITTED BY RESIDENT ENGINEER T. Nagai
TRACINGS CORRECTED BY RS DATE: 7/7/66

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

SHEET	OF
34	87

BRIDGE DEPARTMENT DESIGN SECTION 15		
Section Supervisor	RP Blake	
DESIGN	by L.D. Ricci	12/63
	checked PJ Juroch	12/63
DETAILS	by MIZUTANI	0 63
	checked PJ Juroch	12/63
QUANTITIES	by Y Nakayama	1/64
	checked [illegible]	1/64

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

GIRDER LAYOUT 4 (LT. BR.)

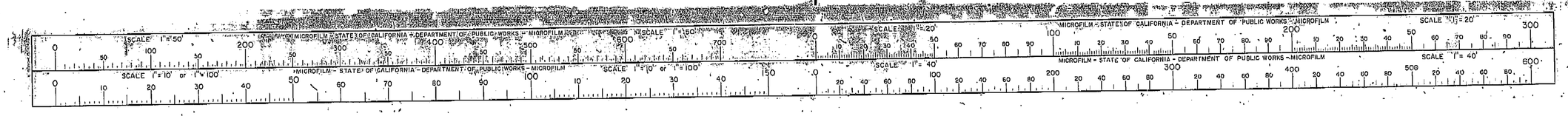
SCALE	BRIDGE	FILE	DRAWING
1/8" = 1'-0"	42-226 R/L		42226-9

PRELIMINARY DRAWING No.	REVISION DATES
P 1/63 2/63 NOV 1 64	

Disregard prints bearing earlier revision dates

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DATE 2-14-72 SIGNATURE [signature] TITLE SR RMO



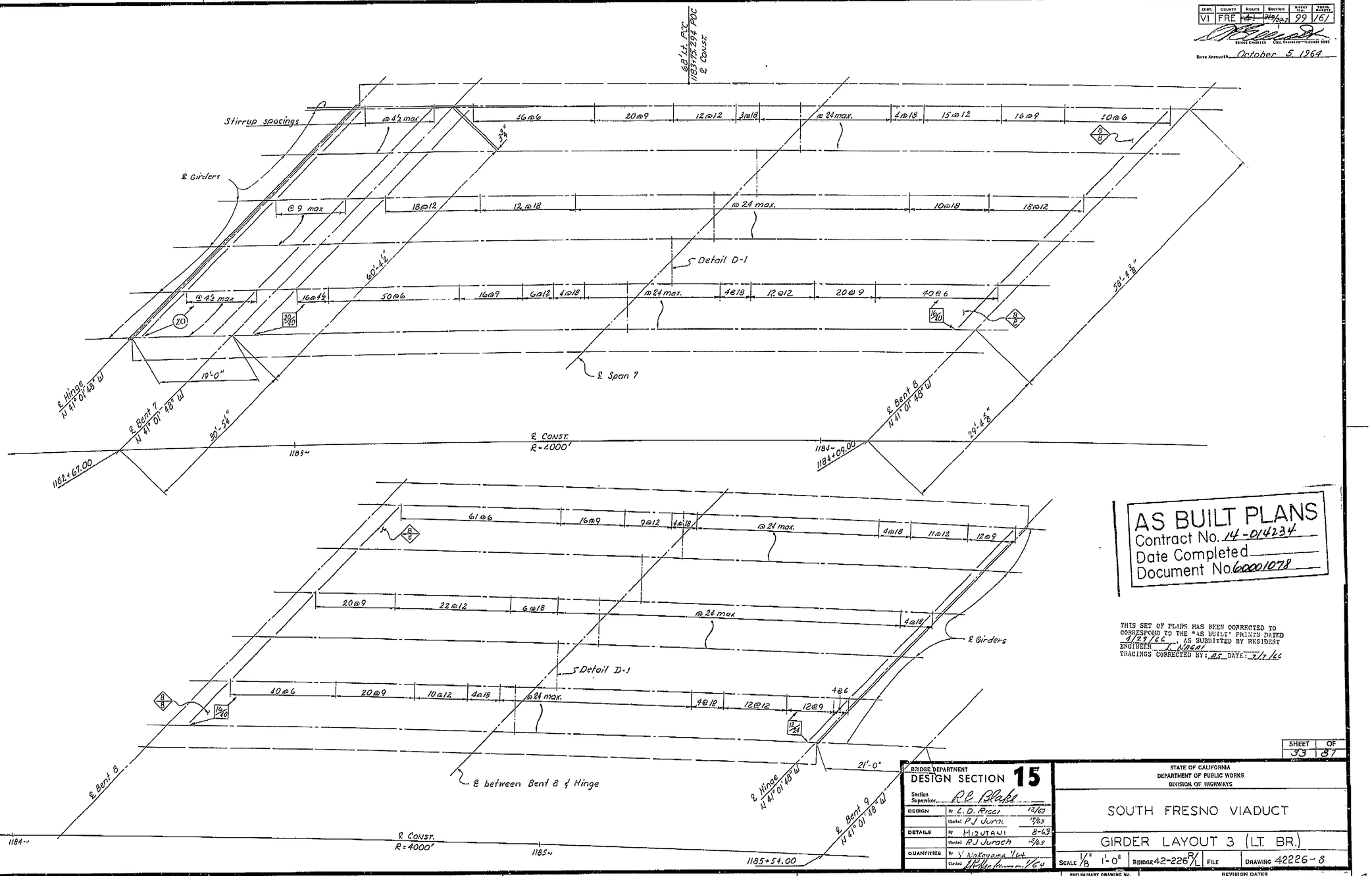
ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	FRE	41	31.9/32.7	99	161

BRIDGE ENGINEER — CIVIL ENGINEER—LICENSE 5093

DATE APPROVED October 5 1964



AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/29/66, AS SUBMITTED BY RESIDENT ENGINEER J. NAGAI
TRACINGS CORRECTED BY: RS DATE: 7/12/66

SHEET	OF
33	87

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor R.P. Blake

DESIGN	By L.D. Ricci	12/63
	Checked P.J. Jurach	2/63
DETAILS	By MIZUTANI	8-63
	Checked R.J. Jurach	2/63
QUANTITIES	By Y. Nakayama Jr.	
	Checked R.P. Blake	1/64

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

GIRDER LAYOUT 3 (LT. BR.)

SCALE	BRIDGE	FILE	DRAWING
1/8" 1'-0"	42-226R/L		42226-8

Disregard prints bearing earlier revision dates

PRELIMINARY DRAWING No.	REVISION DATES
P 12/63 4/64 8/64	

99

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DATE 2-14-72 SIGNATURE Lloyd E. Coil TITLE SR RMO

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

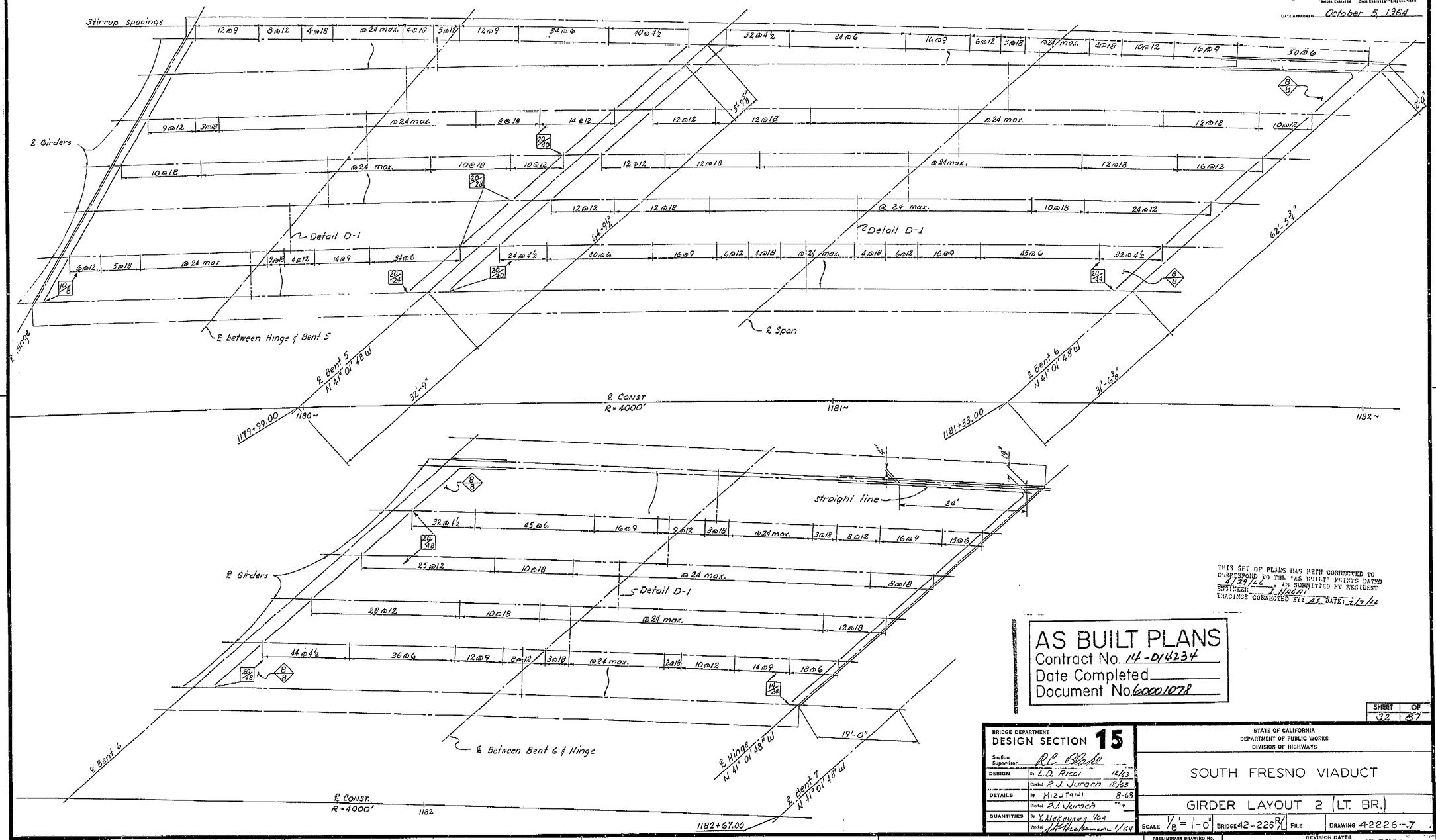
ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	~~41~~ 5	21.9/22.9	98	161

BRIDGE ENGINEER — CIVIL ENGINEER—LAYOUT DESIGN

DATE APPROVED October 5, 1964



THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/29/66, AS SUBMITTED BY RESIDENT ENGINEER L. Nagai
TRACINGS CORRECTED BY: AT DATE: 2/7/66

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

SHEET	OF
32	87

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor R.C. Blasle

DESIGN	By L.D. Ricci	12/63
	Checked P.J. Jurach	12/63
DETAILS	By Mizutani	8-63
	Checked P.J. Jurach	" "
QUANTITIES	By Y. Nakayama	1/64
	Checked A. Thakkeman	1/64

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

GIRDER LAYOUT 2 (LT. BR.)

SCALE 1/8" = 1'-0" BRIDGE 42-226R FILE DRAWING 4-2226-7

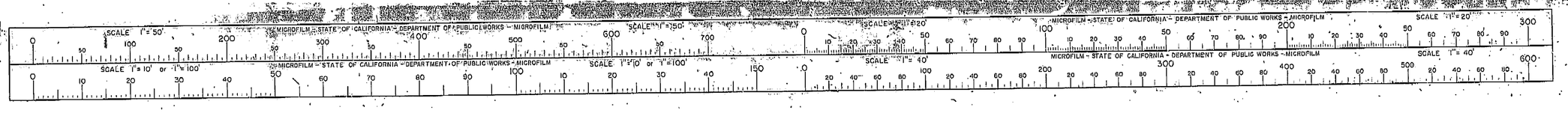
PRELIMINARY DRAWING No.	REVISION DATES
P 10/1/63	3/6/64

Disregard prints bearing earlier revision dates →

98

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DATE 2-14-72 SIGNATURE Howard E. Coutt TITLE Sr. R.M.S.



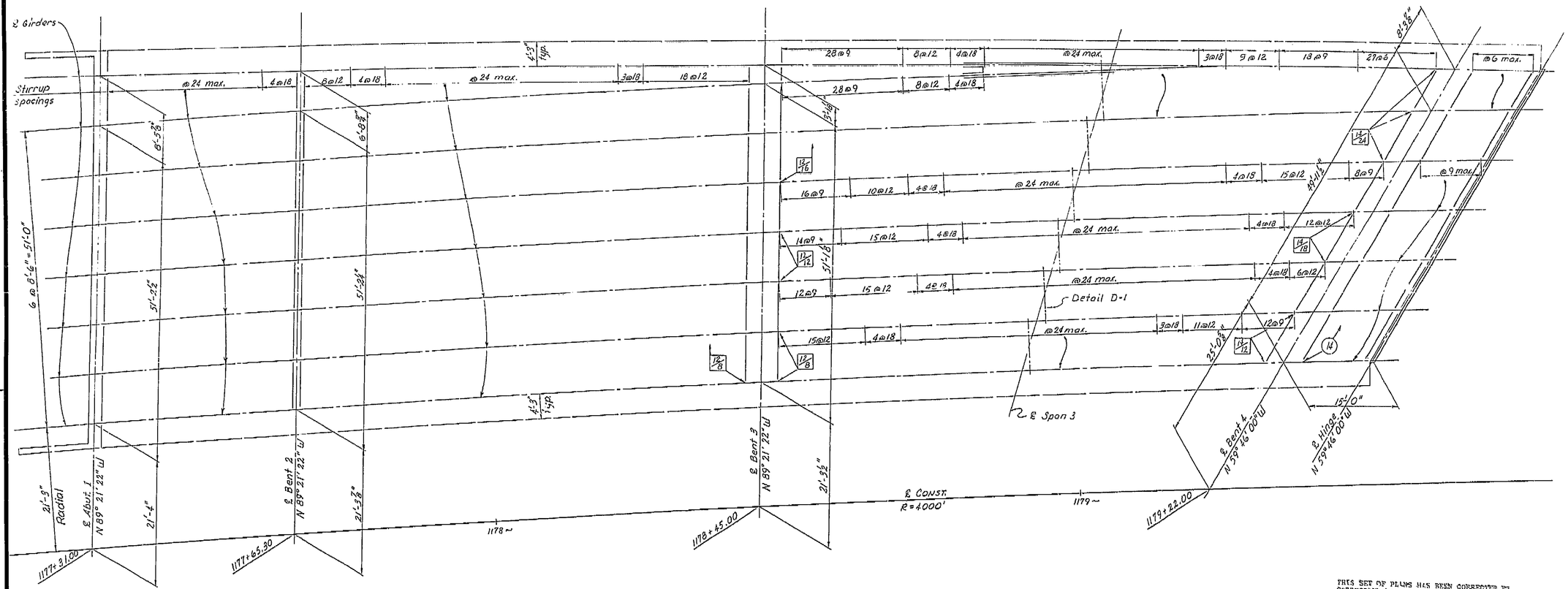
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FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	99	22.7	97	161

BRIDGE ENGINEER — CIVIL ENGINEER—LICENSE 5085

DATE APPROVED October 5, 1964



THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 1/29/66, AS SUBMITTED BY RESIDENT ENGINEER L. Wood
DRAWINGS CORRECTED BY: RS DATE: 7/12/66

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

SHEET	OF
97	97

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor R.P. Blake

DESIGN	By L.D. Ricci	12/63
	Checked P.J. Jurjevich	12/63
DETAILS	By M. Izutani	8-63
	Checked P.J. Jurjevich	12/63
QUANTITIES	By Y. Nakamura	1/64
	Checked S.K. Hankinson	1/64

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

GIRDER LAYOUT 1 (LT. BR.)

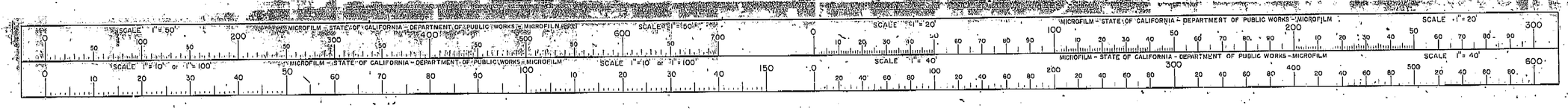
SCALE 1/8" = 1'-0" | BRIDGE 42-226 R/L | FILE | DRAWING 42226-6

Disregard prints bearing earlier numbers → PREL. DRAWING NO. P- 63 12/24 64

97

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-72 SIGNATURE Howard E. Cox TITLE SR RMC



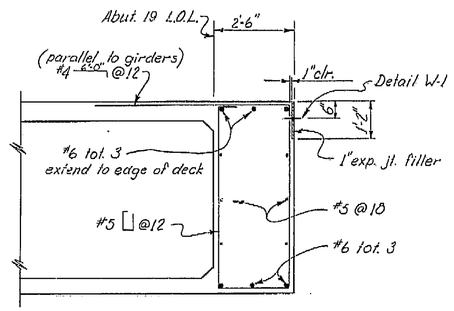
ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	41	#2	96	161

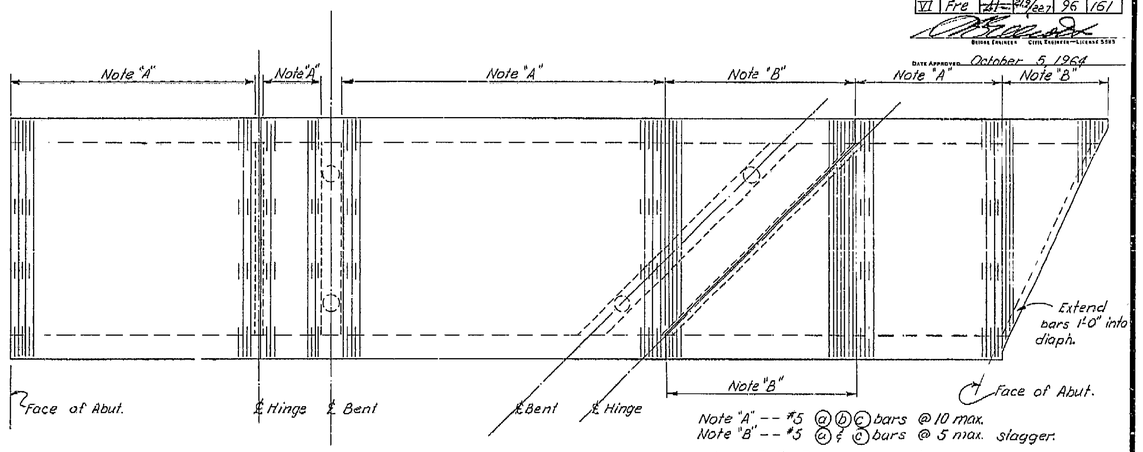
BRIDGE ENGINEER — CIVIL ENGINEER—LICENSE 5369

DATE APPROVED October 5, 1964



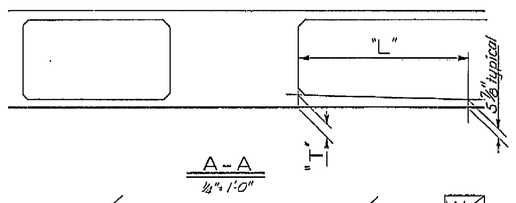
ABUT. 19 END DIAPHRAGM

1/2"=1'-0"



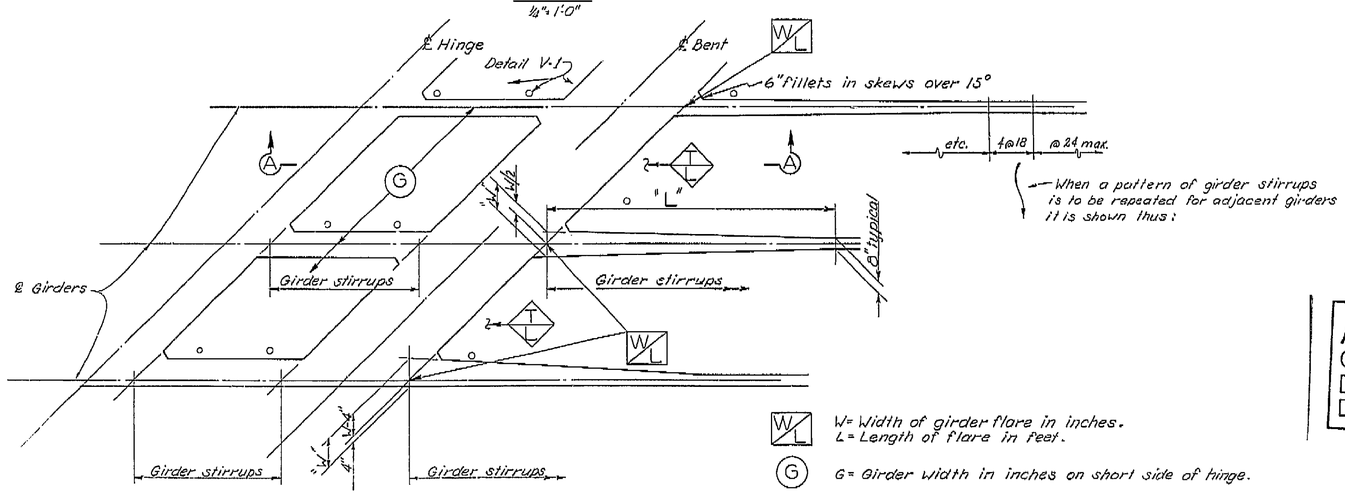
DECK SLAB TRANSVERSE REINFORCEMENT - SCHEMATIC

no scale



A - A

1/2"=1'-0"



GIRDER AND BOTTOM SLAB FLARE DIAGRAM

1/4"=1'-0"

W/L W= Width of girder flare in inches.
L= Length of flare in feet.

G G= Girder width in inches on short side of hinge.

T/L T= Thickness of bottom slab flare in inches.
L= Length of flare in feet.

Note
See also "Box Girder Details No. 1"

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/29/66 AS SUBMITTED BY RESIDENT ENGINEER F. Nagel
DRAWINGS CORRECTED BY AS DATE 7/2/66

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

SHEET	OF
30	87

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor RC Blake

DESIGN	By	V.O. Banks 11-63
	Checked	BL FRANK 3-64
DETAILS	By	V.O. Banks 11-63
	Checked	BL FRANK 3-64
QUANTITIES	By	VARIOUS
	Checked	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

GIRDER LAYOUT DETAILS

SCALE as shown | BRIDGE 42-226 R/L | FILE | DRAWING 42226-58

PRELIMINARY DRAWING No. P 1/26/1954

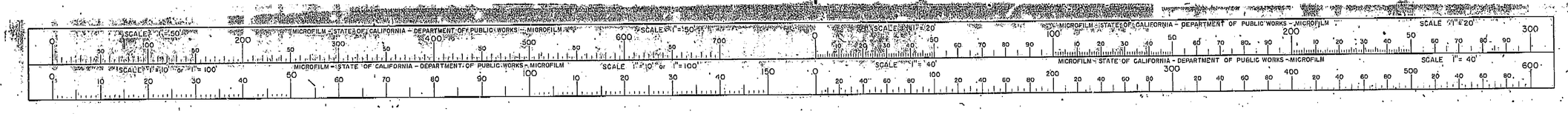
REVISION DATES

Disregard prints bearing earlier revision dates →

96

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-72 SIGNATURE Lloyd E Card TITLE Sr. RMO



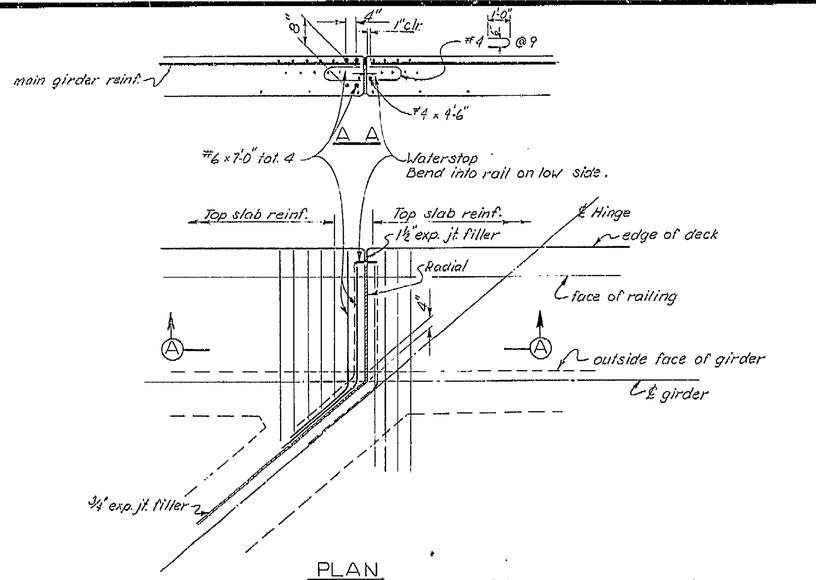
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FED. ROAD DIV. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

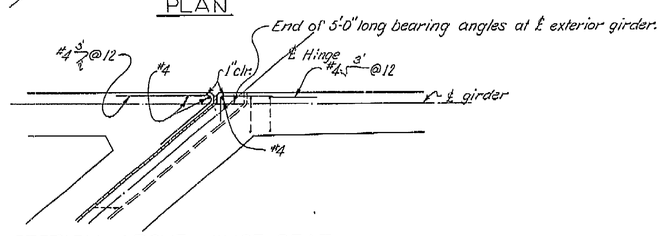
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	41	21.9/22.7	113	161

Bridge Engineer — Civil Engineer—License 5085

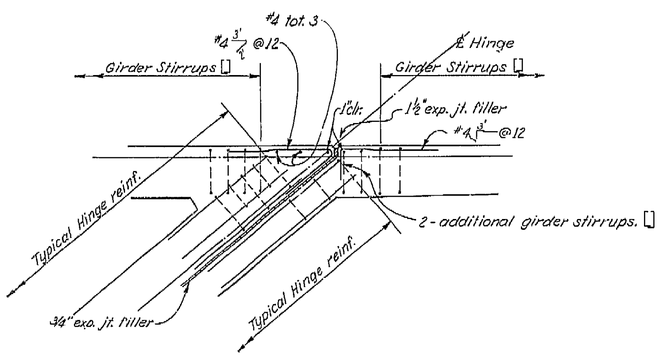
DATE APPROVED: October 5, 1964



PLAN

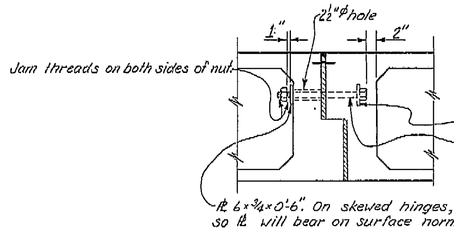


SECTION ABOVE HINGE SEAT



SECTION BELOW HINGE SEAT

ADDITIONAL HINGE DETAILS IN SKEWS OVER 15°



HINGE TIE BOLTS

no scale

SHEET	OF
47	187

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/29/66, AS SUBMITTED BY RESIDENT ENGINEER T. NAGAI
TRACINGS CORRECTED BY: AS DATE: 7/7/66

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

BRIDGE DEPARTMENT DESIGN SECTION 15			
Section Supervisor	R.C. Blake		
DESIGN	By	O.A. Banks	11-63
	Checked	B.L. Fraser	3-64
DETAILS	By	O.A. Banks	11-63
	Checked	B.L. Fraser	3-64
QUANTITIES	By	O.A. Banks	1-64
	Checked	D.R. Mason	1-64

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

HINGE DETAILS NO. 2

SCALE	BRIDGE	FILE	DRAWING
½" = 1'-0" or as noted.	42-226 R/L		42226-59

Disregard prints bearing earlier revision dates →

PRELIMINARY DRAWING No.	REVISION DATES
P 25 (1) 54	

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-72 SIGNATURE Lewis E. Crist TITLE SR RMO

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"Expansion Hinge" and "Rubber Waterstop" Detail. Rev. 2-59 R.T.K.

"Exp. Hinge" and "Rubber Waterstop" Det. 7-1-59 R.T.K.

Also Minor changes and Removal of "Stud Anchor Details" 2-8-61 J.T.J

Deleted "Detail of Rubber Waterstop". Added "Sealed Exp. Jt." detail. 2-27-62 F.M.S.

Added "Stud Anchors", Section Y-Y, Anchorage Alternatives detls. JTJ 3-26-63

Made room for Exp jt filler dim in "SECTION THRU EXPANSION ASSEMBLY" detail Added 3/4" dim. to Exterior Girder Assembly in "HINGE NORMAL TO GIRDER" detail. JTJ 4-15-63

Rev See Y-Y to "Stud Anchors" JTJ 6/63

Added 1" dim to Typical Exp. Hinge Detail 7-15-63 JTJ

Deleted Rubber from all Waterstop notes. Rev. Sign block in lower right hand Corner Deleted blank above Q-Ref. Sec sheet in U. R. right Corner. Rev. Title box in lower right Corner JTJ 8-1-63

DIST	COUNTY	ROUTE	SECTION	SHEET	TOTAL SHEETS
VI	FRE	41	21.9-22.7	112	161

October 5, 1964

Face of girder
Chamfer
℄ Hinge
7/16" Dia. hole in each leg
Exp. jt. filler
Extend 1/2" exp. jt. filler to this line and over plates on bottom angle.
6" 2'-0" 2'-0" 6"
5'-0"
PLAN OF TOP BEARING ANGLES
℄ Interior Girder
6 x 3/4" PL
EXTERIOR GIRDER ASSEMBLY
INTERIOR GIRDER ASSEMBLY
See Detail "A"
PLAN OF BOTTOM BEARING ANGLES

NOTE:
* For skews over 15° see Hinge Details No. 2

HINGE SKEWED TO GIRDER

HINGE NORMAL TO GIRDER

Exterior Assembly Max. shear for 5'-0" long angle = 252k

Interior Assembly Max. shear for 5'-0" long angle = 252k

Bend to fit
2 Anchors on exterior end.
5 Spaces @ 6" = 2'-6"
Same as Interior
3"
9 Spaces @ 6" = 4'-6"
PLAN OF TOP BEARING ANGLES SKEWED TO GIRDER
EXTERIOR GIRDER ASSEMBLY
INTERIOR GIRDER ASSEMBLY
PLAN OF BOTTOM BEARING ANGLES NORMAL TO GIRDER

STRAP ANCHORS

Bend to fit
2 Anchors on exterior end.
5 Spaces @ 6" = 2'-6"
Same as Interior
4"
8 spaces @ 6 1/2" x 4'-4"
PLAN OF TOP BEARING ANGLES SKEWED TO GIRDER
EXTERIOR GIRDER ASSEMBLY
INTERIOR GIRDER ASSEMBLY
PLAN OF BOTTOM BEARING ANGLES NORMAL TO GIRDER

ANCHOR ALTERNATIVES

To provide for free movement of the completed hinge, abutting surfaces of steel and concrete are to be separated with expansion filler. Caulk and tape the joints between steel angles and all remaining openings to prevent grout or concrete seepage between abutting surfaces of hinge

Gutter line
Top of deck
1'-0" Radius
Waterstop
6"
Bend waterstop into curb on low side. (Split waterstop not to be used in transverse deck joints)

NOTE
Remove sharp corners and burrs from ends of angles and end plates. Galvanize hinge assembly after fabrication.

1/2" Exp. jt. filler
1/4" Exp. jt. filler
Level
1/2" Exp. jt. filler
Parallel to roadway
Concrete line
6 x 3/4" PL
3/4" min.
1/2"

Joint sealer to be placed in all joints in the deck area, except construction joints.
3/4" min.
1/4" Edger finish
Rubber cord stock Diameter 1/4" larger than joint width at time of sealing
DETAIL L-1
Expansion jt filler Size as detailed
Waterstop "Type B"
DETAIL W-1

FOR SEALED DECK JOINT

Scale: 6" = 1'-0"

SEE "BOX GIRDER DETAILS NO. 1"

DETAIL "A"

Scale: 1 1/2" = 1'-0"

1 x 1/2 x 1'-4" long anchor strap.
45°
1 x 1/2 x 1'-0" long anchor strap
L 6 x 4 x 3/4

SECTION X-X

Scale: 1 1/2" = 1'-0"

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/29/66, AS SUBMITTED BY RESIDENT ENGINEER J. NAGAL, AS DATED 7/12/66
TRACINGS CORRECTED BY: AS DATED

5/16"
1 1/8"
45°
5/8"ϕ x 1'-2" long studs
Full penetration butt weld.
L 6 x 4 x 3/4

SECTION Y-Y

Scale: 1 1/2" = 1'-0"

Galvanize hinge assembly after fabrication.

Main girder steel
#4 3'-6" @ 12
2'-0"
2-#9 ea. girder
d
#6
#4
1 1/2" cl.
4" fillet
#4 ⊓ @ 12 Full length of hinge. Place first stirrup 3" from face of exterior girder.
#4 ⊓ @ 12 Full length of hinge. Place first stirrup 3" from face of exterior girder.
2-#9 ea. girder 2'-0"
Main girder steel.
1/2" Drip groove. Place on low side of hinge.
1'-3"
2'-6"

TYPICAL EXPANSION HINGE

Scale: 3/4" = 1'-0"

3/4" Exp. jt. filler
3"
℄ Hinge
1/4" Machine bolts, 2 cut washers
L 6 x 4 x 3/8"
Level
1/16" Asbestos sheet packing, cement to bottom angle.
2"
1/16" Dia. hole
3/4" Exp. jt. filler
Place #4 bars 1" clear from exp. assembly.

SECTION THRU EXPANSION ASSEMBLY

Scale: 3" = 1'-0"

NOTES
1. FOR HINGE TIE BOLTS NOT SHOWN, SEE "HINGE DETAILS NO. 2".
2. FOR HINGE DETAILS NEAR BENTS 11 & 13 SEE STEEL GIRDER SHEETS.

BEARING ASSEMBLYS REQ'D			
LEFT BRIDGE		RIGHT BRIDGE	
NEAR BENT 4	7	NEAR BENT 4	8
" " 7	6	" " 7	7
" " 9	6	" " 9	6
" " 16	7	" " 16	7
TOTALS	26		28

SHEET	OF
46	87

8163
STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

HINGE DETAILS NO. 1 MODIFIED

BRIDGE NO 42-226 R/L
DRAWING NO 42226-35
SHEET

W.O.
DISREGARD PRINTS BEARING EARLIER REVISION DATES
REVISION DATES (PRELIMINARY STAGE ONLY)

STANDARD DRAWING
A & B 7-1-AA
Released by
DESIGN
DETAILS
Approved & recommended by

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.
DATE 2-14-72 SIGNATURE [signature] TITLE [illegible]

112

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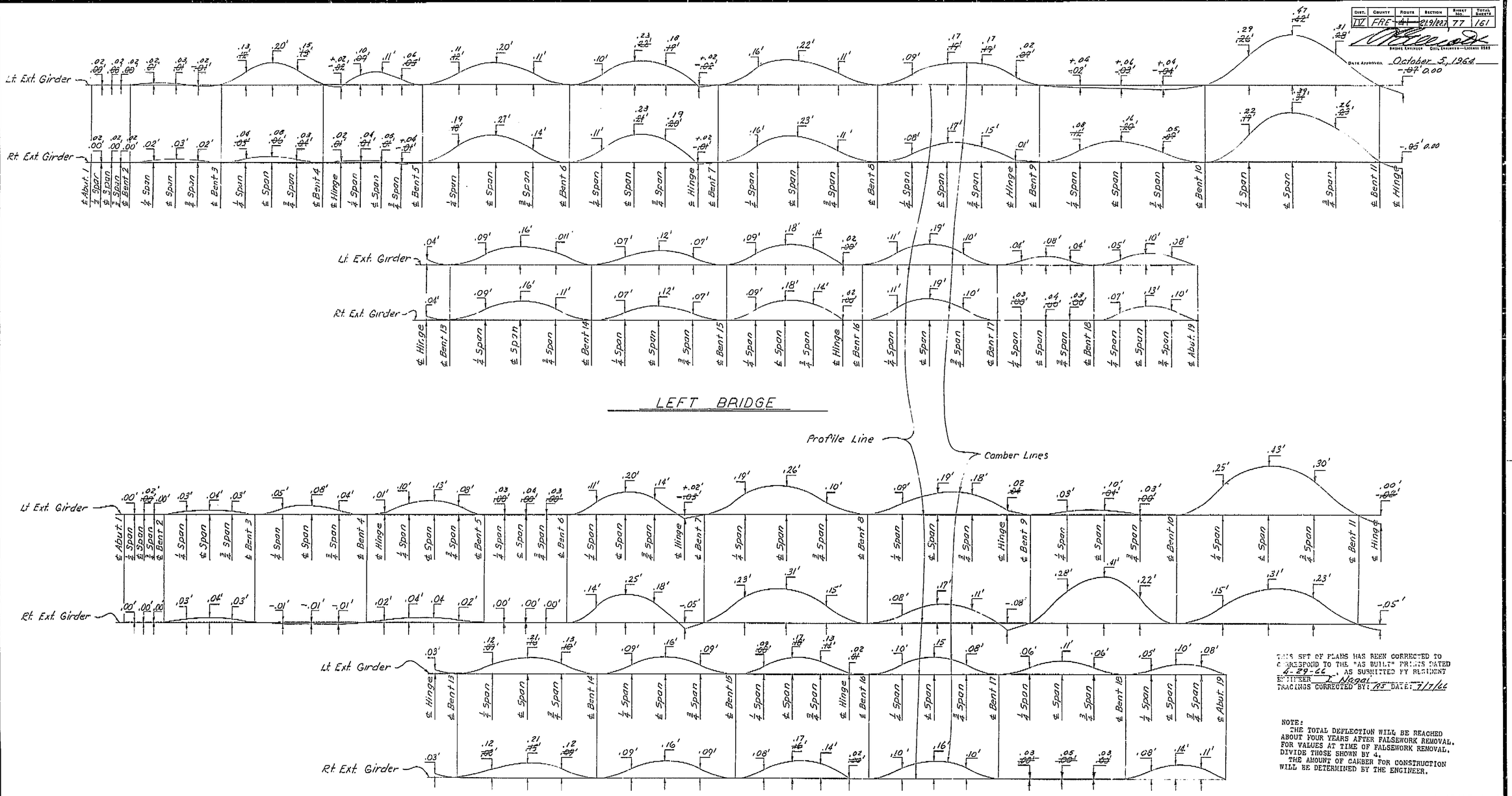
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FED. ROAD DIV. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
IV	FRE	41	21.9/22.7	77	161

BRIDGE ENGINEER — CIVIL ENGINEER — LICENSE 6565

DATE APPROVED: October 5, 1964



THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4-29-66, AS SUBMITTED BY RESIDENT ENGINEER L. Nagel
TRACINGS CORRECTED BY: RS DATE: 7/7/66

NOTE:
THE TOTAL DEFLECTION WILL BE REACHED ABOUT FOUR YEARS AFTER FALSEWORK REMOVAL. FOR VALUES AT TIME OF FALSEWORK REMOVAL, DIVIDE THOSE SHOWN BY 4.
THE AMOUNT OF CAMBER FOR CONSTRUCTION WILL BE DETERMINED BY THE ENGINEER.

SHEET	OF
77	87

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

Note:
℄ Span in span with hinge is midway between hinge and bent.

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor R.E. Blake

DESIGN	By CSH, PJJ, HLDR	
	Checked sam2	
DETAILS	By [illegible] 11-63	
	Checked	
QUANTITIES	By	
	Checked	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

CAMBER DIAGRAM
TOTAL GIRDER DEFLECTION DUE TO DEAD LOADS

SCALE	BRIDGE	FILE	DRAWING
NONE	42-226 R/L		42226-65

PRELIMINARY DRAWING No. P 1965 (5-57) BS 18
REVISION DATES

Disregard prints bearing earlier revision dates →

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DATE 2-14-72 SIGNATURE [signature] TITLE SR ENG

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SCALE 1"=50' SCALE 1"=20' SCALE 1"=10' or 1"=100' SCALE 1"=40'

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FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	Fre	41	39/42	153	161

DATE APPROVED October 5, 1964

"S-1" Line

78 77 76 75 74 73

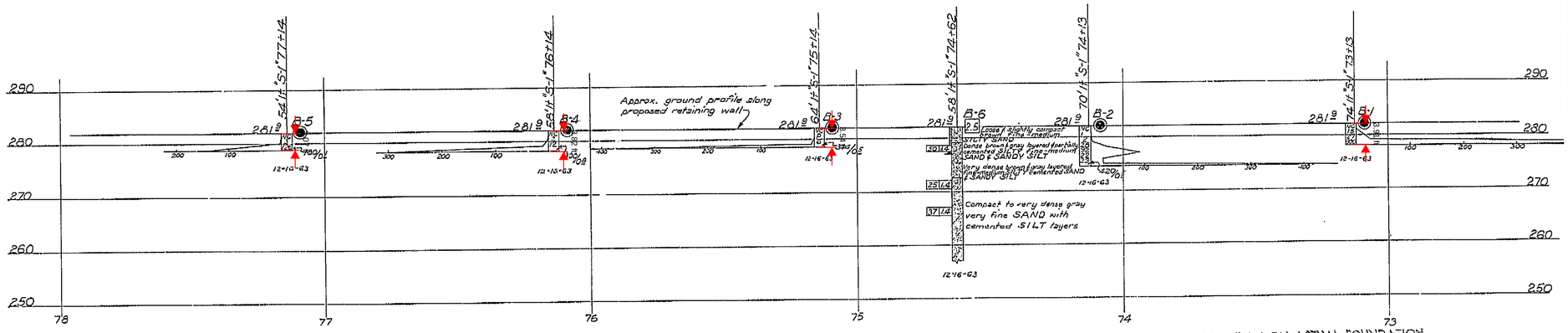
Z

B-5 B-4 B-3 B-6 (2.5) B-2 B-1

Proposed Retaining Wall

Ret. wall LOL

Note: Elevations taken from District's Site Map "R-1956 Sheet 1 of 4"



NO GROUND WATER ENCOUNTERED DURING THIS INVESTIGATION BY BRIDGE DEPT. GEOLOGY SECTION DATE December 1963

INFORMATION ON ACTUAL FOUNDATION CONDITIONS ENCOUNTERED IS ON FILE IN BRIDGE GEOLOGY SECTION

LEGEND OF BORING INDICATIONS

- Penetrometer
- 2½" Cone Penetrometer
- Sampler Boring (SPT)
- Rotary Boring (WET)
- Auger Boring (DRY)
- Jet Boring
- Core Boring
- Test Pit
- Penetration Boring
- Rotary Boring
- 1" Soil Tube

LEGEND OF EARTH MATERIALS

- Gravel
- Sand
- Silt
- Clay
- Silty Clay or Clayey Silt
- Peat Muck Organic Matter
- Fill Material
- Igneous Rock
- Sedimentary Rock
- Metamorphic Rock
- Sandy Clay or Clayey Sand
- Sandy Silt or Silty Sand

CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS

Diagram showing the basis for estimates of grade size distribution based on observed field behavior. The term "gravelly" may be used to describe the field behavior of a soil containing 15 percent or more gravel. The term "sandy" is used to describe the field behavior of a soil containing 15 percent or more sand. The terms "coarse," "medium" and "fine" may be used to describe sands and gravels. Refer to standard grade size limits.

NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

	by	Date
FIELD STUDY	Pell	12-63
DRAWN	R. Parr	1-64
CHECKED	H. Schroeder	1-64

Approved Recommended by: John L. Smith, Examining Geologist

BRIDGE DEPARTMENT
ENGINEERING GEOLOGY SECTION

153

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

SHEET	OF
87	87

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT
RETAINING WALL 1

LOG OF TEST BORINGS 4

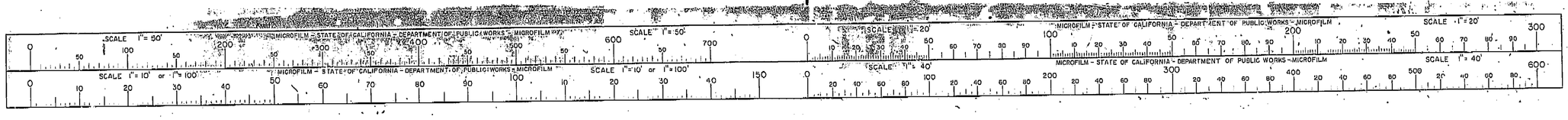
SCALE	BRIDGE	FILE	DRAWING
Horiz. 1"=20' Vert. 1"=10'	—		42226-88

Disregard prints bearing earlier numbers → PREL. DRAWING No. PR- 3/6/64

136

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DATE 2-14-72 SIGNATURE [signature] TITLE SR RMO



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FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	41-125	21.5/12.7	152	161

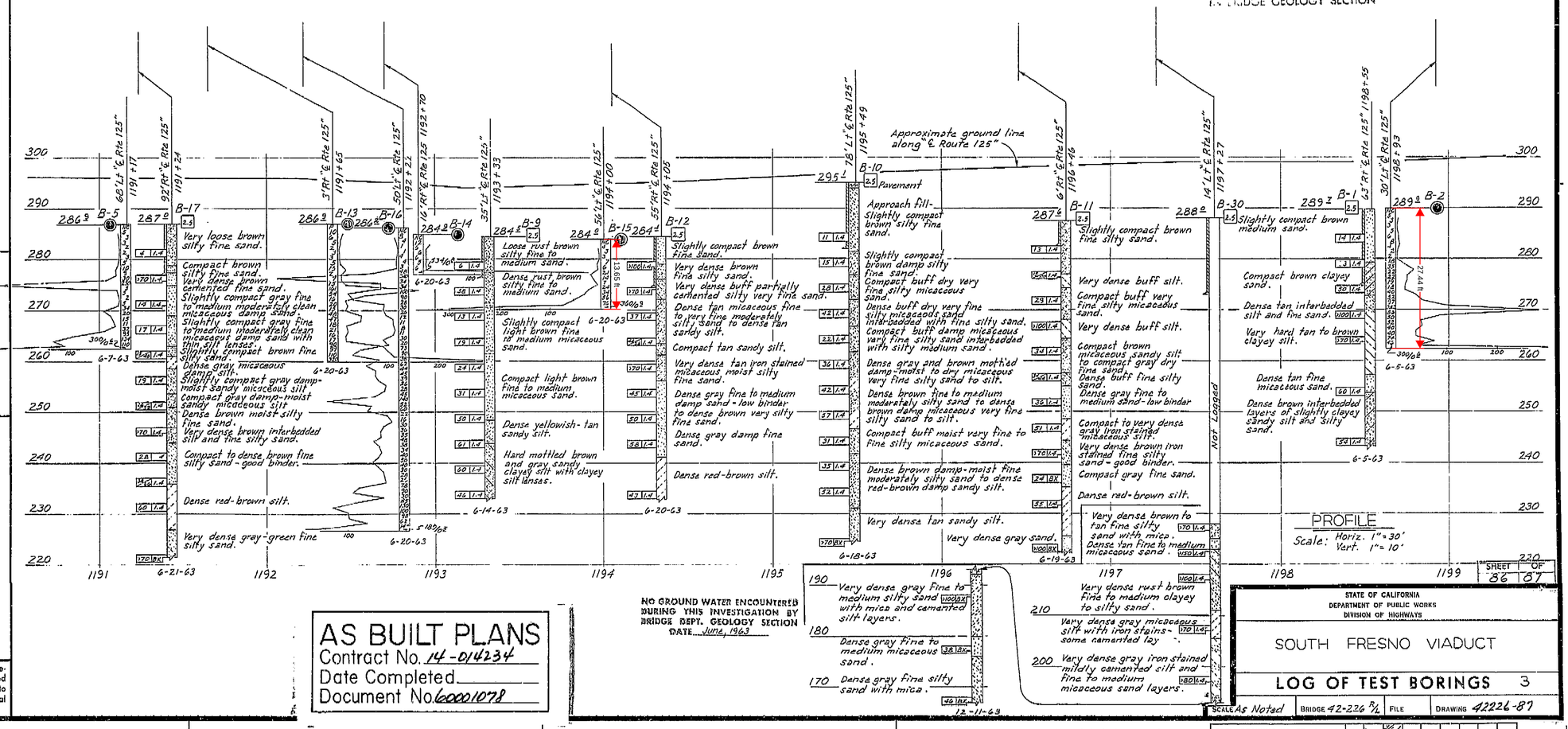
R. E. Ellicott
BRIDGE ENGINEER — CIVIL ENGINEER — LICENSE 5885

DATE APPROVED October 5, 1964

NOTE

For PLAN of these borings see index sheet, Sheet #1 of log of test borings.

INFORMATION ON ACTUAL FOUNDATION CONDITIONS ENCOUNTERED IN ON FILE IN BRIDGE GEOLOGY SECTION



NO GROUND WATER ENCOUNTERED DURING THIS INVESTIGATION BY BRIDGE DEPT. GEOLOGY SECTION
DATE June, 1963

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

LEGEND OF BORING OPERATIONS

Penetrometer; 2½" Cone Penetrometer; Sampler sound (SS); Rotary boring (RB); Auger boring (AB); Jet boring; Core boring; Test pit; Penetration boring; Probe boring; 1" Soil tube

LEGEND OF EARTH MATERIALS

Gravel; Sand; Silt; Clay; Silty clay or clayey silt; Peat and organic matter; Fill material; Igneous rock; Sedimentary rock; Metamorphic rock; Sandy clay or clayey sand; Sandy silt or silty sand

CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS

Diagram showing the basis for estimates of percentages to be entered in accordance with standard practice.
If gravel is present in appreciable quantities, the terms "gravelly sand" or "gravelly silt" are added to the class name, viz. "gravelly sand". The terms "trace of gravel", "some gravel" and "with gravel" are used to describe sand, silt and gravel refer to the following size limits.

NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

FIELD STUDY	W. J. Phillips	6-63
DRAWN	W. C. Snow	9-26-63
CHECKED	W. D. Bruder	8-16-63
		REVISED 1 Added boring 1

Signed Recommended by — Engineering Geologist

BRIDGE DEPARTMENT
ENGINEERING GEOLOGY SECTION

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STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

LOG OF TEST BORINGS 3

SHEET 86 OF 87

SCALE As Noted | BRIDGE 42-226 R/L | FILE | DRAWING 42226-87

Disregard prints bearing earlier numbers → PREL. DRAWING NO. PR-42226- 8 R-1 12/64

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-17-72 SIGNATURE Dennis E. Caulk TITLE Sr. R/W C

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FED. ROAD DIV. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	41	21.7/mm	151	161

RONALD SHIRLEY CIVIL ENGINEER-ELECTRICAL 9585

DATE APPROVED: October 5, 1964

NOTE

For PLAN of these borings see index sheet, Sheet # 1 of log of test borings.

LEGEND OF BORING OPERATIONS

Penetrometer
2½" Cone Penetrometer
Sampler Boring (SPB)
Rotary Boring (RB)
Auger Boring (AB)
Jet Boring
Core Boring
Test Pit

Top Hole Elev.
Sand per foot — Blows per foot — Water encountered
Soil symbol
Sample number
Depth of sample
Undisturbed core sample
Undisturbed rubber sleeve sample
Undisturbed thin wall sample
Undisturbed piston sample
Undisturbed foil sample
Undisturbed sample in plastic liner
Undisturbed sample in brass liner
Undisturbed sample in metal liner
Undisturbed sample in cardboard liner
Undisturbed sample in paper liner
Undisturbed sample in wax liner
Undisturbed sample in rubber liner
Undisturbed sample in foil liner
Undisturbed sample in plastic liner
Undisturbed sample in brass liner
Undisturbed sample in metal liner
Undisturbed sample in cardboard liner
Undisturbed sample in paper liner
Undisturbed sample in wax liner
Undisturbed sample in rubber liner
Undisturbed sample in foil liner

1" Soil Tube
Rotary Boring
Penetration Boring

LEGEND OF EARTH MATERIALS

Silty Clay or Clayey Silt
Peat and Organic Matter
Fill Material
Igneous Rock
Sedimentary Rock
Metamorphic Rock
Gravel
Sand
Silt
Clay
Sandy Clay or Clayey Sand
Sandy Silt or Silty Clay

CLASSIFICATION OF MATERIAL BASED ON STANDARD GRAIN SIZE LIMITS

Diagram showing the basis for estimates of soil classification in certain groups of clays mixed. If symbol is treated as specimens, the soil may be classified as "gravelly sand". The terms "gravelly" and "silty" may be added to the class name, viz. "gravelly sand". The terms "slightly gravelly", "slightly silty", etc. may be used to describe sand, silt and clay with gravel size limits.

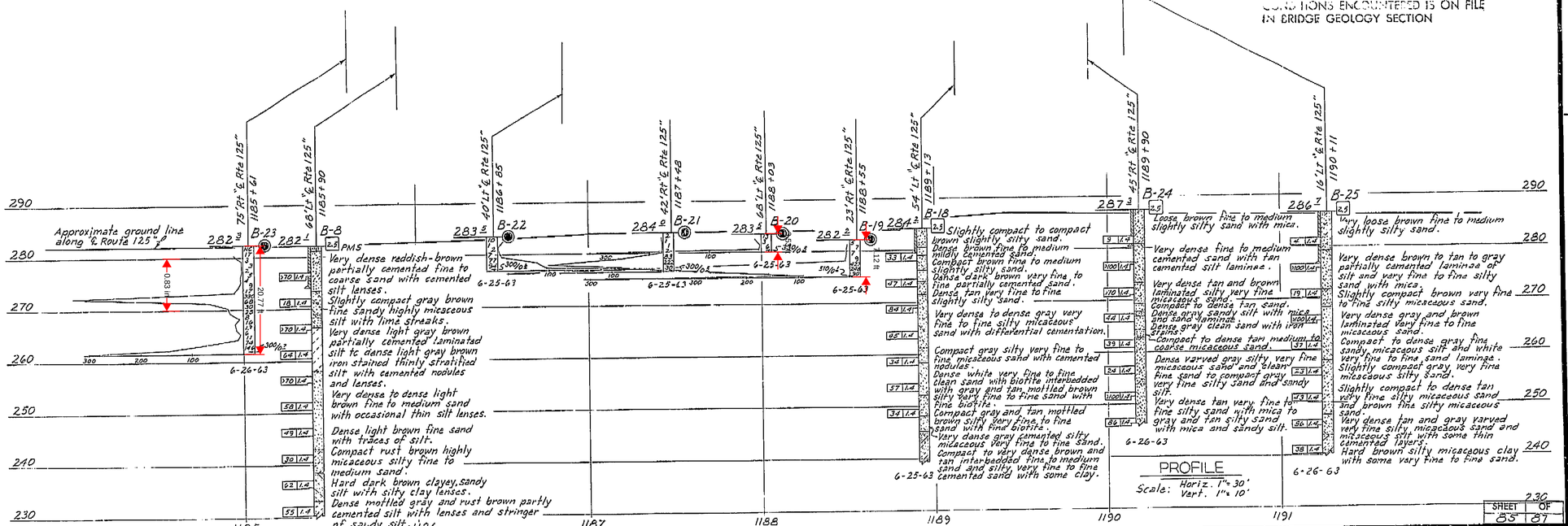
NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

FIELD STUDY by J. Pell 6-63
DRAWN by K. Endow 7-16-63
CHECKED by A. Bruder 8-15-63

Approved/Recommended by [signature] Engineer

BRIDGE DEPARTMENT
ENGINEERING GEOLOGY SECTION

15



NO GROUND WATER ENCOUNTERED DURING THIS INVESTIGATION BY BRIDGE DEPT. GEOLOGY SECTION DATE June, 1963

INFORMATION ON ACTUAL FOUNDATION CONDITIONS ENCOUNTERED IS ON FILE IN BRIDGE GEOLOGY SECTION

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

SHEET	OF
85	87

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

LOG OF TEST BORINGS 2

SCALE As Noted | BRIDGE 42-226 F/L | FILE | DRAWING 42226-86

Disregard prints bearing earlier numbers → PREL. DRAWING NO. PR-42226-X 8/64

134

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DATE 3-14-72 SIGNATURE [signature] TITLE SR RMC

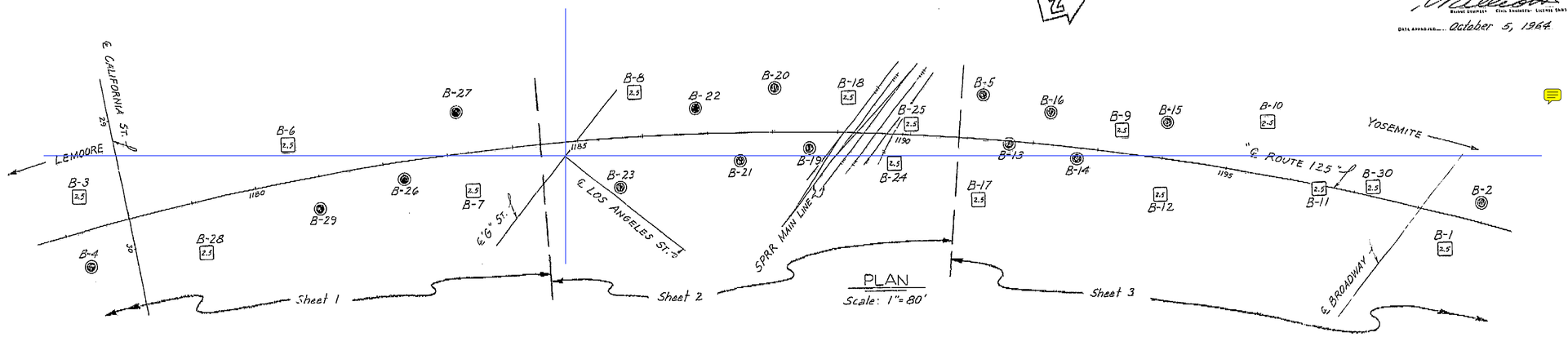
MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM
SCALE 1"= 50'
SCALE 1"= 10' or 1"= 100'
SCALE 1"= 20'
SCALE 1"= 40'

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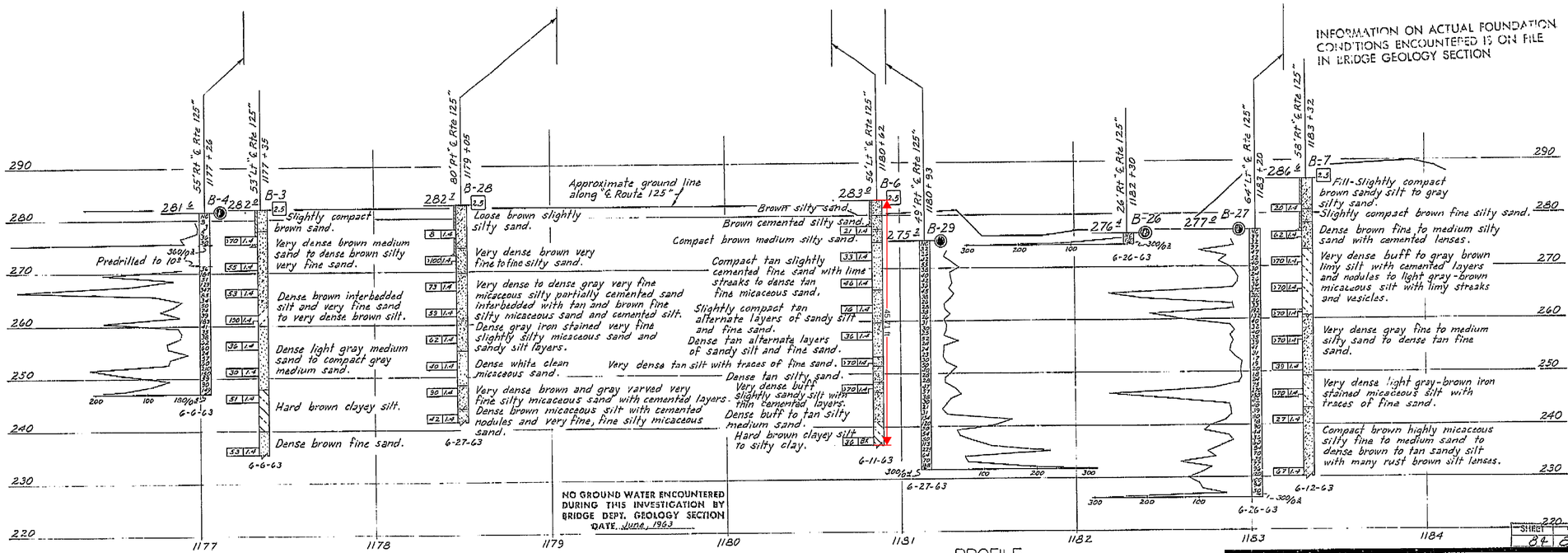
FED. ROAD DIV. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	41	21.7/22.7	150	161

DATE APPROVED: October 5, 1964



PLAN
Scale: 1"=80'



PROFILE
Scale: Horiz. 1"=30'
Vert. 1"=10'

INFORMATION ON ACTUAL FOUNDATION CONDITIONS ENCOUNTERED IS ON FILE IN BRIDGE GEOLOGY SECTION

BM	Description	Elev.
B-38	Br Disc cemented in N. curb @ W. end Calif. Ave. Bridge.	283.89
#118 88	RR Spike in Guy PP 152'± Rt. Sta. 1188+84± on E. side RR Tracks.	287.64
Fre-39	CHC Disc 125'Lt. Sta 1195+10 ℄ Route 125.	298.01

LEGEND OF BORING OPERATIONS

Penetrometer
2½" Conic Penetrometer
Sampler boring (cut)
Rotary boring (wet)
Auger boring (dry)
Jet boring
Core boring
Test pit
Penetration Boring
Rock Coring
1" Soil Tube

LEGEND OF EARTH MATERIALS

Gravel
Sand
Silt
Clay
Sandy Clay or Clayey Sand
Silty Clay or Clayey Silt
Peat Muck Organic Matter
Fill Material
Igneous Rock
Sedimentary Rock
Silty or Sandy Silt
Metamorphic Rock

CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS

Diagram showing the base for estimate of grain size distribution used in selection of soil classification. If gravel is present in appreciable amounts the term "gravelly" may be added to the classification. The terms "coarse", "medium" and "fine" refer to the sand fraction unless otherwise noted. For standard grain size limits.

NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

FIELD STUDY	by J. Pell	6-63
DRAWN	by K. Erdon	7-18-63
CHECKED	by D. Bruder	8-15-63

Approved Recommended by: [signature] Engineering Geologist

BRIDGE DEPARTMENT
ENGINEERING GEOLOGY SECTION

150

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

LOG OF TEST BORINGS 1

SCALE As Noted	BRIDGE 42-236 R/L	FILE	DRAWING 42226-86

Disregard prints bearing earlier numbers → PREL. DRAWING No. PR-42226- 2 9/64

SHEET	OF
84	87

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-72 SIGNATURE [signature] TITLE SR R/W C

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"= 50' 40' 20' 10' or 1"=100'

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FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

U-034-2(2)

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Fre	~~180~~	21.9/22.1	67	161

180

BRIDGE ENGINEER — CIVIL ENGINEER — LICENSE 5501

ASSISTANT STATE HIGHWAY ENGINEER — CIVIL ENGINEER — LICENSE 8282

DATE APPROVED October 5, 1964

R+C · 41
PM 22.1

+1.72%

R/C = -0.3973% per sta.
750' V.C.

-1.26%

R/C = +0.2800% per sta
550' V.C.

1184+75.00 B.V.C.
Elev. 318.31

1192+25.00 E.V.C.
Elev. 320.04

1199+00.00 B.V.C.
Elev. 311.53

PROFILE GRADE AT ℄ CONST.

2110'-5⅜" Measured along ℄ Const.

Concrete Box Girders | Steel Girders | Concrete Box Girders

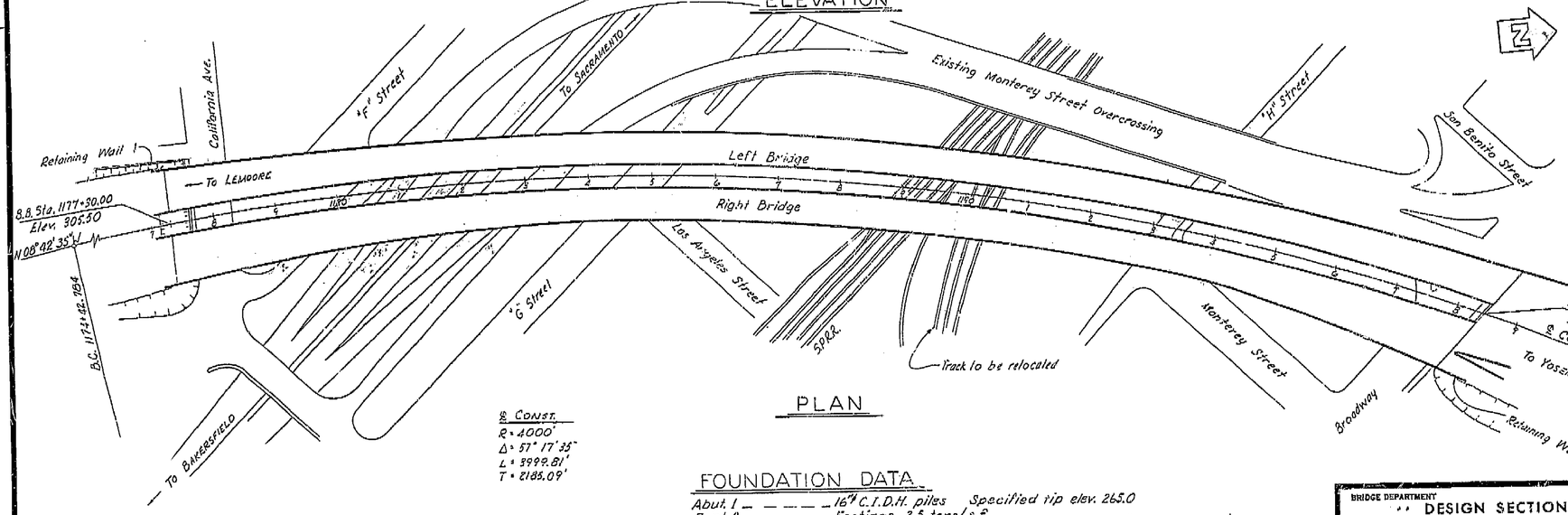
9.2 | 2.8

ABUT. 1 | BENT 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 BENT 18 | ABUT. 19

Datum Elev. 200.0

6 7 8 9 1180 1 2 3 4 5 6 7 8 9 1190 1 2 3 4 5 6 7 8 9

ELEVATION



PLAN

℄ Const.
R = 4000'
Δ = 57° 17' 35"
L = 3999.81'
T = 2185.09'

FOUNDATION DATA

Abut. 1	16" C.I.D.H. piles	Specified tip elev. 265.0
Bent 2	Footings 2.5 tons/s.f.	
Bents 3 to 16	5'-0" C.I.D.H. piles	Specified tip elev., see "Bent Columns" sheets
Abut. 19	16" C.I.D.H. piles	Specified tip elev. 260.0
Retaining Wall 1	Footings 2.5 tons/s.f.	
Retaining Wall 2	16" C.I.D.H. piles	Specified tip elev. 260.0
Retaining Wall 3	16" C.I.D.H. piles	Specified tip elev. 260.0

FOR GENERAL NOTES SEE "Index to Plans" sheet

LIVE LOADING H20-S16-44 AND ALTERNATIVE

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4-29-66, AS SUBMITTED BY RESIDENT ENGINEER T. Vogel
TRACINGS CORRECTED BY: RCS DATE: 7/14/66

For Approximate Quantities see "Index To Plans" sht.

SHEET 1 OF 37

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor Robert C Blake
Project Designer Bruce J Fraser

DESIGN	By BLF,RJJ,CSN,DWH,LDG,VB	Checked S. ~~~
DETAILS	By A Nakayama D/C	Checked D H Wilson 1-64
LAYOUT	By Vernon A. Banks '64	Checked D H Wilson 1-64
QUANTITIES	By	Checked
SPECIFICATIONS	By JCA 8-64	Checked JCS 8-64

Approval Recommended by J. J. Hartwell, Bridge Engineer
Plans Unit Basic Checked JCS 8-64
Civil Engr. License No. 7289

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

14-014234

SOUTH FRESNO VIADUCT

LOCATED IN THE CITY OF FRESNO FROM CALIFORNIA AVENUE TO BROADWAY IN FRESNO COUNTY

GENERAL PLAN

SCALE 1" = 100' | BRIDGE 42-226R/L | FILE | DRAWING 42226-1

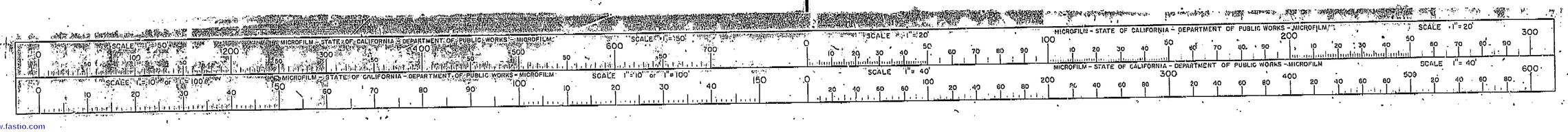
PRELIMINARY DRAWING No. P-

REVISION DATES: 8/3/64 8/6/64 8/13/64 8/19/64 8/26/64 8/31/64 9/4/64 9/29/64

06-202 014231 Disregard prints bearing earlier revision dates

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-72 SIGNATURE Lewis E Coil TITLE Sr RMO



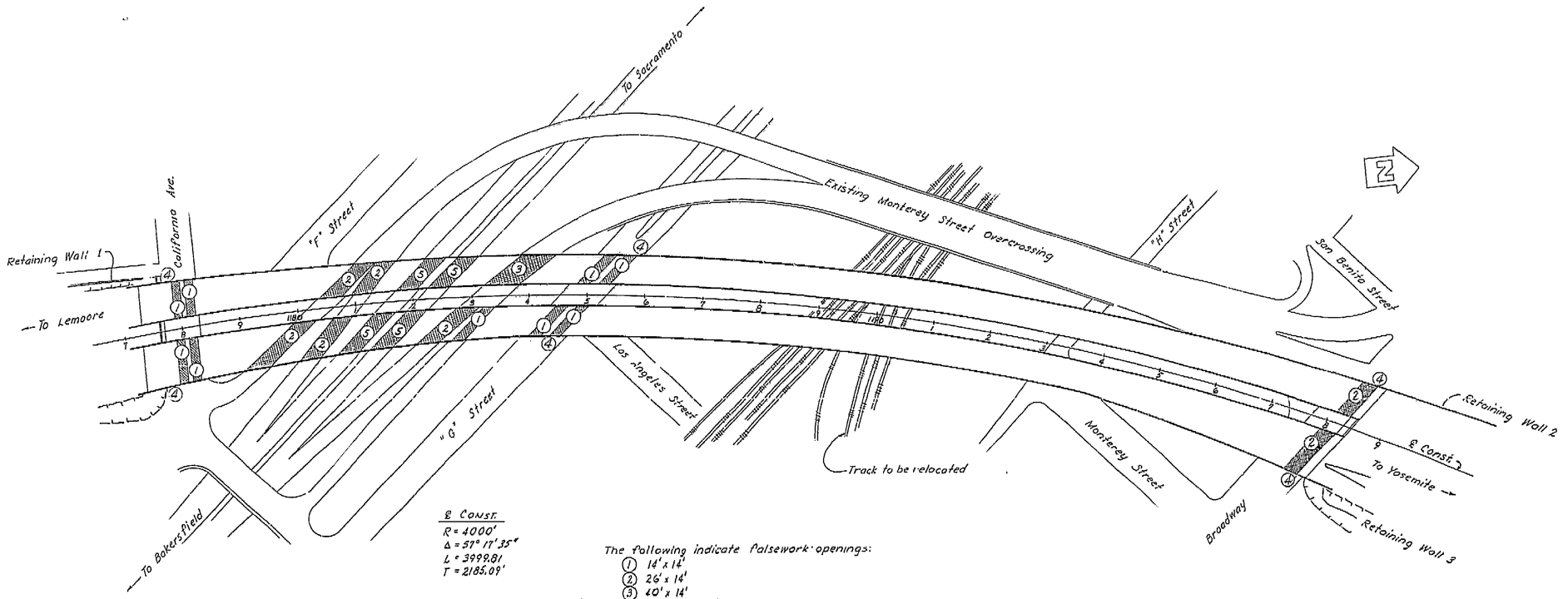
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FED. ROAD DIV. No.	STATE	F. A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	~~41~~	21.9/22.7	72	161

Bridge Engineer — Civil Engineer — License 5768

DATE APPROVED October 5, 1964



The following indicate falsework openings:

1. 14' x 14'
2. 26' x 14'
3. 40' x 14'
4. 6' wide x 7' high pedestrian openings
5. 36' x 14'

Openings indicated are minimum, and are measured normal to the traveled way.

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 6-29-66, AS SUBMITTED BY RESIDENT ENGINEER L. Nagel
TRACINGS CORRECTED BY: AS DATED: 7/6/66

AS BUILT PLANS
Contract No. 14-0H4234
Date Completed
Document No. 60001078

SHEET	OF
6	87

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor R C Blaz

DESIGN	By	
	Checked	
DETAILS	By	9-63
	Checked	
QUANTITIES	By	
	Checked	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

FALSEWORK OPENING LAYOUT

SCALE 1" = 100' | BRIDGE 42-226 R/ | FILE | DRAWING 42226-3

PRELIMINARY DRAWING No.	REVISION DATES
P-	1/9/63 12/20 5/24 3/3 4/29

Disregard prints bearing earlier revision dates

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-72 SIGNATURE James E Coil TITLE Sr BMC

12

55

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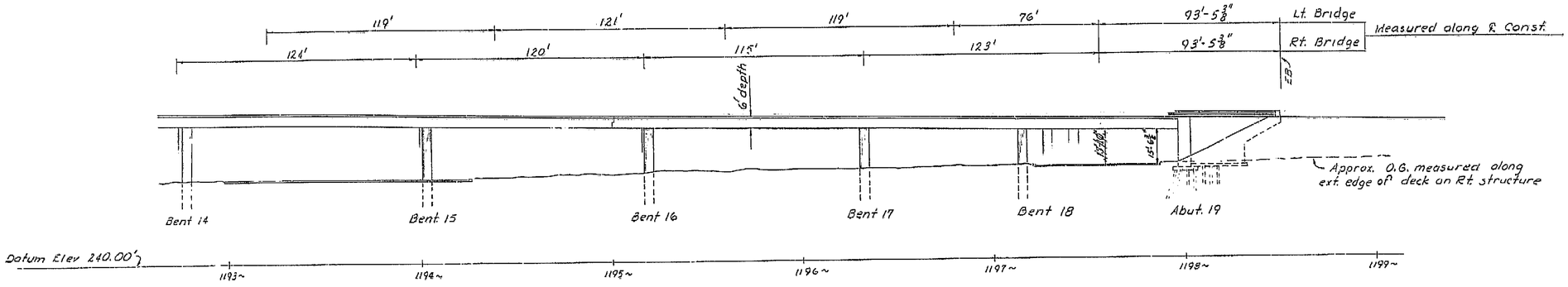
ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	P. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

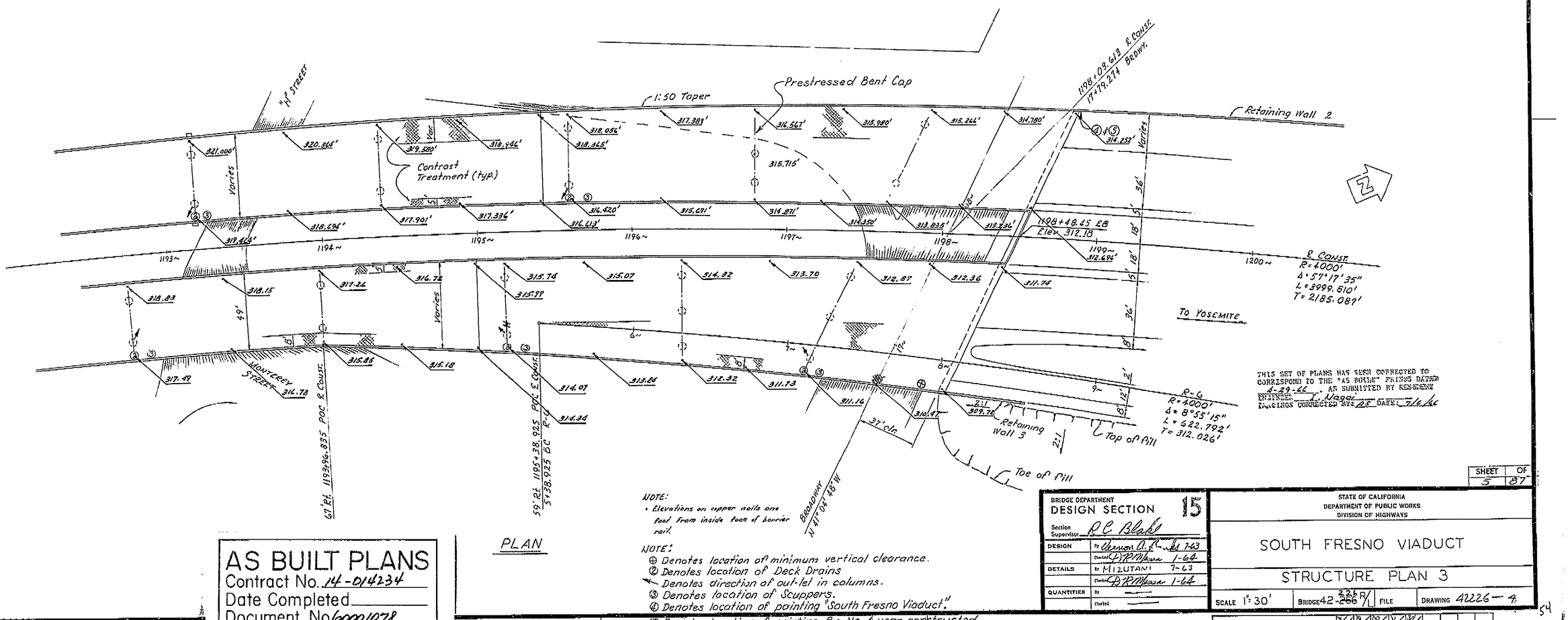
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	41	21.9/22.7	71	161

Bridge Engineer — Civil Engineer—License 2588

DATE APPROVED October 5, 1964



ELEVATION



PLAN

NOTE:
- Elevations on copper nails one foot from inside face of barrier rail.

NOTE:
- ⊕ Denotes location of minimum vertical clearance.
- ② Denotes location of Deck Drains
- ← Denotes direction of out-let in columns.
- ③ Denotes location of Scuppers.
- ④ Denotes location of painting "South Fresno Viaduct."
- ⑤ Denotes location of painting Br. No. & year constructed.

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4-29-66, AS SUBMITTED BY RESIDENT ENGINEER T. Nagai DATE 7/6/66
DRAWINGS CORRECTED BY: RS

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

BRIDGE DEPARTMENT DESIGN SECTION 15		
Section Supervisor	R C Blake	
DESIGN	By	Vernon A. Rinke 7-63
	Checked	D R Mason 1-64
DETAILS	By	M IZUTANI 7-63
	Checked	D R Mason 1-64
QUANTITIES	By	
	Checked	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

STRUCTURE PLAN 3

SCALE 1" = 30' | BRIDGE 42-226 R | FILE | DRAWING 42226-4

SHEET 5 OF 87

Disregard prints bearing earlier numbers

PREL. DRAWING NO. P-

54

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DATE 2-14-72 SIGNATURE [signature] TITLE SR ENGR

MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM
SCALE 1"=10' or 1"=100'
SCALE 1"=20'
SCALE 1"=40'
SCALE 1"=150'

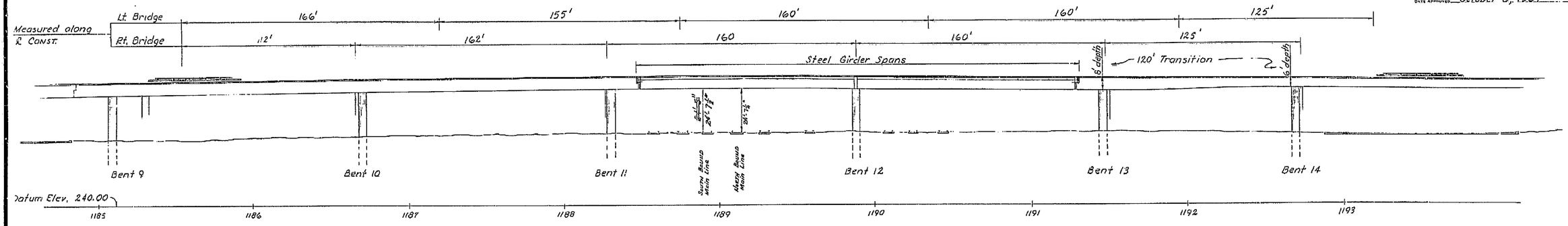
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FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.			

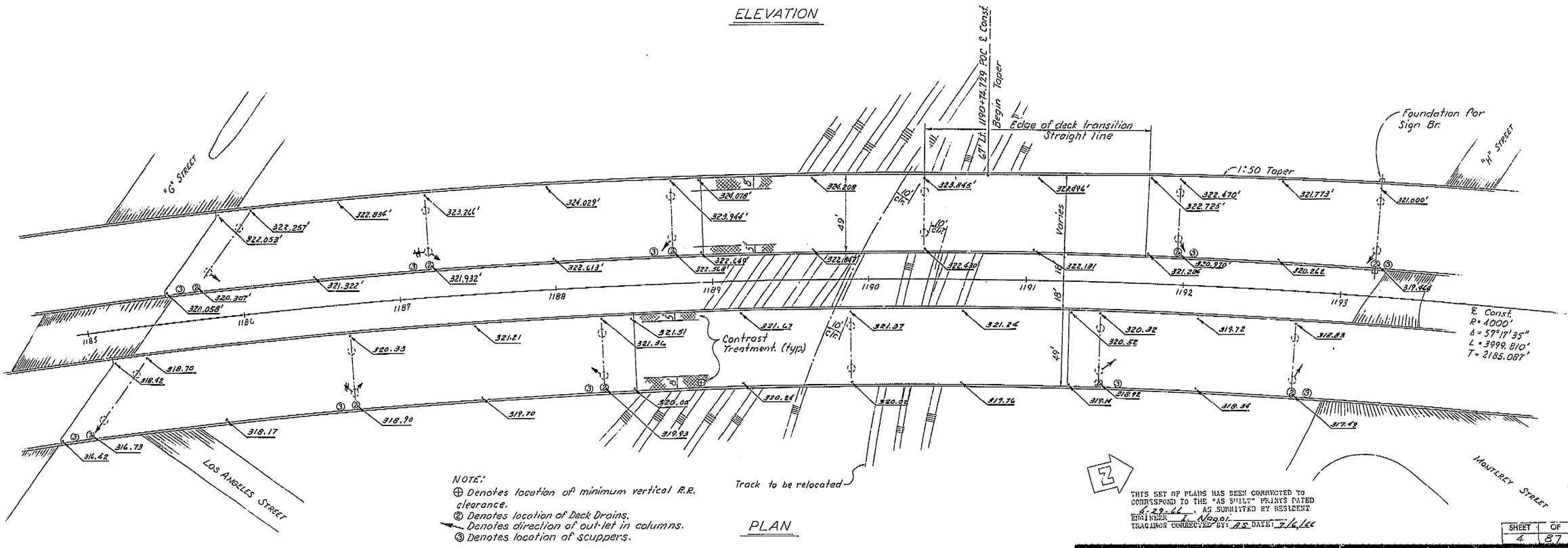
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	~~41~~	21.9/22.1	70	161

BRIDGE ENGINEER — CIVIL ENGINEER — LICENSE 5585

DATE APPROVED October 5, 1964



ELEVATION



NOTE:
⊕ Denotes location of minimum vertical R.R. clearance.
② Denotes location of Deck Drains.
← Denotes direction of out-let in columns.
③ Denotes location of scuppers.

PLAN

NOTE:
• Elevations on copper nails one foot from inside face barrier rail.

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 6-29-66, AS SUBMITTED BY RESIDENT ENGINEER T. Nagai
TRACINGS CORRECTED BY: RS DATE: 7/6/66

SHEET 4 OF 87

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor R C Blake

DESIGN	By	Herman R. Banks	7-63
	Checked	D R Mason	1-64
DETAILS	By	MIZUTANI	7-63
	Checked	D R Mason	1-64
QUANTITIES	By		
	Checked		

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

STRUCTURE PLAN 2

SCALE 1" = 30' | BRIDGE 42-226R | FILE | DRAWING 42226-3

Disregard prints bearing earlier numbers → PREL. DRAWING No. P-

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DATE 2-14-72 SIGNATURE [signature] TITLE SR ENG

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"=50' SCALE 1"=150' SCALE 1"=20' SCALE 1"=10' or 1"=100' SCALE 1"=40'

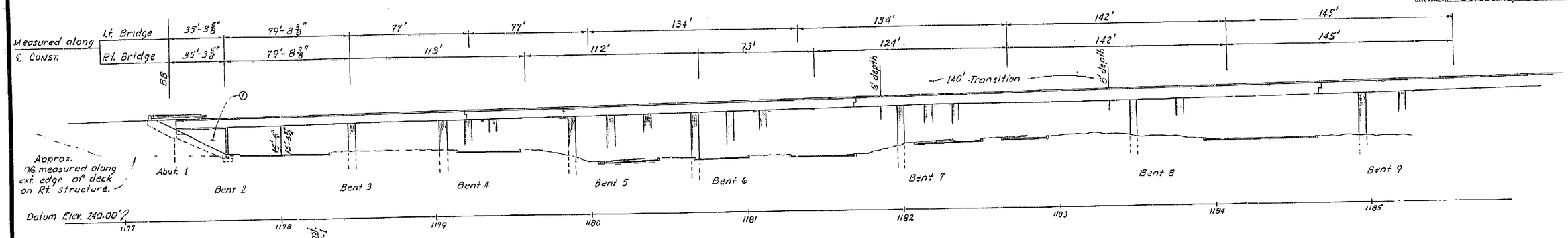
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FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE.	~~41~~	21-I/227-69		161

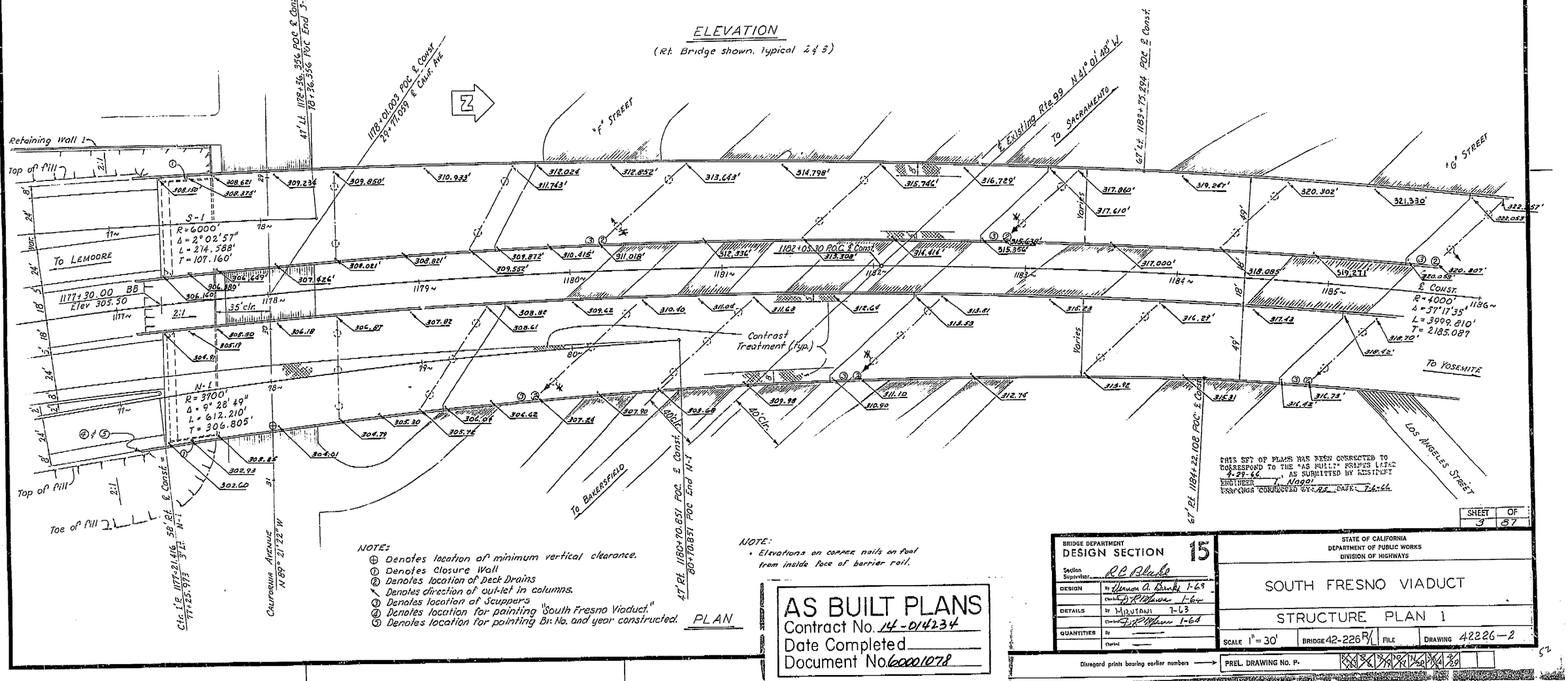
Bridge Engineer — Civil Engineer — License 8065

DATE APPROVED: October 5, 1964



ELEVATION

(Rt. Bridge shown, typical 2 & 3)



NOTE:
- ⊕ Denotes location of minimum vertical clearance.
- ① Denotes Closure Wall
- ② Denotes location of Deck Drains
- Denotes direction of out-let in columns.
- ③ Denotes location of Scuppers
- ④ Denotes location for painting "South Fresno Viaduct."
- ⑤ Denotes location for painting Br. No. and year constructed.

NOTE:
- Elevations on copper nails on foot from inside face of barrier rail.

THIS SET OF PLANS WAS REVISED TO CORRESPOND TO THE "AS BUILT" PLANS DATED 4-29-66 AS SUBMITTED BY RESIDENT ENGINEER T. Nago
DRAWINGS CORRECTED BY: RS DATE: 7-6-66

PLAN

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

SHEET	OF
3	57

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor: RC Blake

DESIGN	By	Vernon A. Brinkley 1-63
	Checked	D.R. Palmer 1-64
DETAILS	By	Hirutani 7-63
	Checked	D.R. Palmer 1-64
QUANTITIES	By	
	Checked	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

STRUCTURE PLAN 1

SCALE 1" = 30' | BRIDGE 42-226R/L | FILE | DRAWING 42226-2

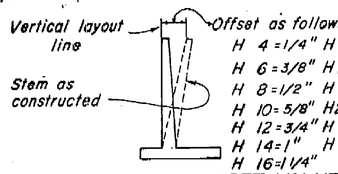
Disregard prints bearing earlier numbers → PREL. DRAWING No. P-

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-72 SIGNATURE [signature] TITLE SR. R'MIO

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"=50' SCALE 1"=20' SCALE 1"=10' or 1"=100' SCALE 1"=40'
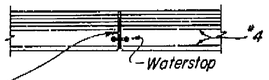
ClibPDF - www.fastio.com



APPROX. WALL OFFSET VALUES

Not required for wall types 3 and 4

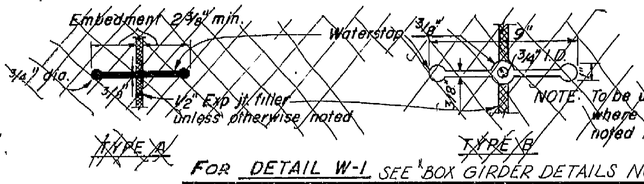
Values for offsetting forms to be determined by the Engineer.



PLAN OF WALL WITH DETAIL W-1



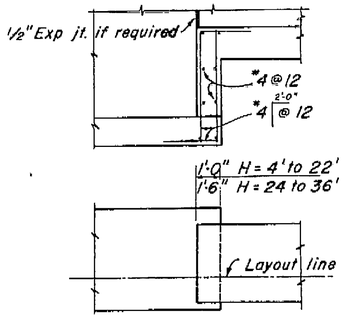
PLAN OF WALL WITH EXPANSION JOINT ONLY



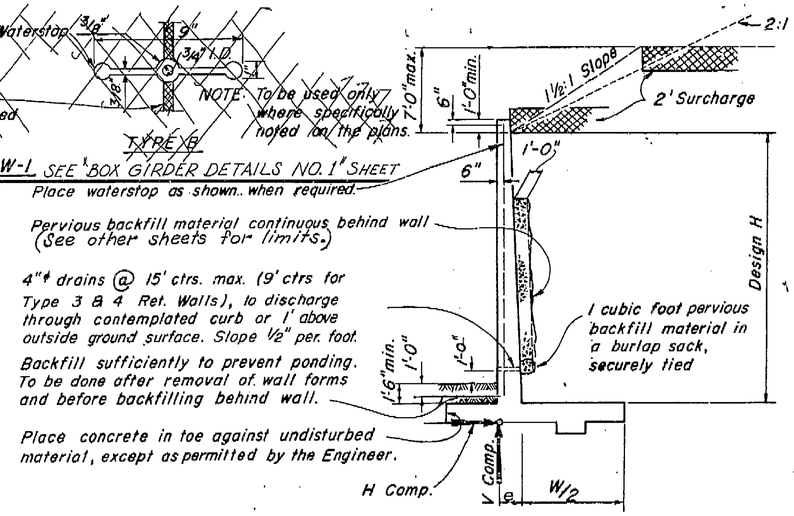
FOR DETAIL W-1 SEE "BOX GIRDER DETAILS NO. 1" SHEET

Place waterstop as shown. when required.

NOTE: To be used only where specifically noted on the plans.

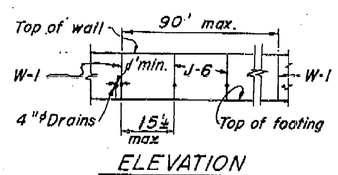


FOOTING STEP

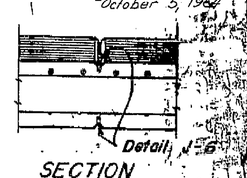


DESIGN AND DRAINAGE

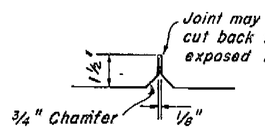
Surcharge limits shown apply to Retaining walls Type 1 and 3.



ELEVATION

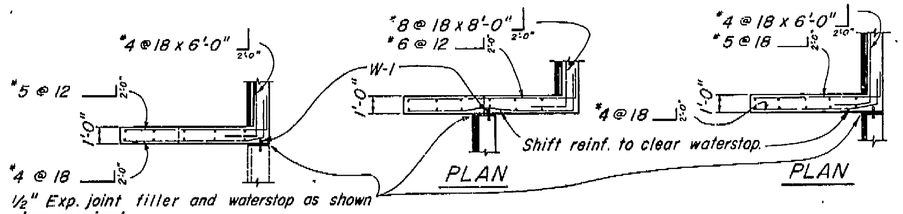


SECTION

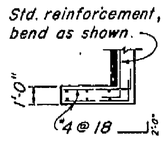


PLAN

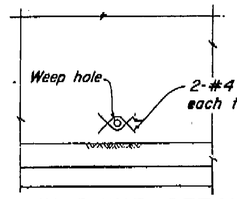
DETAIL J-6



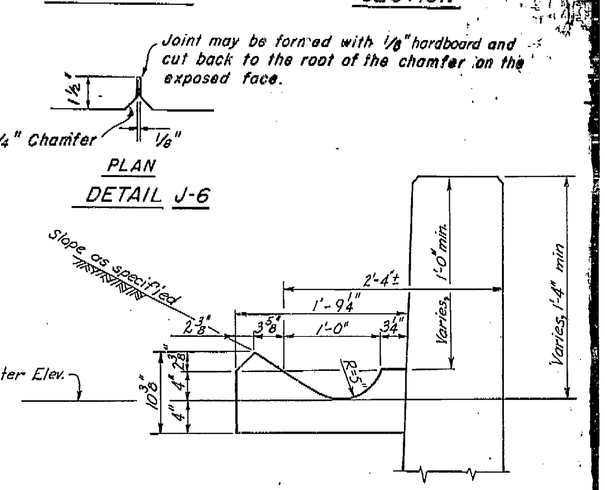
PLAN PLAN PLAN



PLAN

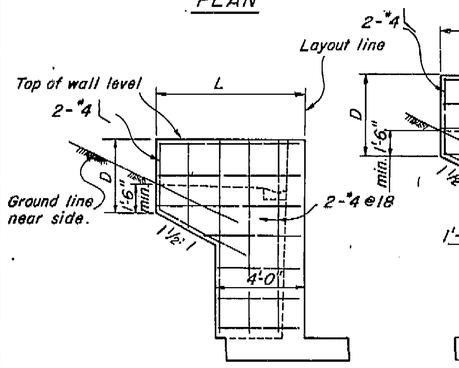


DRAIN REINF. DETAIL



TYPICAL GUTTER DETAIL

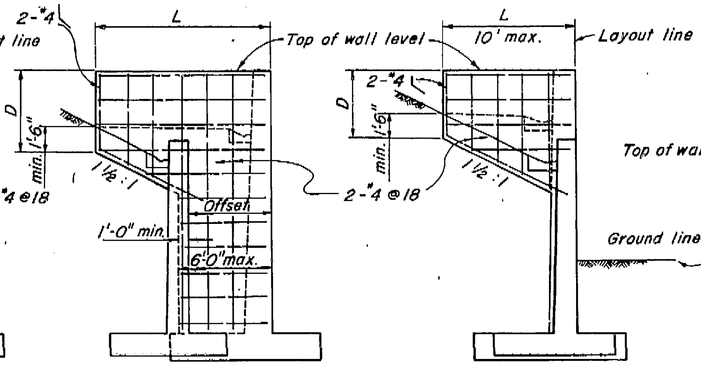
Scale: 1 1/2" = 1'-0"



ELEVATION

RETURN WALL TYPE 'A'

Use where H = or less



ELEVATION

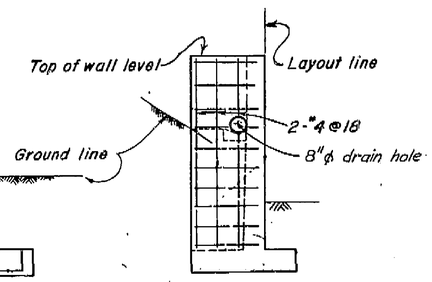
RETURN WALL TYPE 'B'

Use where H = 10' or more on offset walls

ELEVATION

RETURN WALL TYPE 'C'

Use where H = 10' or more on straight walls



ELEVATION

RETURN WALL TYPE 'D'

NOTES

Design Conditions:

Design H may be exceeded by 6" before going to the next size.
Footing key is required except when found unnecessary by the Engineer.
Special footing design is required where foundation material is incapable of supporting toe pressure loads listed in table.
Return wall not required unless shown elsewhere.

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/29/66 AS SUBMITTED BY RESIDENT ENGINEER. L. Nagai
TRACINGS CORRECTED BY: AC DATE: 7/2/66

Design Data:

fc = 1200 psi f'c = 3000 psi fs = 20,000 psi n = 10 earth = 120 pcf
Equivalent fluid pressure = 36 pcf max. for determination of toe pressure.
27 pcf min. for determination of heel pressure.

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 6000/1078

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-72 SIGNATURE Lawrence Cox TITLE SR. A.M.E.

DIST	COUNTY	ROUTE	SECTION
VI	FRE	-41-	21-9 / 22.7

June 4, 1963
October 5, 1964

SHEET	OF
28	37

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

8/63 — W1-3

SOUTH FRESNO VIADUCT

MODIFIED RETAINING WALL DETAILS NO. 1

BRIDGE NO 42-226 R/L — DRAWING NO 42226-32

W.O.

REVISION DATES | PRELIMINARY STAGE ONLY

Disregard prints bearing earlier revision dates

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FED. ROAD DIV. No.	STATE	PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
7	CALIF.				

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	FRE	180-1	22.7/23.7	93	161

To Accompany Plans Dated Oct. 5, 1962

Registered Engineer — Civil Engineer License No. 13585

Date Approved October 4, 1962

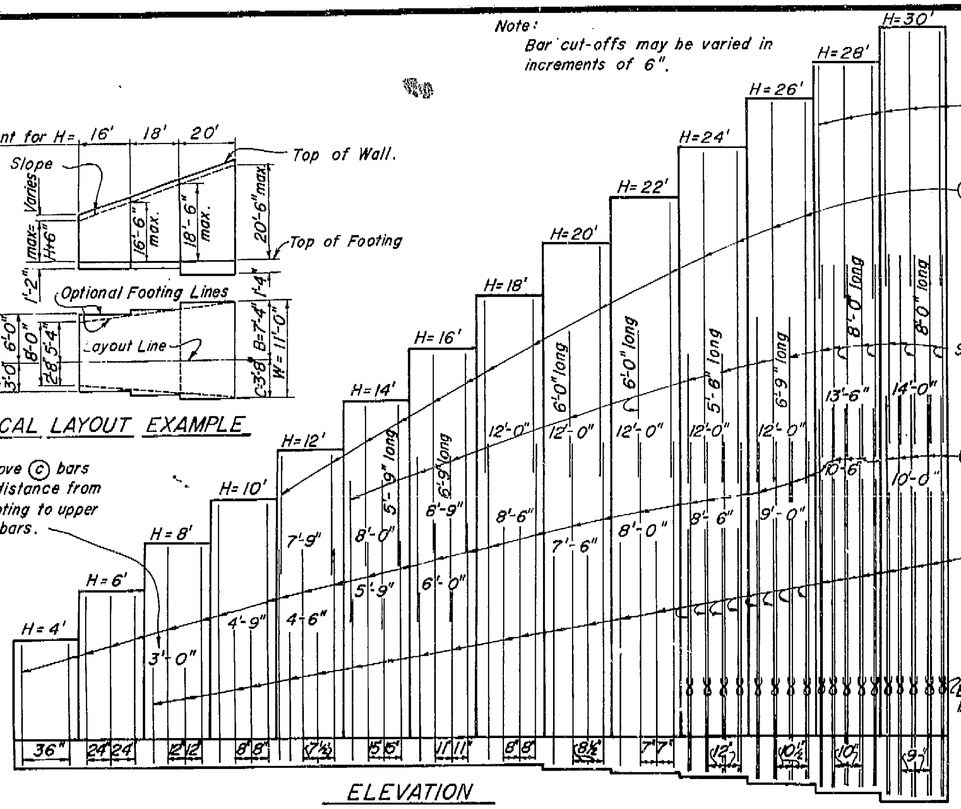
State Highway Engineer — Civil Engineer License No. 5945

Note:
Bar cut-offs may be varied in increments of 6".

Use Reinforcement for H= 16' 18' 20'

TYPICAL LAYOUT EXAMPLE

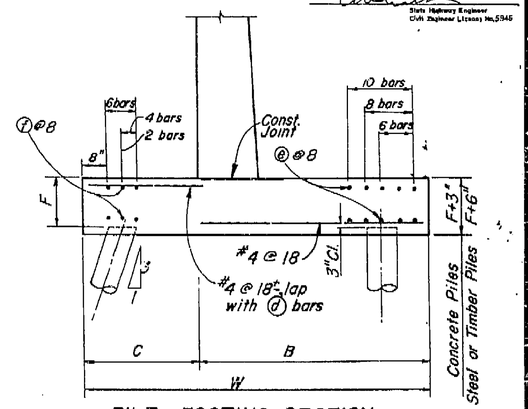
Number above (c) bars indicates distance from top of footing to upper end of (c) bars.



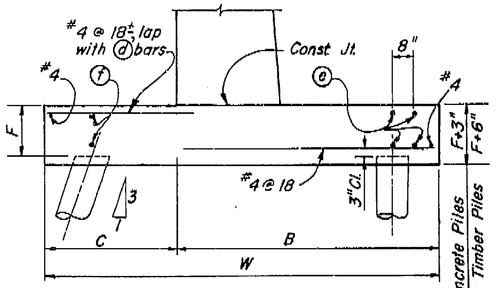
ELEVATION

Layout Line
1'-0"
Gutter Elev. or Toe of slope intersection
Appropriate details at top of wall are shown elsewhere.
For design limits of surcharge and slope see "Retaining Wall Details No.-1" sheet
#4 @ 18
#4 @ 36
Exterior face vertical
Short (b)
Batter Backface
Short (c)
2" Clear
Design H
Construction joint
Stop (c)
H=4 to 22 1'-0"
H=24 to 30 2'-6"
(d) Bundle bars for H=24 to 30
2" Clear
#4 Tot. 7
3" Clear
35 dia.
Optional Key
8" for H ≤ 10'
1'-0" for H ≥ 12'
(W/4 for H ≤ 10'
W/3 for H ≥ 12'
C
B
W

SPREAD FOOTING SECTION



PILE FOOTING SECTION
H= 4 Thru H= 22



PILE FOOTING SECTION
H= 24 Thru H=30

Note:
For details not shown and drainage notes see "Retaining Wall Details No. 1".

Quantities apply to Design H portion and exclude the added portion above "Gutter Elevation."

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 1/22/64, AS SUBMITTED BY RESIDENT ENGINEER T. Nagai
TRACINGS CORRECTED BY: AS DATE: 7/2/64

Note:
Reinforcement detailed is to be placed in addition to that shown for spread footing. All piles not shown, see Pile Layout on other sheets.

◉ For pile footing Design H = 4' use same footing dimensions as Design H = 6'

TABLE OF REINFORCING STEEL DIMENSIONS AND DATA

Design H		◉4'	6'	8'	10'	12'	14'	16'	18'	20'	22'	24'	26'	28'	30'
W		3'-2"	4'-2"	5'-2"	6'-2"	7'-2"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-3"	14'-3"	15'-3"	16'-3"
C		1'-0"	1'-4"	1'-8"	2'-0"	2'-4"	2'-8"	3'-0"	3'-4"	3'-8"	4'-0"	4'-5"	4'-9"	5'-1"	5'-5"
B		2'-2"	2'-10"	3'-6"	4'-2"	4'-10"	5'-4"	6'-0"	6'-8"	7'-4"	8'-0"	8'-10"	9'-6"	10'-2"	10'-10"
F Spread Ftg.		1'-2"	1'-2"	1'-2"	1'-2"	1'-2"	1'-2"	1'-2"	1'-2"	1'-4"	1'-6"	1'-8"	1'-11"	2'-2"	2'-4"
Batter		1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	5/8:12	5/8:12	3/4:12	7/8:12
(a)	bars													#7@20	#7@18
(b)	bars					#5@30	#5@15	#5@11	#6@24	#7@17	#7@14	#8@12	#8@10½	#9@10	#9@9
(c)	bars	#5@36	#5@24	#5@12	#5@8	#6@7½	#10@15	#10@11	#10@8	#11@8½	#11@7	#11@12	#11@10½	#11@10	#11@9
(d)	bars	#5@36	#5@24	#4@12	#4@8	#5@7½	#9@15	#9@11	#9@8	#10@8½	#10@7	#10@12	#10@10½	#9@10	#9@9
Total (e)	bars	6-#6	6-#6	6-#6	10-#7	10-#7	10-#7	10-#7	8-#7	8-#7	8-#7	4-#7	4-#7	4-#7	4-#7
Total (f)	bars				6-#7	6-#7	6-#7	6-#7	4-#7	4-#7	4-#7	2-#7	2-#7	2-#7	2-#7
2' level surcharge	H Comp k	0.85	1.4	2.2	3.1	4.1	5.2	6.5	8.0	9.7	11.6	13.7	16.0	18.6	21.1
	V Comp k	2.3	3.8	5.6	7.7	10.2	12.6	15.6	19.0	24.9	27.3	32.8	38.1	43.9	50.0
	Toe Pr. k/sf	1.4	1.8	2.2	2.5	2.8	3.1	3.5	3.8	4.1	4.6	4.7	5.3	5.7	6.2
2:1 unlimited slope	H Comp k	0.7	1.4	2.3	3.4	4.8	6.3	8.1	10.2	12.6	15.3	18.4	21.7	25.4	29.1
	V Comp k	2.3	3.9	5.8	8.2	11.0	13.9	17.5	21.5	28.3	31.5	38.0	44.4	51.5	58.9
	Toe Pr. k/sf	1.1	1.5	2.0	2.5	2.9	3.4	3.8	4.3	4.8	5.5	5.9	6.5	7.1	7.8
1½:1 limited slope	H Comp k	1.1	2.0	3.1	4.1	5.4	6.9	8.4	10.0	11.8	13.9	16.2	18.6	21.1	23.4
	V Comp k	2.7	4.5	6.5	8.9	11.7	14.2	17.5	21.0	27.1	29.6	35.2	40.7	46.3	52.3
	Toe Pr. k/sf	1.3	1.9	2.4	2.8	3.5	3.8	4.2	4.6	4.9	5.5	5.8	6.4	6.9	7.5
Spread Footing	Steel lbs/ft.	14	20	28	39	56	84	108	169	206	259	328	393	429	484
	Conc. c.f/ft.	8.9	12.6	16.3	20.2	24.3	29.5	33.8	38.5	45.0	52.1	63.1	73.0	87.6	102.7
Concrete pile ftg.	Steel lbs/ft.	24	31	39	74	92	120	144	198	236	289	348	413	449	504
	Conc. c.f/ft.	8.8	12 8	16.7	20.8	25.2	29.5	34.1	39.0	45.8	53.1	64.4	74.6	89.4	104.8

‡ Denotes a bundle of 2 bars

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 6000 1078

DEPARTMENT OF PUBLIC WORKS — DESIGN SECTION — 15

Designed by R.P. Blake
Detailed by B.L.F.
Checked 9-63
Quantities
Estimates
Payment of Bridges
Prepared for Construction
Engr. Services Br.
Bridge Construction Engr.
Bridge Maintenance Engr.

4/63 — STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS — W3-2

SOUTH FRESNO VIADUCT

TYPE I. RETAINING WALL (H = 4' - 30')

SCALE none — BRIDGE 42-226 R/L — XS 3-46 FILE — DRAWING 42226-33

PREL. DRAWING NO. P-

STANDARD DRAWING

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-12 SIGNATURE [signature] TITLE SA ENGR

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"= 50'
SCALE 1"= 10' or 1"= 100'
SCALE 1"= 20'
SCALE 1"= 40'

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FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	41	21.7/22.7	92	161

BRIDGE ENGINEER — CIVIL ENGINEER — LICENSE 5585

DATE APPROVED October 5, 1964

Type 1A Barrier Railing not shown.

#11 cont. tot. 2

#4 ⌊ @ 18

3'-0"

#4 x 21'-0" @ 12 backface

#7

4"d drain @ 15' ctrs. Slope ½" per 1'-0" to drain 1cu. ft. pervious mat'l. in a burlap sack, tied securely.

3'-10"

1'-0"

Pervious bk'fl mat'l. behind wall

#7 tot. 2

#7 x 26'-0" tot. 4

#7 x 20'-0" tot. 4

#7 x 14'-6" tot. 4

Backface

#4] @ 12

#4 x 26'-8" @ 12 backface

Detail J-6

8'-0"

18'-0"

{ #11 5'-0" @ 6 tot. 2 backface
{ #11 ⌊ @ 6 tot. 3 frontface

Short ⓐ

Note: ⊕ Denotes bundled bars

#7 x 11'-6" tot. 2

Detail W-1

Piles not shown

3" ⓒ and ⓓ bars 5" 3" ⓐ and ⓑ bars 1'-3" 1'-0"

9'-0" 18'-0"

ELEVATION

Retaining Wall 3 LOL

Type 1A Barrier Railing

1'-0" 2"

#11 cont

#4 @ 12

#7 splice with ⓓ bar

Vertical

1'-0"

Pervious bk'fl mat'l.

#4 ⌊ @ 18

ⓒ #11 x 20'-0 @ 12

Varies

#4 @ 18

ⓓ #11 x 12'-0" @ 12

2'-5"

#4 tot 12

8"

8"

#4 x 5'-0" @ 36

#10 @ 6

#7 cont. tot. 4

3'-0"

2'-3"

5"

Place concrete in toe against undisturbed mat'l. except as permitted by the Engineer.

#4 x 8'-0" @ 18

#7 cont. tot. 8

1'-6" 2'-6" 1'-0" 5'-6" 1'-6"

4'-0" 8'-0"

SECTION A-A

#7 splice with ⓑ bars

ⓐ #11 x 23'-0" @ 12

ⓑ #11 x 15'-0" @ 12

Short ⓐ #11 x 9'-0" @ 12

2'-6"

For details not shown see Section A-A

SECTION B-B

17'-8" 5'-0" 7'-4" 6'-6"

#11 ⌊ @ 6 tot. 2 5'-0"

#7

Ret. Wall 3 LOL R=3979'

1'-2"

#4

Detail J-6

#11 ⌊ @ 6 tot. 3

#4 @ 18

1'-6"

4'-1" 8'-7" 4'-6" 7'-4 2 @ 4'-1" = 8'-2" 6'-6" 3 @ 3'-3" = 9'-9" 1'-6" 2nd. Row 1st. Row

28'-0"

SECTION C-C

Note:

+ indicates 16" C.I.D.H. vertical pile.
† indicates 16" C.I.D.H. 1:3 battered pile.

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/29/66; AS SUBMITTED BY RESIDENT ENGINEER L. NAGAI
TRACINGS CORRECTED BY: AS DATED 7/7/66

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 600001078

SHEET	OF
26	87

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor R.C. Blak

DESIGN	By	W.A. Banks 9-63
	Checked	J.P. Hunter 1/64
DETAILS	By	Mizutani 9-63
	Checked	J.P. Hunt 1/64
QUANTITIES	By	R.B. Black 2/64
	Checked	D.R. Sudweeks 3/64

Disregard prints bearing earlier revision dates →

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

RETAINING WALL 3

SCALE 3/8" = 1'-0" BRIDGE 42-226 R/L FILE DRAWING 42226-29

PRELIMINARY DRAWING No. P 6/63 3/64

REVISION DATES

92

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-72 SIGNATURE Lonnie E. Coulter TITLE SR RMIO

MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM

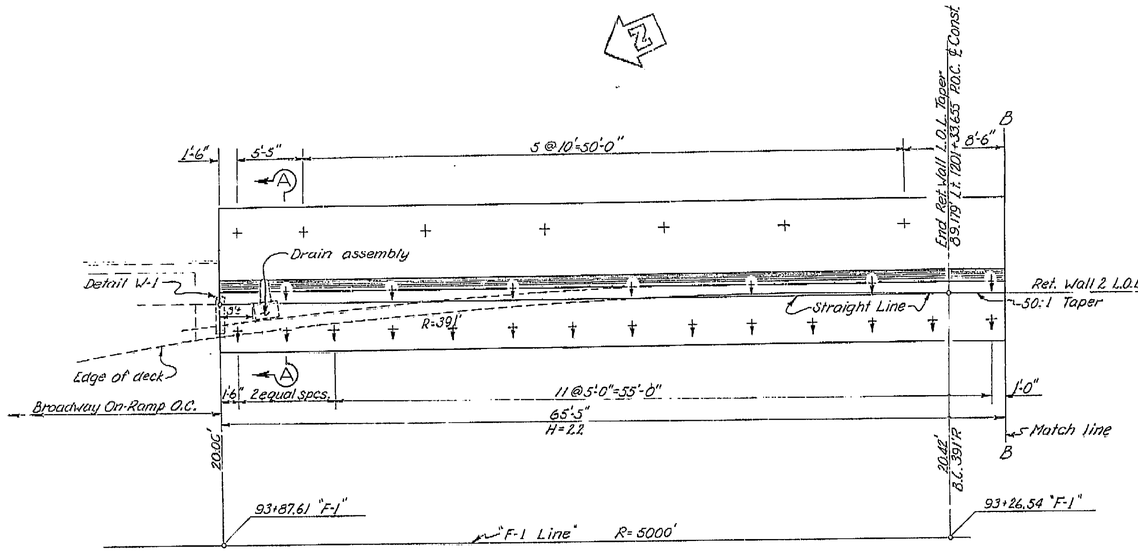
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FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VT	FRE	41	23.9/24.7	91	161

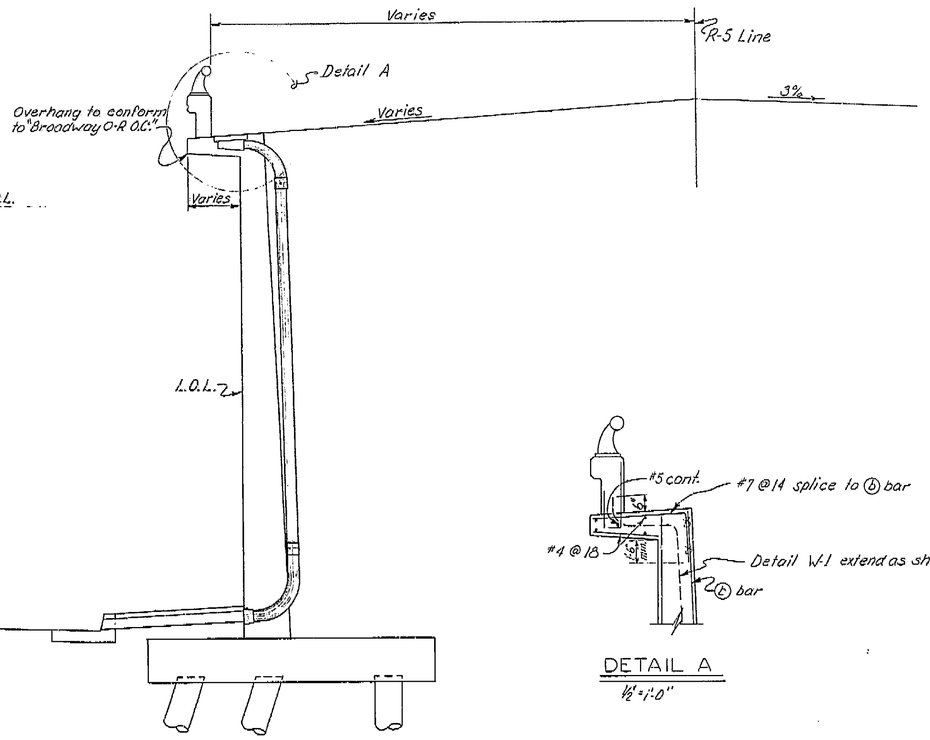
ENGINEER — CIVIL ENGINEER — LICENSED BASE

DATE APPROVED October 5, 1964



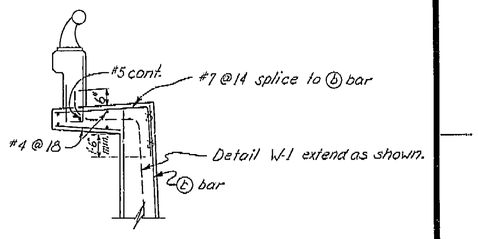
PLAN

3/16"=1'-0"



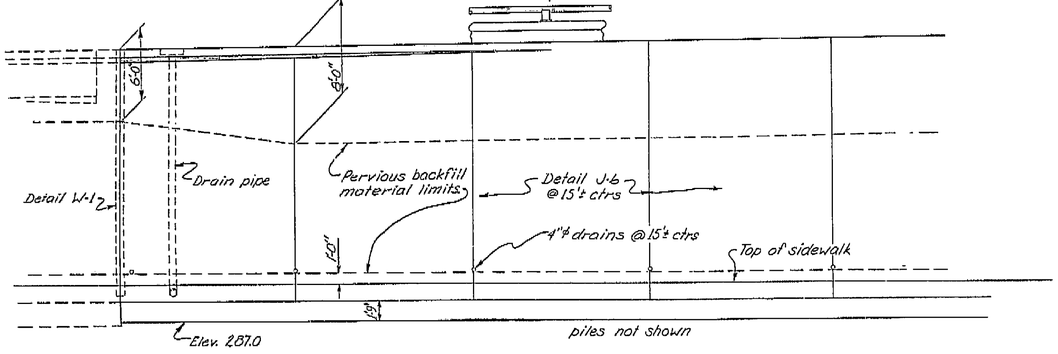
A–A

3/8"=1'-0"



DETAIL A

1/2"=1'-0"



ELEVATION

3/16"=1'-0"

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/29/66, AS SUBMITTED BY RESIDENT ENGINEER T. NAGAI
TRACINGS CORRECTED BY: AS DATE: 7/7/66

Note:
For drain details see Type D-2 Drain & Details.
For more notes see "Ret. Wall 2 (1 of 3)."

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

SHEET	OF
25	87

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor R C Blake

DESIGN	By	Vernon A. Bartlett 2-64
	Checked	R. B. Black 2/64
DETAILS	By	Vernon A. Bartlett 2-64
	Checked	R. B. Black 2/64
QUANTITIES	By	R. B. Black 2/64
	Checked	D. Sudweeks 2/64

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

RETAINING WALL 2 (3 OF 3)

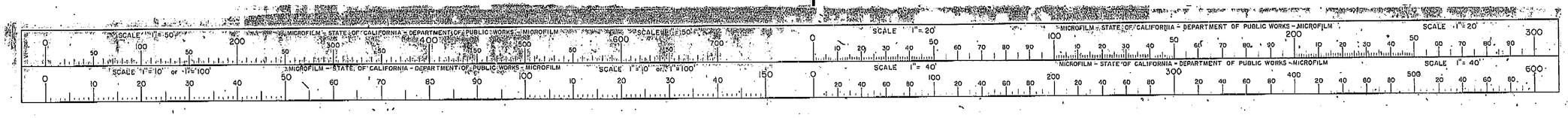
SCALE	BRIDGE	FILE	DRAWING
AS SHOWN	42-226 R/L		42226-76

Disregard prints bearing earlier revision dates

PRELIMINARY DRAWING No.	REVISION DATES
P 3/64 2/64 3/64	

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-72 SIGNATURE [signature] TITLE SR (R)MC



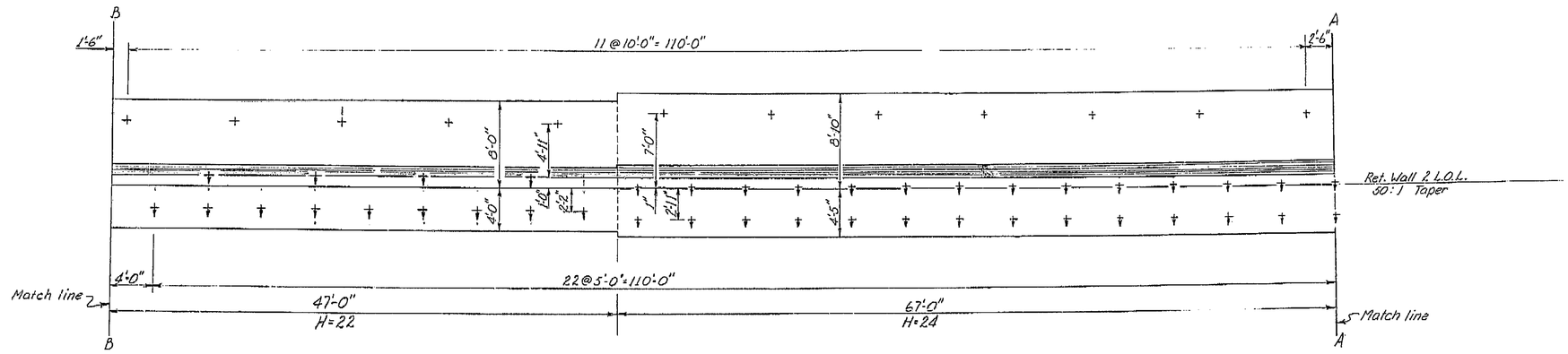
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FED. ROAD DIV. No.	STATE	F. A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.			

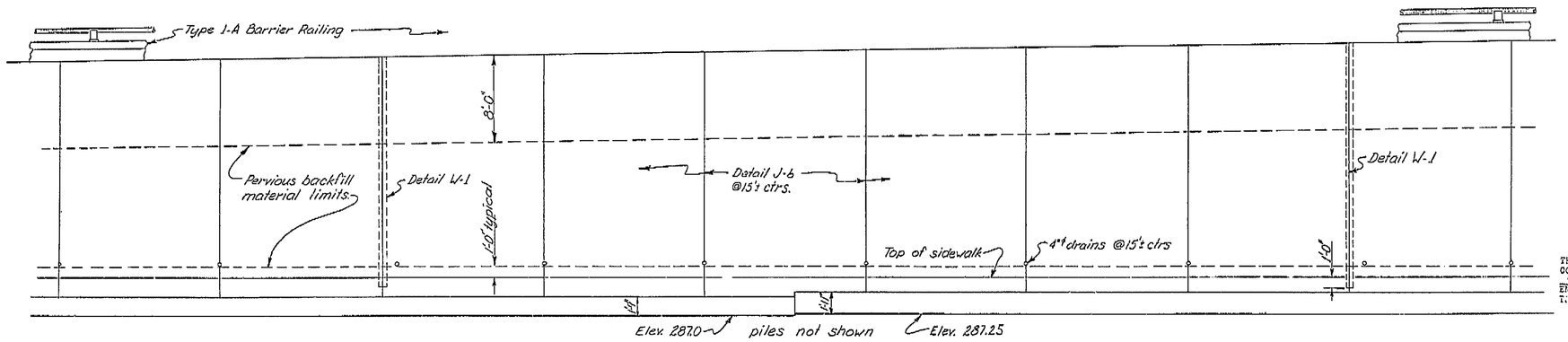
DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	FRE	41	23.7/R27.7	90	161

BRIDGE ENGINEER — CIVIL ENGINEER—LICENSE 5383

DATE APPROVED October 5, 1964



PLAN



ELEVATION

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/29/66, AS SUBMITTED BY RESIDENT ENGINEER T. NAGAI
TRACINGS CORRECTED BY: AS DATE: 7/2/66

Note:
For notes see "Ret. Wall 2 (1 of 3)"

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

SHEET	OF
24	87

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor R.C. Black

DESIGN	By	Vernon A. Banks 2-64
	Checked	R.B. Blg. 2-64
DETAILS	By	Vernon A. Banks 2-64
	Checked	R.B. Black 2-64
QUANTITIES	By	R.B. Black 2/64
	Checked	D. Sudweeks 3/64

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

RETAINING WALL 2 (2 OF 3)

SCALE 3/16" = 1'-0" | BRIDGE 42-226 R1 | FILE | DRAWING 42226-77

PRELIMINARY DRAWING No. P 3/31/66

REVISION DATES

Disregard prints bearing earlier revision dates

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-72 SIGNATURE [signature] TITLE SR. R/W C

90

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"=50' SCALE 1"=20' SCALE 1"=10' or 1"=100' SCALE 1"=40'

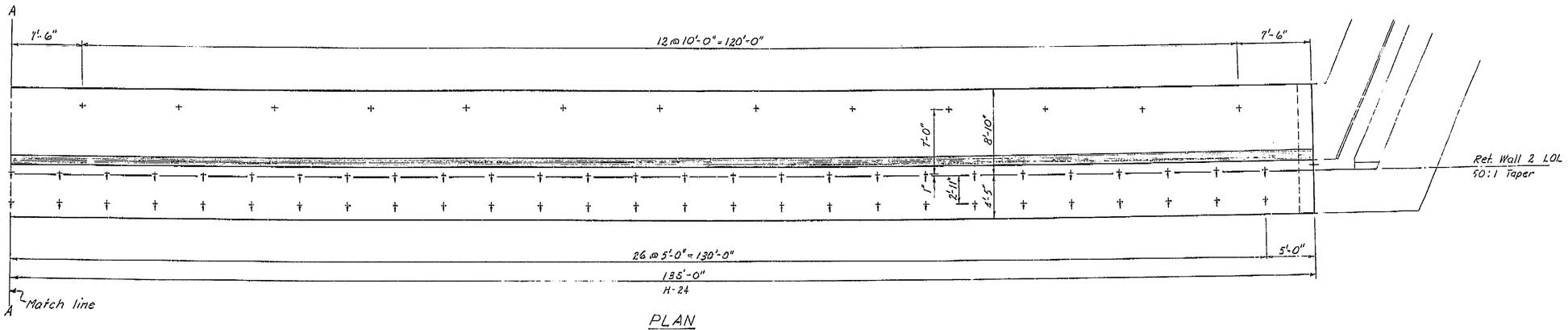
ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

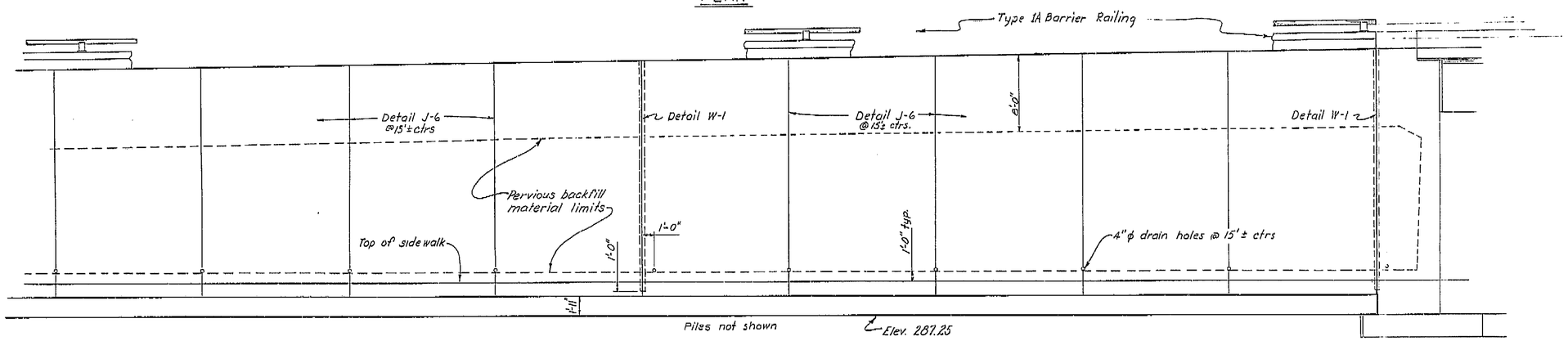
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	41	21W 22W	89	161

BRIDGE ENGINEER - CIVIL ENGINEER - License 5541

DATE APPROVED October 5, 1964



PLAN



ELEVATION

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 6/29/66, AS SUBMITTED BY RESIDENT ENGINEER J. Nagai
TRACINGS CORRECTED BY: AS DATE: 7/7/66

Note: For reinforcement and details see:
"TYPE 1 RETAINING WALL (H = 4'-30')"
"RETAINING WALL DETAILS NO. 1"
+ indicates 16" C.I.D.H. vertical pile.
+ indicates 16" C.I.D.H. 1:3 battered pile.

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

SHEET	OF
23	87

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor R.C. Blake

DESIGN	by	V.D. Banks 9-63
	Checked	J.P. Hunter 1-64
DETAILS	by	Mizutani 10-63
	Checked	J.P. Hunter 1-64
QUANTITIES	by	R.B. Black 2/64
	Checked	D. Sudweeks 3/64

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

RETAINING WALL 2 (1 OF 3)

SCALE 3/16" = 1'-0" BRIDGE 42-226R/L FILE DRAWING 422.26-28

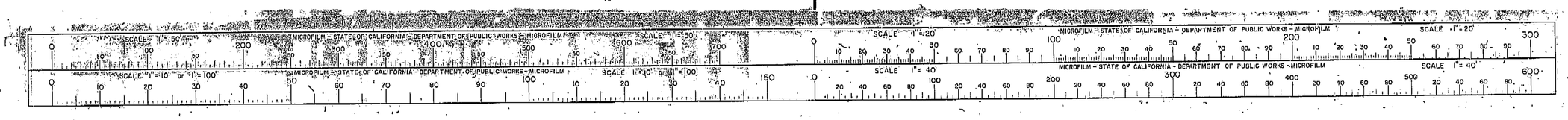
PRELIMINARY DRAWING NO.	REVISION DATES
P.58.1/20 1/30 1/64	

Disregard prints bearing earlier revision dates →

89

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-72 SIGNATURE James E. Court TITLE SR RMC



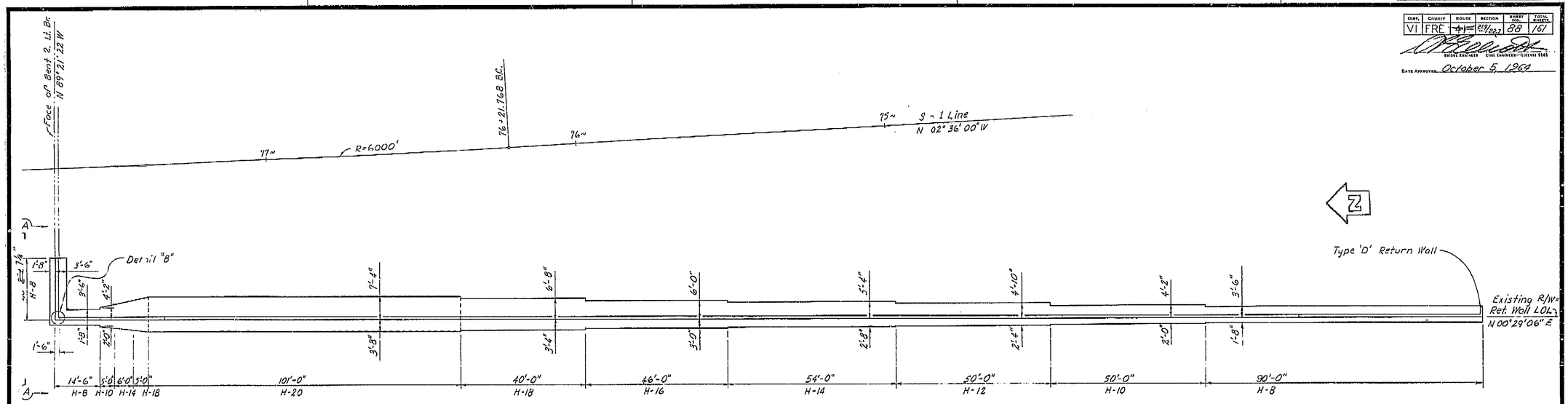
ClibPDF - www.fastio.com

FED. ROAD DIV. No.	STATE	F. A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.			

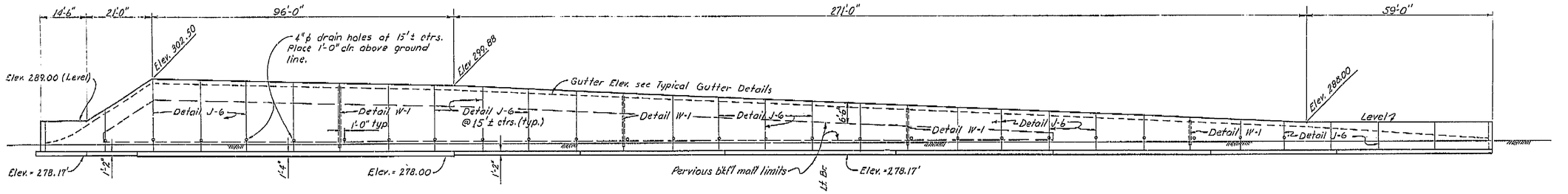
DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	FRE	41	21.4/22.2	88	161

BRIDGE ENGINEER — CIVIL ENGINEER—LICENSE 5845

DATE APPROVED: October 5, 1962



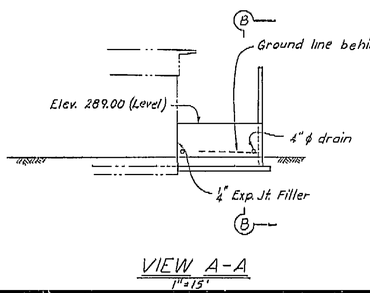
PLAN
1"=15'



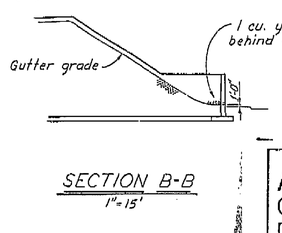
ELEVATION
1"=15'

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 8/29/66, AS SUBMITTED BY RESIDENT ENGINEER T. NAGAI
TRACINGS CORRECTED BY: AS DATE: 7/1/66

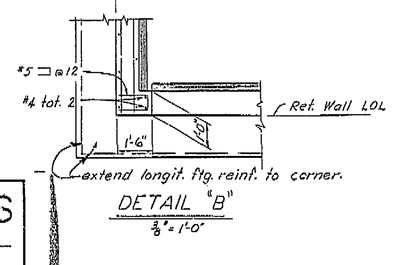
For Retaining Wall details see:
Type 1 Retaining Wall (11+℄-30')
Retaining Wall Details No. 1



VIEW A-A
1"=15'



SECTION B-B
1"=15'



DETAIL "B"
3/8"=1'-0"

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

SHEET	OF
22	87

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor: R C Blake

DESIGN	By D.A. Banks	9-63
	Checked J.P. Hunter	'64
DETAILS	By M. Izutani	9-63
	Checked J.P. Hunter	1/64
QUANTITIES	By R.B. Black	12/63
	Checked D. Sudweeks	12/63

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

RETAINING WALL 1

SCALE AS NOTED | BRIDGE 42-226 R/L | FILE | DRAWING 42226-27

Disregard prints bearing earlier revision dates →

PRELIMINARY DRAWING No. P/26/27/56/94/4 | REVISION DATES

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-72 SIGNATURE [signature] TITLE SR (SUPVG)

88

71

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

SCALE 1"= 50' | SCALE 1"=50' | SCALE 1"=20' | SCALE 1"=20'

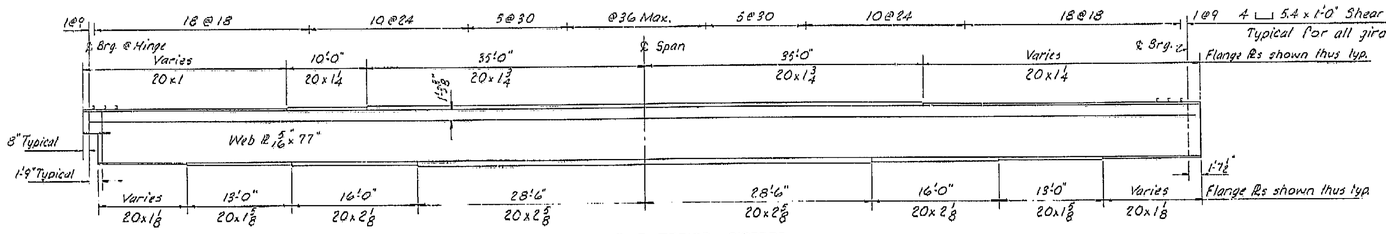
SCALE 1"= 10' or 1"= 100' | SCALE 1"=10' or 1"=100' | SCALE 1"= 40' | SCALE 1"= 40'

ClibPDF - www.fastio.com

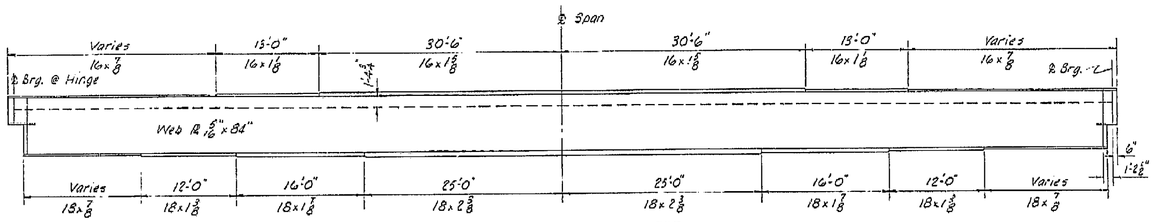
FED. ROAD DIV. NO.	STATE	P. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	POST MILE	TOTAL SHEETS
VI	FRE	~~41~~ 99	~~27R~~ 27L	146	161

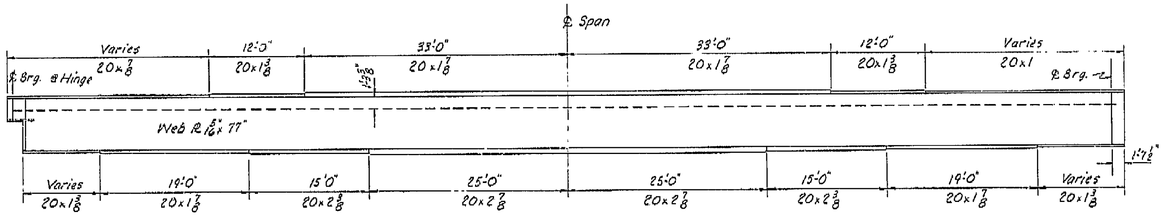
DATE APPROVED: October 5, 1964



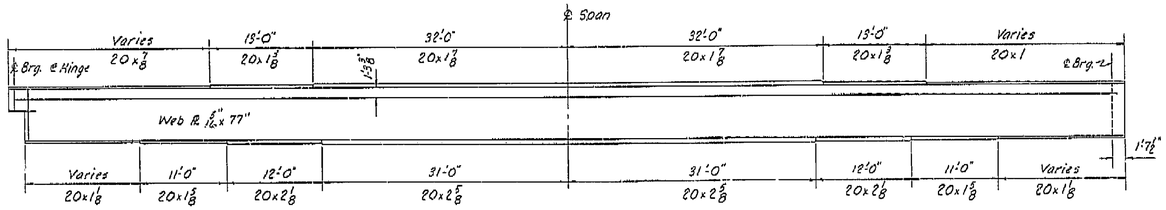
RIGHT BRIDGE EXTERIOR GIRDERS



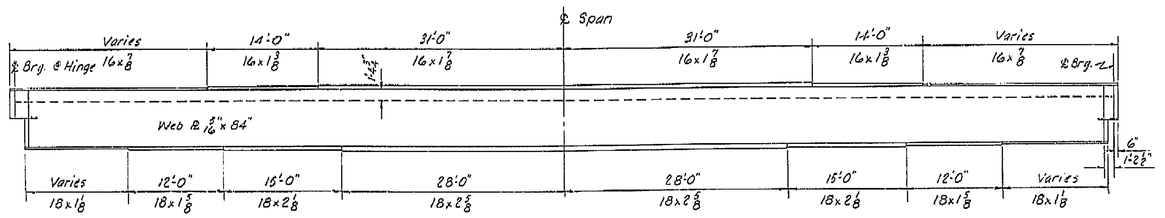
RIGHT BRIDGE INTERIOR GIRDERS



LEFT BRIDGE LEFT EXTERIOR GIRDER



LEFT BRIDGE RIGHT EXTERIOR GIRDER



LEFT BRIDGE INTERIOR GIRDERS

GIRDER ELEVATIONS

℄ SPAN CAMBER COMPONENTS	SPAN 11 GIRDERS			SPAN 12 GIRDERS		
	Lt. Exterior	Interior	Rt. Exterior	Lt. Exterior	Interior	Rt. Exterior
1. Deck Dead Load	0.255	0.208	0.255	0.255	0.208	0.255
2. Curb & Rail	0.010	0.010	0.010	0.010	0.010	0.010
3. Deck Shrinkage	0.098	0.092	0.098	0.098	0.092	0.098
4. Girder Dead Load	0.064	0.057	0.063	0.064	0.057	0.063
5. Vertical Curve	0.098	0.097	0.096	0.084	0.097	0.096
6. HC = Sum 1,2 & 3	~~0.363~~ 0.363	~~0.310~~ 0.310	~~0.363~~ 0.363	~~0.364~~ 0.364	~~0.310~~ 0.310	~~0.363~~ 0.363
7. WC = Sum 1 thru 5	0.525	0.464	0.522	0.511	0.464	0.522

LEFT BRIDGE

℄ SPAN CAMBER COMPONENTS	SPAN 11 GIRDERS			SPAN 12 GIRDERS		
	Lt. Exterior	Interior	Rt. Exterior	Lt. Exterior	Interior	Rt. Exterior
1. Deck Dead Load	0.255	0.200	0.250	0.255	0.200	0.250
2. Curb & Rail	0.010	0.010	0.010	0.010	0.010	0.010
3. Deck Shrinkage	0.098	0.092	0.098	0.098	0.092	0.098
4. Girder Dead Load	0.060	0.055	0.060	0.060	0.055	0.060
5. Vertical Curve	0.090	0.090	0.090	0.094	0.093	0.092
6. HC = Sum 1,2 & 3	~~0.360~~ 0.360	~~0.302~~ 0.302	~~0.358~~ 0.358	~~0.362~~ 0.362	~~0.302~~ 0.302	~~0.358~~ 0.358
7. WC = Sum 1 thru 5	0.513	0.447	0.508	0.517	0.450	0.510

RIGHT BRIDGE

GIRDER DEFLECTIONS

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60000 1078

Note: Flange R sizes shown are minimum R thickness & length may be adjusted at Contractors option. See "Steel Girder Details 1" for exter.or girder detail at Sent 12 R/L Longitudinal stiffener all girders 4x 3/16

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/29/66 AS SUBMITTED BY RESIDENT ENGINEER J. Nagai
DRAWINGS CORRECTED BY AS DATE 7/12/66

SHEET 1 OF 30187

BRIDGE DEPARTMENT DESIGN SECTION 15		
Section Supervisor: R.C. Clark		
DESIGN	By S. Forster 1-64	Checked B. Thornhill 3-64
DETAILS	By G. Nelson 11/63	Checked B. Thornhill 3-64
QUANTITIES	By D.P. Means 2-64	Checked J.P. Hunter 3-64

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

STEEL GIRDER DETAILS 3

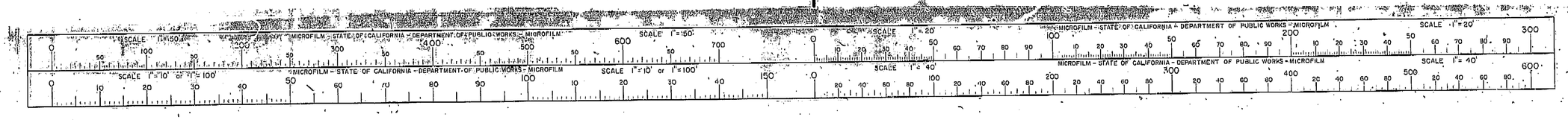
SCALE NONE	BRIDGE 42-226 R/L	FILE	DRAWING 42226-66

Disregard prints bearing earlier revision dates →

PRELIMINARY DRAWING NO.	REVISION DATES
P 2/3 1/64 4/13	

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-77 SIGNATURE [signature] TITLE Sr. RMC



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Rev.-Added ½"r on Section A-A & D-D. Added 2¾" long dim. on Rail Connection det. 1-6-66 FJK

Changed Dim. in Sec E-E 15/16 to 1 1/16". Removed Section from Sec. 2. JTJ 12-8-66

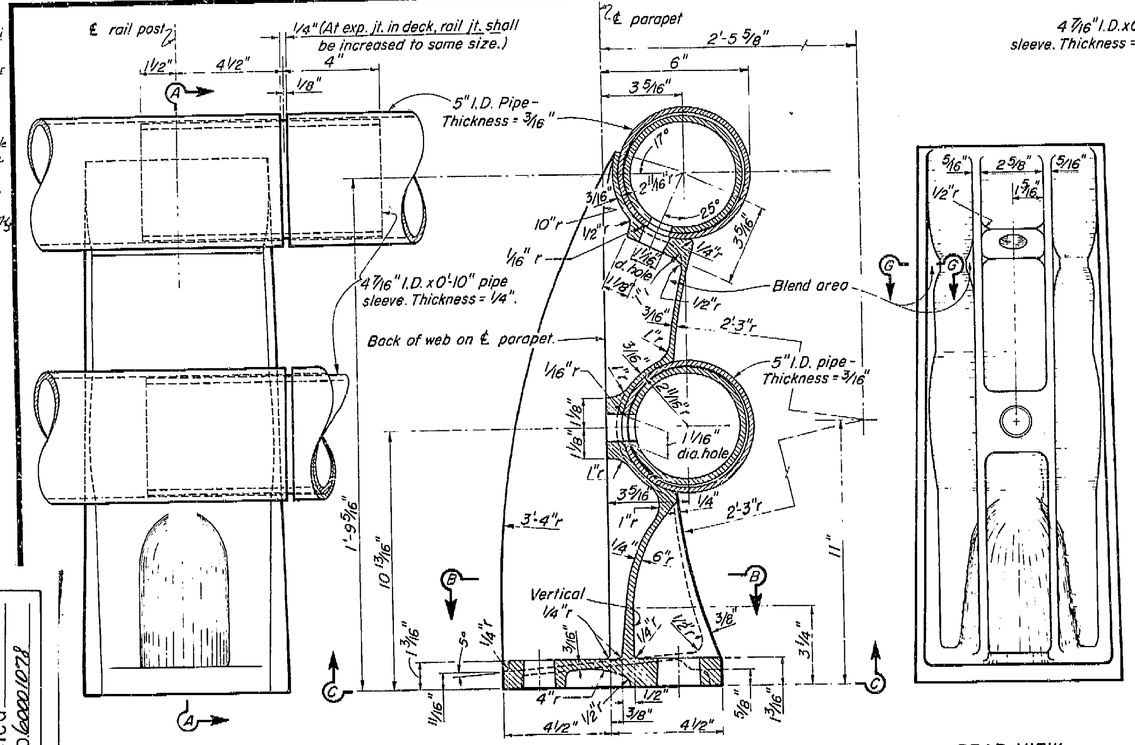
Rev. Notes, lower Right Cor. Rev. Title Block + Co.-Rt.-Sec. Block, Deleted Signature Block + Block above Co.-Rt.-Sec. JTJ 11-17-67

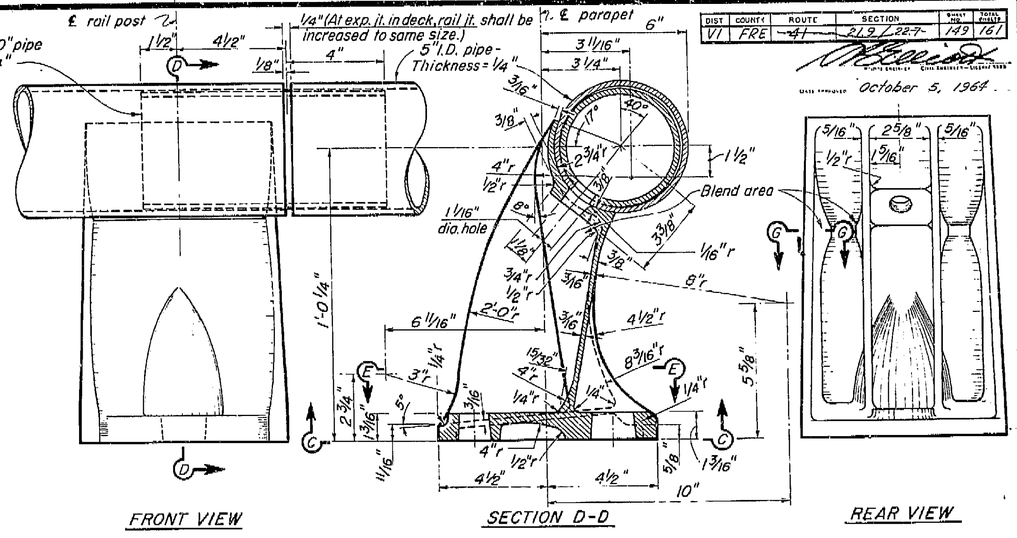
AS BUILT PLANS
Contract No. 11-041234
Date Completed
Document No. 6000078

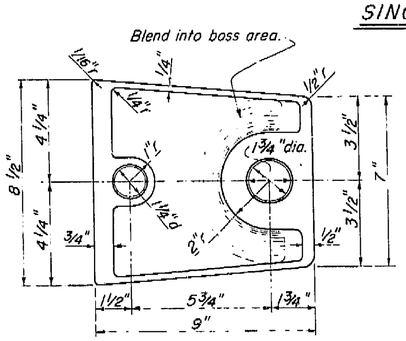
Approved for Microfilming
[illegible]

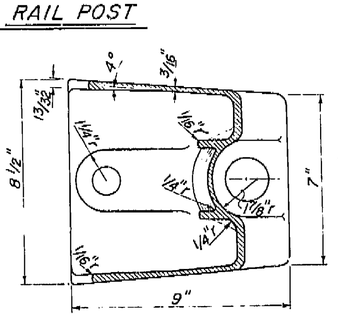
DIST 6 | COUNTY FRE | ROUTE 41 | SECTION 21.9 / 22.7 | SHEET NO 149 | TOTAL SHEETS 161

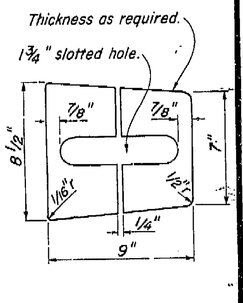
[illegible] October 5, 1964

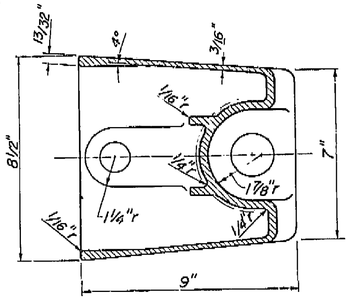


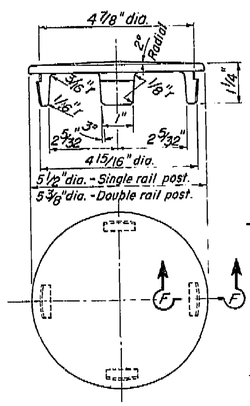


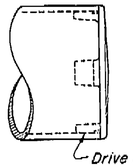


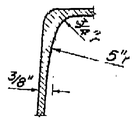


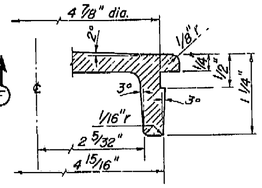


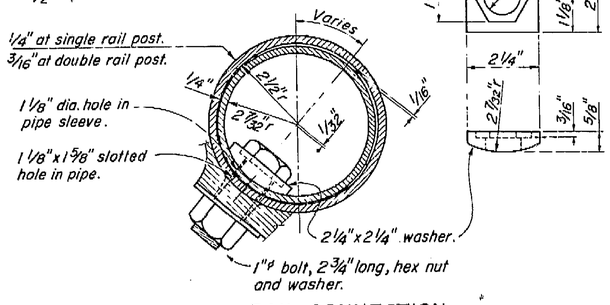


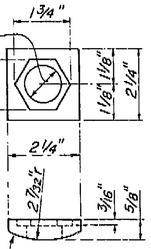












Notes:

1. At the option of the contractor, material for the railing shall be ferrous or aluminous. Details are shown for aluminum pipe rail. Steel pipe rail shall be 3/16" thick with 5" I.D. Rail post dimensions shall be revised as necessary to fit the steel pipe. All pipe sleeves shall have a thickness of ¼".

2. For railing on a horizontal curve of radius less than 150', the pipe rail and sleeves shall be bent to fit the curve.

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/29/66, AS SUBMITTED BY RESIDENT ENGINEER F. NAGAI
TRACINGS CORRECTED BY: AS DATE: 7/7/66

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

12/63 XS-9-71

SOUTH FRESNO VIADUCT

BARRIER RAILING SHEET 2

BRIDGE NO 42-226 R/L | DRAWING NO 42226-84 | SHEET 83 | OF 87

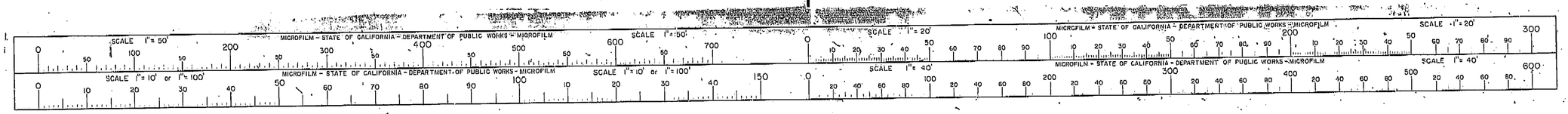
DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)

WO

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-72 SIGNATURE [illegible] TITLE SR ENGR



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Rev Note in "Type 1 Rlng elev" detail. Rounded up decimal Points in quantities 8-1-63 JTJ

Deleted Signature Block and Fed. Road Block above co-rate - see block in upper right hand corner. Rev Title block in lower right Corner. JTJ 8-1-63

Changes in Type 1 Railing Elev, Type 2 + Type 5 Rlng Elevs, Typical Curb + Rail Section Type 1, 1A, 2, + 2A). 11-19-63 JTJ

Changed #4 Cont tot 6 to #5 Cont tot 5 in Type 1 Detail JTJ 12-12-63

Added "4 cont tot 5 to Type 1 Rlng + deleted tot 5 after #5 cont JTJ 1-6-64

AS BUILT PLANS
Contract No. 14-D14234
Date Completed
Document No. 6000078

STANDARD DRAWING
DESIGN DETAILS
Revised [illegible] 1963
Approved [illegible] 1963
Approved [illegible] 1963

DIST	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	41	21.9/22.7	148	161

DATE APPROVED October 5, 1964

Length for payment
2'-6" 1" 1'-0" 10'-0" max. 10'-0" max.
Top of end post parallel to profile grade.
Exp. jt. filler (180 p.s.i.) See notes H and C.
℄ Electrolier
Rail cap
1'-0" 7" 7" 1'-0"
Omit chamfer for 1'-6" @ electrolier, edger finish.
Electrolier anchor bolts.
Pull Box Type 1 2-#4x5'-0"
#4x5'-0" ctr. over pull box.
℄ electrolier and railing base
#4, 2 per pull box.
Reinf. 47 lbs.
3'-0" Type 1 & 1A
#4 @ top
#4 tot. 5
#4 total 6
9" min.
9"
2½" typ
3¼" drain
3'-0" min.
#5 @ 9" See typ sec.
#5 @ 4½" tot. 5 each side of joint.
#4 @ 18"
#5 @ 9" See Typ. Sec.
#5 tot. 9
#4
2-#5 x 4'-0"
2-#5 x 4'-0"
2-#4 dowels - tot. 4
#5 @ 4½" tot. 3 each side of pull box.
1'-0"
SECTION A-A
SECTION B-B

TYPE 1 RAILING ELEVATION

Length for payment
Omit chamfer for 1'-6" @ electrolier, edger finish.
Future end of pipe railing
℄ future elect. ℄ rail post
2'-6" 1" 1'-0" 10'-0" max.
#4 tot. 5
#4 @ top
Top of end post parallel to profile grade.
½" chamfer (optional)
Top of concrete
Rail cap
9" min.
Shim as required
Reinf. 70 lbs.
Reinf. 60 lbs.
4'-4½" Type 5 & 5A
3'-7" Type 2 & 2A
#4, tot. 6
#4 @ 18"
#5 @ 4½" Total 5 each side of joint.
Exp. jt. filler (180 p.s.i.) See Notes H and C.
#5 @ 9" see typical section
1'-0" 7" 7" 1'-0"
1" cl.
Electrolier anchor bolts.
℄ electrolier and railing base
#5 @ 4½" tot. 3 each side of pull box.
#4 total 4 @ pull box.
#5 x 4'-0" total 4.
3'-0" min.
Pull box - Type 2
2-#5 x 4'-0"
2-#5 x 4'-0"
SECTION C-C
SECTION D-D

TYPES 2 & 5 RAILING ELEVATION

Edge of deck
1'-0" 8" 2'-0"
1" chamfer
#4 cont. tot. 5
#4 @ 18
Const. joint
Gutter grade
#5 Cont.
#4 x 1'-2" @ 18
Note "E" 8"
¾" optional
4"
5"
1'-9" ±
3'-0" ±
Barrier Railing
#5 @ 9" to be in place before deck concrete is placed. Contractor may submit alternative detail or method of placing dowels for approval.
#4 cont-tot. 5
#5 @ 9"
2½"
#4 @ 18
#5 @ 9"
#4 x 1'-2" @ 18
#4 @ 18
1" chamfer
#5 @ 9"
1½" rad.
1½"
1'-5½"
1'-3"
3'-7" ±
1" r optional
#4 @ 18"
2⅝" Varies 3½" min.
Gutter grade
#4 x 1'-2" @ 18"
Edge of deck.
#4 @ 18
#5 2'-6" @ 9
#4 cont-tot. 7
10" min.
1'-4"
5" typ.
1'-0" typ.
#5 @ 9"
#4 x 1'-2" @ 18"
1'-0" 5'-0" except as noted
#4 cont. tot. 4
1" chamfer
#5 @ 18"
#4 cont. @ 18±
2'-0"
4'-4½" ±
1" optional
1½" rad.
1" min.
1'-5½"
#4 @ 18
#5 @ 9"
1'-0" 5'-0" min.
#4 @ 18"
#5 @ 18"
#4 cont. @ 18±
Const. joint
Permissible const. joint
6"
#5 @ 9"
#4 x 1'-2" @ 18"

NOTE: Types 1A, 2A and 5A are similar to Types 1, 2 and 5 except as noted.

TYPE 1 — Conc. 1.39 cu. ft./lin. ft. Reinf. 10.1 lbs./lin. ft.

TYPE 1A — Conc. 1.39 cu. ft./lin. ft. Reinf. 9.5 lbs./lin. ft.

TYPE 2 — Conc. 3.43 cu. ft./lin. ft. Reinf. 15.8 lbs./lin. ft.

TYPE 2A — Conc. 4.30 cu. ft./lin. ft. Reinf. 16.6 lbs./lin. ft.

TYPE 5 — Conc. 6.13 cu. ft./lin. ft. Reinf. 18.7 lbs./lin. ft. } For 5'-0" width and 1½% deck cross slope.

TYPE 5A — Conc. 6.51 cu. ft./lin. ft. Reinf. 19.5 lbs./lin. ft.

TYPICAL CURB AND RAIL SECTIONS

℄ parapet
3" 2¾" 3½" 3"
¾" x 8" bolt with hex. nut and washer. (all galv.)
1¼" x 1'-0" bolt with hex. nut and washer. (all galv.)

RAIL POST ANCHOR BOLT DETAILS

Scale: 1½" = 1'-0"

NOTES

A. Railing shall conform to theoretical horizontal and vertical alignment.

B. Posts shall be normal to railing.

C. Curb and wall joints to be located at all deck joints, at ℄ piers or bents and at uniform spacing (40' max.). Joint size to be ½" min. and increased to match width of actual deck opening.

D. Construct 3" deep x 12" wide overflow scupper 2" above deck at low points in grade, and as shown on "Structure Plans."

E. Dimension will vary with cross-slope of deck.

F. Walls are to be backfilled before railing is placed.

G. Clearance to reinforcing steel in curb and railing to be 1". Longitudinal reinforcement to stop at all joints in railing.

H. As an alternative an open joint may be used in Type 1 and Type 2 railings.

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 6/29/66, AS SUBMITTED BY RESIDENT ENGINEER L. Wagar
TRACINGS CORRECTED BY: RS DATE: 7/7/66

12/63 — STATE OF CALIFORNIA, DEPARTMENT OF PUBLIC WORKS, DIVISION OF HIGHWAYS — File XS-9-63

SOUTH FRESNO VIADUCT

BARRIER RAILING SHEET 1

BRIDGE NO.	DRAWING NO.	SHEET	OF
42-226 R/L	42226-83	82	87

W.O. Disregard prints bearing earlier revision dates →

REVISION DATES (PRELIMINARY STAGE ONLY)

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.
DATE 2-17-72 SIGNATURE [signature] TITLE SR ENG

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

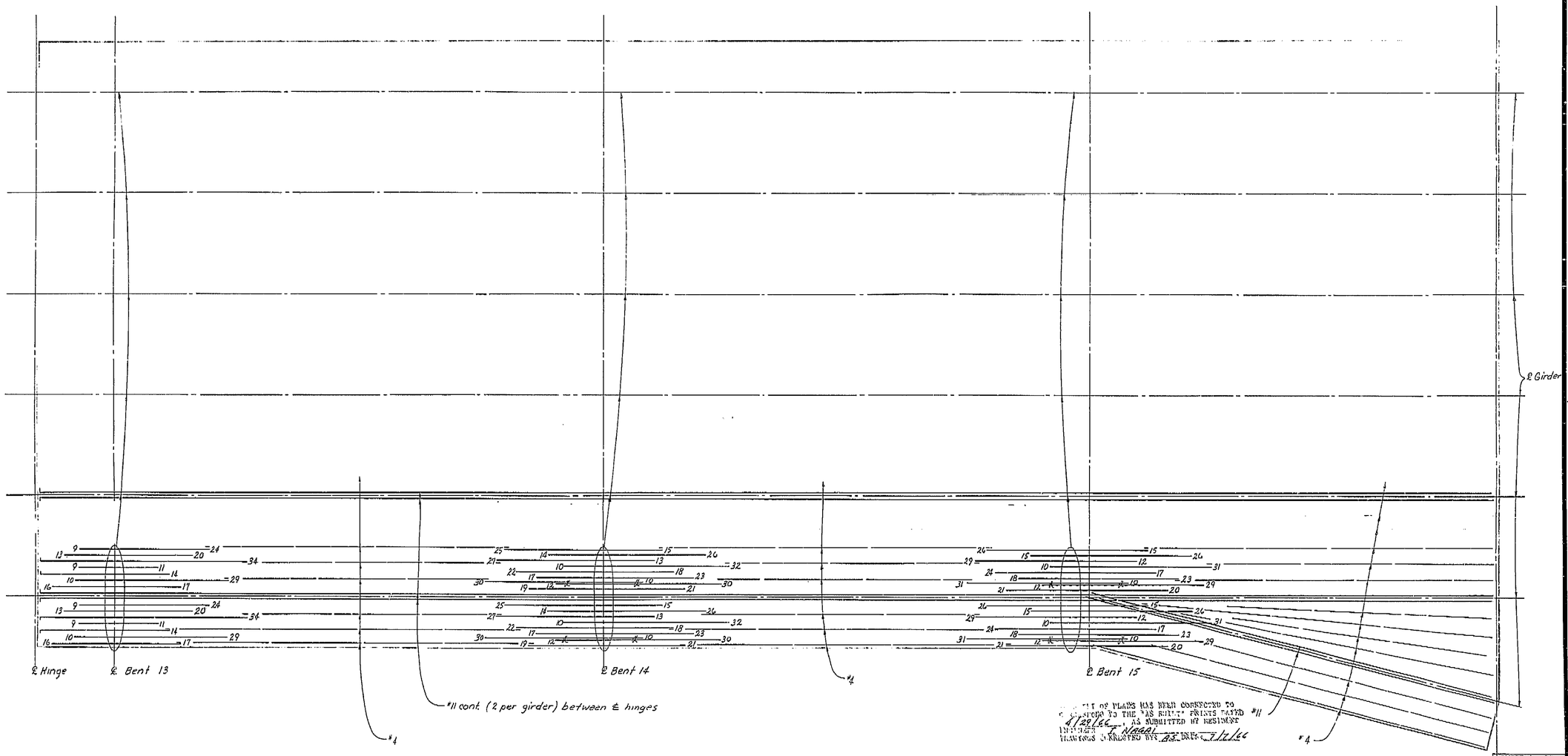
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FED. ROAD DIV. No.	STATE	F. A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	FRE	41	22.6/29.7	140	161

DISTRICT ENGINEER — CIVIL ENGINEER — LICENSE 5345

DATE APPROVED October 5, 1964



SET OF PLANS HAS BEEN CORRECTED TO CONFORM TO THE "AS BUILT" PRINTS DATED 4/29/66 AS SUBMITTED BY RESIDENT ENGINEER NAGAI AND CHECKED BY JS DATE 7/11/66

SHEET	OF
74	87

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

140

BRIDGE DEPARTMENT DESIGN SECTION 15			
Section Supervisor RC Blade			
DESIGN	By	PJ Jurach	1/63
	Checked	L.D. Ricci	12-63
DETAILS	By	Mizutani	10-63
	Checked	L.D. Ricci	12-63
QUANTITIES	By	HAFSTAD	1-64
	Checked	MIZUTANI	1-64

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

TOP GIRDER REINF. 5 (RT. BR.)

SCALE NONE | BRIDGE 42-226 R/L | FILE | DRAWING 42226-44

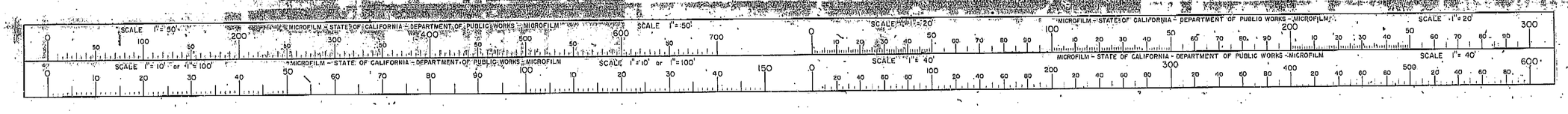
Disregard prints bearing earlier revision dates →

PRELIMINARY DRAWING No. P-1-12-63-17 WR 1 64

REVISION DATES

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DATE 2-14-72 SIGNATURE James E Coutt TITLE SR. RMIO



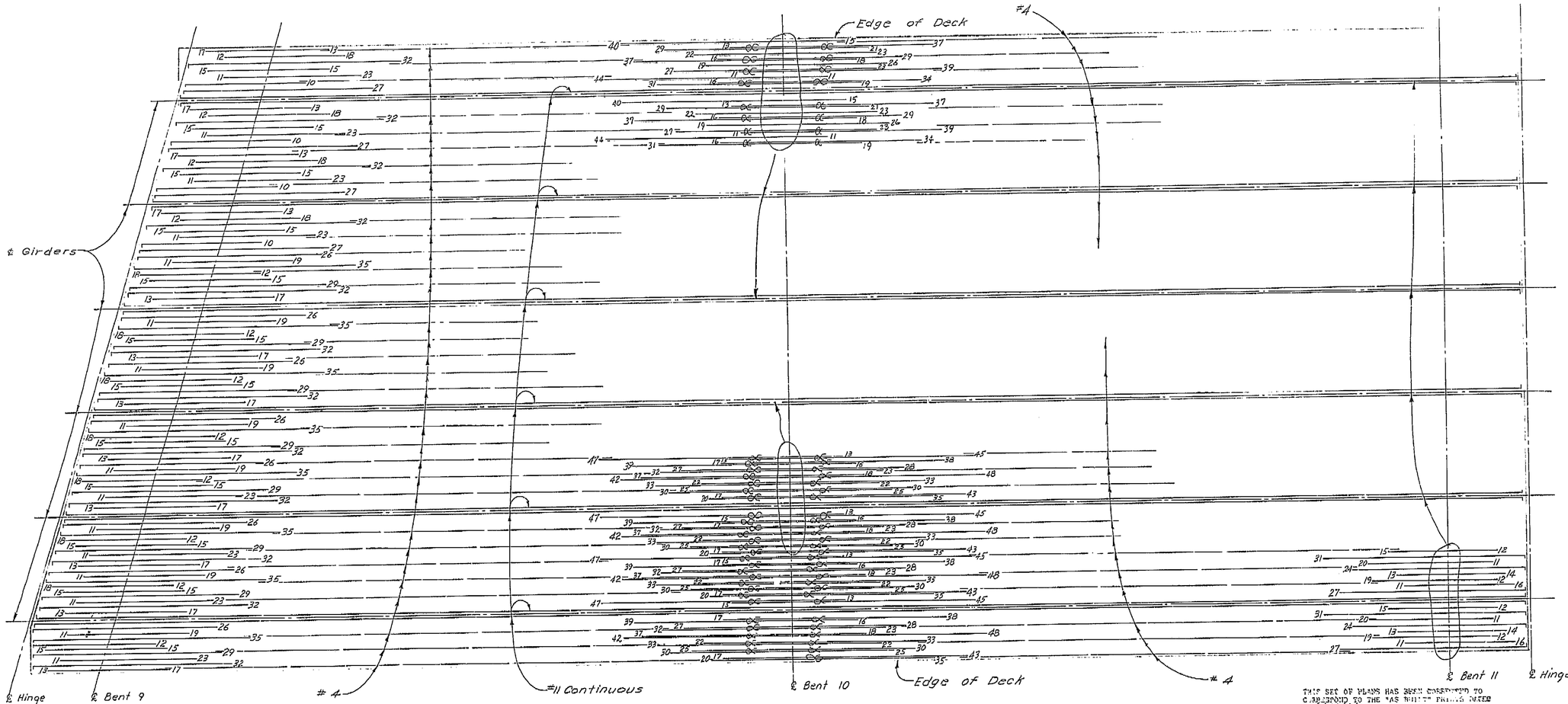
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FED. ROAD DIV. No.	STATE	F. A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	41	21.9/22.1	139	161

BRIDGE ENGINEER — CIVIL ENGINEER — LICENSE 9305

DATE APPROVED October 5, 1964



THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PLANS DATED 9/29/66, AS SUBMITTED BY RESIDENT ENGINEER T. NAGAI
CHANGES CORRECTED BY: AS 12/1/66

AS BUILT PLANS
Contract No. 14-0J4234
Date Completed
Document No. 60001078

SHEET	OF
73	87

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor R.C. Blake

DESIGN	By C.R. Mason	9-63
	Checked J.J. Shepherd	11-63
DETAILS	By A.R. Dang Engineer	10-63
	Checked R.S. Mylchreest	11-63
QUANTITIES	By HAPSTAD	1-64
	Checked MIZUTANI	1-64

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

TOP GIRDER REINF. 4 (RT. BR.)

SCALE NONE | BRIDGE 42-226 R/L | FILE | DRAWING 42226-43

PRELIMINARY DRAWING No. P 12/23/63 11/17 MR 1 65

REVISION DATES

Disregard prints bearing earlier revision dates →

139

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DATE 2-14-72 SIGNATURE [illegible] TITLE SR ENG (OMC)

MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM
SCALE 1"=50' SCALE 1"=150' SCALE 1"=20' SCALE 1"=20'
SCALE 1"=10' or 1"=100' SCALE 1"=10' or 1"=100' SCALE 1"=40' SCALE 1"=40'

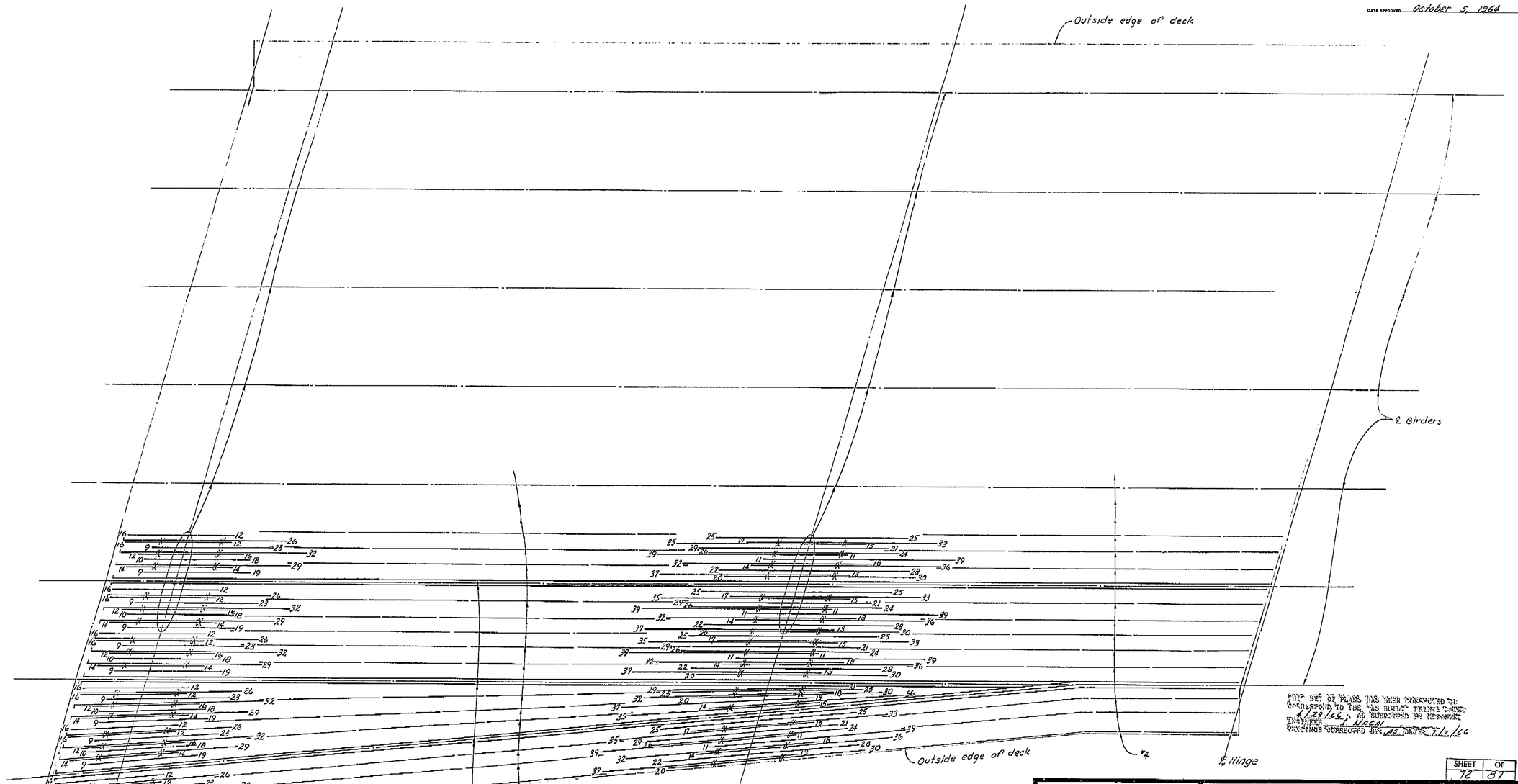
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FED. ROAD DIV. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	~~41~~ 180	21/1927	138	161

DISTRICT ENGINEER — CIVIL ENGINEER—LICENSE 5383

DATE APPROVED: October 5, 1964



THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 1/28/66, AS SUBMITTED BY RESIDENT ENGINEER L. Wren
PREVIOUS CORRECTION BY AS DATED 7/12/66

SHEET	OF
72	87

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor: RC Blakely

DESIGN	By DR Mann	9-63
	Checked C.A. Hilbert	11-63
DETAILS	By MIZUTANI	10-63
	Checked C Jolliffe	11-63
QUANTITIES	By HAFSTAD	1-64
	Checked MIZUTANI	1-64

Disregard prints bearing earlier revision dates →

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

TOP GIRDER REINF. 3 (RT. BR.)

SCALE	BRIDGE	FILE	DRAWING
NONE	42-226 R/L		42226-42

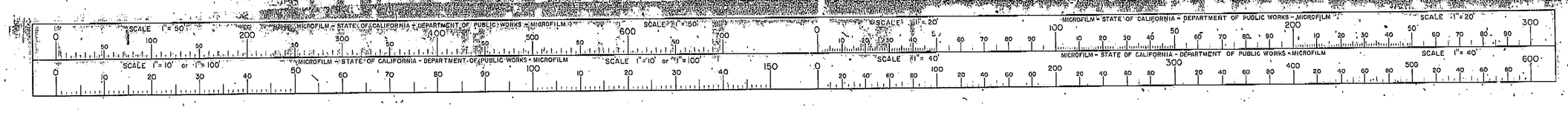
PRELIMINARY DRAWING No. P-1-3-67

REVISION DATES

138

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DATE 2-17-72 SIGNATURE [illegible] TITLE SR RMO



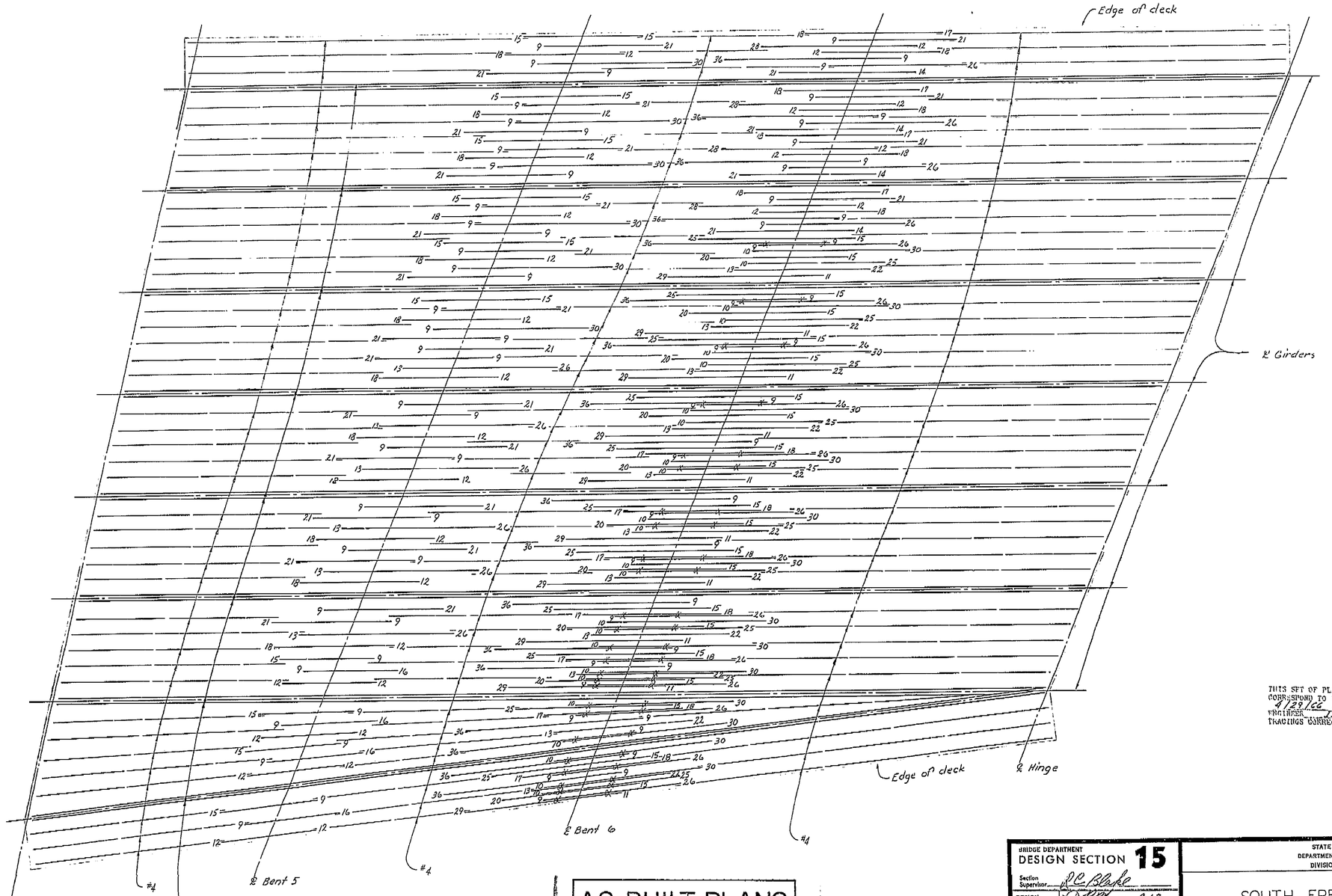
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FED. ROAD DIV. NO.	STATE	F.A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	41	21R/22T	137	161

BRIDGE ENGINEER — CIVIL ENGINEER — LICENSE 5886

DATE APPROVED: October 5, 1964



THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/29/66, AS SUBMITTED BY RESIDENT ENGINEER T. NAGAI
TRACINGS CORRECTED BY: AS DATE: 7/1/66

SHEET	OF
77	87

BRIDGE DEPARTMENT
DESIGN SECTION 15

Section Supervisor	PC Blake	
DESIGN	by DRM	9-63
	Checked C.J. Shurtleff	11-63
DETAILS	by MIZUTANI	10-63
	Checked C.J. Shurtleff	11-63
QUANTITIES	by HAFSTAD	1-64
	Checked MIZUTANI	1-64

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

TOP GIRDER REINF. 2 (RT. BR.)

SCALE NONE | BRIDGE 42-226 R/L | FILE | DRAWING 42226-41

PRELIMINARY DRAWING NO. P [illegible] | REVISION DATES

Disregard prints bearing earlier revision dates →

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

137

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DATE 2-14-72 SIGNATURE [signature] TITLE Sr. R/W

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
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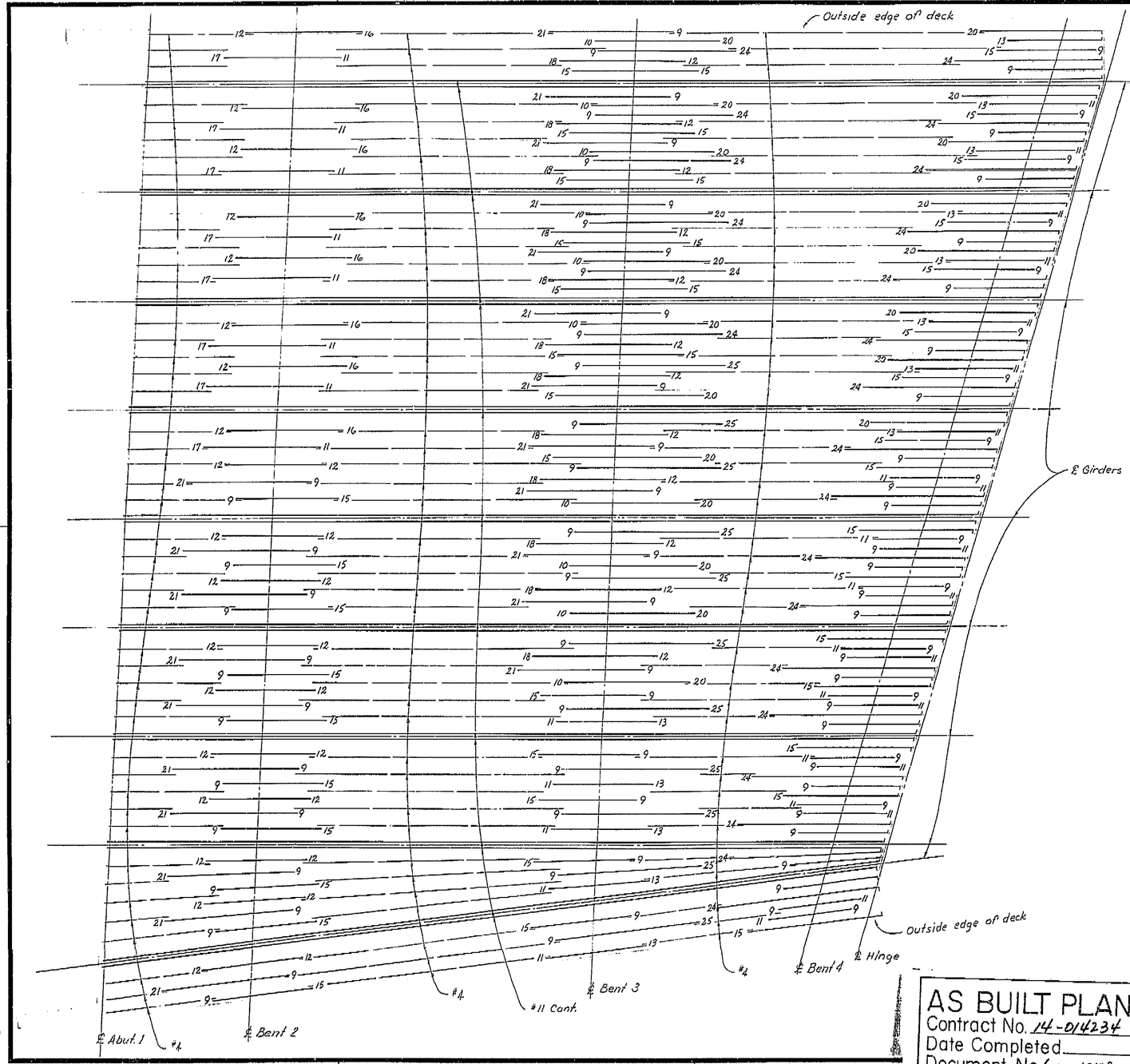
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FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	~~41~~ 180	21R 2007	136	161

Deputy Engineer — Civil Engineer — License 5388

DATE APPROVED: October 5, 1964



THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 9/29/66 AS SUBMITTED BY RESIDENT ENGINEER L. VOGT
TRACINGS CORRECTED BY: RS DATE: 7/2/66

NOTE: ═x═ indicates bundled bars.

All reinforcement #11 unless noted otherwise. Numbers at ends of bars indicate distance in feet from ℄ Bent. Typical for TOP GIRDER REINF. 1 thru 6 RT. BR.

SHEET	OF
70	87

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor R.C. Blake

DESIGN	By	D.K. Mason	11-63
	Checked	R.C. Blake	1-64
DETAILS	By	MIZUTANI	10-63
	Checked	C.J. Hazelet	11-63
QUANTITIES	By	HAFSTAD	1-64
	Checked	MIZUTANI	1-64

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

TOP GIRDER REINF. 1 (RT. BR.)

SCALE NONE | BRIDGE 42-226 R/L | FILE | DRAWING 42226-40

Disregard prints bearing earlier revision dates →

PRELIMINARY DRAWING No. P 2-26-75 | REVISION DATES

AS BUILT PLANS
Contract No. 14-0K4234
Date Completed
Document No. 60001078

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DATE 2-10-72 SIGNATURE Thomas E. Coutt TITLE SR. R/W C

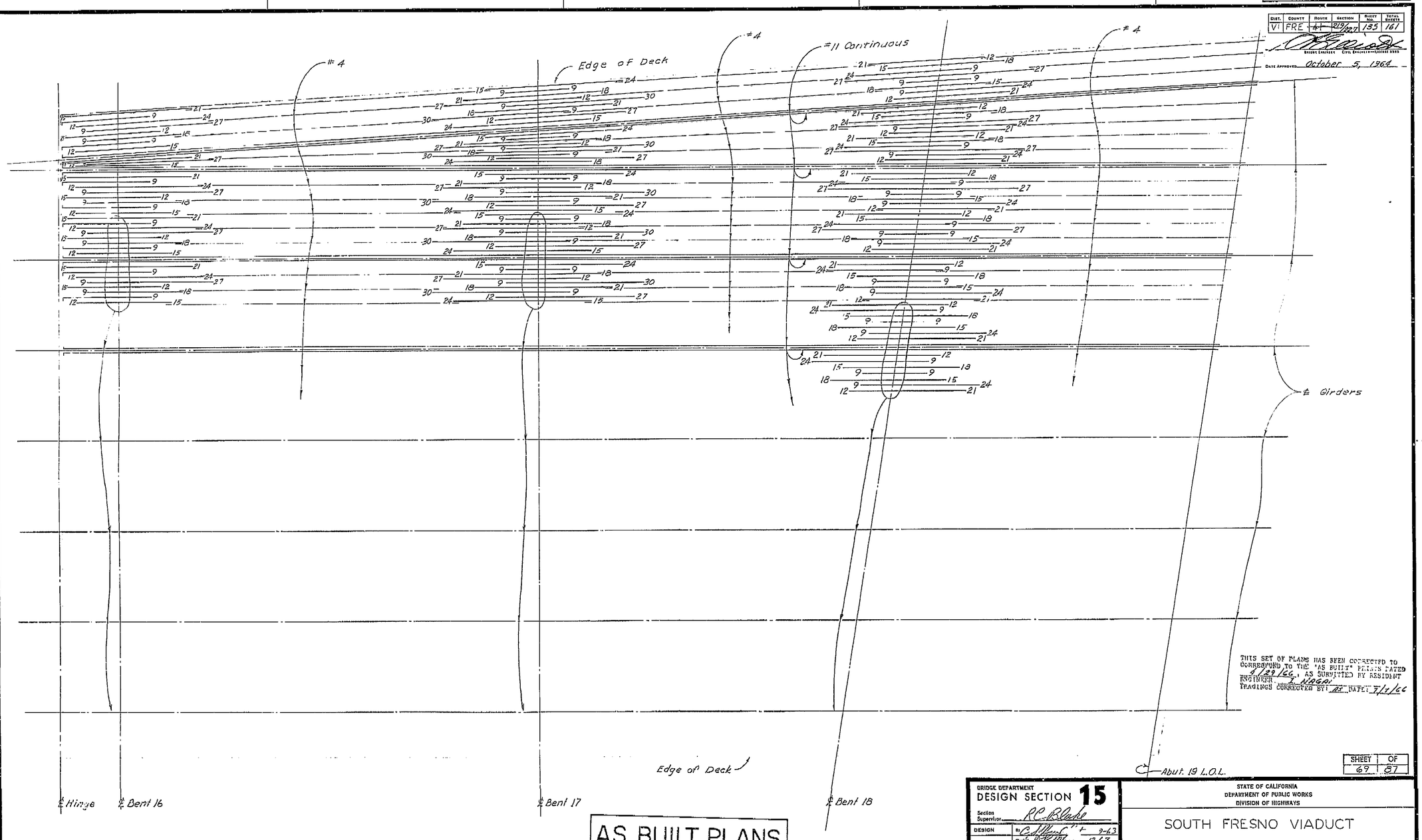
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FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	BRIDGE NO.	TOTAL SHEETS
VI	FRE	41	21.5/22.7	135	161

DATE APPROVED October 5, 1964



THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PLANS DATED 9/29/66, AS SUBMITTED BY RESIDENT ENGINEER J. NAGAI
TRACINGS CORRECTED BY: RT DATE: 5/2/66

SHEET 69 OF 87

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

135

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor R.C. Blake

DESIGN	By C. Hunt	9-63
	Checked D.R. Wilson	12-63
DETAILS	By L. Hutchinson	10-63
	Checked D.R. Wilson	12-63
QUANTITIES	By HAFSTAD	1-64
	Checked MIZUTANI	1-64

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

TOP GIRDER REINF. 6 (LT. BR.)

SCALE NONE | BRIDGE 42-226 R/L | FILE | DRAWING 42226-31

Disregard prints bearing earlier revision dates →

PRELIMINARY DRAWING No. P-104/3/27 (121.3)

REVISION DATES

118

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DATE 3-14-72 SIGNATURE [signature] TITLE SR. ENGR

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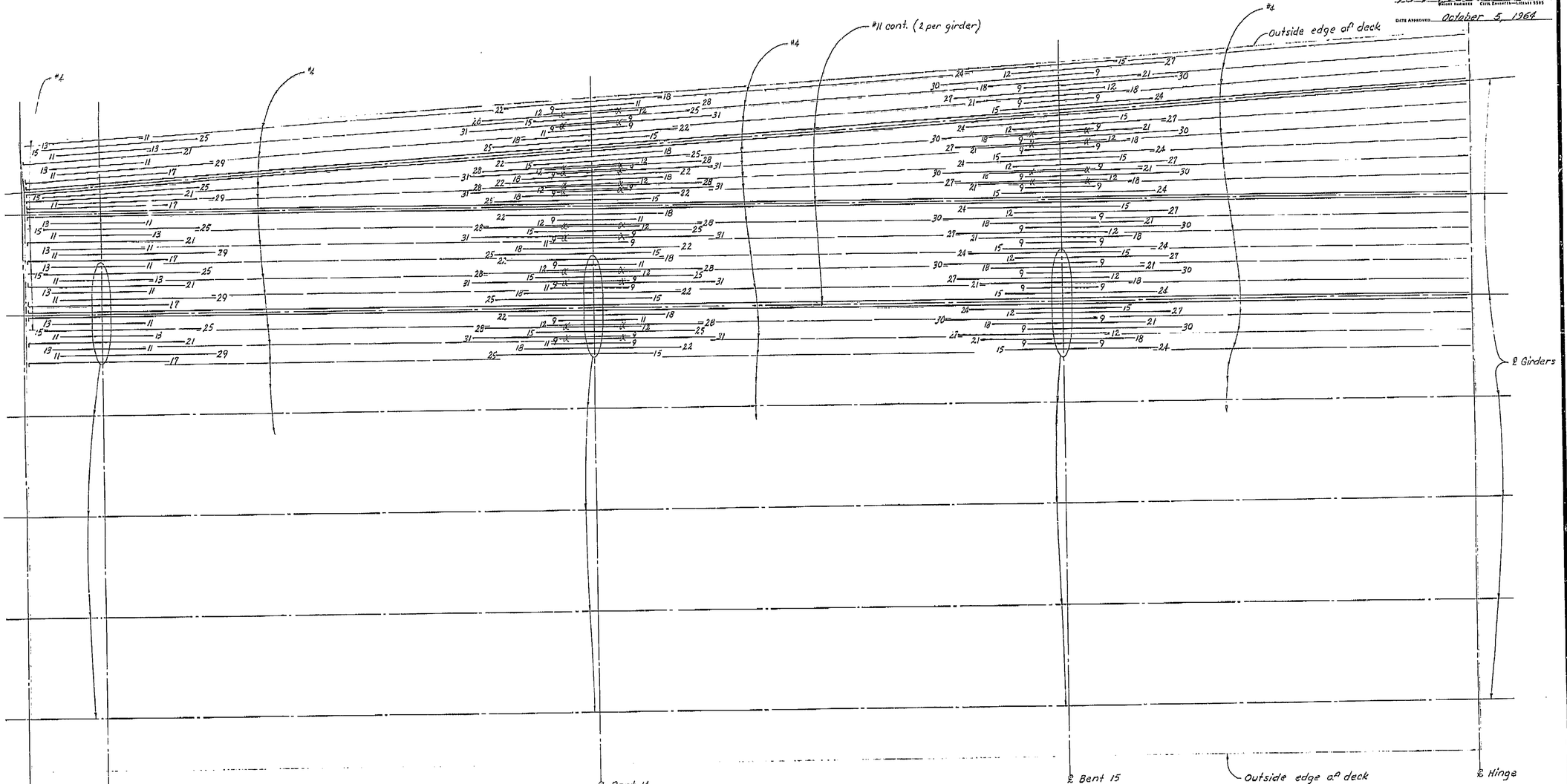
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FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	41	27/28	134	161

BUDGET ENGINEER — CIVIL ENGINEER—CHARGE 5065

DATE APPROVED October 5, 1964



THIS SET OF PLANS WAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" CHANGES NOTED ON THE 6/29/66 AS SUBMITTED BY RESIDENT ENGINEER T. NAGAI
TRACINGS CORRECTED BY: JS DATE: 7/1/66

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

BRIDGE DEPARTMENT DESIGN SECTION 15		
Section Supervisor	R C Blake	
DESIGN	By Carl Mikuklas	2-13
	Checked D R Mason	12-63
DETAILS	By MIZUTANI	10
	Checked D R Mason	12-63
QUANTITIES	By HAFSTAD	1-64
	Checked MIZUTANI	1-64

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

TOP GIRDER REINF. 5 (LT. BR.)

SCALE NONE	BRIDGE 42-226 R/L	FILE	DRAWING 42226-30

SHEET 68 OF 87

PRELIMINARY DRAWING No. PS 42-226-37 VAR 1 & 2

REVISION DATES

Disregard prints bearing earlier revision dates →

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DATE 2-14-72 SIGNATURE [signature] TITLE SR ENG

134

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
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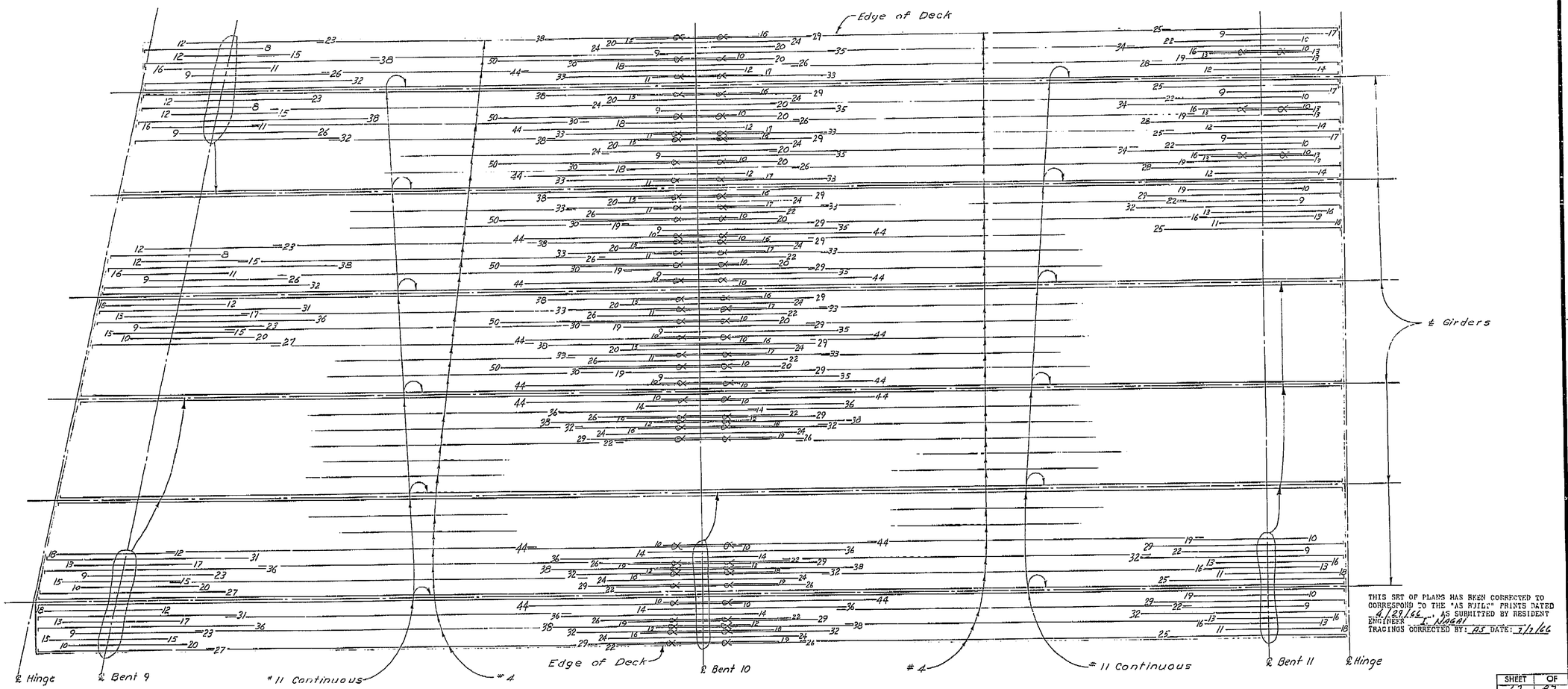
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FED. ROAD DIV. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	41	21.9/22.7	133	161

BRIDGE ENGINEER — CIVIL ENGINEER—LICENSE 5099

DATE APPROVED October 5, 1964



THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/29/66, AS SUBMITTED BY RESIDENT ENGINEER L. Nagel
TRACINGS CORRECTED BY: RS DATE: 5/2/66

SHEET	OF
67	87

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor RC Blake

DESIGN	By	L O Ricci	12-63
	Checked	P J Jr	12/63
DETAILS	By	[illegible]	10-63
	Checked	P J Jurach	12/63
QUANTITIES	By	HAFSTAD	1-64
	Checked	HIZUTANI	1-64

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

TOP GIRDER REINF. 4 (LT. BR.)

SCALE NONE | BRIDGE 42-226 R/L | FILE | DRAWING 42226-39

PRELIMINARY DRAWING NO. P-[illegible] 1964 | REVISION DATES

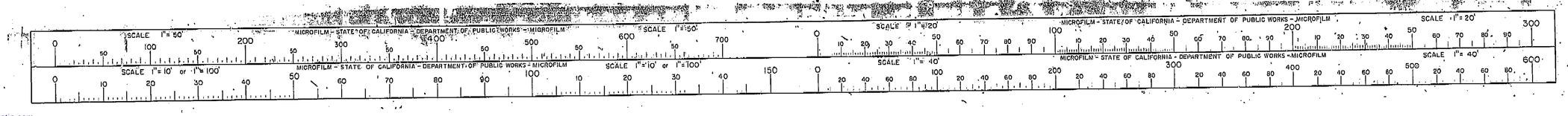
Disregard prints bearing earlier revision dates →

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

133

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DATE 2-14-77 SIGNATURE [signature] TITLE SR RMO



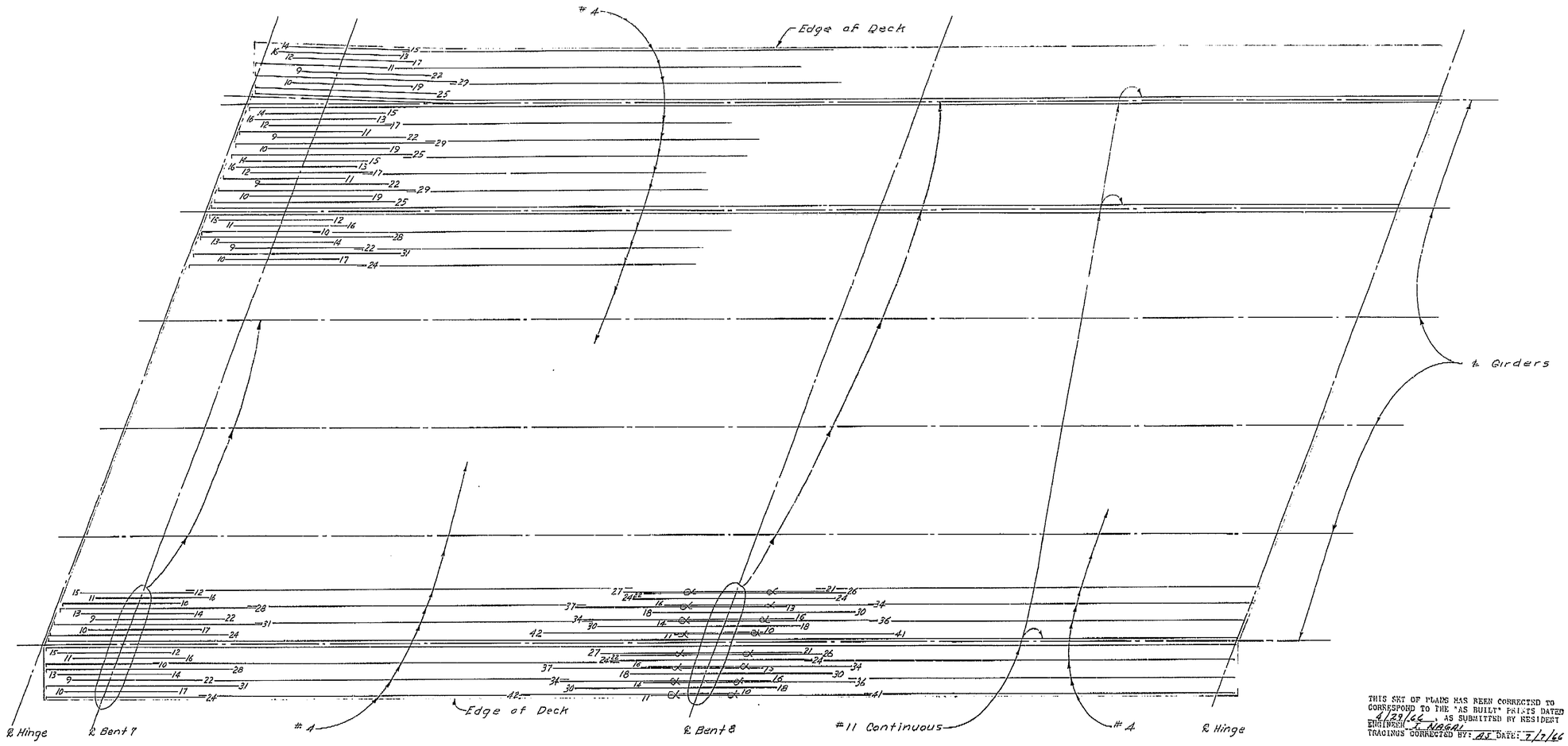
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FED. ROAD DIV. No.	STATE	F. A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	FRE	~~41~~ 99	21.9/22.7	132	161

Bridge Engineer — Civil Engineer—License 8585

DATE APPROVED: October 5, 1966



THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/29/66, AS SUBMITTED BY RESIDENT ENGINEER E. NAGAL
TRACINGS CORRECTED BY: AS DATE: 7/7/66

SHEET	OF
66	87

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

132

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor: R.C. Rahl

DESIGN	By	L.O. Ricci	12-63
	Checked	P.J. Juroch	12/63
DETAILS	By	M.T. Hasbe	10-63
	Checked	P.J. Juroch	12/63
QUANTITIES	By	HAFSTAD	1-64
	Checked	MIZUTANI	1-64

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

TOP GIRDER REINF. 3 (LT. BR.)

SCALE NONE | BRIDGE 42-226 R/L | FILE | DRAWING 42226-38

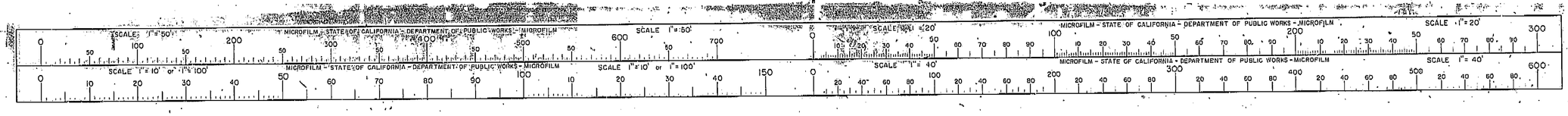
Disregard prints bearing earlier revision dates

PRELIMINARY DRAWING No. P-5-63, 5-7-2 Nov. 8 64

REVISION DATES

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-72 SIGNATURE Tommy E. Court TITLE Sr. R/W C



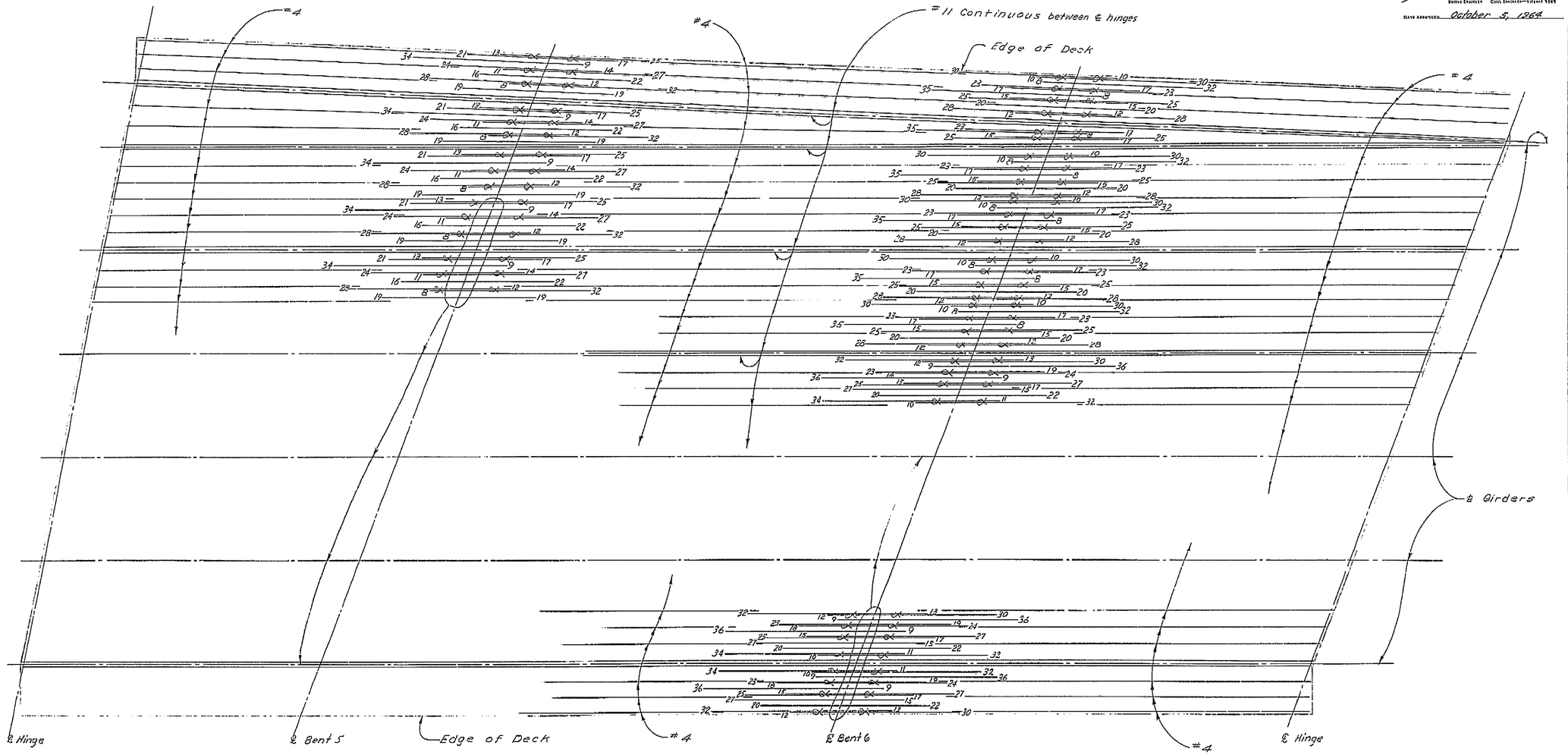
ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	41	21.9/R22.1	131	161

BRIDGE ENGINEER — CIVIL ENGINEER—ELECTRICAL ENGR

DATE APPROVED: October 5, 1964



THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/29/66, AS SUBMITTED BY RESIDENT ENGINEER T. NAGAI.
TRACINGS CORRECTED BY: BS DATE: 7/12/66

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

SHEET	OF
65	87

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor RC Blake

DESIGN	by	L.D. Ricci	12-63
	Checked	P.J. Juroch	1/64
DETAILS	by	[illegible]	11-63
	Checked	P.J. Juroch	1/64
QUANTITIES	by	HAFSTAD	1-64
	Checked	MIZUTANI	1-64

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

TOP GIRDER REINF 2 (LT. BR.)

SCALE NONE | BRIDGE 42-226 R/L | FILE | DRAWING 42226-37

PRELIMINARY DRAWING No. P.J. 12/63 HDT 1 & 64

REVISION DATES

Disregard prints bearing earlier revision dates →

131

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-77 SIGNATURE [signature] TITLE SR. R/W C

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"=50' SCALE 1"=20' SCALE 1"=10' or 1"=100' SCALE 1"=40'

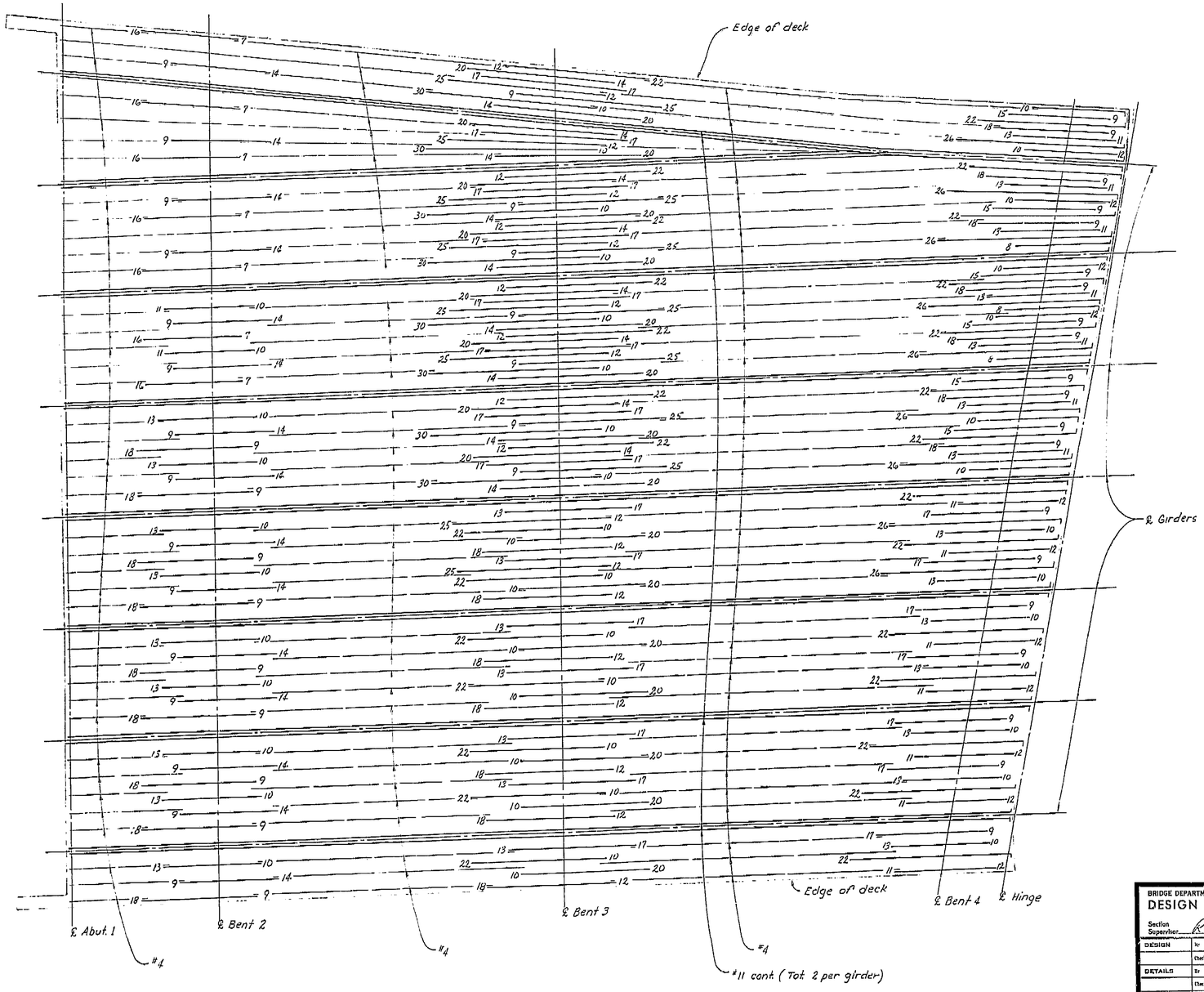
ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	41	21.9L/22.7	130	161

STATE ENGINEER — CIVIL ENGINEER—LICENSE 5081

DATE APPROVED: October 5, 1962



AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

Note:
All reinforcement #11 unless noted otherwise. Numbers at ends of bars indicate distance in feet from ℄ Bent. Typical for Top Girder Reinf. sheet 1 thru 6 Lt. Bridge.

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 8/29/66, AS SUBMITTED BY RESIDENT ENGINEER L. Nassar
TRACINGS CORRECTED BY: AS DATE: 7/2/66

SHEET	OF
64	87

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor: R.C. Rhode

DESIGN	by	L. D. Ricci	12-63
	Checked	P.J. Jurach	11/63
DETAILS	by	Mizutani	10-63
	Checked	P.J. Jurach	11/63
QUANTITIES	by	Hafstad	1-64
	Checked	Mizutani	1-64

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

TOP GIRDER REINF 1 (LT. BR.)

SCALE NONE | BRIDGE 42-226 R/L | FILE | DRAWING 42226-36

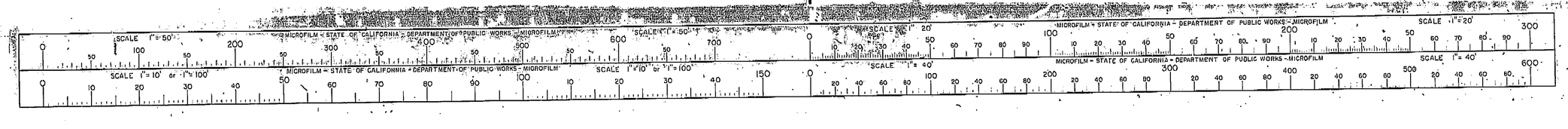
Disregard prints bearing earlier revision dates →

PRELIMINARY DRAWING No.	REVISION DATES
PBR 1/62	

130

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-72 SIGNATURE [signature] TITLE Sr. RMC

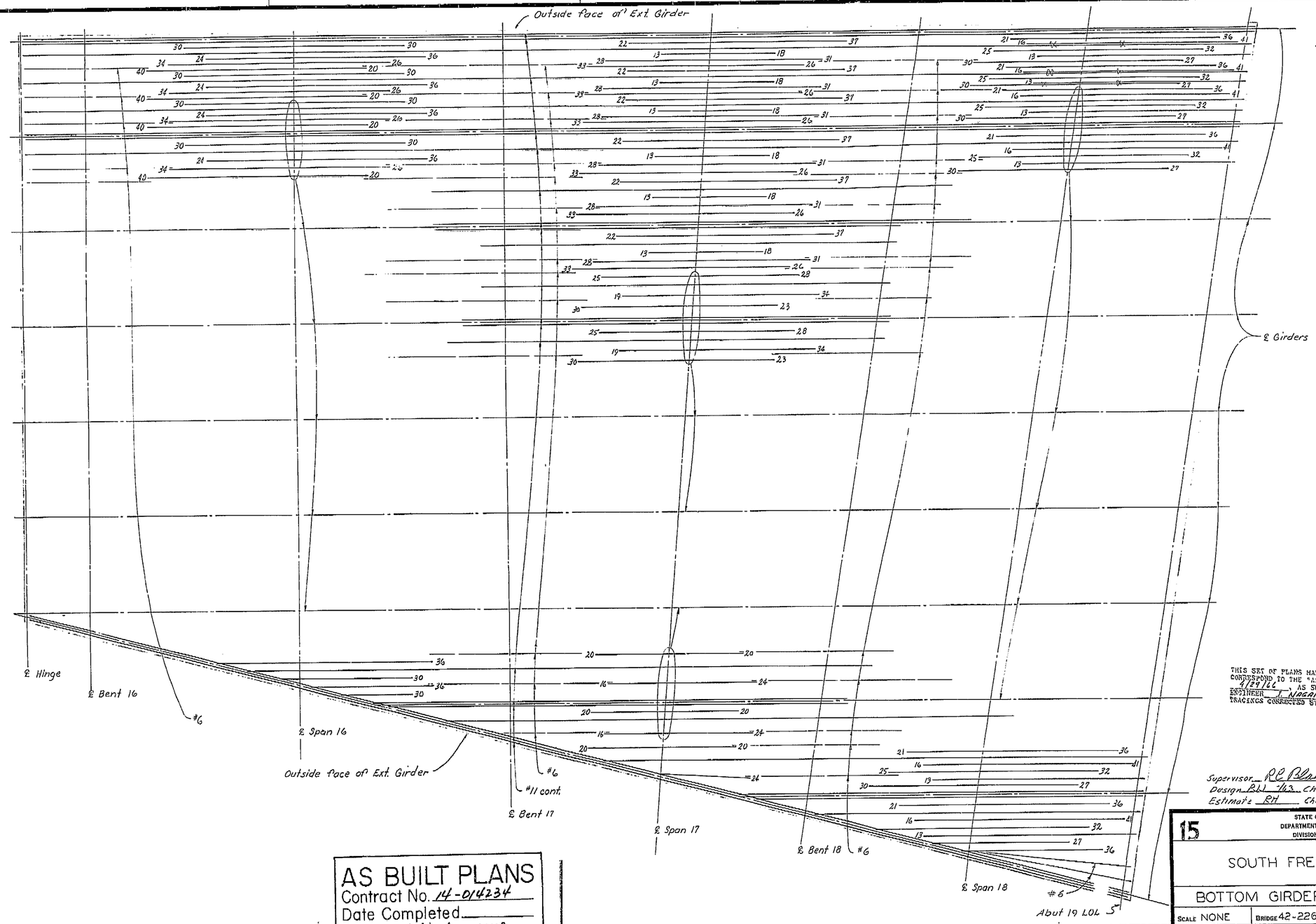


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FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	41	21B/22F	129	161

DATE APPROVED: October 5, 1964



THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/29/66, AS SUBMITTED BY RESIDENT ENGINEER L. NAGAI
TRACINGS CORRECTED BY: RS DATED 7/14/66

Supervisor RC Blake
Design RH 1-63 Check LDR 1-63
Estimate RH Check MIZUTANI 1-64

SHEET	OF
63	67

15

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

BOTTOM GIRDER REINF. 6 (RT. BR.)

SCALE	BRIDGE	FILE	DRAWING
NONE	42-226 R/		42226-57

PRELIMINARY DRAWING No.	REVISION DATES
P 12/28/72	

Disregard prints bearing earlier revision dates →

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

129

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-72 SIGNATURE [illegible] TITLE SR ENGR

MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM
SCALE 1"=50' SCALE 1"=10' or 1"=100' SCALE 1"=20' SCALE 1"=40'

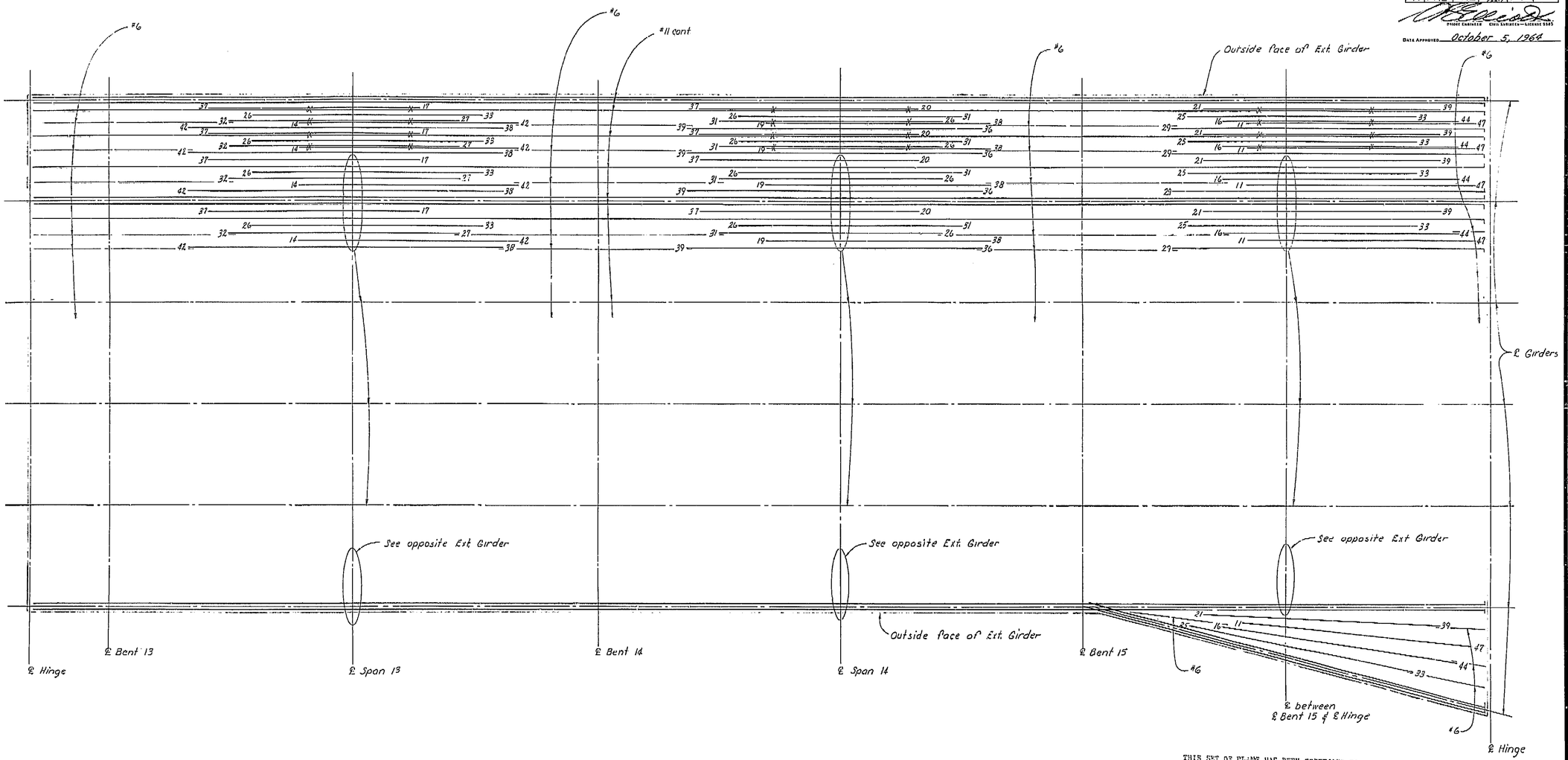
ClibPDF - www.fastio.com

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	41	41	128	161

7 CALIF.

PROJECT ENGINEER — CIVIL — LICENSE 9585

DATE APPROVED October 5, 1964



THIS SET OF PLANS HAS BEEN CORRECTED TO CONFORM TO THE "AS BUILT" PRINTS DATED 4/29/66, AS SUBMITTED BY RESIDENT ENGINEER F. NAGAI
TRACINGS CORRECTED BY: AS DATE: 7/7/66

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

128

SHEET	OF
62	87

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor R.C. Blake

DESIGN	By	P.J. Juroch	1963
	Checked	L.O. Ricci	12-63
DETAILS	By	MIZUTANI	11-61
	Checked	L.O. Ricci	12-63
QUANTITIES	By	HAFSTAD	1-64
	Checked	MIZUTANI	1-64

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

BOTTOM GIRDER REINF. 5 (RT. BR.)

SCALE NONE | BRIDGE 42-226 R | FILE | DRAWING 42226-56

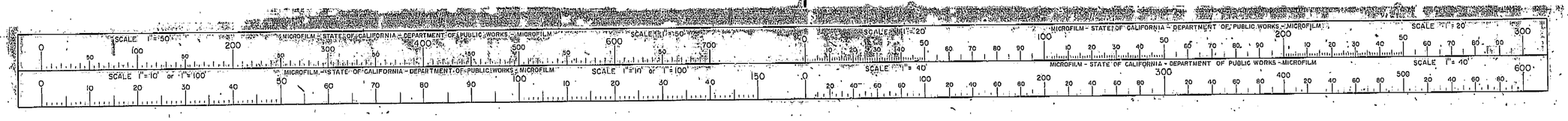
Disregard prints bearing earlier revision dates →

PRELIMINARY DRAWING NO. PDE 42-5 M21 8-61

REVISION DATES

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-77 SIGNATURE [signature] TITLE SR RMC



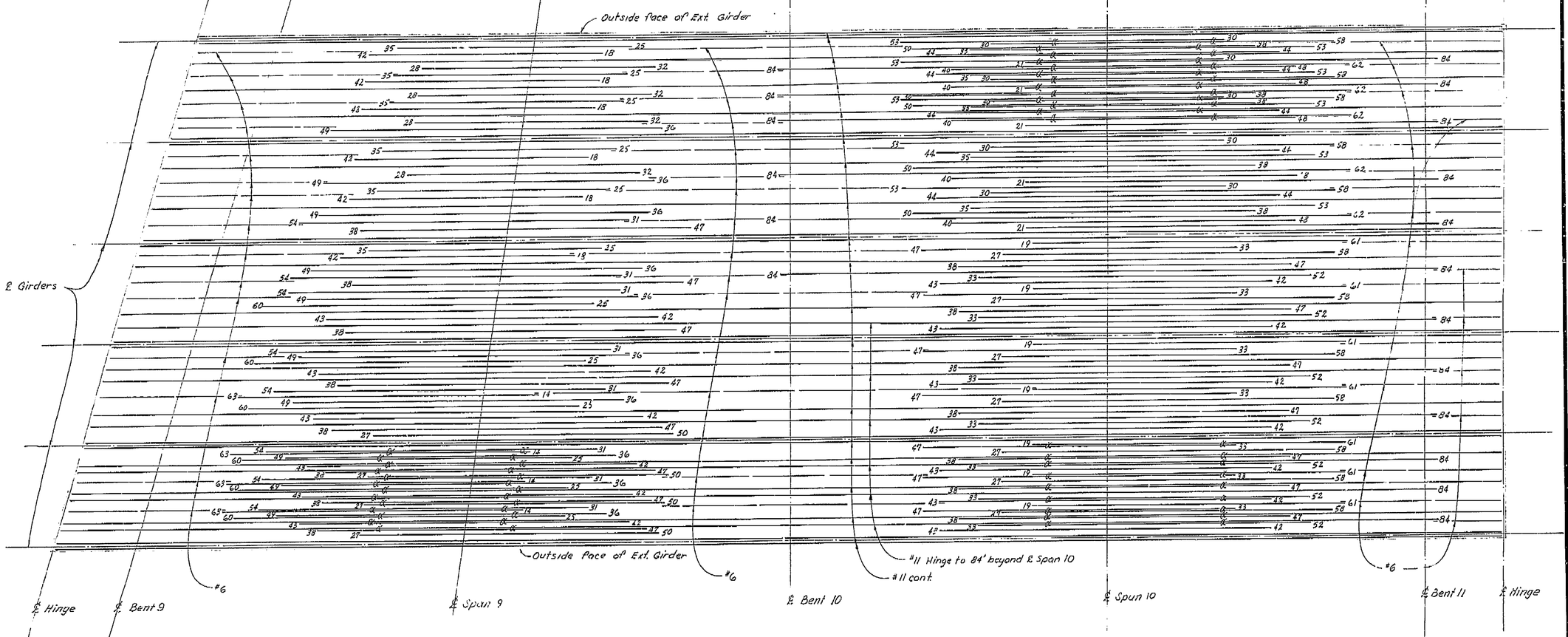
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FED. ROAD DIV. No.	STATE	P. A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	41	31.9/32.7	127	161

R. C. Blake
BRIDGE ENGINEER — CIVIL ENGINEER—LICENSE 5383

DATE APPROVED October 5, 1964



THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/21/66 AS SUBMITTED BY RESIDENT ENGINEER F. NAGAI
DRAWINGS CORRECTED BY: RS DATED 7/12/66

SHEET	OF
61	87

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

127

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor R C Blake

DESIGN	By D R Weaver	9-63
	Checked C J Hurlbut	11-63
DETAILS	By MIZUTANI	10-63
	Checked C J Hurlbut	11-63
QUANTITIES	By HAFSTAD	1-64
	Checked MIZUTANI	1-64

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

BOTTOM GIRDER REINF. 4 (RT. BR.)

SCALE NONE | BRIDGE 42 226 R/L | FILE | DRAWING 42226-55

PRELIMINARY DRAWING NO. P 11-6-63 12-5-63 2-7-64 REVISION DATES

Disregard prints bearing earlier revision dates →

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-72 SIGNATURE Howard E Cato TITLE Sr AsstC

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"= 50' SCALE 1"= 20' SCALE 1"= 10' or 1"= 100' SCALE 1"= 40'

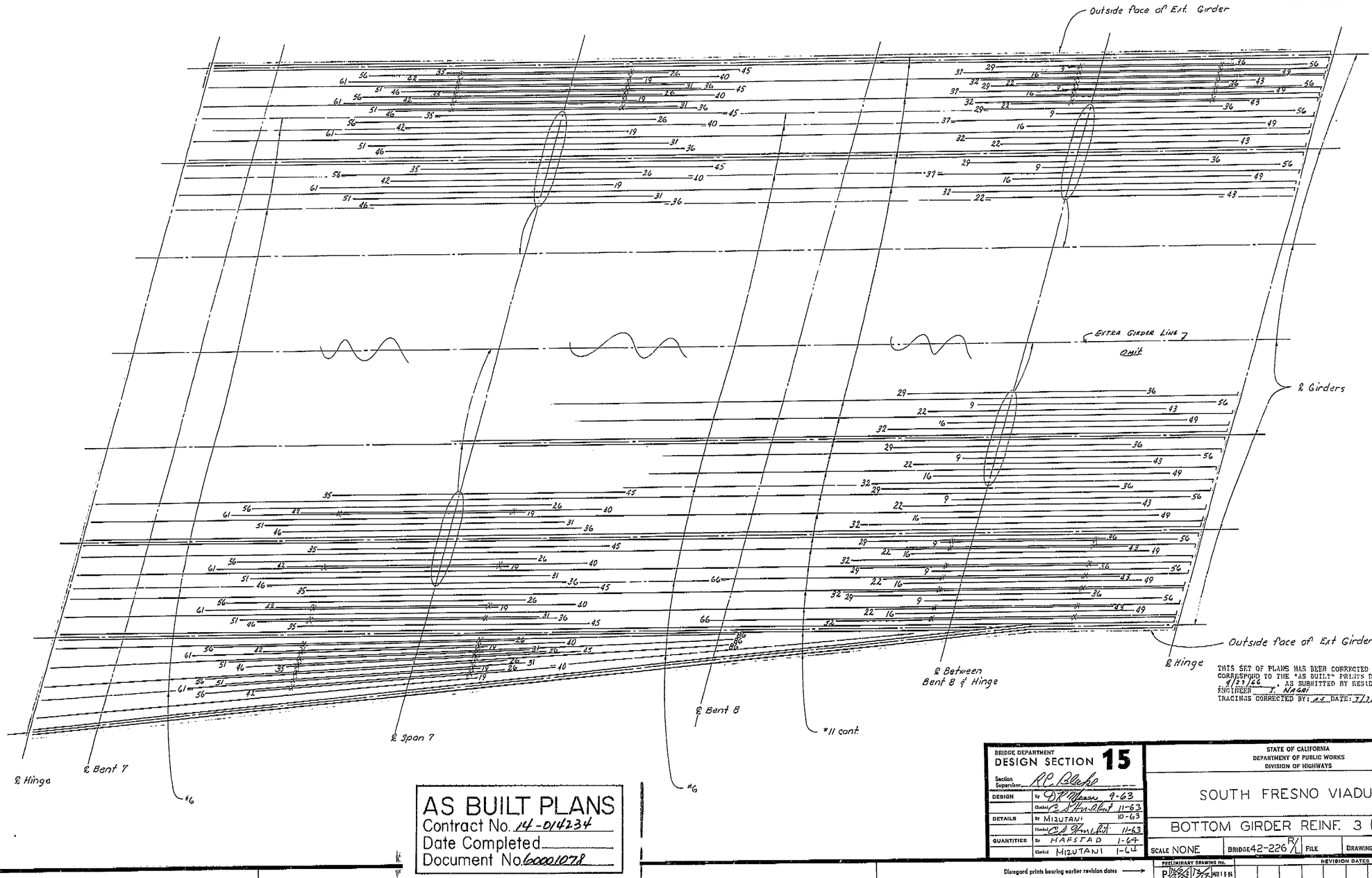
ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	P. A. PROJECT (10).	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	POSTMILE	SHEET NO.	TOTAL SHEETS
VI	FRE	41	27.7	126	161

Bridge Engineer — Civil Engineer 5085

DATE APPROVED October 5, 1964



THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 8/23/66, AS SUBMITTED BY RESIDENT ENGINEER I. NAGAI
TRACINGS CORRECTED BY: JS DATE: 7/1/66

SHEET	OF
60	87

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor R C Schaefer

DESIGN	By	D K Mizutani	9-63
	Checked	C J Hindert	11-63
DETAILS	By	MIZUTANI	10-63
	Checked	C J Hindert	11-63
QUANTITIES	By	HAFSTAD	1-64
	Checked	MIZUTANI	1-64

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

BOTTOM GIRDER REINF. 3 (RT. BR.)

SCALE NONE | BRIDGE 42-226 R/L | FILE | DRAWING 42226-54

PRELIMINARY DRAWING No. P 1966 1278 | REVISION DATES

Disregard prints bearing earlier revision dates →

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

126

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-72 SIGNATURE [signature] TITLE SR. ENG.

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

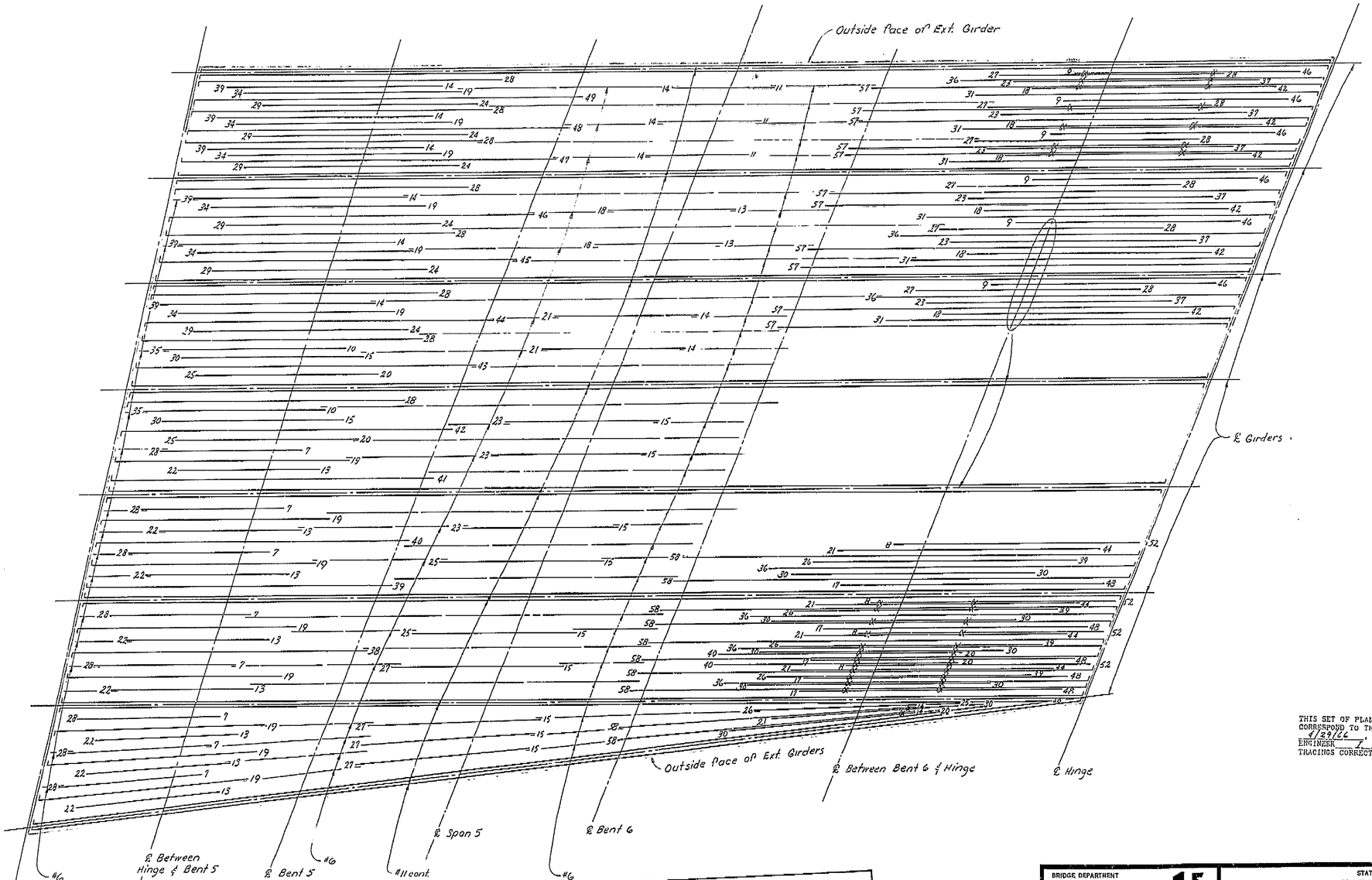
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FED. ROAD DIV. No.	STATE	F. A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	FRE	41	21.7/22.7	125	161

BRIDGE ENGINEER — CIVIL ENGINEER — STRUCT. ENGR.

DATE APPROVED: October 5, 1964



THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 6/29/66, AS SUBMITTED BY RESIDENT ENGINEER L. NAGAI
TRACINGS CORRECTED BY: AS DATE: 7/7/66

AS BUILT PLANS
Contract No. 14-0J4234
Date Completed
Document No. 60001078

SHEET	OF
59	87

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor: R C Blake

DESIGN	By	D R Mason	9-63
	Checked	C S Hirschler	11-63
DETAILS	By	MIZUTANI	-63
	Checked	C A Hanifan	11-63
QUANTITIES	By	HAFSTAD	1-64
	Checked	MIZUTANI	1-64

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

BOTTOM GIRDER REINF 2 (RT. BR.)

SCALE NONE | BRIDGE 42-226 R/L | FILE | DRAWING 42226-53

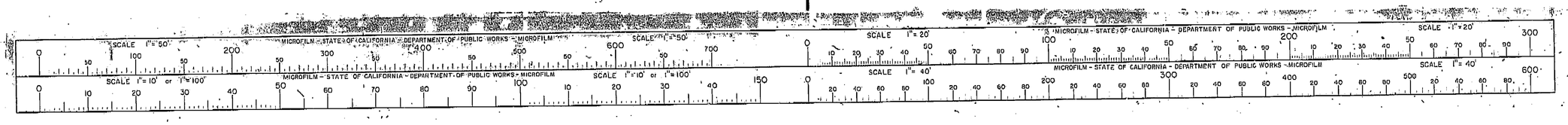
Disregard prints bearing earlier revision dates →

PRELIMINARY DRAWING No.	REVISION DATES
PRELIM 8-64	APR 1 8 '64

125

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-72 SIGNATURE [signature] TITLE SR RMIO



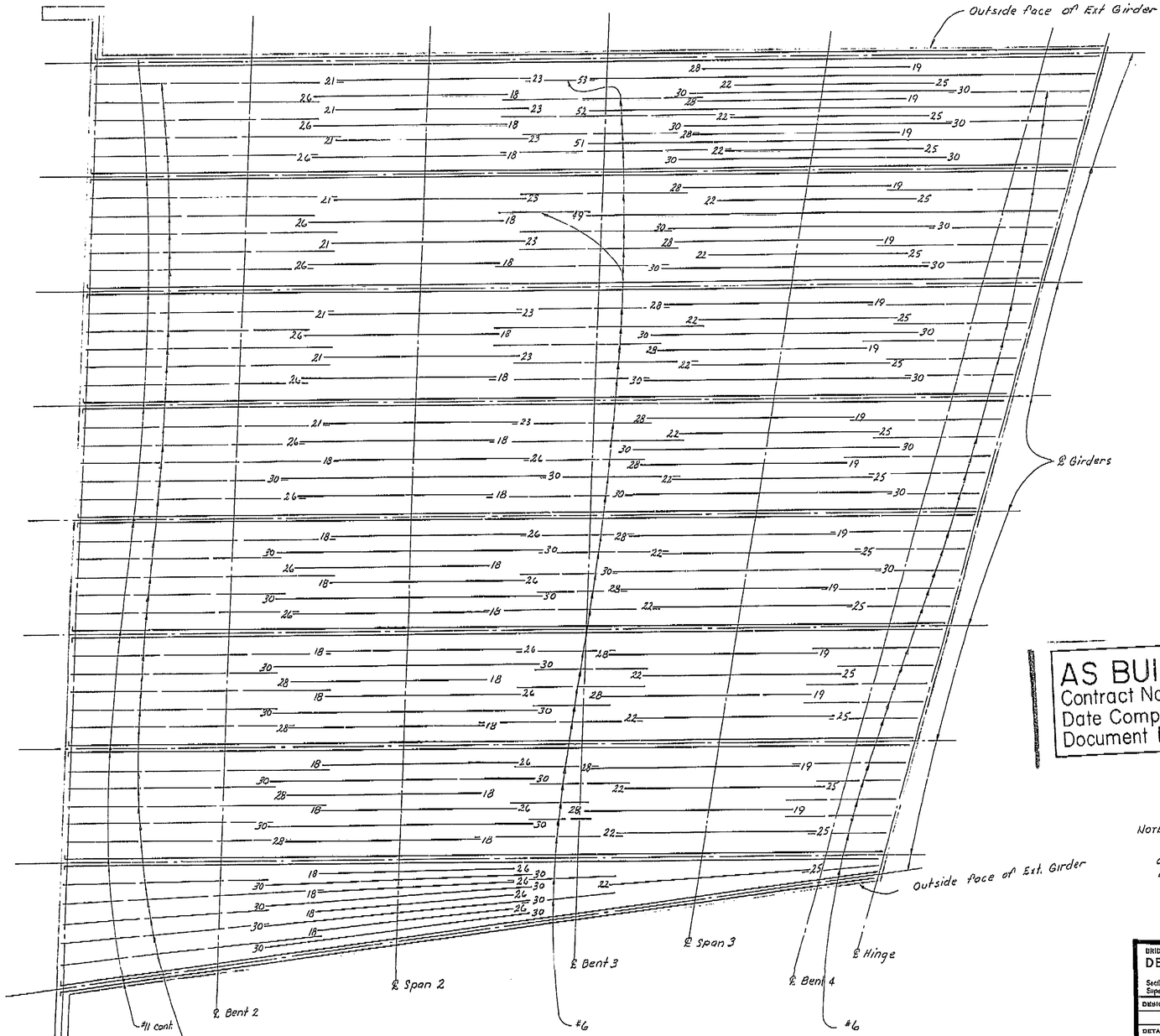
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FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	41	21/227	124	161

BRIDGE ENGINEER — CIVIL ENGINEER—LICENSE 5065

DATE APPROVED October 5, 1964



AS BUILT PLANS
Contract No. 14-0U4234
Date Completed
Document No. 60001078

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/29/66, AS SUBMITTED BY RESIDENT ENGINEER J. NAGAI
TRACINGS CORRECTED BY: RS DATE: 7/7/66

NOTE ═══ indicate bundled bars

All reinforcement #4 unless noted otherwise. Numbers at ends of bars indicate distance in feet from ℄ Span or ℄ between Hinge and Bent. Typical for BOTTOM GIRDER REINF. 1-6 RT. BR.

124

SHEET	OF
58	87

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor R.C. Blake

DESIGN	by O.K.M.	9-63
	Checked L.M. Mc Lot	11-63
DETAILS	by MIZUTANI	10-63
	Checked C.J. Hendricks	11-63
QUANTITIES	by HAFSTAD	1-64
	Checked MIZUTANI	1-64

Disregard prints bearing earlier revision dates

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

BOTTOM GIRDER REINF. 1 (RT. BR.)

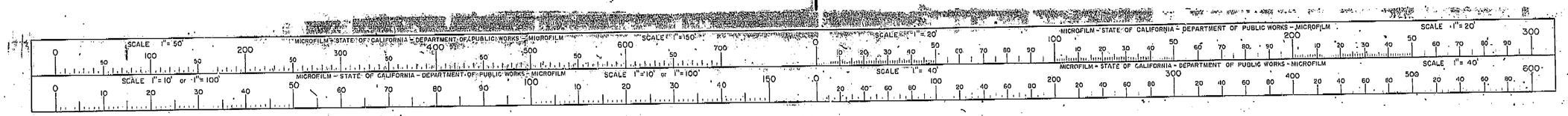
SCALE NONE | BRIDGE 42 226 R/L | FILE | DRAWING 42226-52

PRELIMINARY DRAWING NO. P 2 8 17 | REVISION DATES

161

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-72 SIGNATURE [signature] TITLE Sr. RWC



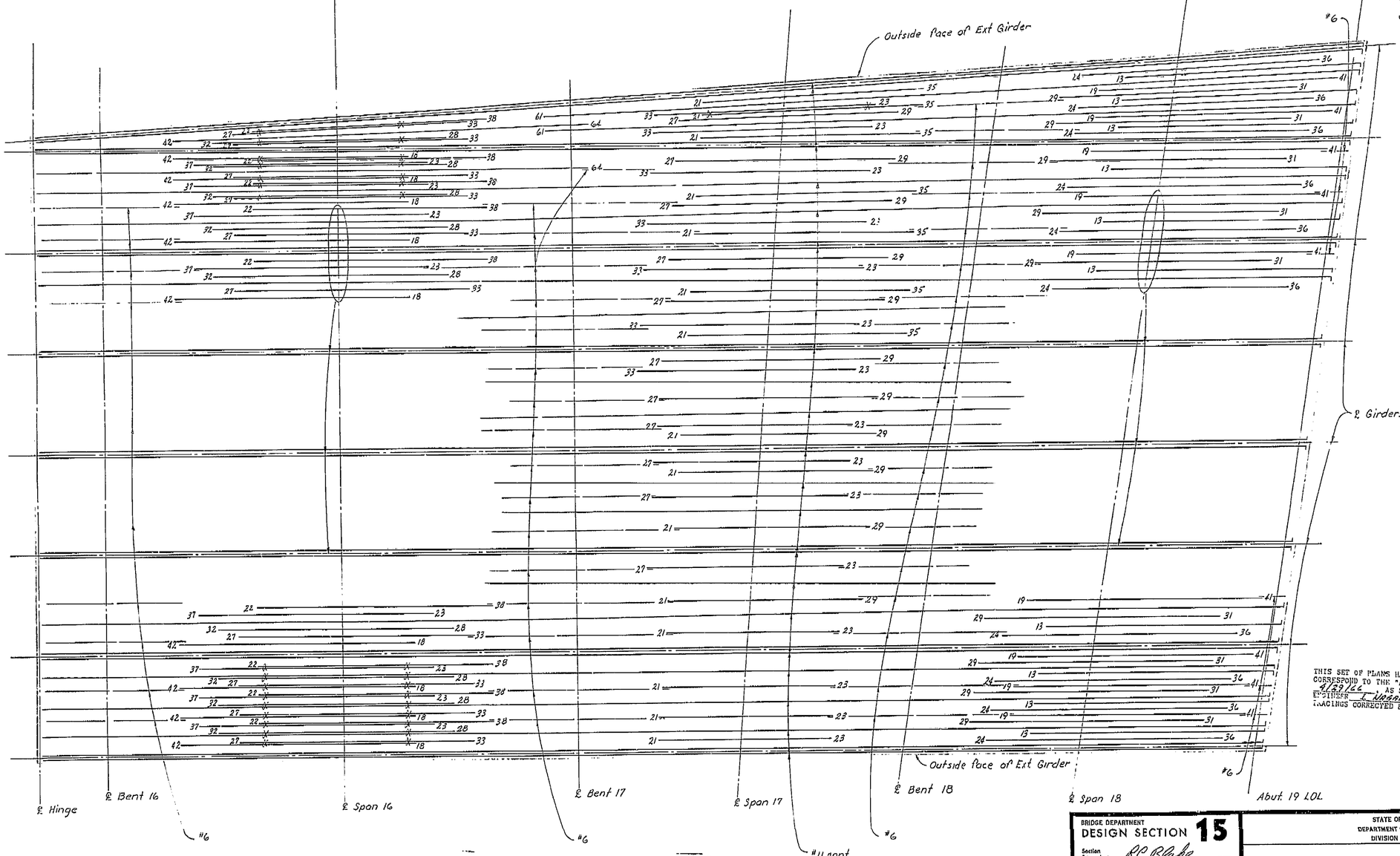
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FED. ROAD DIV. NO.	STATE	P. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	41	21.9/22.7	123	161

BRIDGE ENGINEER — CIVIL ENGINEER—LICENSE 5586

DATE APPROVED October 5, 1964



THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 8/29/66 AS SUBMITTED BY RESIDENT ENGINEER L. Wagar
TRACINGS CORRECTED BY: JS DATE: 7/2/66

SHEET	OF
37	87

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

123

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor R.C. Blake

DESIGN	By C.S. Yu Jr.	9-63
	Checked D.K. Mason	12-63
DETAILS	By MIZUTANI	10-63
	Checked D.K. Mason	12-63
QUANTITIES	By HAFSTAD	1-64
	Checked MIZUTANI	1-64

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

BOTTOM GIRDER REINF. 6 (LT. BR)

SCALE	BRIDGE	FILE	DRAWING
NONE	42-226 R/L		42226-51

PRELIMINARY DRAWING No. P 1262 (7/62 5 64)

REVISION DATES

Disregard prints bearing earlier revision dates →

106

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-72 SIGNATURE James E. Cook TITLE Ass't SMC

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"=50' SCALE 1"=80' SCALE 1"=20'
SCALE 1"=10' or 1"=100' SCALE 1"=10' or 1"=100' SCALE 1"=40' SCALE 1"=40'

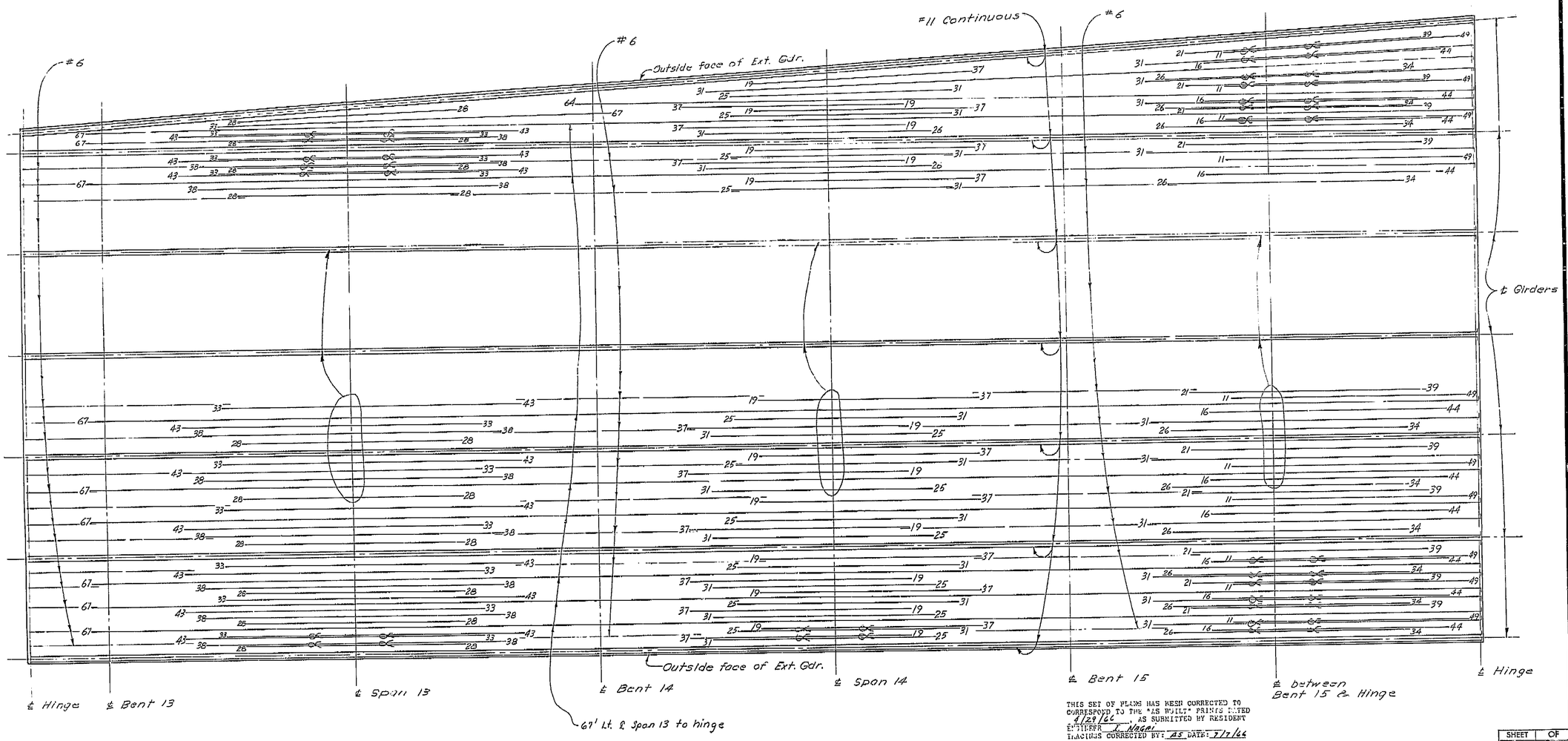
ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	41	21.7/22.7	122	161

BRIDGE ENGINEER — CIVIL ENGINEER—LICENSE 8588

DATE APPROVED October 5, 1964



THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 6/29/66, AS SUBMITTED BY RESIDENT ENGINEER L. NAGAI.
TRACINGS CORRECTED BY: AS DATE: 7/7/66

SHEET	OF
56	87

AS BUILT PLANS
Contract No. 14-0K4234
Date Completed
Document No. 60001078

DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS
STATE OF CALIFORNIA

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor R C Beebe

DESIGN	By C. Allen Clark	9-63
	Checked R. R. Mason	12--
DETAILS	By M. Lee Lawson	11-63
	Checked C. Allen Clark	11-63
QUANTITIES	By HAFSTAD	1-64
	Checked MIZUTANI	1-64

SOUTH FRESNO VIADUCT

BOTTOM GIRDER REINF. 5 (LT. BR.)

SCALE NONE | BRIDGE 42-226R | FILE | DRAWING 42226-50

PRELIMINARY DRAWING No. P-32-2-12-22 (211 S.B.)

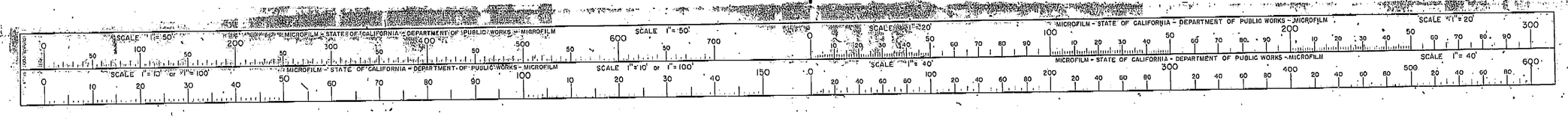
REVISION DATES

Disregard prints bearing earlier revision dates →

105

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-72 SIGNATURE James E. Cant TITLE Sr. RMC



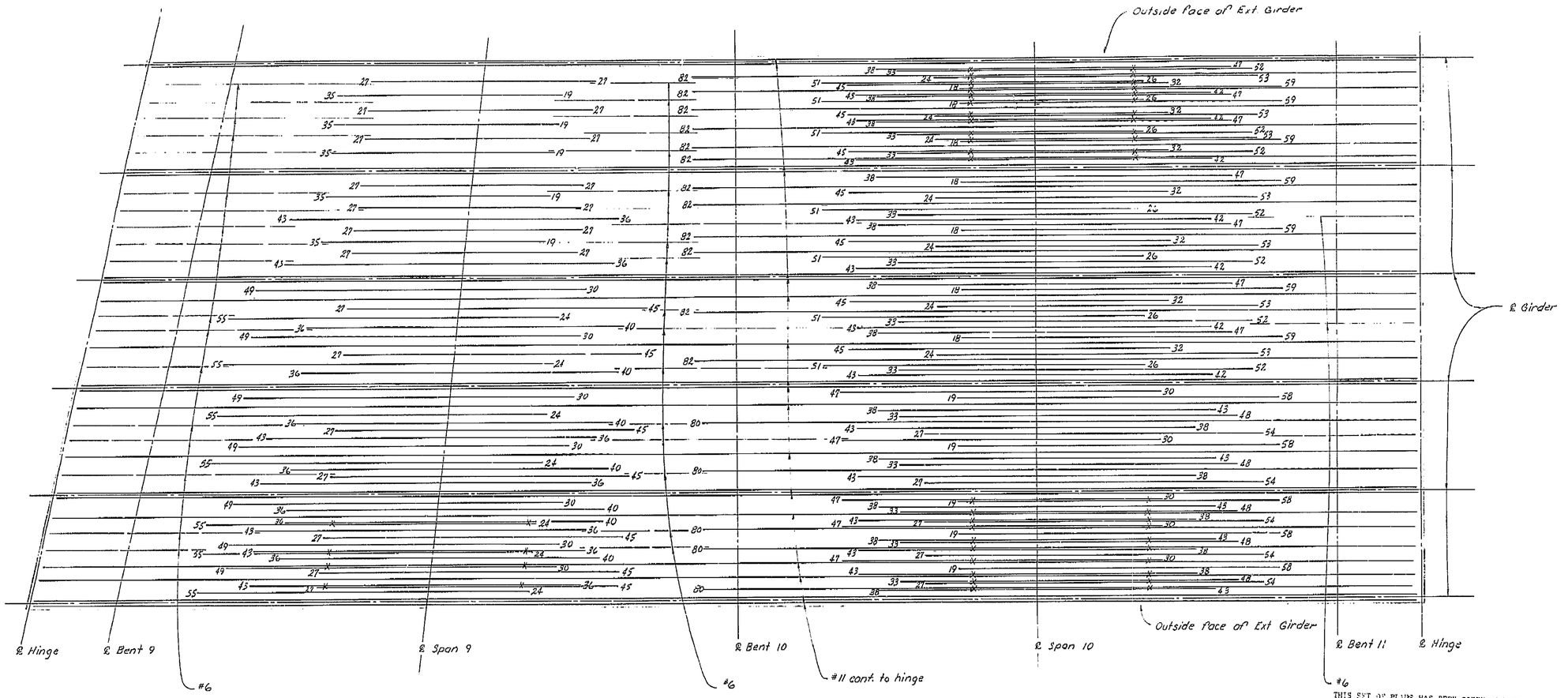
ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	MHCKY No.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	~~41~~ 180	2.0/2.27	121	161

BRIDGE ENGINEER CIVIL ENGINEER—LICENSE 6985

DATE APPROVED October 5, 1964



THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 8/29/66, AS SUBMITTED BY RESIDENT ENGINEER T. Nagai
TRACINGS CORRECTED BY: AS DATE: 9/2/66

AS BUILT PLANS
Contract No. 14-0J4234
Date Completed
Document No. 60001078

SHEET	OF
35	87

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor R P Blake

DESIGN	By	L D Ricci	12-63
	Checked	P J Jurach	1/64
DETAILS	By	Hizutani	11-63
	Checked	P J Jurach	1/64
QUANTITIES	By	Hafstad	1-64
	Checked	Mizutani	1-64

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

BOTTOM GIRDER REINF. 4 (LT. BR.)

SCALE NONE | BRIDGE 42-226 R/L | FILE | DRAWING 42226-49

Disregard prints bearing earlier revision dates →

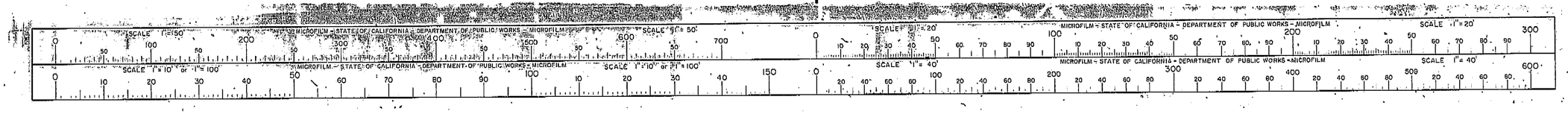
PRELIMINARY DRAWING No. P1966 12 17 NR 1 64

REVISION DATES

121

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-22 SIGNATURE [signature] TITLE [illegible]



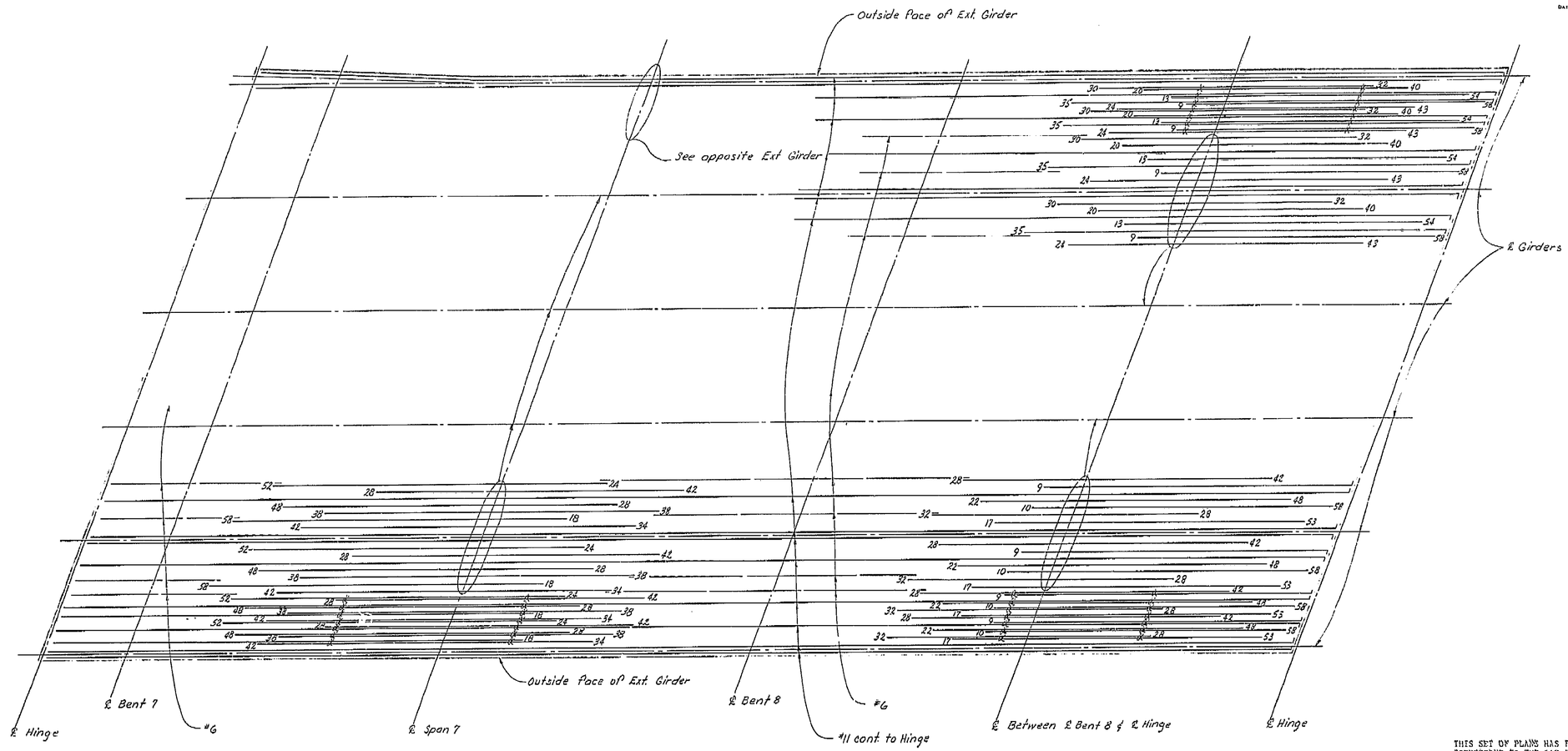
ClibPDF - www.fastio.com

FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	FRE	41	20/22T	120	161

BOORE BARLETTE CIVIL ENGINEER — LICENSE 5993

DATE APPROVED: October 5, 1964



THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/29/66, AS SUBMITTED BY RESIDENT ENGINEER T. NAGAI
TRACINGS CORRECTED BY: A.S. DATE: 7/1/66

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

SHEET	OF
54	87

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor R.C. Bibbel

DESIGN	By	L.D. Ricci	12-63
	Checked	P.J. Jurca	12/63
DETAILS	By	Mizutani	11-62
	Checked	P.J. Jurca	12/63
QUANTITIES	By	HARSTAD	1-64
	Checked	Mizutani	1-64

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

BOTTOM GIRDER REINF. 3 (LT. BR.)

SCALE NONE | BRIDGE 42-226 R/L | FILE | DRAWING 42226-48

PRELIMINARY DRAWING No. P 11/64 2/64 3/64 NOR 1 64

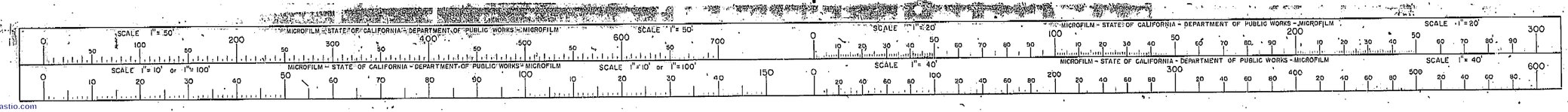
REVISION DATES

Disregard prints bearing earlier revision dates →

120

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-72 SIGNATURE [signature] TITLE [illegible]

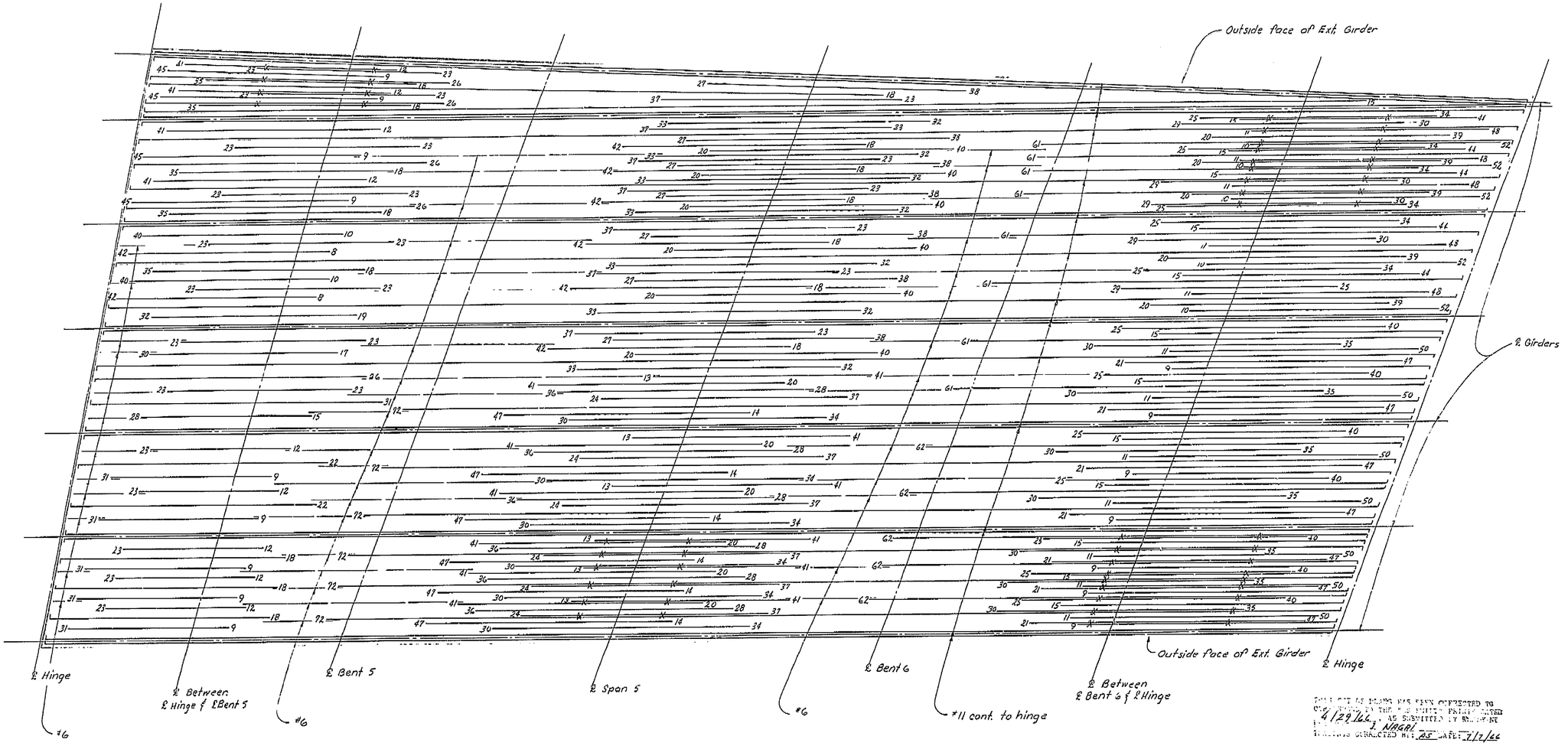


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FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	41	27.7/29.7	119	161

DATE APPROVED October 5, 1964



THIS SET OF PRINTS HAS BEEN CORRECTED TO CONFORM TO THE AS BUILT CONDITION AS SUBMITTED BY STRUCTURE REPRESENTATIVE 4/29/66 J. NAGAI DATE 7/7/66

SHEET 53 OF 87

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

BRIDGE DEPARTMENT DESIGN SECTION 15		
Section Supervisor	R.C. Blake	
DESIGN	By L.D. Ricci	12-63
	Checked P.J. Jorich	12/63
DETAILS	By MIZUTANI	11-63
	Checked P.J. Jorich	12/63
QUANTITIES	By HAFSTAD	1-64
	Checked MIZUTANI	1-64

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

BOTTOM GIRDER REINF. 2 (LT. BR.)

SCALE NONE | BRIDGE 42-226 R/1 | FILE | DRAWING 42226-47

PRELIMINARY DRAWING No. P 11/26/63 12/63 M21 E E

REVISION DATES

Disregard prints bearing earlier revision dates →

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-72 SIGNATURE [signature] TITLE SR ENG

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"=50' SCALE 1"=100' SCALE 1"=20' SCALE 1"=10' or 1"=100' SCALE 1"=40'

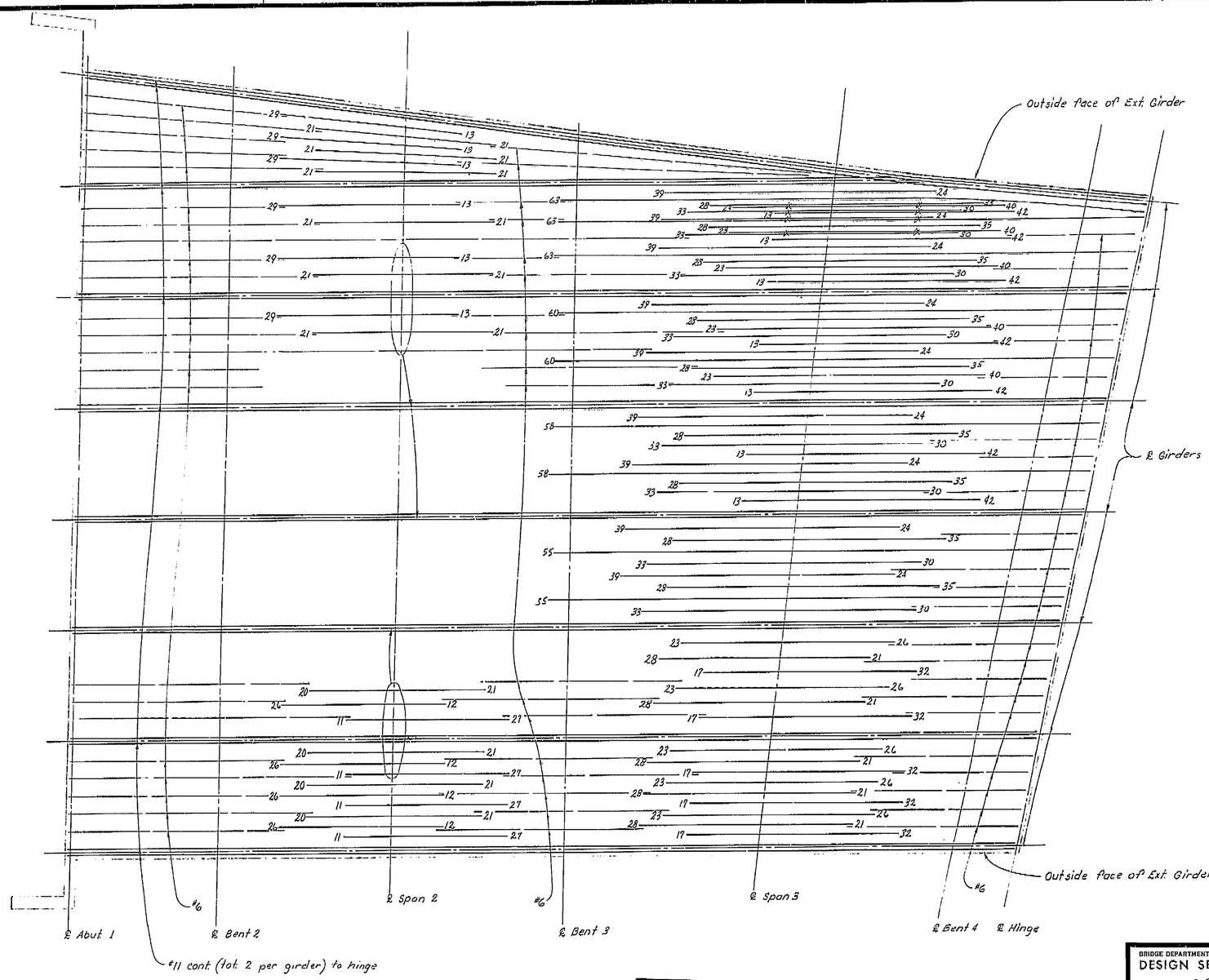
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FED. ROAD DIV. No.	STATE	F. A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
VI	FRE	~~41~~	21.7/22.7	118	161

Bridge Engineer — Civil Engineer — License 5488

DATE APPROVED October 5, 1964



THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/29/66, AS SUBMITTED BY RESIDENT ENGINEER L. Nagai
DRAWINGS CORRECTED BY: JS DATE: 7/12/66

NOTE:
All reinforcement #11 unless noted otherwise. Numbers at ends of bars indicate distance in feet from ℄ Span. Typical for Bottom Girder Reinf. sheet 1 thru 6 Lt. Bridge.

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

SHEET	OF
32	87

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor R.C. Blake

DESIGN	By	L.D. Ricci	12-63
	Checked	P.J. Juroch	12-63
DETAILS	By	MIZUTANI	11-63
	Checked	P.J. Juroch	12-63
QUANTITIES	By	HAFSTAD	1-64
	Checked	MIZUTANI	1-64

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

BOTTOM GIRDER REINF. 1 (LT. BR.)

SCALE NONE | BRIDGE 42 226 R/L | FILE | DRAWING 42226-46

PRELIMINARY DRAWING No. P.S. 2-3-67 MR | REVISION DATES

Disregard prints bearing earlier revision dates →

101

118

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-72 SIGNATURE [signature] TITLE Sr. R/W C

MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM
SCALE 1" = 50' SCALE 1" = 150' SCALE 1" = 20' SCALE 1" = 20'
SCALE 1" = 10' or 1" = 100' SCALE 1" = 40' SCALE 1" = 40'

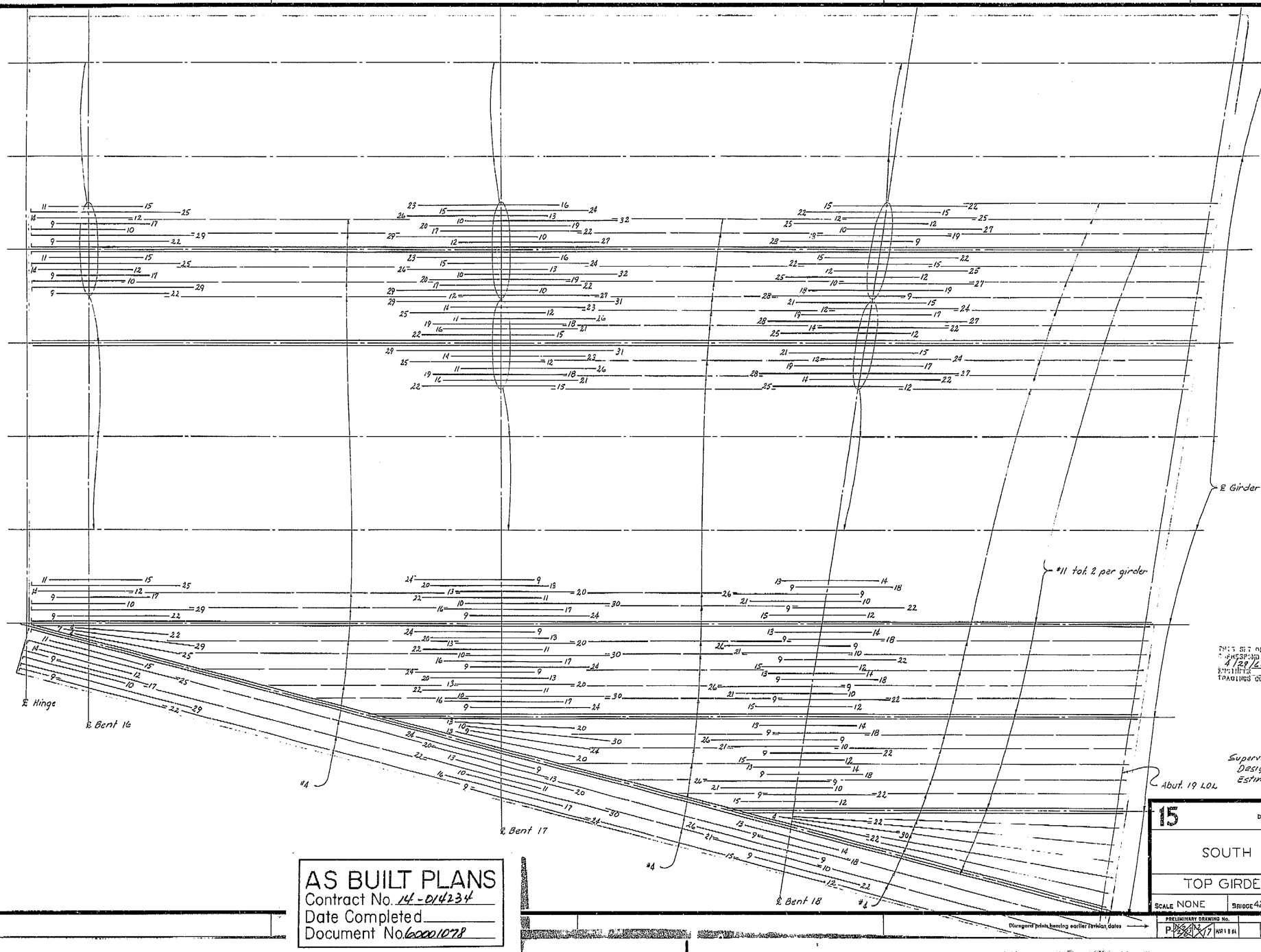
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FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	~~41~~ 180	21R 22T	141	161

BRIDGE ENGINEER — CIVIL ENGINEER—LICENSE 5285

DATE APPROVED: October 5, 1964



THIS SET OF PLANS WAS AMENDED TO CORRESPOND TO THE "AS BUILT" PLANS DATED 4/29/66, AS SUBMITTED BY RESIDENT ENGINEER T. NAGAI
TRACINGS CORRECTED BY: AS DATE: 7/7/66

Supervisor R.P. Blake
Design RJJ 12/63 Check LDR 12/63
Estimate RH Check HKM

SHEET	OF
75	87

15

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

TOP GIRDER REINF. 6 (RT. BR.)

SCALE	BRIDGE	FILE	DRAWING
NONE	42-226 R/L		42226-45

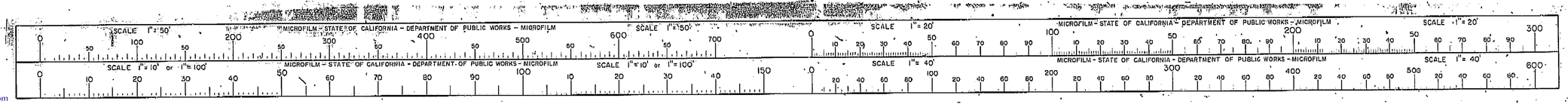
PRELIMINARY DRAWING No.	REVISION DATES
P [illegible] 17	

Disregard prints bearing earlier revision dates

AS BUILT PLANS
Contract No. 14-0H4234
Date Completed
Document No. 60001078

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-72 SIGNATURE [signature] TITLE SR ENGR



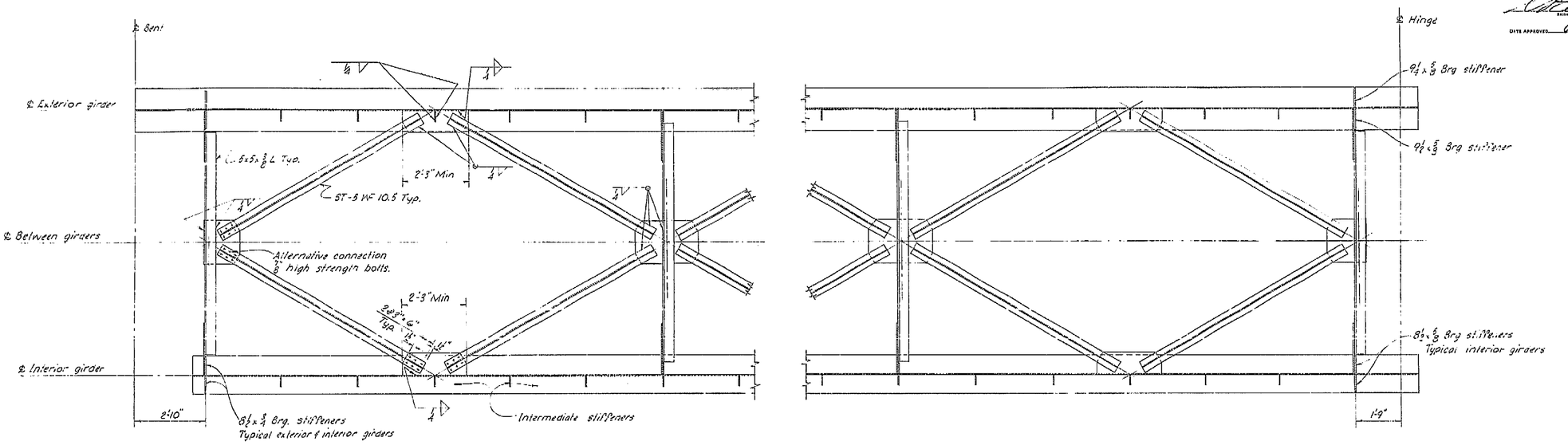
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FED. ROAD DIV. NO.	STATE	F. A. PROJECT No.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	41	21.9/22.7	145	161

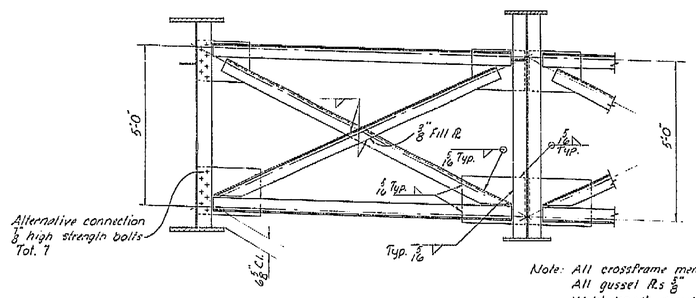
BRIDGE ENGINEER — CIVIL ENGINEER — LICENSE NO.

DATE APPROVED October 5, 1964



Note: Weld length required for ST 5 WF 10.5 = 32"

PLAN - BOTTOM LATERAL BRACING



Note: All crossframe members 5x5x⅜ L
All gusset Rs ⅜"
Weld length required 5x5x⅜ L = 30" fillet weld.

INTERMEDIATE CROSSFRAMES

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/29/66, AS SUBMITTED BY RESIDENT ENGINEER L. Nagar
TRACINGS CORRECTED BY: RR DATE: 7/12/66

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

SHEET 79 OF 187

BRIDGE DEPARTMENT
DESIGN SECTION 15
Section Supervisor R.C. Blake

DESIGN	By S. Hozasa	10-63
	Checked C. Stoneburner	3-
DETAILS	By M. Nakayama	11-63
	Checked C. H. Hunt	3-64
QUANTITIES	By G.K. Messan	3-64
	Checked J.P. Hunter	3-64

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

STEEL GIRDER DETAILS 2

SCALE 1½"=1'-0" | BRIDGE 42-226 R/L | FILE | DRAWING 42226-65

PRELIMINARY DRAWING No. P-12-5-33-24-5

REVISION DATES

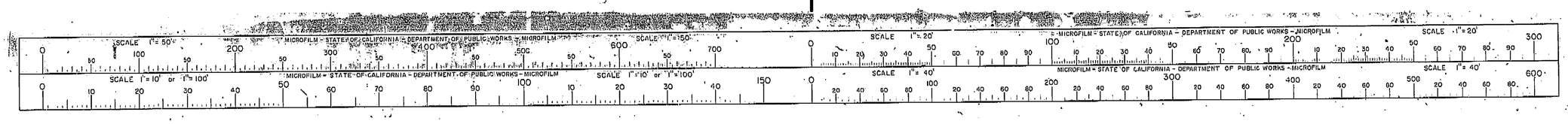
Disregard prints bearing earlier revision dates

145

178

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 3-14-72 SIGNATURE [signature] TITLE SR RMC



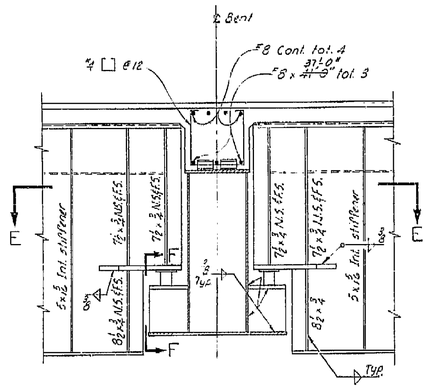
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FED. ROAD DIV. NO.	STATE	P. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

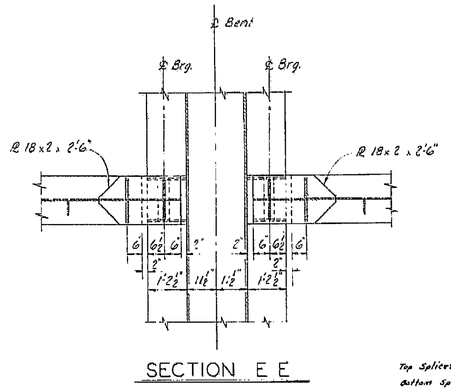
DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	41	21.9 Part	144	161

DISTRICT ENGINEER — CIVIL ENGINEER—LICENSE 5245

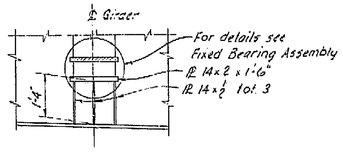
DATE APPROVED: October 5, 1964



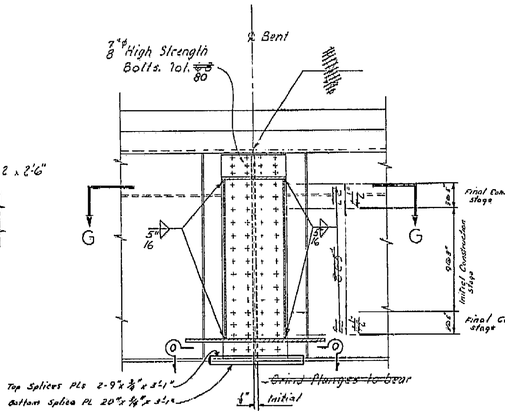
SECTION A-A



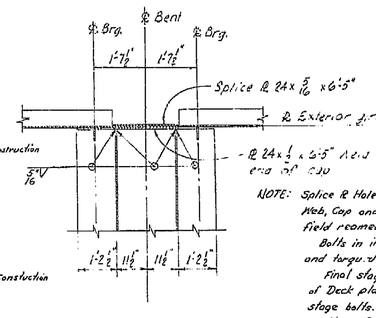
SECTION E E



SECTION F F



SECTION B-B

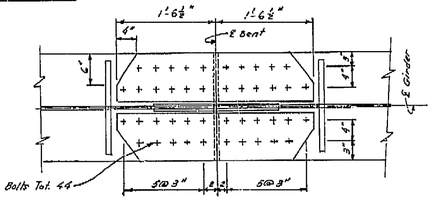


SECTION G-G

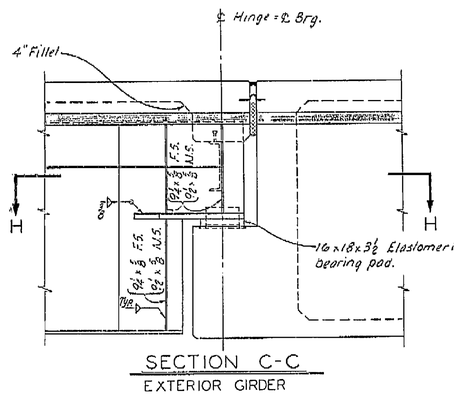
NOTE: Splice PL Holes To be aligned and drilled full size. Web, Cap and bottom Flange holes to be field reamed.

Bolts in initial erection stage to be installed and torqued at time of girder erection.

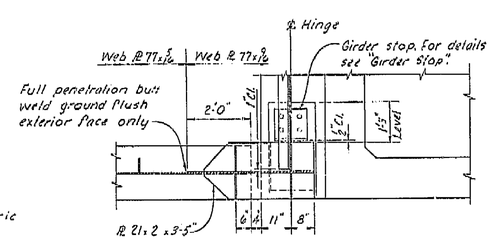
Final stage bolts installed after completion of Deck placing. Re-torque initial erection stage bolts. Bolt heads to be on outside and bottom of splices.



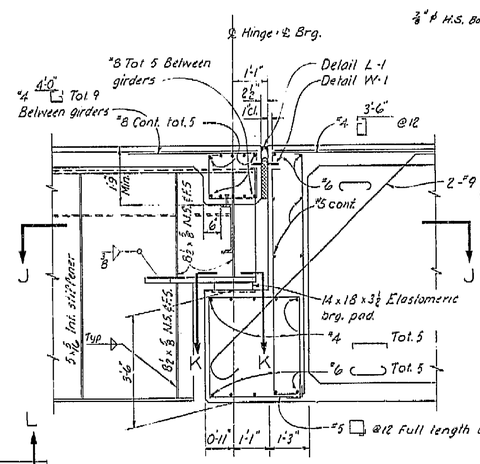
Section O-O
Scale: 1½"=1'-0"



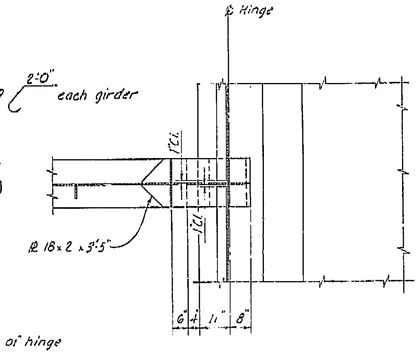
SECTION C-C
EXTERIOR GIRDER



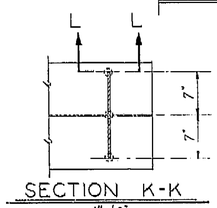
SECTION H-H



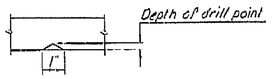
SECTION D-D
INTERIOR GIRDER



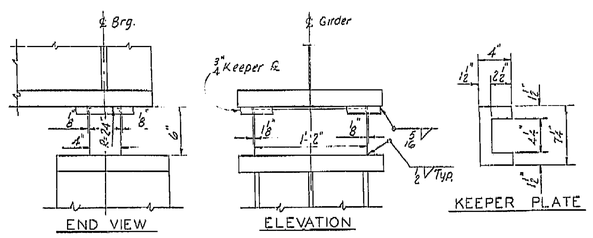
SECTION J-J



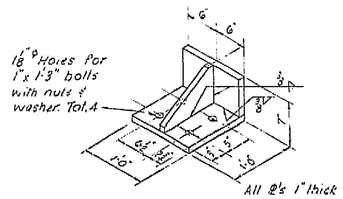
SECTION K-K
1"=1'-0"



SECTION L-L
3"=1'-0"



FIXED BEARING ASSEMBLY
½"=1'-0"



GIRDER STOP
1"=1'-0"
Tot. 8 required

AS BUILT PLANS
Contract No. 41-094234
Date Completed
Document No. 6000107?

144

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS 4/29/66 AS SUBMITTED BY PPSJ
ENGINEER
DISCREPANCIES NOTED ON AS DATED 7/29/66

SHEET 17 OF 18 37

BRIDGE DEPARTMENT DESIGN SECTION 15			
Section Supervisor	R.C. Blake		
DESIGN	By A.L. Peters	7-63	
	Checked C. Gonchut	3-64	
DETAILS	By G. Nelson	12/63	
	Checked C. Gonchut	3-64	
QUANTITIES	By D.R. Mason	2-64	
	Checked J.P. Hunter	3-64	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

STEEL GIRDER DETAILS I

EXCEPT AS NOTED | SCALE 1"=1'-0" | BRIDGE 42-226 R/L | FILE | DRAWING 42226-64

Disregard prints bearing earlier revision dates →

PRELIMINARY DRAWING No. P | REVISION DATES

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

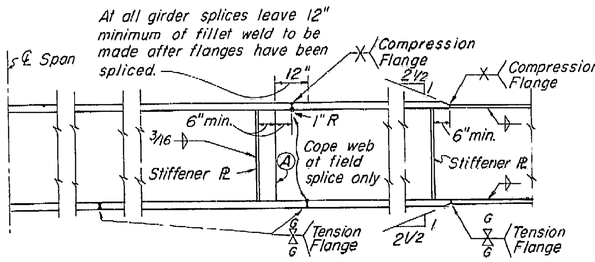
DATE 2-14-22 SIGNATURE Howard E. Cook TITLE Asst. DMC

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"=50' SCALE 1"=20' SCALE 1"=10' or 1"=100' SCALE 1"=40'
ClibPDF - www.fastio.com

Deleted Step out in Barrier Railing 6-24-63 JTJ

Deleted block above co.-rt. Sec. upper right Corner, Deleted Signature block, lower right Corner, Deleted Rubber Seam at Waterstop notes, Rev Title Block. JTJ 8-2-63

Revision - 8-2-63 Shear welded joint on tension flange



Ⓐ - Web splices shall be full penetration butt welds. Where weld areas on exterior girders are visible from a traveled way the areas are to be ground flush.

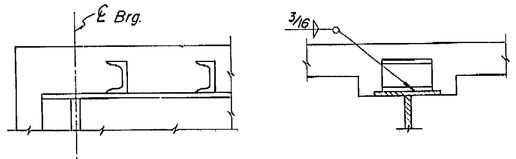
GIRDER SPLICE AND WELDING DETAILS

WELDING NOTES

The relation between fillet weld size and the maximum thickness of material on which various sizes of fillet weld may be used shall be in accordance with Article 222(b) of the A.W.S. Specifications dated 1956, unless otherwise noted.

The methods of joint preparation shown on the plans are based on the use of manual shielded arc welding. In the event that automatic or semi-automatic submerged arc processes are used, the contractor may submit alternative methods of joint preparation for approval by the engineer. "U" butt welds may be substituted for vee type shown on the plans. "J" butt welds may be substituted for bevel types shown on the plans.

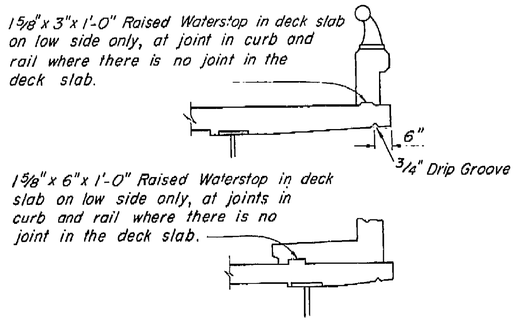
Shop plans shall indicate welding sequence and type of steel to be used.



Notes: 1. Orient channel so that flanges point toward near bearing.
2. Alternative types of shear connectors may be submitted by the contractor for approval by the Engineer.

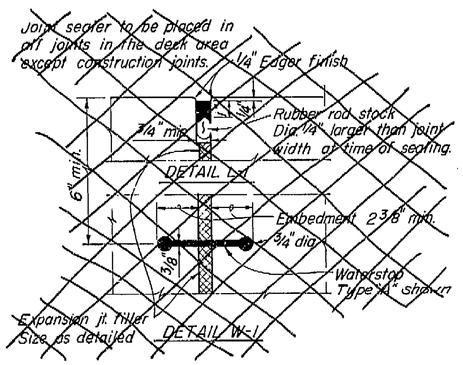
SHEAR CONNECTOR DETAILS

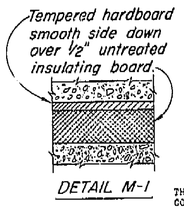
Scale: 1½" = 1'-0"



CURB AND SIDEWALK EXPANSION JOINT

DETAIL C-1

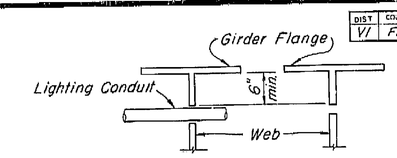




DETAIL M-1

FOR SEALED DECK JOINT SEE "BOX GIRDER DETAILS NO.1"

Scale: 3" = 1'-0"

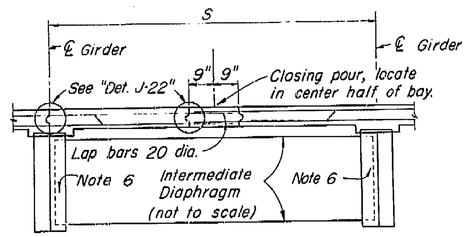


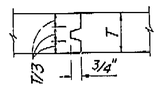
2" max. dia hole to be drilled where lighting conduit passes through girder web. For location and size of hole see Lighting Plan.

Holes to be 6" min. clear from horizontal or vertical weld and rivet or bolt lines.

1" max. dia. hole at 4'± min. spacing to be used as falsework support (when specified by the contractor). Contractor to determine location, size and spacing.

HOLES FOR CONDUIT AND FALSEWORK





DETAIL J-22

LONGITUDINAL CONSTRUCTION JOINTS

DECK PLACING NOTES

1. Contractor shall submit deck placing schedule, for approval by the Engineer.
2. In general, transverse construction joints will not be permitted.
3. When a longitudinal joint is used for spans greater than 100', the contractor shall provide for a 1'-6" closing pour located within the center half of the bay between girders. For shorter spans a single joint may be located over the ℄ of girder nearest the edge of a traffic lane.
4. Where closing pour is required, the girders supporting the portion of deck being placed shall be free to deflect under superimposed load and there shall be no interconnection of forms or bracing with girder on other side of closing pour.
5. The closing pour shall not be placed until the adjacent slabs have been in place for three days.
6. Final connection of the intermediate diaphragms below the closing pour panel will not be permitted until the deck slabs have been placed on both sides of the closing pour.
7. Reinforcing shall be continuous through all construction joints.

DIST	COUNTY	ROUTE	SECTION	SHEET NO	TOTAL SHEETS
VI	FRE	41	21-97/22.7	147	161

October 5, 1964

STANDARD DRAWING

Submitted	Roger H. Lounsbery		
DESIGN	H. Kitchen	Jr. Engineer	
DETAILS	H. Kitchen	Jr. Engineer	
Recommended for Approval			

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/29/66, AS SUBMITTED BY RESIDENT ENGINEER L. Nagel
TRACINGS CORRECTED BY: as DATE: 7/6/66

8/63 STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

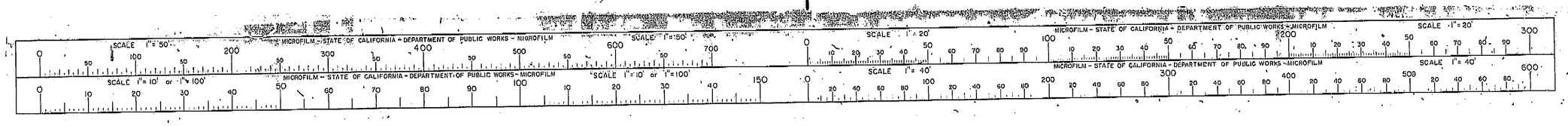
STANDARD DETAILS (STEEL GIRDERS)

BRIDGE NO	DRAWING NO	SHEET	OF
42-226 R/L	42226-B2	81	87

W.O. Disregard prints bearing earlier revision dates

REVISION DATES (PRELIMINARY STAGE ONLY)

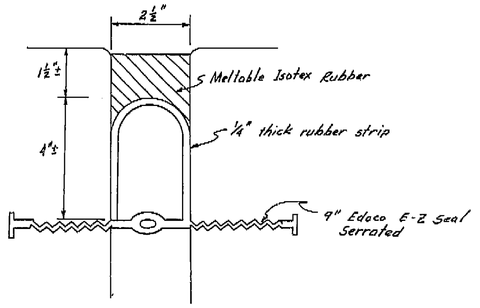
I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.
DATE 2-14-72 SIGNATURE [signature] TITLE SR RMO



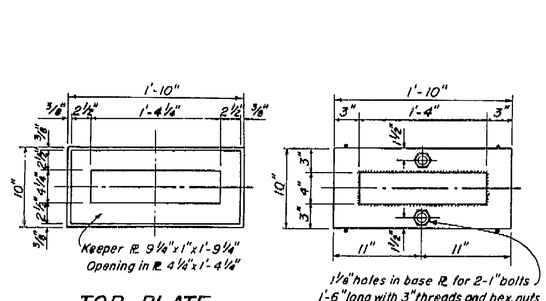
ClibPDF - www.fastio.com

DIST	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	FRE	41	21.2/22.7	111	161

DATE APPROVED October 5, 1962

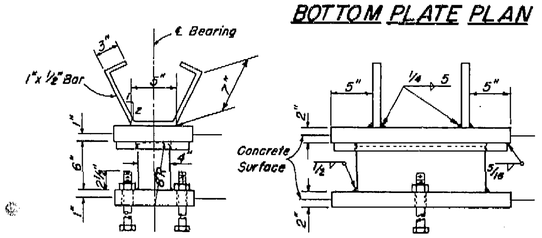


Sealed Deck Joints at steel Spans



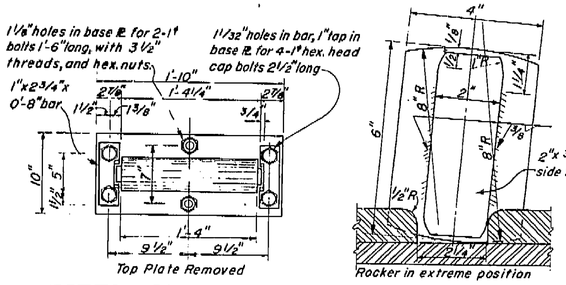
TOP PLATE

BOTTOM PLATE PLAN



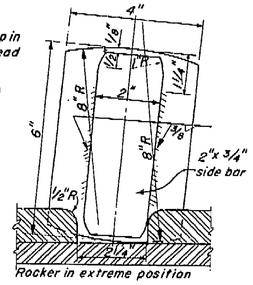
10"x22" FIXED BEARING ASSEMBLY

NONE Required Scale 1½"=1'-0"



BOTTOM PLATE PLAN

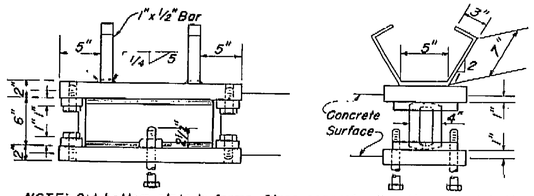
Top Plate Removed



END VIEW OF ROCKER

Scale: 6"=1'-0"

Rocker in extreme position



NOTE: Set bottom plate in forms. Place concrete directly against bottom plate. All bearing assemblies to be galvanized after fabrication.

10"x22" EXPANSION BEARING ASSEMBLY

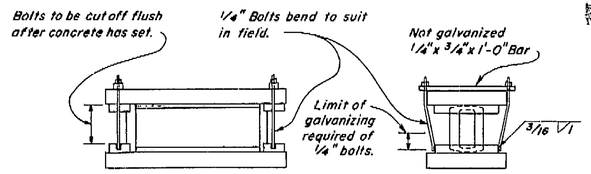
23 Required Scale 1½"=1'-0"

10- South Fresno Viaduct

5- Broadway On-Ramp O.C.

AS BUILT PLANS
Contract No. 14-0U4234
Date Completed
Document No. 60001078

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 4/29/66, AS SUBMITTED BY RESIDENT ENGINEER T. Nagai
TRACINGS CORRECTED BY [illegible] DATE 7/2/66



DETAIL OF ERECTION BOLTS

Scale 1½"=1'-0"

8/63 | STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS | File XS-16-40

SOUTH FRESNO VIADUCT

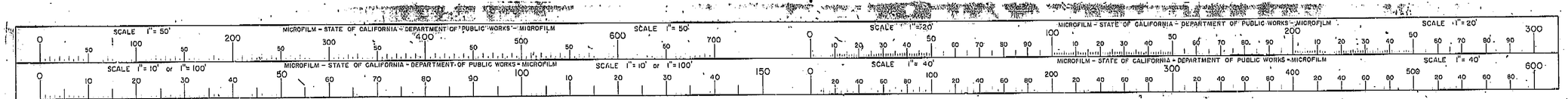
STANDARD DETAILS NO. 2 (BOX GIRDER)

BRIDGE NO	DRAWING NO	SHEET	OF
42-226 R	42226-81	45	87

W.O. Disregard prints bearing earlier revision dates → REVISION DATES (PRELIMINARY STAGE ONLY)

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-14-72 SIGNATURE [signature] TITLE SR ENGR



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Deleted Det J-21 in all cases Rev. Note in Det J-8 changed rev "box in Detail J-1 deleted note "Bend to clear Reinf at hinge." JRJ 1-20-64

Rev waterstop, 7/16/64 JRJ made change in the Girder Superstructure Placing Diagram detail 7/28/64 added Detail J-22 date. Rev Recessed Soffit Light added Typical Girder Flare Diagram. 7/16/64 JRJ

Revised Details Bent Cap Details & Reference Sheets Nov. 64 GSS

Revised Details Backwall Paved Slope Details Abut Detail Nov. 64 GSS

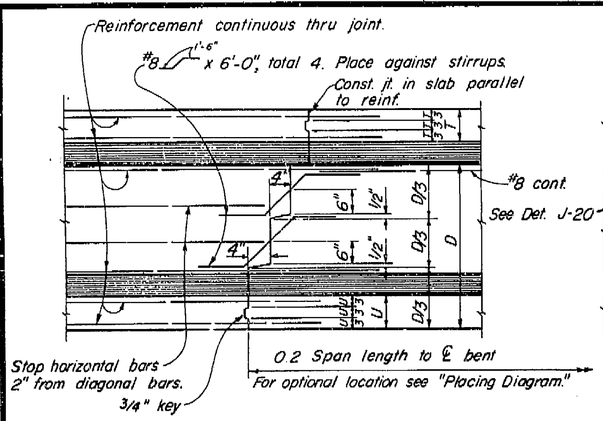
AS BUILT PLANS
Contract No 14-0/4234
Date Completed
Document No 6000107278

STANDARD DRAWING
DESIGN
DETAILS
CHECKED
APPROVED
DATE APPROVED 6-1-64

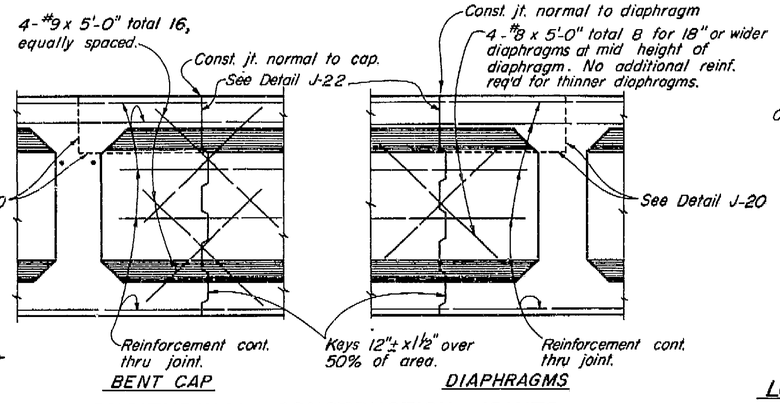
DIST	COUNTY	ROUTE	POST MILES - TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
VI	FRE	41	21.9/22.7	110	161

BRUCE ELLISON REGISTERED CIVIL ENGINEER—LICENSE EXPIRES
DATE APPROVED October 5, 1964

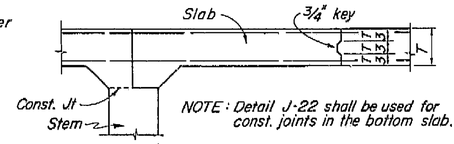
TRANSVERSE GIRDER CONSTRUCTION JOINTS
DETAIL J-3

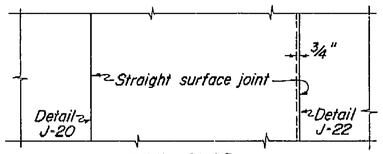


LONGITUDINAL CONSTRUCTION JOINTS
DETAIL J-4



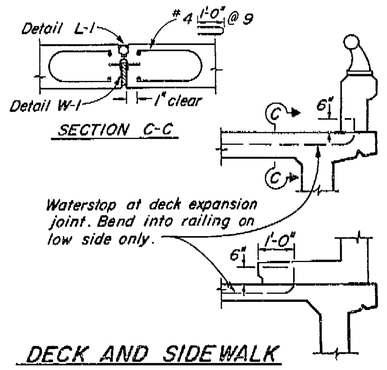
LONGITUDINAL CONSTRUCTION JOINTS



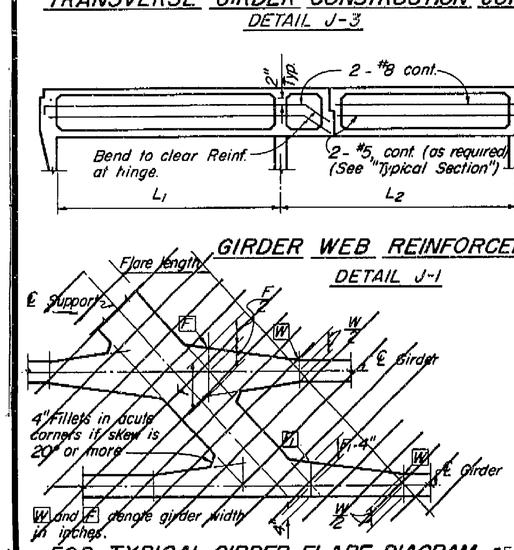


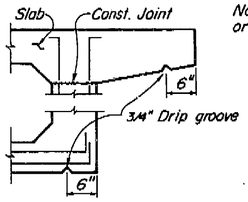
Longitudinal const. joints in slab, if required, are to be located at edge of traffic lanes except as approved by the Engineer.

DECK AND SIDEWALK JOINTS
DETAIL C-1



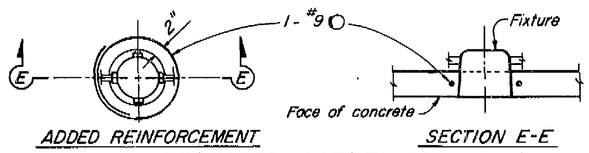
GIRDER WEB REINFORCEMENT
DETAIL J-1



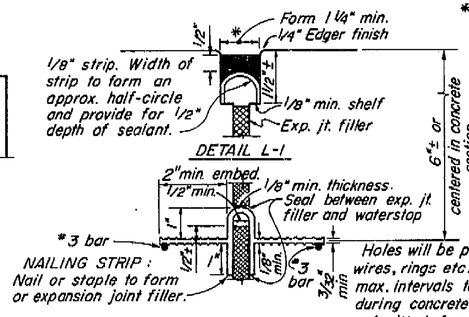


FOR TYPICAL GIRDER FLARE DIAGRAM SEE "GIRDER LAYOUT DETAILS"

Where the increase in stem width due to flare at the support is not more than 2 1/2" on a side, the stirrups may all be a constant width. In this case the stirrup width shall be determined by the minimum stem width, and the clearance from face of concrete to stirrup will vary throughout the flare.



RECESSED SOFFIT LIGHT
DETAIL F-1

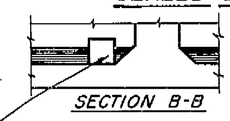


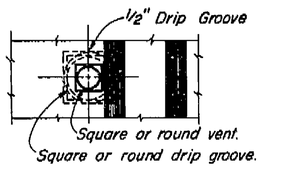
6"± or centered in concrete section

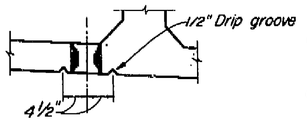
Waterstop to have 5 or more pairs of raised ribs to provide 0.1 sq. in. min. rib cross-section area on each half of the waterstop. Height of ribs to be 3/32" min.

Holes will be permitted in the outer 1/2" of the web for wires, rings etc. Tie web to #3 reinforcing bars at 12" max. intervals to support the waterstop in proper position during concrete placement. Alternative detail may be submitted for approval of the Engineer.

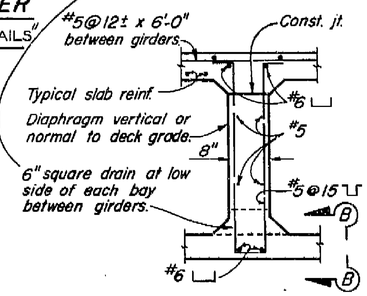
SEALED DECK JOINT



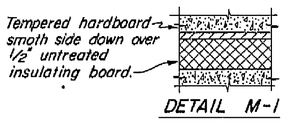


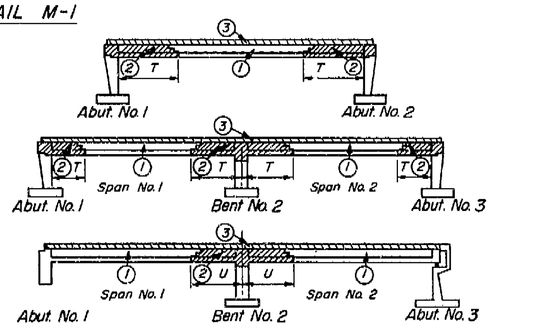


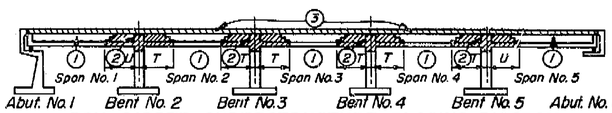
Note: 5" ϕ vent in lower slab.
Min of two vents per span in each bay between girders. One vent to be located at low point of span and other vent to be located at opposite end of span @ 1'-6" from face of Abutment or Bent.



* See Sht. 111 for sealed joint detail for steel spans.







BOX GIRDER SUPERSTRUCTURE PLACING DIAGRAM

Numbers (1) and (2) indicate sequence of placing bottom slab and girder stem concrete. (2) may be placed simultaneously with (1) when approved by the Engineer, and provided that the (1) sections are placed in adjoining spans.

Top slab concrete (3) shall be placed separately from (1) and (2). (3) may be placed continuously or in parts as approved by the Engineer.

T = 1/5 span length; U = 1/4 span length

For any deviation from the above the contractor shall submit a diagram to the Engineer.

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED _____, AS SUBMITTED BY RESIDENT ENGINEER _____
TRACINGS CORRECTED BY: _____ DATE: _____

8/64 — STATE OF CALIFORNIA, HIGHWAY TRANSPORTATION AGENCY, DEPARTMENT OF PUBLIC WORKS, DIVISION OF HIGHWAYS — File XS-16-22

SOUTH FRESNO VIADUCT

BOX GIRDER DETAILS NO. 1

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
42-226 R/L		42226-80	44	87

W.O.

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

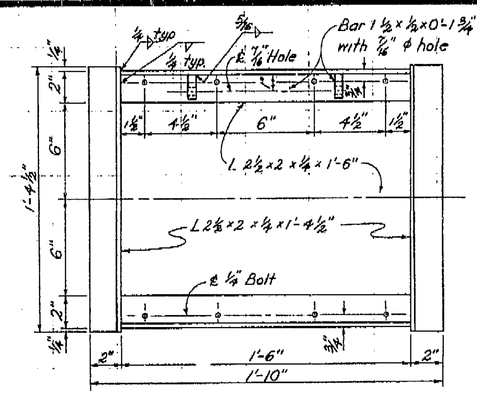
DATE 2-14-72 SIGNATURE Lowell Ellis TITLE SR RMO

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

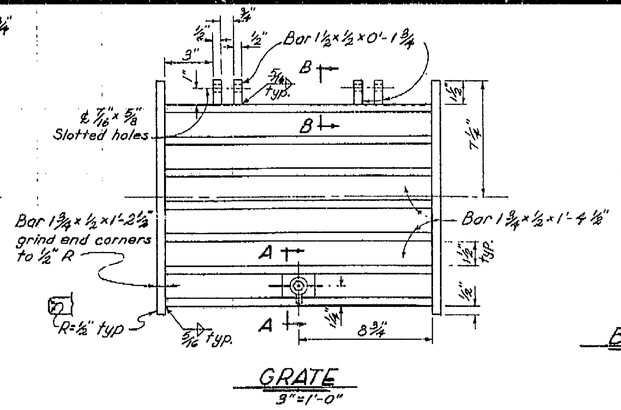
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DIST.	COUNTY	ROUTE	POSTMILE	SHEET NO.	TOTAL SHEETS
VI	FRE	41	27.7/28.2	114	151

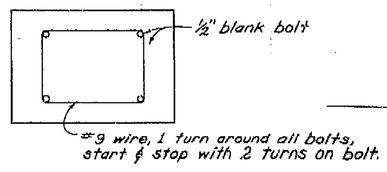
DATE APPROVED October 5, 1964



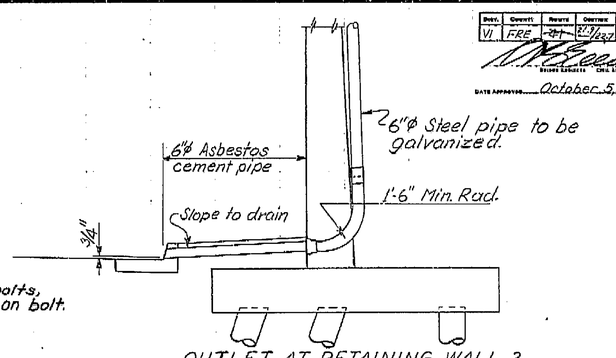
FRAME
3"=1'-0"



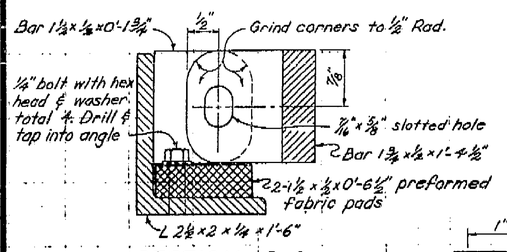
GRATE
3"=1'-0"



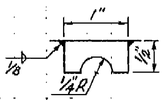
BOTTOM OF DRAIN PAN
No Scale



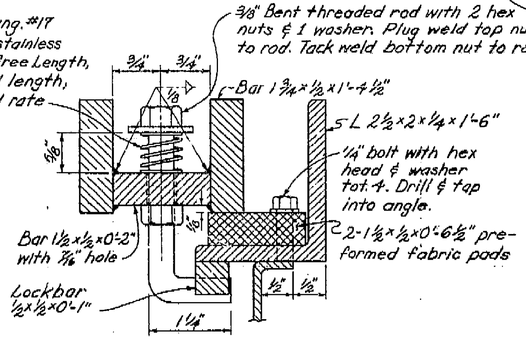
OUTLET AT RETAINING WALL 2
No Scale
1 req'd



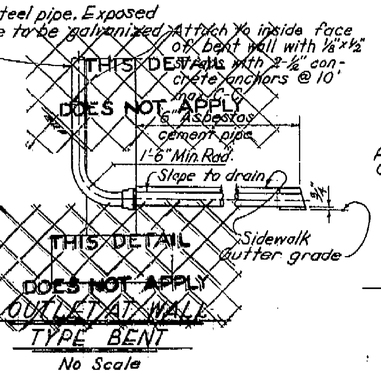
SECTION B-B
Full Size



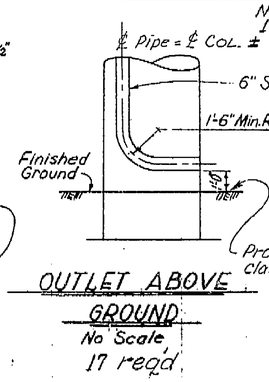
LOCK BAR
Full Size



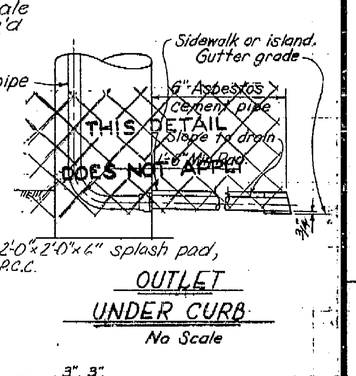
SECTION A-A
Full Size



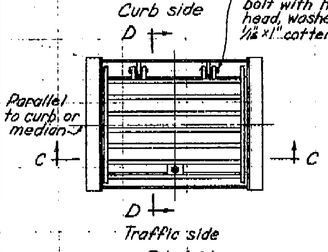
No Scale



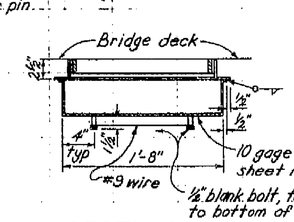
OUTLET ABOVE GROUND
No Scale
17 req'd



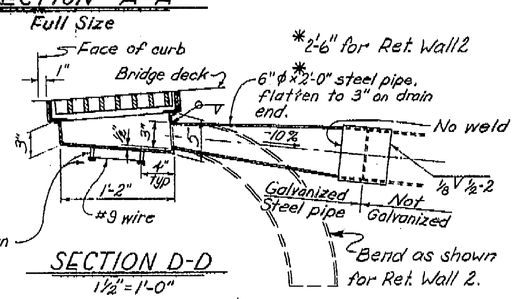
OUTLET UNDER CURB
No Scale



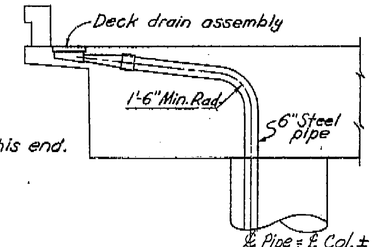
PLAN
1½"=1'-0"



SECTION C-C
1½"=1'-0"



SECTION D-D
1½"=1'-0"



DECK DRAIN LOCATION
No Scale

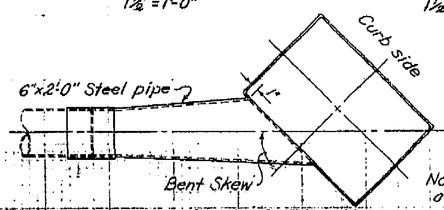


Sleeve inside diameter no greater than pipe outside diameter + ⅛ and minimum wall thickness of ⅛".

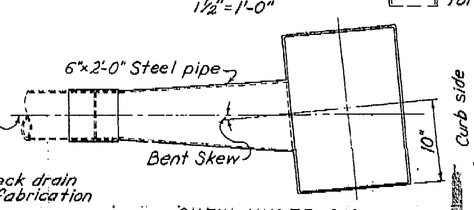
SLEEVE CONNECTION
1½"=1'-0"

Notes: All pipes and fittings to be 6" I.D. or O.D. with a minimum wall thickness of ⅛". All joints or connections to be butt welded or connected by a welded sleeve and smooth throughout inside of pipe. All bends to be on a 1'-6" minimum radius measured along ℄ pipe. All bends to be smooth throughout.

Note: For locations of deck drains see "STRUCTURE PLANS" -- 17 req'd
Retaining Wall 2 -- 1 req'd



SKEW OVER 20°



SKEW UNDER 20°

Note: Galvanize deck drain assembly after fabrication

DECK DRAIN ASSEMBLY
1½"=1'-0"

SHEET 43 OF 87

AS BUILT PLANS
Contract No. 14-014234
Date Completed
Document No. 60001078

1/29/66 L. Nagel
TRACINGS CORRECTED AS BUILT 7/12/66

BRIDGE DEPARTMENT DESIGN SECTION 15		
Section Supervisor	R C Blake	
DESIGN	by W.A. Banks	Checked R C Blake
DETAILS	by W.A. Banks	Checked R C Blake
QUANTITIES	by W.A. Banks	Checked D R Moon 1-64

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SOUTH FRESNO VIADUCT

TYPE D-2 DRAIN & DETAILS

SCALE As Noted BRIDGE FILE DRAWING 42226

PRELIMINARY DRAWING No. P- REVISION DATES

Disregard prints bearing earlier revision dates

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-17-72 SIGNATURE [illegible] TITLE [illegible]

SCALE 1"= 50' MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM SCALE 1"= 20'
SCALE 1"= 10' or 1"= 100' MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM SCALE 1"= 40'

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